

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: P198704

Luminaire Tested: **XNV-AF-01-LED-U-SL2-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
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-SL2-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6653.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

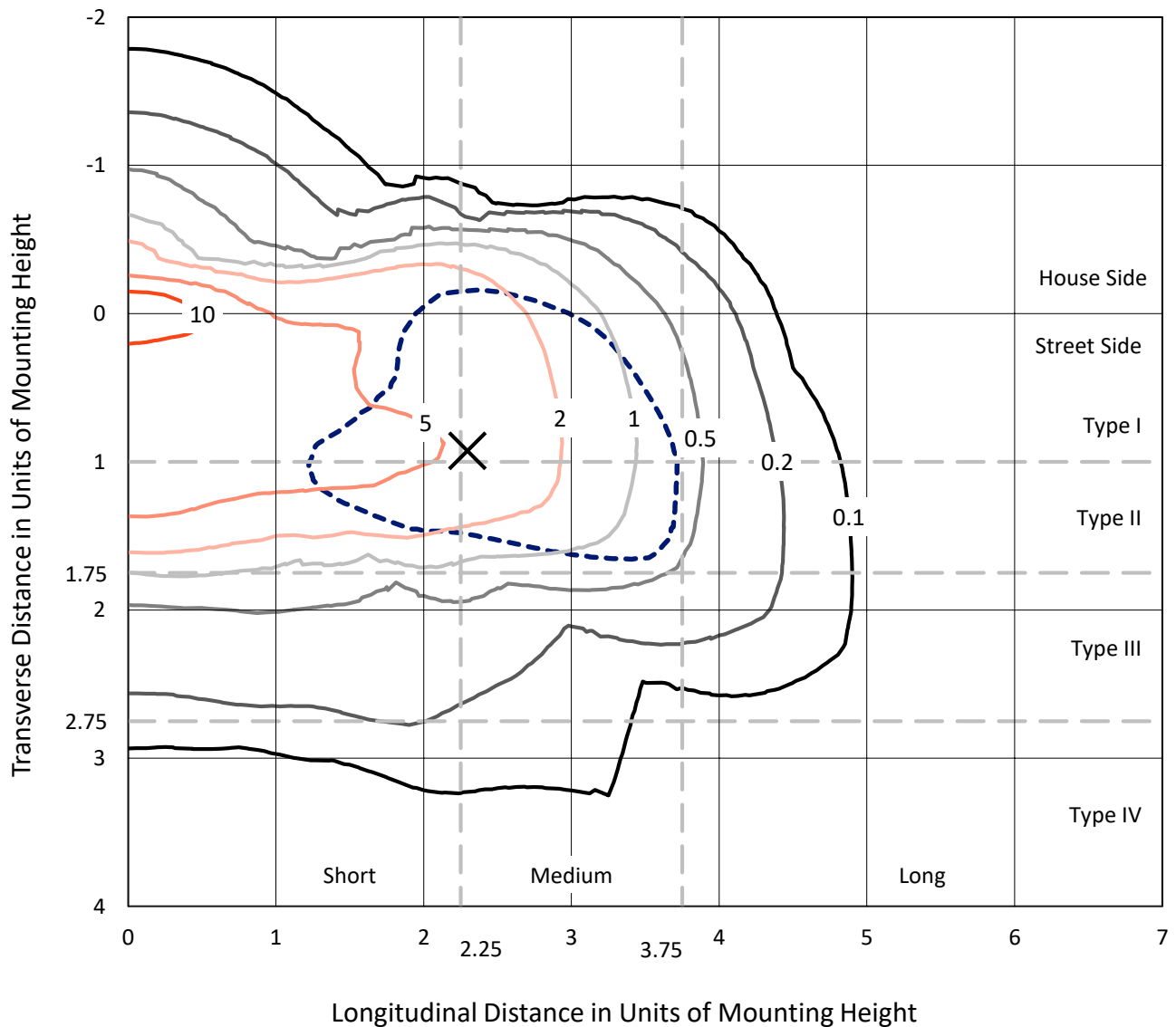
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

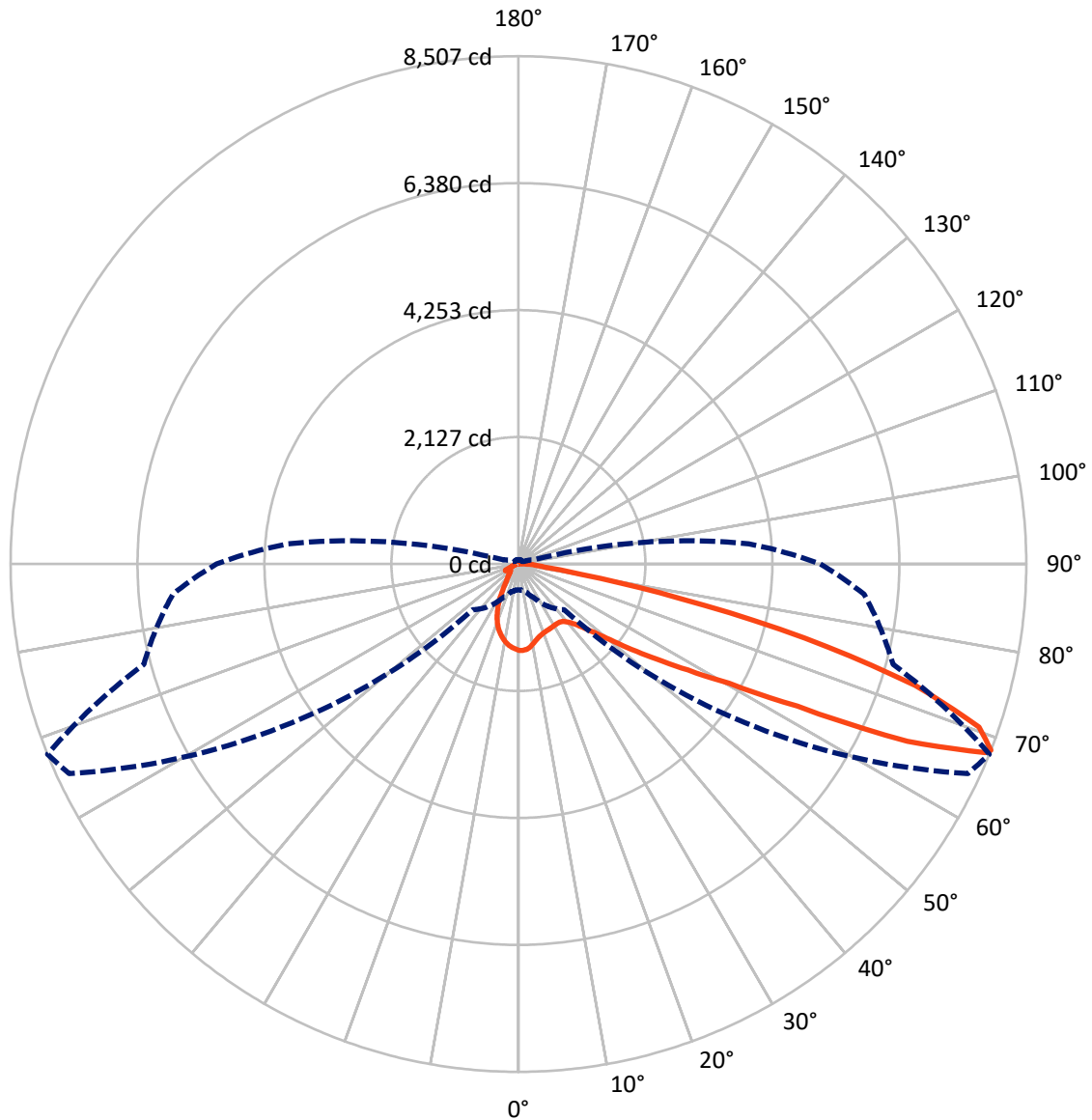


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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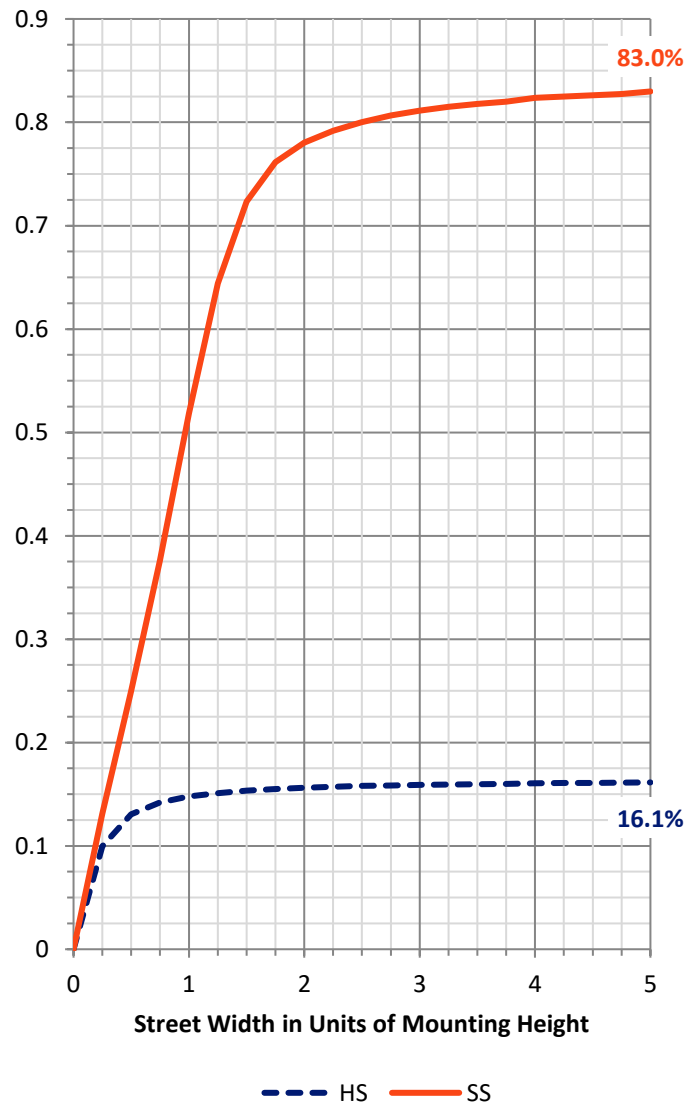
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1088.5	0.0	1088.5
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	5564.8	0.0	5564.8
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	6653.3	0.0	6653.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	1.9
10°-20°	287.7	4.3
20°-30°	389.1	5.8
30°-40°	548.6	8.2
40°-50°	902.1	13.6
50°-60°	1398.4	21.0
60°-70°	1813.1	27.3
70°-80°	1040.5	15.6
80°-90°	149.7	2.3
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°	6653.3	100.0
0°-180°	6653.3	100.0



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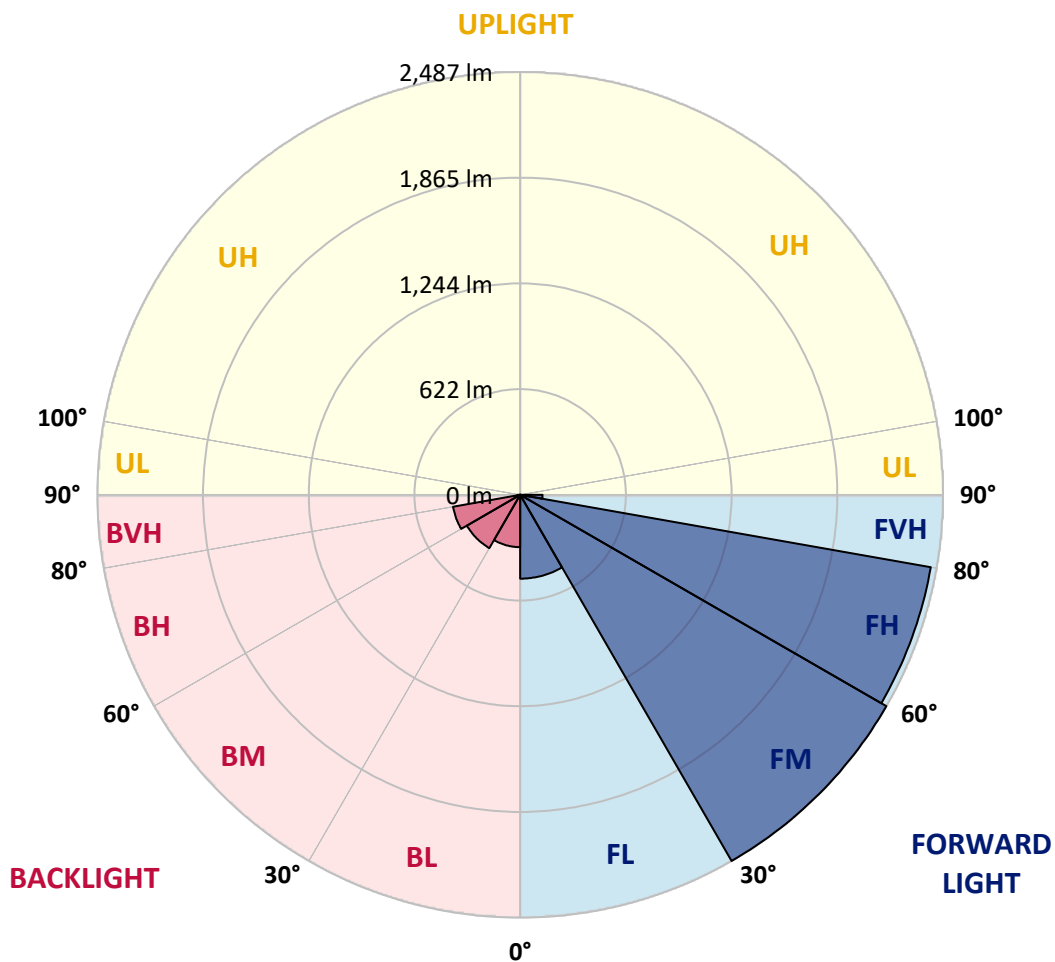
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.1	7.4			
FM	(30°-60°)	2487.1	37.4			
FH	(60°-80°)	2452.7	36.9			G2/5000
FVH	(80°-90°)	131.9	2.0			G2/225
BL	(0°-30°)	307.7	4.6	B1/500		
BM	(30°-60°)	362.0	5.4	B1/1000		
BH	(60°-80°)	400.9	6.0	B1/500		G1/500
BVH	(80°-90°)	17.8	0.3			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7
2.5°	1409.0	1420.3	1420.3	1428.6	1435.9	1442.1	1447.3	1447.3	1447.3	1443.8	1440.7
5°	1260.8	1276.0	1278.2	1299.0	1326.5	1359.9	1397.2	1430.3	1436.8	1449.0	1453.8
7.5°	1157.8	1162.6	1170.9	1185.2	1213.0	1254.2	1313.0	1386.8	1404.7	1442.9	1462.9
10°	1084.8	1088.7	1095.7	1110.0	1135.2	1172.6	1230.4	1326.5	1356.0	1423.7	1463.3
12.5°	1031.3	1034.4	1040.9	1053.9	1079.6	1113.1	1172.2	1272.1	1308.7	1404.7	1469.5
15°	989.6	994.8	1000.0	1012.6	1038.7	1070.9	1130.9	1232.6	1272.1	1389.5	1480.7
17.5°	973.1	975.7	976.6	983.1	1006.6	1039.1	1099.2	1204.7	1245.6	1377.3	1489.4
20°	983.6	984.0	975.3	970.9	984.4	1014.4	1072.7	1183.9	1225.6	1366.5	1492.9
22.5°	1029.2	1029.2	1006.6	987.5	978.4	997.0	1054.8	1169.5	1214.8	1358.2	1492.9
25°	1116.0	1112.2	1077.0	1039.1	998.7	990.9	1043.5	1160.4	1206.5	1353.8	1487.3
27.5°	1230.4	1226.9	1182.1	1126.1	1053.0	1003.9	1039.6	1153.1	1198.2	1347.3	1475.1
30°	1369.4	1366.5	1315.6	1242.2	1134.4	1045.3	1048.7	1147.9	1191.7	1336.4	1454.6
32.5°	1508.1	1506.4	1466.0	1390.8	1246.5	1115.2	1072.7	1146.9	1188.3	1323.4	1429.9
35°	1647.6	1647.6	1622.8	1559.4	1397.2	1220.4	1122.6	1163.0	1194.7	1316.4	1408.6
37.5°	1853.6	1845.4	1799.3	1733.7	1587.2	1356.8	1203.4	1197.0	1220.0	1328.2	1401.6
40°	2172.6	2148.7	2033.5	1923.1	1794.6	1531.6	1321.7	1262.5	1276.4	1368.2	1418.1
42.5°	2506.4	2468.6	2316.1	2139.6	2008.8	1747.1	1476.8	1369.0	1368.6	1445.5	1470.7
45°	2792.9	2773.2	2608.1	2384.3	2253.5	1989.6	1672.8	1527.3	1511.6	1565.4	1572.0
47.5°	2959.3	2946.2	2846.7	2643.3	2543.8	2276.1	1921.4	1746.7	1717.1	1749.3	1739.3
50°	2913.2	2925.8	2897.1	2793.3	2855.9	2678.5	2238.2	2047.4	1991.4	2023.6	1999.3
52.5°	2670.7	2704.6	2730.3	2750.2	3035.3	3217.0	2636.3	2423.0	2376.4	2370.8	2347.4
55°	2233.9	2287.8	2368.6	2515.5	2987.1	3649.5	3331.8	2877.2	2809.3	2773.7	2782.8
57.5°	1520.3	1601.9	1776.3	2055.7	2736.3	3833.7	4360.0	3463.8	3349.1	3222.2	3251.8
60°	837.5	905.7	1113.1	1394.7	2164.0	3806.3	5271.4	4417.4	4056.2	3719.9	3780.7
62.5°	542.0	556.7	711.1	952.7	1328.2	3360.4	5777.7	6011.2	5245.8	4376.1	4461.7
65°	435.5	445.9	521.5	768.4	925.3	2161.8	5800.3	7664.4	7159.8	5267.9	5270.5
67.5°	425.4	430.3	474.1	646.3	867.9	1176.9	5013.7	8316.3	8433.2	6320.6	5811.6
68°	431.6	437.2	481.5	626.3	867.5	1084.8	4633.9	8306.3	8506.7	6496.6	5811.6
70°	380.7	387.7	491.1	648.0	830.5	932.7	3173.1	7865.2	8187.7	6901.2	5514.3
72.5°	199.1	193.4	243.0	511.6	934.9	971.8	1676.3	6570.9	6947.3	6391.4	4764.2
75°	155.2	141.3	136.1	202.1	822.2	1007.9	973.5	4670.4	4954.6	4607.4	3184.4
77.5°	146.1	129.1	119.1	119.5	362.0	1048.7	787.5	2748.5	2748.5	2197.8	1016.1
80°	117.3	101.7	95.1	108.6	174.7	966.6	821.8	1252.5	1068.3	568.0	279.9
82.5°	77.3	69.2	69.6	88.2	132.6	645.4	951.8	618.5	464.6	251.6	164.7
85°	49.1	42.1	47.0	61.7	99.1	287.8	942.2	429.8	307.7	141.3	82.1
87.5°	24.8	19.1	23.4	32.1	60.5	82.6	775.8	383.8	228.2	58.7	44.8
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°	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7	1447.7
2.5°	1440.7	1431.2	1426.4	1418.5	1409.0	1399.5	1393.0	1389.9	1388.1	1389.1	1388.6
5°	1451.2	1438.6	1418.1	1389.1	1359.0	1327.3	1302.9	1284.3	1272.6	1269.1	1268.2
7.5°	1459.0	1440.7	1402.5	1349.5	1298.2	1242.6	1195.2	1157.4	1131.7	1120.0	1119.5
10°	1457.7	1434.2	1373.8	1295.6	1220.4	1138.6	1064.4	1001.0	954.8	932.7	931.8
12.5°	1459.0	1426.8	1338.6	1232.6	1124.7	1007.9	897.4	798.8	730.2	697.6	696.2
15°	1464.3	1419.0	1302.5	1162.2	1013.1	847.9	690.2	566.3	503.7	482.4	482.4
17.5°	1463.7	1405.9	1260.8	1080.4	880.6	659.3	471.1	394.7	388.5	408.1	411.1
20°	1455.0	1385.1	1206.9	983.6	725.0	456.3	319.5	308.6	357.2	411.1	417.3
22.5°	1441.6	1358.2	1144.8	870.9	543.7	297.3	246.4	262.9	329.0	395.9	405.5
25°	1422.9	1325.5	1073.5	740.1	361.6	213.8	205.6	226.0	272.5	317.2	324.2
27.5°	1395.5	1284.3	995.7	598.4	230.8	176.0	179.0	193.4	213.4	232.5	236.4
30°	1361.2	1236.0	910.9	441.6	175.1	157.3	162.5	171.2	179.9	192.1	194.7
32.5°	1326.5	1186.9	822.8	303.4	153.0	147.3	152.5	157.3	164.7	173.0	174.7
35°	1295.2	1141.3	731.9	211.6	143.4	140.9	143.4	146.5	153.9	162.1	163.0
37.5°	1272.6	1103.9	637.1	167.4	137.8	135.1	136.5	137.8	146.5	158.7	159.9
40°	1269.5	1079.1	541.1	150.4	133.4	129.9	129.1	129.9	141.3	155.2	156.5
42.5°	1299.0	1080.4	447.2	143.4	129.9	126.0	122.5	124.3	134.3	145.2	146.1
45°	1369.0	1110.8	365.9	140.3	126.9	123.9	118.7	119.5	124.3	129.9	130.8
47.5°	1492.5	1177.3	303.8	138.6	124.3	121.7	115.2	112.5	113.0	116.0	116.0
50°	1689.8	1288.6	266.0	136.9	122.1	117.3	110.0	104.8	103.4	105.2	105.6
52.5°	1984.0	1479.4	247.8	133.4	118.3	111.7	103.4	98.2	96.1	97.8	97.8
55°	2381.6	1784.1	239.1	128.7	113.4	104.8	97.4	93.0	91.2	92.6	92.6
57.5°	2835.0	2180.0	253.8	122.1	107.3	97.4	92.2	89.1	87.8	89.1	89.5
60°	3373.5	2698.0	355.5	113.9	100.9	90.8	87.8	86.0	85.2	86.4	86.4
62.5°	4089.2	3387.4	550.2	107.3	93.9	84.7	83.9	83.0	82.1	83.5	83.5
65°	4862.0	4014.5	566.3	103.4	87.8	79.5	80.0	80.0	79.1	80.4	80.4
67.5°	5108.0	3960.1	316.4	98.6	80.4	74.4	76.1	76.1	75.6	76.9	76.5
68°	5055.8	3874.1	275.6	97.4	79.1	73.0	74.8	75.2	74.8	76.1	75.6
70°	4667.3	3401.3	181.3	89.9	73.4	68.6	71.3	71.7	71.3	73.0	72.6
72.5°	3852.8	2551.1	133.9	78.7	66.5	63.0	65.7	66.1	66.5	68.2	67.8
75°	2446.9	1409.0	105.6	66.9	59.5	56.5	59.1	60.5	61.3	63.9	62.6
77.5°	670.1	427.7	85.6	57.0	51.2	50.0	51.8	53.5	54.3	57.4	55.2
80°	234.7	189.0	71.3	48.3	42.6	42.1	43.9	45.6	46.5	49.1	46.5
82.5°	142.6	123.5	57.0	37.8	33.5	33.0	35.2	36.9	37.8	37.8	36.1
85°	74.4	65.2	41.7	26.5	23.0	21.7	25.7	27.8	28.2	27.8	26.5
87.5°	41.7	36.9	22.2	12.6	10.4	10.8	13.5	16.5	17.8	17.4	16.5
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)