

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: P198696

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5536.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

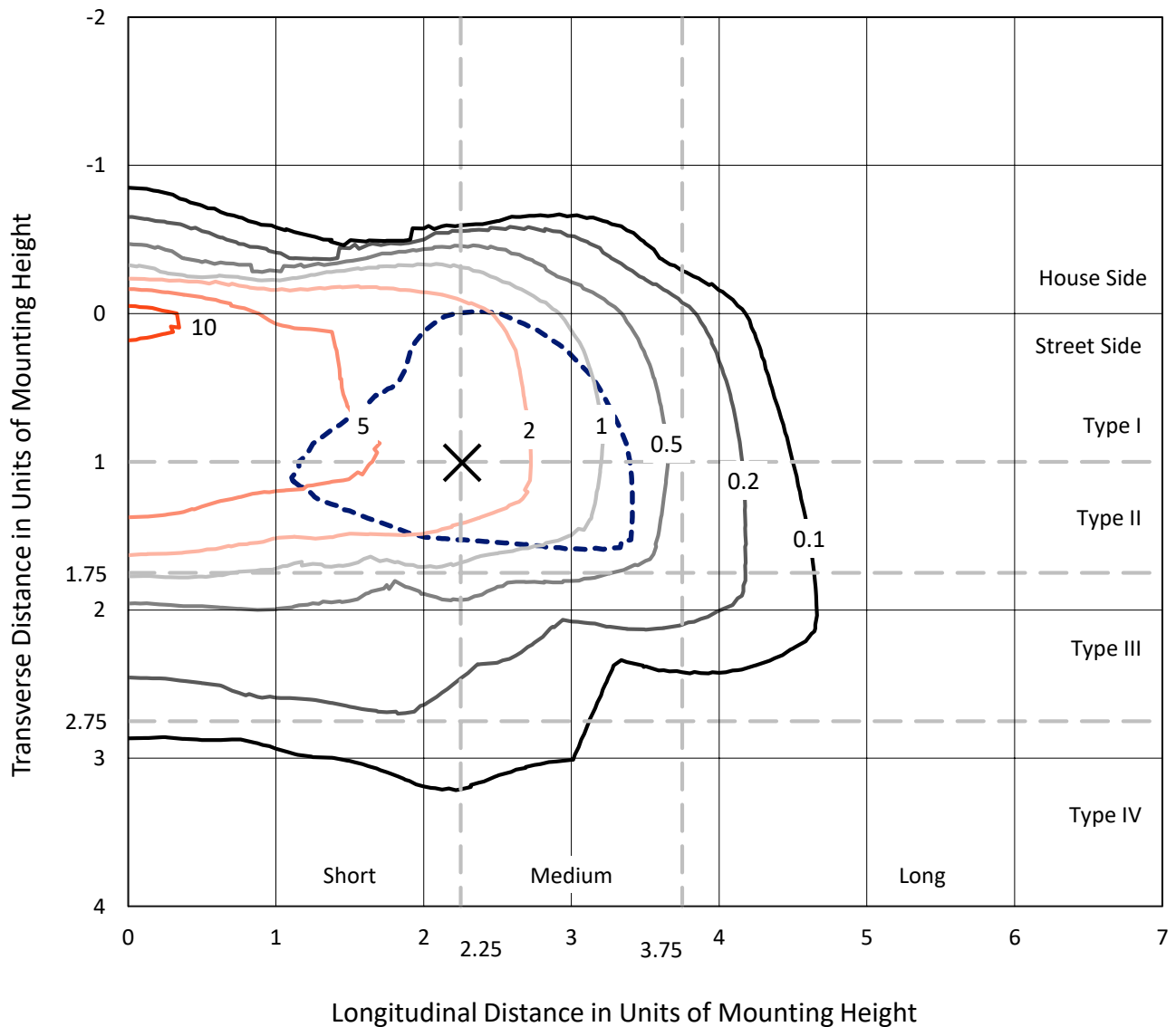
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

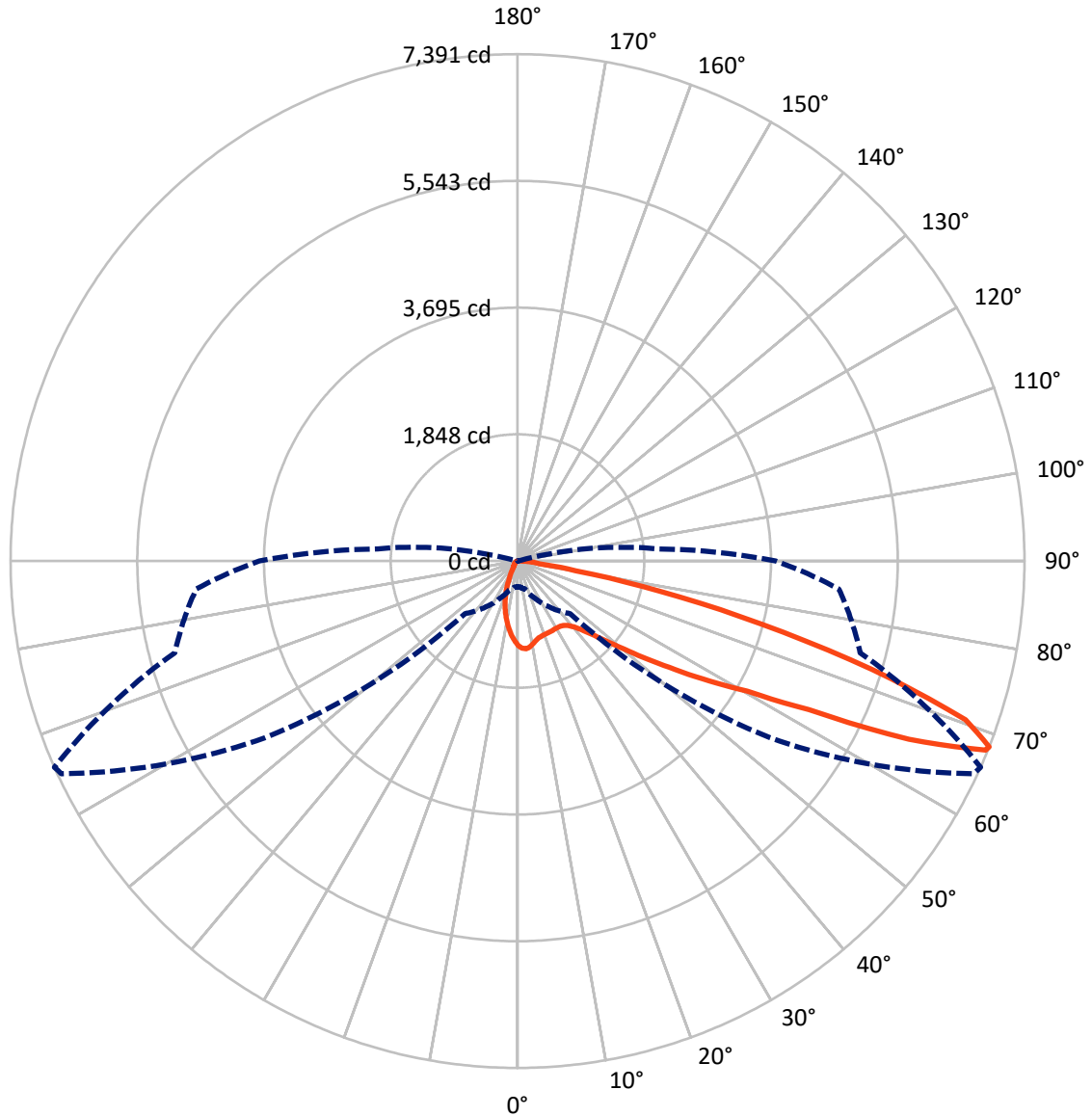
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.7	0.0	560.7
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4975.4	0.0	4975.4
	% Fixture	89.9	0.0	89.9
Total	Lumens	5536.2	0.0	5536.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.8
10°-20°	217.6	3.9
20°-30°	315.3	5.7
30°-40°	482.6	8.7
40°-50°	825.5	14.9
50°-60°	1291.3	23.3
60°-70°	1486.8	26.9
70°-80°	744.0	13.4
80°-90°	72.1	1.3
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°	5536.2	100.0
0°-180°	5536.2	100.0

Coefficient of Utilization



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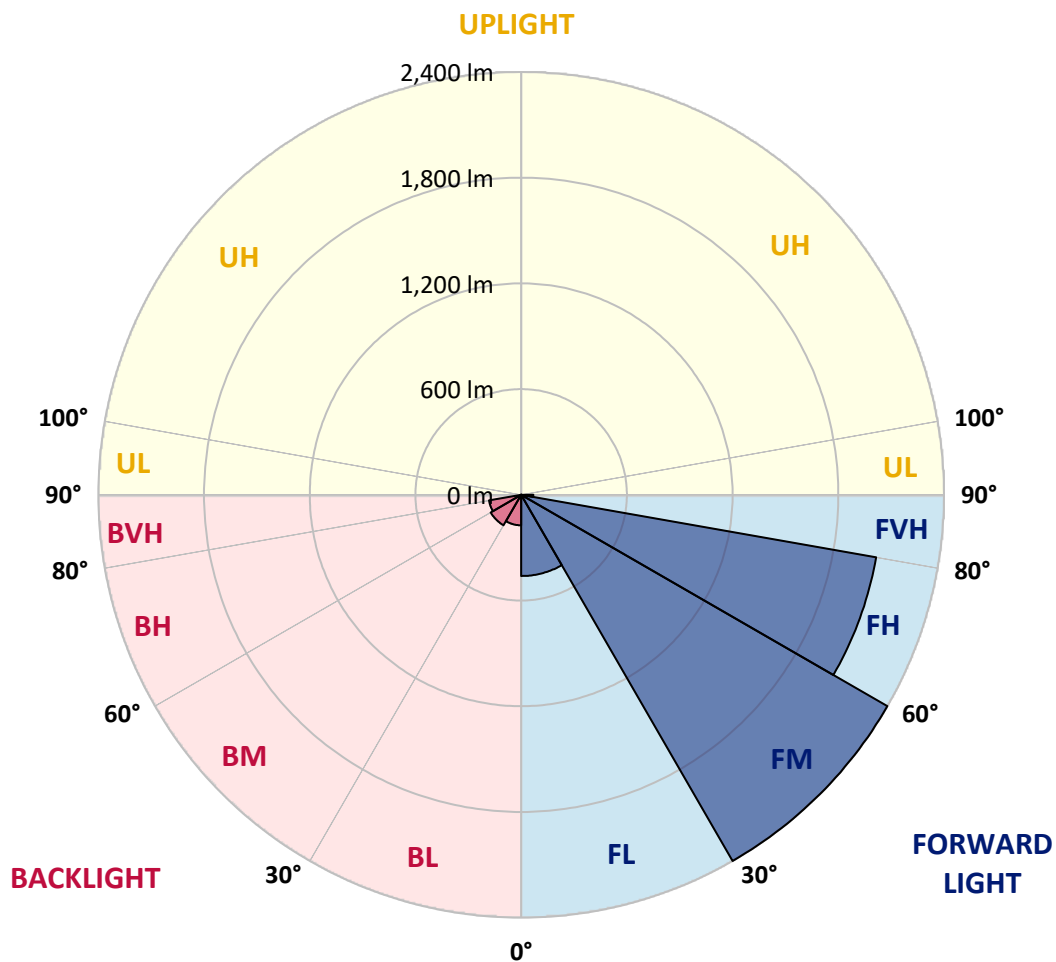
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.9	8.3			
FM	(30°-60°)	2399.7	43.3			
FH	(60°-80°)	2045.6	36.9			G2/5000
FVH	(80°-90°)	69.3	1.3			G1/100
BL	(0°-30°)	173.1	3.1	B1/500		
BM	(30°-60°)	199.7	3.6	B0/220		
BH	(60°-80°)	185.3	3.3	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
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°	66°	75°	85°
0°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1297.3	1298.1	1297.7	1299.0	1298.1	1291.7	1284.7	1269.9	1271.2	1252.1	1230.8
5°	1206.1	1213.4	1220.8	1228.2	1246.1	1261.7	1280.3	1284.7	1284.7	1268.2	1236.8
7.5°	1113.1	1113.5	1121.8	1131.7	1155.6	1184.3	1227.7	1266.9	1267.7	1272.1	1237.8
10°	1043.1	1045.3	1050.9	1061.7	1085.7	1113.9	1162.6	1223.9	1228.7	1260.8	1229.1
12.5°	988.7	991.3	997.4	1010.1	1031.7	1060.9	1112.2	1182.1	1188.7	1249.9	1226.4
15°	947.0	950.5	955.2	967.9	991.3	1022.2	1078.3	1154.3	1162.2	1245.5	1234.7
17.5°	929.7	929.7	929.1	937.8	961.4	992.7	1051.3	1139.6	1149.5	1249.0	1248.6
20°	937.0	935.7	926.6	924.4	938.8	970.1	1030.0	1130.0	1141.3	1255.6	1265.6
22.5°	976.1	973.5	953.1	936.1	931.8	952.7	1015.7	1123.5	1136.9	1269.1	1288.2
25°	1059.2	1051.3	1023.1	984.8	950.5	948.3	1005.7	1120.0	1134.4	1284.7	1313.0
27.5°	1166.9	1164.7	1119.5	1068.3	1002.2	962.7	1002.6	1117.4	1131.7	1296.0	1332.9
30°	1300.8	1301.6	1249.5	1182.5	1082.6	1003.1	1012.2	1116.0	1130.9	1296.9	1341.6
32.5°	1439.0	1439.8	1396.4	1324.7	1192.6	1072.6	1039.1	1122.2	1135.6	1293.4	1341.2
35°	1572.0	1573.3	1547.2	1489.4	1339.5	1169.1	1090.0	1143.0	1152.6	1295.6	1340.4
37.5°	1740.1	1745.4	1713.2	1659.3	1523.7	1310.8	1173.0	1185.2	1193.0	1313.4	1346.8
40°	2027.0	2020.0	1928.0	1836.6	1723.7	1483.3	1292.9	1257.7	1260.4	1359.5	1371.6
42.5°	2361.2	2352.5	2194.7	2037.4	1929.2	1691.4	1446.4	1369.0	1368.6	1436.8	1425.5
45°	2648.9	2643.7	2477.7	2267.8	2157.0	1921.4	1635.4	1529.4	1524.2	1570.6	1523.7
47.5°	2853.2	2848.8	2723.3	2512.9	2420.3	2174.4	1871.4	1748.0	1737.2	1745.8	1683.3
50°	2873.2	2868.5	2824.5	2689.3	2728.0	2545.5	2163.0	2034.4	2020.5	2007.0	1924.5
52.5°	2686.3	2685.9	2708.9	2700.2	2943.6	3023.1	2520.8	2388.6	2372.1	2337.7	2255.6
55°	2304.3	2302.2	2389.5	2516.4	2938.8	3516.0	3066.2	2810.1	2788.5	2719.8	2612.0
57.5°	1683.7	1672.3	1854.9	2124.0	2732.4	3731.5	3932.3	3333.9	3297.8	3080.1	2914.1
60°	929.7	934.0	1168.6	1487.3	2243.4	3689.0	4729.4	3944.5	3849.8	3390.8	3223.5
62.5°	521.1	531.9	706.7	966.6	1430.3	3343.4	5157.0	4995.4	4767.2	3753.3	3614.6
65°	394.1	400.7	488.5	745.8	901.8	2336.4	5225.2	6464.7	6267.9	4302.6	4237.4
67.5°	371.1	376.3	419.4	618.5	821.4	1211.7	4711.6	7334.0	7358.8	5051.8	4719.8
68°	373.8	380.2	423.3	594.9	820.1	1083.9	4492.5	7338.3	7390.9	5172.7	4703.3
70°	343.3	345.0	447.6	583.7	794.9	854.0	3250.0	6835.5	6929.8	5316.6	4269.6
72.5°	131.2	131.7	200.8	505.4	832.7	858.8	1637.1	5402.6	5407.4	4626.8	3328.7
75°	68.2	57.4	63.0	158.1	795.3	837.1	821.4	3689.0	3665.9	3129.2	2039.7
77.5°	47.0	40.0	42.1	54.7	330.7	836.6	593.2	2121.3	2116.6	1331.2	582.0
80°	26.5	23.0	25.2	46.0	116.0	785.3	552.8	911.8	859.2	233.8	94.3
82.5°	13.5	11.3	13.5	38.7	72.1	494.2	537.6	357.7	318.5	55.6	61.3
85°	3.5	3.5	6.5	26.9	44.8	162.1	482.0	258.2	232.1	24.3	43.5
87.5°	0.8	0.4	2.6	10.0	16.1	35.2	267.3	143.8	123.9	12.6	25.2
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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1222.1	1209.9	1186.0	1159.1	1140.0	1119.1	1106.9	1092.2	1080.8	1070.8	1078.3
5°	1217.7	1194.3	1141.3	1081.8	1031.7	984.0	948.3	914.4	888.7	872.7	879.2
7.5°	1206.5	1171.7	1085.7	992.7	910.9	834.0	771.4	715.3	671.9	648.4	655.8
10°	1187.3	1138.2	1022.6	893.5	779.3	670.6	577.6	494.2	431.2	401.6	408.6
12.5°	1173.4	1108.7	957.5	797.9	647.5	493.3	369.9	274.3	225.2	195.6	198.1
15°	1167.4	1085.7	896.6	697.1	503.7	316.8	199.9	144.7	127.8	121.7	122.1
17.5°	1168.2	1067.3	838.8	592.4	358.5	182.1	122.5	110.4	107.8	106.5	106.5
20°	1170.4	1049.1	778.8	483.2	229.4	117.3	102.1	98.2	96.9	95.1	95.6
22.5°	1176.9	1035.2	718.4	373.8	141.3	95.6	90.4	87.0	84.7	82.1	82.6
25°	1186.9	1024.8	658.9	269.0	99.5	83.5	78.7	73.9	70.0	66.9	67.4
27.5°	1193.0	1010.1	595.5	183.4	82.6	73.0	66.5	59.9	55.6	53.0	52.6
30°	1188.7	986.1	523.2	120.4	73.0	63.0	55.2	47.8	43.5	41.3	41.3
32.5°	1176.9	955.2	443.8	87.8	64.8	54.3	44.8	38.3	35.2	33.9	34.4
35°	1163.4	923.1	359.0	74.4	58.2	46.0	36.5	31.3	30.0	29.6	29.6
37.5°	1156.0	895.3	277.7	67.4	52.2	38.3	30.0	26.9	25.7	25.7	25.7
40°	1164.3	874.0	205.6	62.2	46.0	31.7	25.2	23.0	22.6	22.6	22.6
42.5°	1199.5	866.6	150.4	57.8	40.0	26.5	21.7	19.9	19.5	19.9	19.9
45°	1268.2	882.7	113.9	53.5	34.4	21.7	18.7	17.4	17.4	17.8	17.8
47.5°	1384.7	923.9	93.4	49.1	28.6	18.2	16.1	15.2	15.2	15.7	15.7
50°	1565.4	1000.4	83.9	44.3	23.9	15.7	13.5	13.0	13.0	13.5	13.9
52.5°	1840.1	1146.0	79.1	39.6	19.5	13.0	11.3	10.8	11.3	11.8	11.8
55°	2145.6	1332.5	73.4	34.8	16.5	10.8	9.1	9.1	9.5	10.4	10.4
57.5°	2430.3	1512.4	68.2	28.6	14.3	8.7	7.4	7.4	8.3	9.1	9.1
60°	2731.1	1688.9	61.3	23.0	12.2	7.0	6.0	6.0	7.4	8.3	8.7
62.5°	3102.6	1894.0	52.2	18.2	9.5	5.2	4.3	5.6	7.0	8.3	8.3
65°	3639.9	2149.1	40.8	14.3	7.4	3.9	3.5	5.2	6.5	7.8	8.3
67.5°	3834.9	2116.6	30.9	11.8	5.6	3.1	3.1	4.8	6.5	7.8	7.8
68°	3763.7	2045.3	29.6	11.3	5.2	3.1	3.1	4.8	6.5	7.8	7.8
70°	3279.6	1671.9	24.3	8.7	4.3	2.6	2.6	4.3	6.5	7.4	7.8
72.5°	2455.5	1110.8	20.9	5.6	3.9	2.6	2.1	4.3	6.0	7.4	7.4
75°	1408.6	461.1	17.8	4.3	3.5	2.1	2.1	3.9	6.0	7.4	7.4
77.5°	398.1	107.8	14.3	3.5	3.1	2.1	1.7	3.9	5.6	7.0	7.0
80°	73.0	32.1	11.3	3.1	2.6	2.1	1.7	3.9	5.6	7.0	7.0
82.5°	48.3	15.2	8.3	3.1	2.6	2.1	1.7	3.5	5.2	6.5	6.5
85°	36.1	10.8	5.2	3.1	2.6	2.1	1.7	3.5	5.2	6.5	6.5
87.5°	19.9	4.8	3.9	3.5	3.1	2.1	1.7	3.1	4.8	6.0	6.0
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)