

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: P198702

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198702
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 6065.1 lumens
Efficiency: N/A
Efficacy: 104.6 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): 58
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

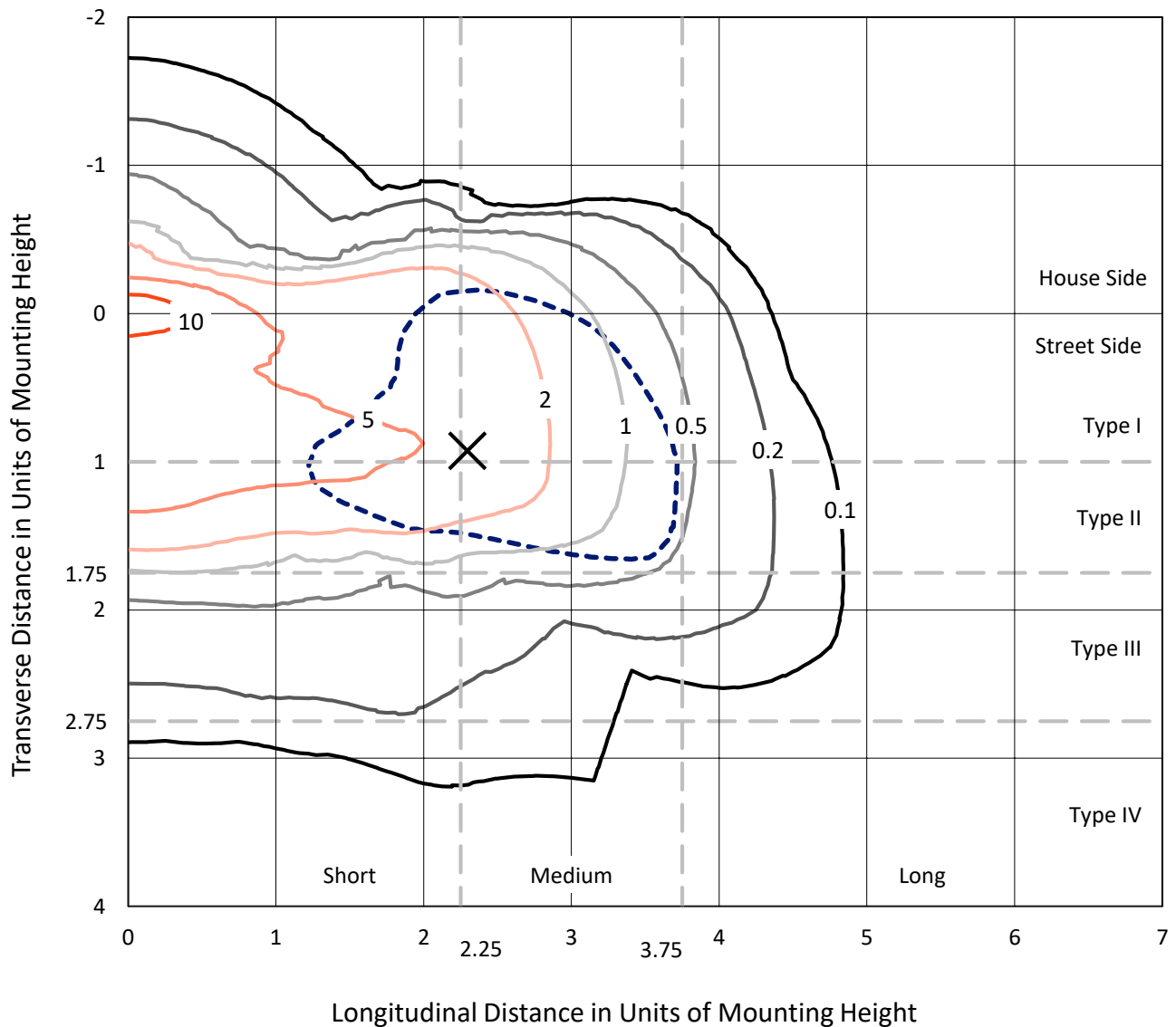


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

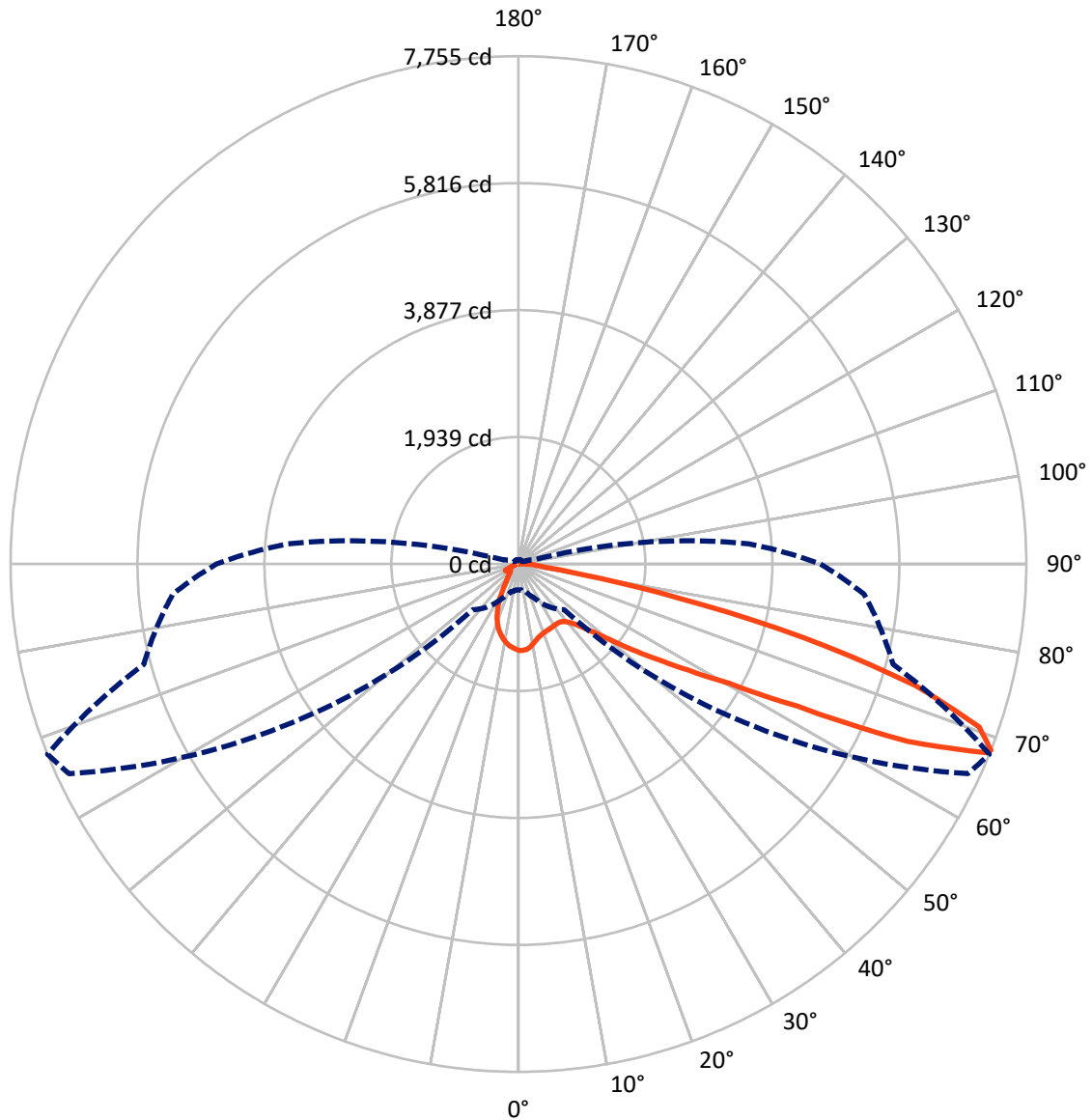


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - Semi-Cutoff

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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
House Side	Lumens	992.3	0.0	992.3
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5072.8	0.0	5072.8
	% Fixture	83.6	0.0	83.6
Total	Lumens	6065.1	0.0	6065.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.9
10°-20°	262.3	4.3
20°-30°	354.7	5.8
30°-40°	500.1	8.2
40°-50°	822.4	13.6
50°-60°	1274.8	21.0
60°-70°	1652.8	27.3
70°-80°	948.5	15.6
80°-90°	136.5	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°	6065.1	100.0
0°-180°	6065.1	100.0

Coefficient of Utilization



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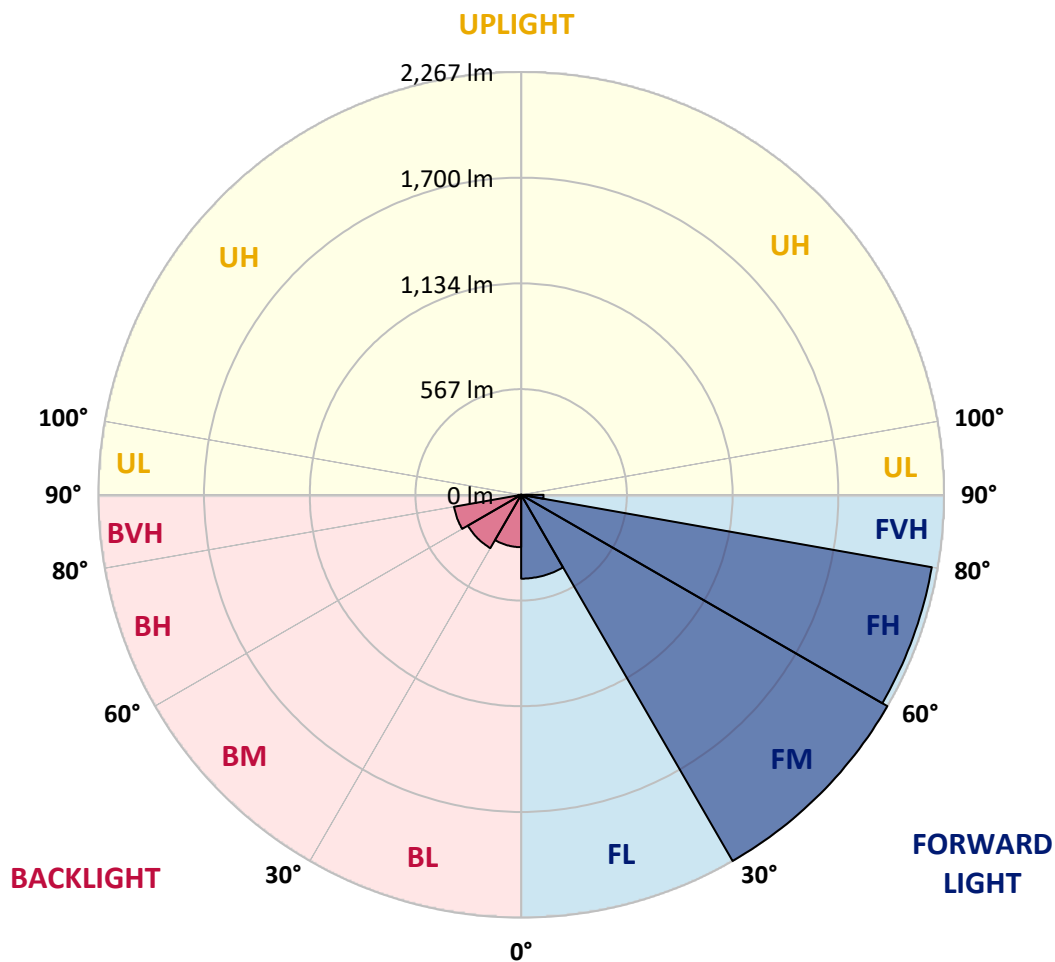
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.5	7.4			
FM	(30°-60°)	2267.2	37.4			
FH	(60°-80°)	2235.9	36.9			G2/5000
FVH	(80°-90°)	120.2	2.0			G2/225
BL	(0°-30°)	280.5	4.6	B1/500		
BM	(30°-60°)	330.0	5.4	B1/1000		
BH	(60°-80°)	365.4	6.0	B1/500		G1/500
BVH	(80°-90°)	16.3	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°	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7
2.5°	1284.4	1294.7	1294.7	1302.3	1309.0	1314.6	1319.3	1319.3	1319.3	1316.1	1313.4
5°	1149.4	1163.2	1165.2	1184.2	1209.1	1239.7	1273.8	1303.9	1309.8	1320.9	1325.2
7.5°	1055.5	1059.8	1067.3	1080.4	1105.8	1143.4	1196.9	1264.3	1280.5	1315.3	1333.6
10°	988.9	992.5	998.8	1011.9	1034.8	1068.9	1121.6	1209.1	1236.1	1297.9	1333.9
12.5°	940.2	943.0	948.9	960.8	984.2	1014.7	1068.5	1159.6	1193.0	1280.5	1339.6
15°	902.1	906.8	911.7	923.1	946.8	976.2	1030.9	1123.6	1159.6	1266.6	1349.8
17.5°	887.1	889.5	890.3	896.2	917.6	947.3	1002.0	1098.2	1135.5	1255.6	1357.8
20°	896.6	896.9	889.0	885.1	897.3	924.7	977.8	1079.2	1117.3	1245.6	1360.9
22.5°	938.1	938.1	917.6	900.1	891.8	908.9	961.6	1066.1	1107.3	1238.1	1360.9
25°	1017.4	1013.8	981.7	947.3	910.4	903.3	951.2	1057.8	1099.8	1234.1	1355.7
27.5°	1121.6	1118.4	1077.7	1026.5	959.9	915.2	947.7	1051.1	1092.3	1228.2	1344.7
30°	1248.4	1245.6	1199.3	1132.3	1034.1	952.9	956.0	1046.4	1086.4	1218.2	1326.1
32.5°	1374.7	1373.2	1336.4	1267.8	1136.3	1016.6	977.8	1045.6	1083.2	1206.4	1303.4
35°	1502.0	1502.0	1479.4	1421.5	1273.8	1112.5	1023.4	1060.2	1089.1	1200.0	1284.0
37.5°	1689.7	1682.2	1640.2	1580.4	1446.9	1237.0	1097.0	1091.1	1112.2	1210.8	1277.7
40°	1980.5	1958.7	1853.8	1753.1	1635.9	1396.1	1204.8	1150.9	1163.6	1247.2	1292.8
42.5°	2284.9	2250.4	2111.3	1950.5	1831.2	1592.6	1346.2	1248.0	1247.6	1317.8	1340.7
45°	2545.9	2528.1	2377.5	2173.5	2054.3	1813.8	1524.9	1392.2	1377.9	1427.1	1433.1
47.5°	2697.6	2685.8	2595.0	2409.7	2318.9	2074.9	1751.6	1592.3	1565.3	1594.7	1585.6
50°	2655.7	2667.1	2641.0	2546.3	2603.4	2441.7	2040.4	1866.5	1815.3	1844.7	1822.5
52.5°	2434.6	2465.5	2488.8	2507.0	2767.0	2932.6	2403.3	2208.8	2166.4	2161.2	2139.8
55°	2036.4	2085.5	2159.2	2293.1	2723.0	3326.8	3037.1	2622.7	2561.0	2528.5	2536.8
57.5°	1385.9	1460.4	1619.2	1873.9	2494.4	3494.8	3974.6	3157.6	3053.0	2937.3	2964.3
60°	763.4	825.6	1014.7	1271.3	1972.7	3469.8	4805.4	4026.8	3697.7	3391.0	3446.4
62.5°	494.1	507.5	648.1	868.5	1210.8	3063.3	5267.0	5479.7	4782.0	3989.2	4067.3
65°	397.0	406.5	475.5	700.4	843.5	1970.6	5287.5	6986.8	6526.8	4802.2	4804.6
67.5°	387.9	392.2	432.2	589.1	791.2	1072.9	4570.4	7581.1	7687.7	5761.8	5297.9
68°	393.4	398.5	438.9	570.9	790.8	988.9	4224.2	7572.0	7754.6	5922.3	5297.9
70°	347.1	353.4	447.6	590.8	757.1	850.2	2892.6	7169.9	7463.9	6291.0	5026.9
72.5°	181.5	176.3	221.5	466.4	852.2	885.9	1528.1	5990.0	6333.1	5826.3	4343.0
75°	141.5	128.8	124.0	184.2	749.6	918.7	887.5	4257.4	4516.5	4200.0	2902.8
77.5°	133.1	117.6	108.5	108.9	330.0	956.0	717.9	2505.5	2505.5	2003.6	926.3
80°	107.0	92.7	86.7	99.0	159.3	881.2	749.2	1141.8	973.8	517.8	255.1
82.5°	70.5	63.0	63.4	80.4	120.8	588.3	867.7	563.7	423.5	229.3	150.2
85°	44.8	38.5	42.8	56.3	90.3	262.3	859.0	391.8	280.5	128.8	74.9
87.5°	22.6	17.4	21.4	29.4	55.0	75.3	707.2	349.8	208.0	53.5	40.8
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°	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7
2.5°	1313.4	1304.7	1300.3	1293.1	1284.4	1275.7	1269.8	1267.0	1265.4	1266.2	1265.8
5°	1322.9	1311.4	1292.8	1266.2	1238.9	1209.9	1187.7	1170.8	1160.0	1156.9	1156.0
7.5°	1330.0	1313.4	1278.5	1230.2	1183.5	1132.7	1089.5	1055.1	1031.6	1021.0	1020.6
10°	1328.8	1307.4	1252.4	1181.0	1112.5	1038.0	970.3	912.5	870.4	850.2	849.5
12.5°	1330.0	1300.7	1220.3	1123.6	1025.3	918.7	818.2	728.2	665.6	635.9	634.7
15°	1334.7	1293.5	1187.3	1059.4	923.5	772.9	629.1	516.3	459.2	439.8	439.8
17.5°	1334.3	1281.7	1149.4	984.9	802.7	601.0	429.4	359.8	354.1	372.0	374.8
20°	1326.5	1262.6	1100.2	896.6	660.8	416.0	291.2	281.3	325.7	374.8	380.3
22.5°	1314.2	1238.1	1043.5	793.9	495.6	271.0	224.6	239.7	299.9	360.9	369.7
25°	1297.1	1208.4	978.6	674.7	329.6	195.0	187.4	206.0	248.4	289.2	295.5
27.5°	1272.1	1170.8	907.7	545.5	210.4	160.5	163.3	176.3	194.6	212.0	215.5
30°	1240.8	1126.8	830.4	402.5	159.7	143.4	148.2	156.1	164.0	175.1	177.5
32.5°	1209.1	1082.0	750.0	276.5	139.4	134.3	139.0	143.4	150.2	157.6	159.3
35°	1180.7	1040.4	667.2	192.9	130.7	128.4	130.7	133.5	140.2	147.8	148.5
37.5°	1160.0	1006.3	580.8	152.5	125.6	123.3	124.4	125.6	133.5	144.6	145.8
40°	1157.3	983.8	493.3	137.1	121.6	118.5	117.6	118.5	128.8	141.5	142.6
42.5°	1184.2	984.9	407.6	130.7	118.5	114.9	111.7	113.3	122.4	132.4	133.1
45°	1248.0	1012.6	333.6	128.0	115.7	112.9	108.1	108.9	113.3	118.5	119.3
47.5°	1360.5	1073.3	276.9	126.3	113.3	110.9	105.0	102.6	103.0	105.8	105.8
50°	1540.4	1174.7	242.4	124.8	111.3	107.0	100.2	95.4	94.3	95.9	96.3
52.5°	1808.6	1348.7	225.9	121.6	107.7	101.8	94.3	89.5	87.6	89.1	89.1
55°	2171.1	1626.4	217.9	117.2	103.4	95.4	88.8	84.8	83.2	84.4	84.4
57.5°	2584.4	1987.3	231.4	111.3	97.9	88.8	84.0	81.2	80.0	81.2	81.6
60°	3075.2	2459.6	324.1	103.8	92.0	82.8	80.0	78.5	77.6	78.9	78.9
62.5°	3727.7	3087.9	501.6	97.9	85.6	77.2	76.4	75.7	74.9	76.1	76.1
65°	4432.1	3659.6	516.3	94.3	80.0	72.5	72.9	72.9	72.1	73.3	73.3
67.5°	4656.4	3610.1	288.5	89.9	73.3	67.7	69.4	69.4	68.9	70.2	69.8
68°	4608.9	3531.6	251.1	88.8	72.1	66.6	68.1	68.5	68.1	69.4	68.9
70°	4254.7	3100.6	165.2	82.0	67.0	62.6	65.0	65.4	65.0	66.6	66.2
72.5°	3512.2	2325.7	122.0	71.7	60.7	57.5	59.8	60.3	60.7	62.2	61.8
75°	2230.5	1284.4	96.3	61.0	54.3	51.5	53.9	55.0	55.9	58.2	57.1
77.5°	610.9	389.8	78.1	51.9	46.7	45.5	47.2	48.7	49.5	52.3	50.3
80°	213.9	172.4	65.0	44.0	38.9	38.5	40.0	41.6	42.4	44.8	42.4
82.5°	129.9	112.5	51.9	34.5	30.5	30.1	32.1	33.7	34.5	34.5	32.8
85°	67.7	59.4	38.1	24.1	21.0	19.8	23.4	25.4	25.8	25.4	24.1
87.5°	38.1	33.7	20.3	11.5	9.5	9.9	12.3	15.0	16.3	15.9	15.0
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)