

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198560

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL3-7030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5865 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

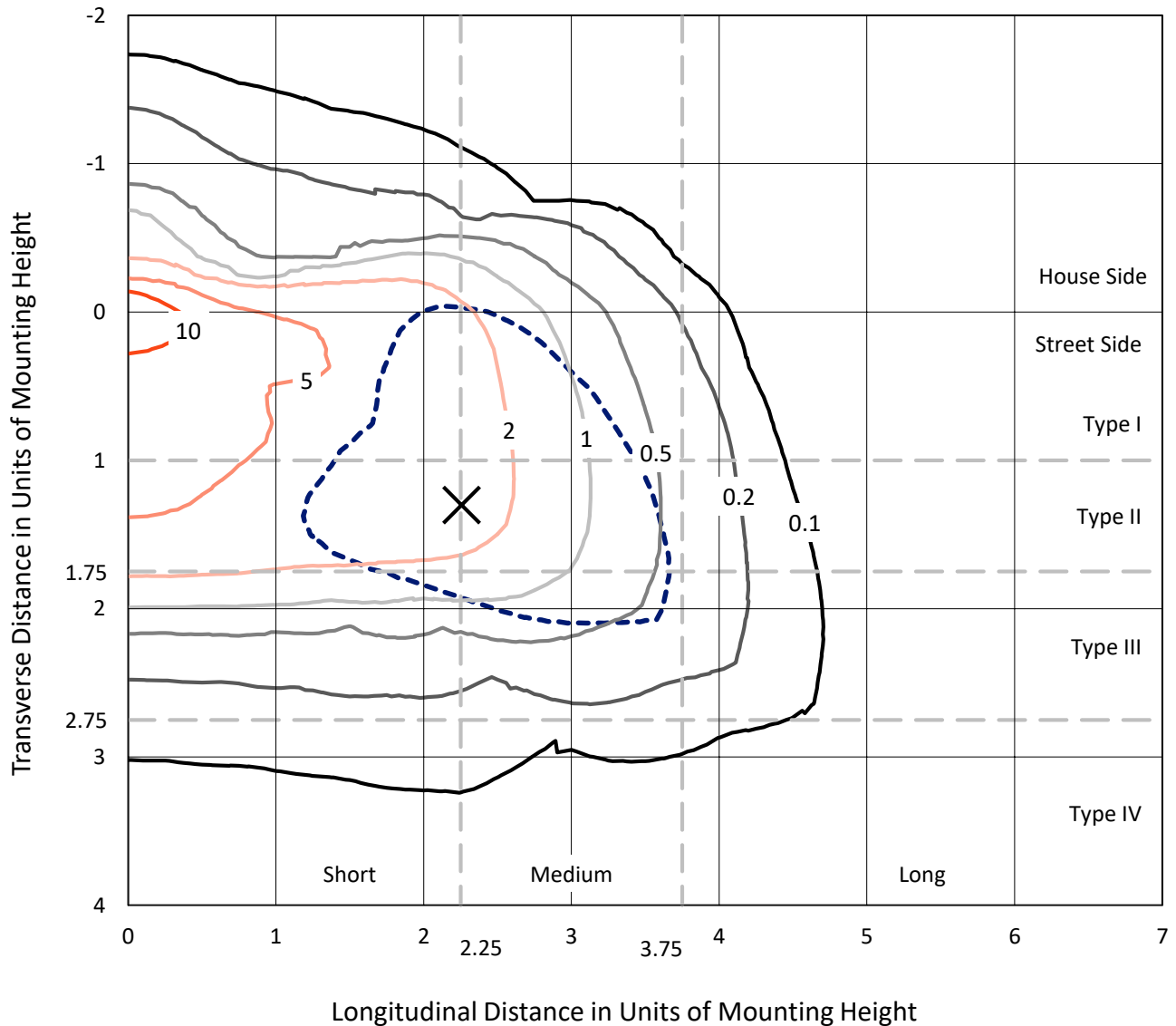


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### Iso-Footcandle Lines of Horizontal Illumination

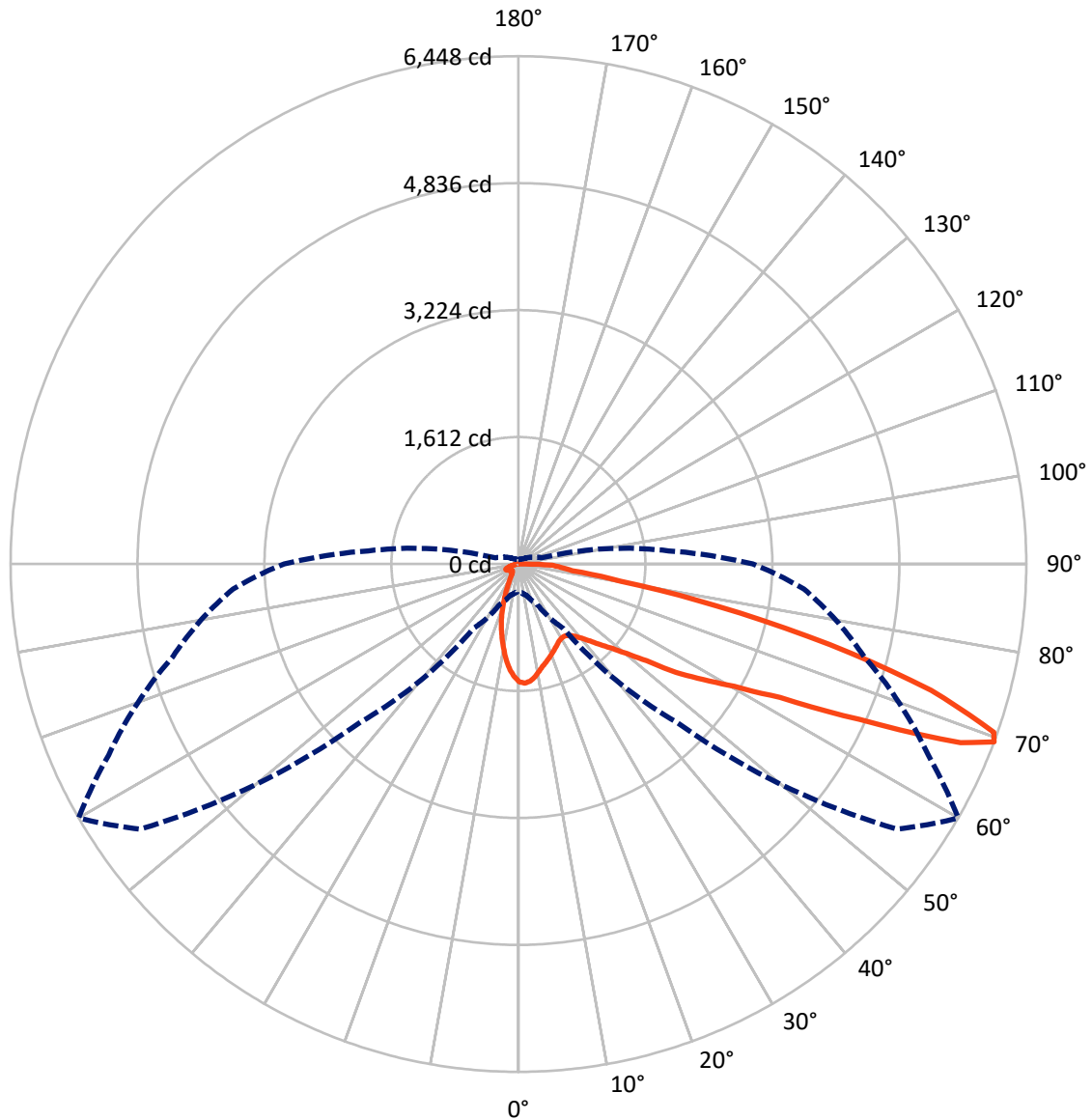
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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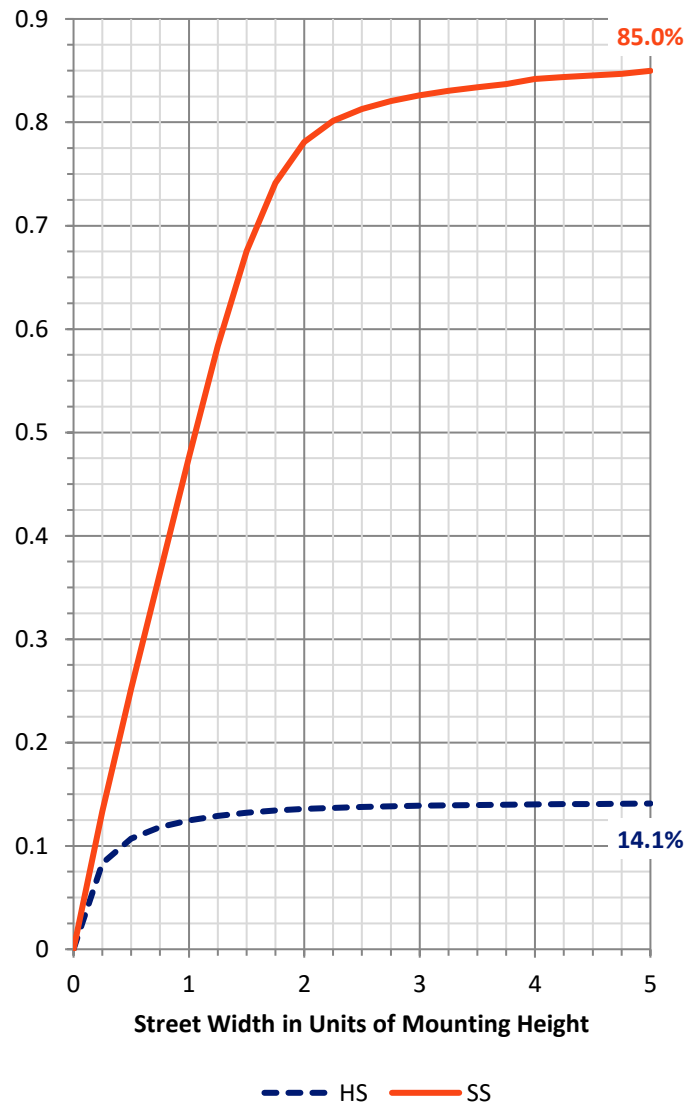
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	836.5	0.0	836.5
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	5028.5	0.0	5028.5
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	5865.0	0.0	5865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	2.2
10°-20°	271.8	4.6
20°-30°	346.8	5.9
30°-40°	477.2	8.1
40°-50°	772.9	13.2
50°-60°	1213.1	20.7
60°-70°	1617.2	27.6
70°-80°	899.6	15.3
80°-90°	139.5	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5865.0	100.0
0°-180°	5865.0	100.0

**Coefficient of Utilization**



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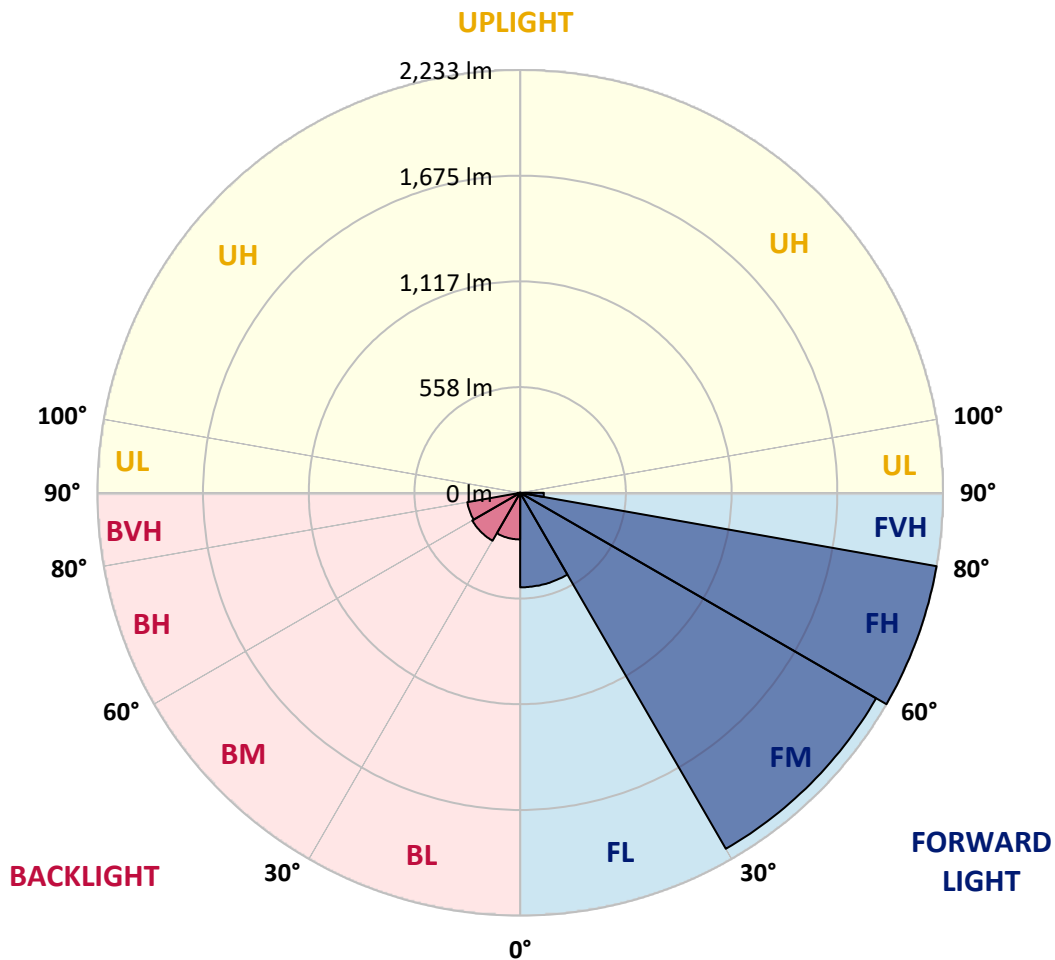
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	8.5			
FM (30°-60°)	2170.9	37.0			
FH (60°-80°)	2233.2	38.1			G2/5000
FVH (80°-90°)	125.4	2.1			G2/225
BL (0°-30°)	246.5	4.2	B1/500		
BM (30°-60°)	292.2	5.0	B1/1000		
BH (60°-80°)	283.6	4.8	B1/500		G1/500
BVH (80°-90°)	14.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5
2.5°	1536.3	1540.5	1540.5	1537.1	1535.2	1524.3	1517.9	1513.4	1505.5	1490.8	1477.7
5°	1481.4	1489.3	1492.7	1494.2	1504.0	1500.6	1501.0	1498.0	1491.2	1475.4	1454.0
7.5°	1380.6	1382.1	1388.2	1398.3	1422.0	1438.6	1452.1	1454.7	1453.2	1441.6	1411.5
10°	1281.3	1284.0	1291.1	1308.4	1331.0	1354.7	1384.0	1396.1	1405.1	1401.3	1363.3
12.5°	1199.0	1199.4	1207.3	1227.2	1252.4	1282.1	1322.0	1340.8	1362.2	1370.9	1328.4
15°	1119.6	1124.9	1132.4	1156.5	1187.7	1225.3	1271.2	1297.1	1325.4	1350.2	1301.3
17.5°	1059.5	1063.6	1068.1	1088.0	1124.1	1171.2	1227.9	1255.8	1293.0	1331.0	1273.5
20°	1026.4	1027.9	1024.5	1034.3	1064.7	1115.5	1181.3	1214.8	1259.2	1312.6	1244.9
22.5°	1019.6	1019.6	1007.2	1005.3	1018.8	1061.7	1133.2	1174.2	1228.3	1299.8	1219.3
25°	1051.2	1048.9	1025.6	1004.2	999.3	1021.1	1087.3	1137.7	1202.0	1299.4	1200.1
27.5°	1111.0	1108.0	1079.0	1042.9	1011.7	1002.3	1051.9	1103.5	1181.3	1312.2	1190.3
30°	1185.4	1184.3	1155.0	1109.8	1058.3	1009.8	1038.0	1085.8	1167.4	1335.9	1190.0
32.5°	1267.1	1261.8	1243.7	1198.6	1131.7	1051.6	1046.3	1086.5	1163.6	1370.5	1198.6
35°	1353.9	1350.2	1345.7	1300.2	1224.9	1125.3	1082.8	1112.5	1182.1	1418.6	1223.1
37.5°	1464.5	1460.4	1467.9	1418.2	1335.9	1221.9	1144.5	1164.4	1219.7	1488.6	1268.6
40°	1661.2	1649.2	1628.1	1551.8	1465.3	1340.4	1233.6	1236.6	1284.0	1582.2	1341.5
42.5°	1984.3	1945.5	1841.4	1701.1	1601.8	1478.0	1349.8	1335.5	1372.7	1706.0	1447.6
45°	2308.1	2264.5	2088.4	1863.9	1743.2	1625.8	1493.5	1459.2	1483.3	1850.0	1584.1
47.5°	2517.2	2495.8	2297.2	2026.8	1891.4	1786.8	1657.8	1601.4	1618.7	2013.2	1752.6
50°	2578.5	2560.1	2404.0	2154.3	2031.3	1981.3	1861.3	1786.4	1789.4	2203.9	1954.6
52.5°	2532.6	2525.1	2421.7	2233.2	2159.9	2186.2	2143.0	2038.8	2014.0	2413.0	2173.4
55°	2471.3	2473.9	2434.1	2312.6	2290.8	2377.3	2511.5	2427.7	2322.4	2630.8	2401.4
57.5°	2278.4	2280.3	2384.8	2463.8	2540.5	2645.1	2798.5	2763.2	2640.5	2865.8	2656.7
60°	1834.6	1849.2	2082.0	2432.6	2826.0	3172.7	3210.3	3149.4	2979.0	3136.6	2988.8
62.5°	1310.7	1323.8	1593.5	2111.8	2792.5	3770.0	3970.8	3728.6	3438.2	3541.7	3455.9
65°	688.6	686.4	895.1	1459.2	2352.1	3908.4	5169.0	4756.8	4211.9	4098.7	3907.2
67.5°	384.7	397.2	478.0	736.0	1533.0	3439.7	5934.4	6055.8	5287.5	4540.6	3887.7
69°	355.8	359.9	414.1	569.0	999.3	2838.0	5868.6	6448.1	5741.1	4542.4	3637.2
70°	345.6	350.1	399.4	524.3	839.4	2325.4	5629.0	6402.2	5851.3	4441.7	3409.3
72.5°	309.9	315.9	363.7	471.2	707.4	1198.6	4534.2	5479.7	5300.3	3882.0	2643.6
75°	264.4	274.5	346.8	467.9	670.2	762.0	3023.8	4082.5	3944.8	2776.3	1499.9
77.5°	109.4	110.6	151.6	342.6	703.3	729.2	1625.1	2586.0	2289.3	1217.4	451.7
80°	76.3	74.8	75.6	100.0	567.5	734.1	833.8	1315.2	1022.2	321.2	211.4
82.5°	64.3	63.6	66.6	62.8	192.2	833.0	697.3	685.6	481.4	173.0	100.8
85°	42.5	41.4	54.5	57.2	91.4	661.5	749.9	538.9	358.8	92.5	42.9
87.5°	20.7	21.1	31.2	38.7	48.5	209.5	718.3	426.1	277.2	40.2	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5	1496.5
2.5°	1472.4	1461.1	1451.0	1438.2	1428.4	1420.1	1408.8	1408.5	1406.6	1409.2	1410.0
5°	1439.7	1420.9	1392.3	1360.3	1337.8	1308.1	1279.1	1269.3	1258.4	1257.3	1260.7
7.5°	1390.4	1361.1	1312.2	1263.3	1214.4	1164.4	1117.0	1092.9	1069.6	1062.5	1065.8
10°	1335.5	1298.3	1223.4	1143.7	1074.9	1000.4	928.2	881.6	839.1	821.0	825.5
12.5°	1292.6	1245.2	1139.9	1036.5	933.5	826.7	731.5	639.4	569.8	538.6	540.4
15°	1255.8	1195.2	1061.7	924.1	795.1	648.8	516.8	409.9	349.0	326.4	325.7
17.5°	1215.9	1142.6	980.1	819.5	652.1	471.2	346.0	282.8	258.8	251.2	251.2
20°	1173.4	1088.4	894.7	705.6	501.7	329.1	260.3	235.8	226.8	224.5	224.2
22.5°	1133.9	1035.4	809.0	584.1	362.9	249.7	221.5	212.1	210.6	212.5	212.5
25°	1102.7	988.7	722.1	456.2	264.0	209.1	197.1	195.9	201.6	208.4	209.5
27.5°	1079.4	947.0	636.3	333.2	207.6	182.0	177.9	182.8	195.9	209.5	212.1
30°	1063.2	911.3	533.7	239.6	173.0	159.5	161.3	170.0	189.9	210.6	216.3
32.5°	1056.1	882.3	430.3	183.9	147.8	140.3	145.2	156.5	177.1	197.8	204.6
35°	1062.8	861.3	334.7	152.7	129.4	123.7	129.4	141.0	154.6	164.7	168.9
37.5°	1087.3	853.7	252.0	135.4	117.3	111.7	116.2	124.1	130.1	133.9	135.8
40°	1138.8	861.6	197.4	126.4	110.6	104.2	105.3	109.1	113.2	116.2	116.6
42.5°	1220.8	887.6	175.6	123.0	106.4	98.2	96.3	98.9	103.4	107.6	108.3
45°	1329.9	930.8	173.4	124.1	104.6	93.3	89.5	92.1	98.2	104.9	106.1
47.5°	1470.9	999.3	183.9	130.1	105.7	90.6	85.0	87.6	95.5	104.6	106.1
50°	1637.9	1094.1	203.5	139.2	110.9	90.6	83.1	85.4	93.6	103.8	105.3
52.5°	1834.6	1226.1	223.8	148.2	118.5	94.0	83.9	83.5	91.0	100.4	102.3
55°	2051.6	1390.0	243.3	156.1	122.6	98.5	85.7	81.2	87.3	94.8	96.3
57.5°	2307.0	1614.6	277.6	163.6	124.9	101.9	88.0	79.0	82.4	87.6	88.8
60°	2653.3	1944.4	344.1	176.4	129.0	103.4	88.4	76.7	76.3	80.1	80.5
62.5°	3105.0	2330.6	407.7	191.4	137.3	103.8	86.9	75.2	71.5	72.6	72.6
65°	3426.2	2472.8	389.3	204.2	144.8	103.4	85.4	74.1	67.7	65.8	65.8
67.5°	3243.4	2184.3	330.6	207.6	145.5	99.3	82.0	71.5	64.3	59.8	59.8
69°	2974.9	1914.7	303.5	201.6	139.5	94.4	78.2	68.8	62.1	56.8	56.8
70°	2756.0	1710.5	287.0	194.4	132.4	90.3	74.8	66.2	59.8	55.3	54.9
72.5°	2057.6	1141.4	245.2	167.7	108.7	76.3	65.4	59.0	53.8	50.8	50.8
75°	1085.8	572.0	200.8	136.9	83.9	60.9	53.8	49.6	46.6	46.3	45.9
77.5°	355.8	258.8	144.4	103.0	61.7	47.4	42.9	40.2	39.9	41.4	41.4
80°	192.2	154.6	92.9	69.6	42.9	35.4	33.1	32.7	33.8	36.1	36.1
82.5°	93.3	76.3	55.3	42.9	29.3	26.0	26.0	26.3	27.8	30.5	30.5
85°	40.2	36.1	32.0	24.1	18.1	16.2	18.4	20.3	21.4	23.3	24.1
87.5°	19.2	16.9	14.7	9.4	7.9	8.3	9.8	12.0	14.3	15.8	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)