

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: McGRAW-EDISON

Report Number: P451269

Luminaire Tested: **GALN-SA2A-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES 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: 5533 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

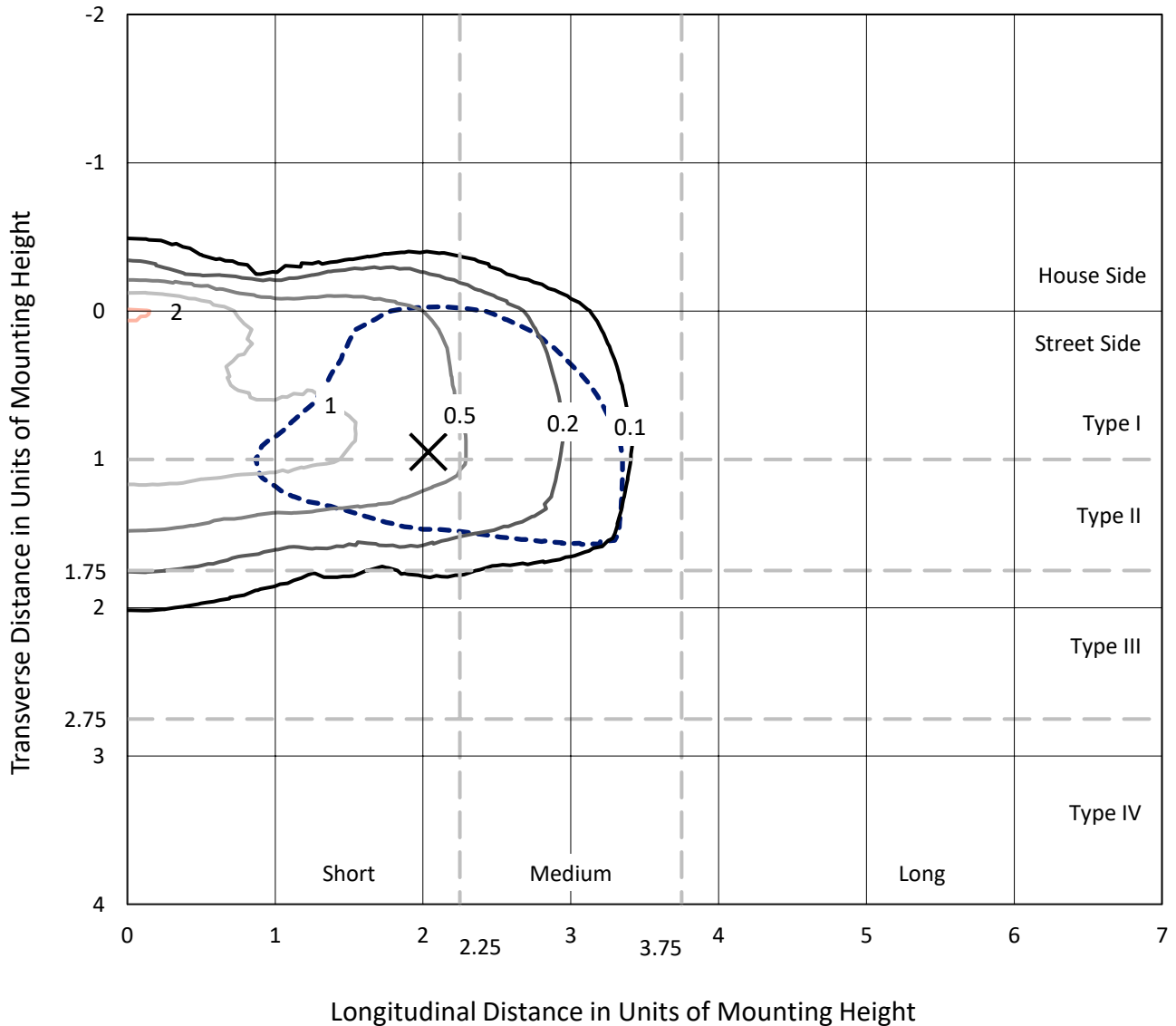
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

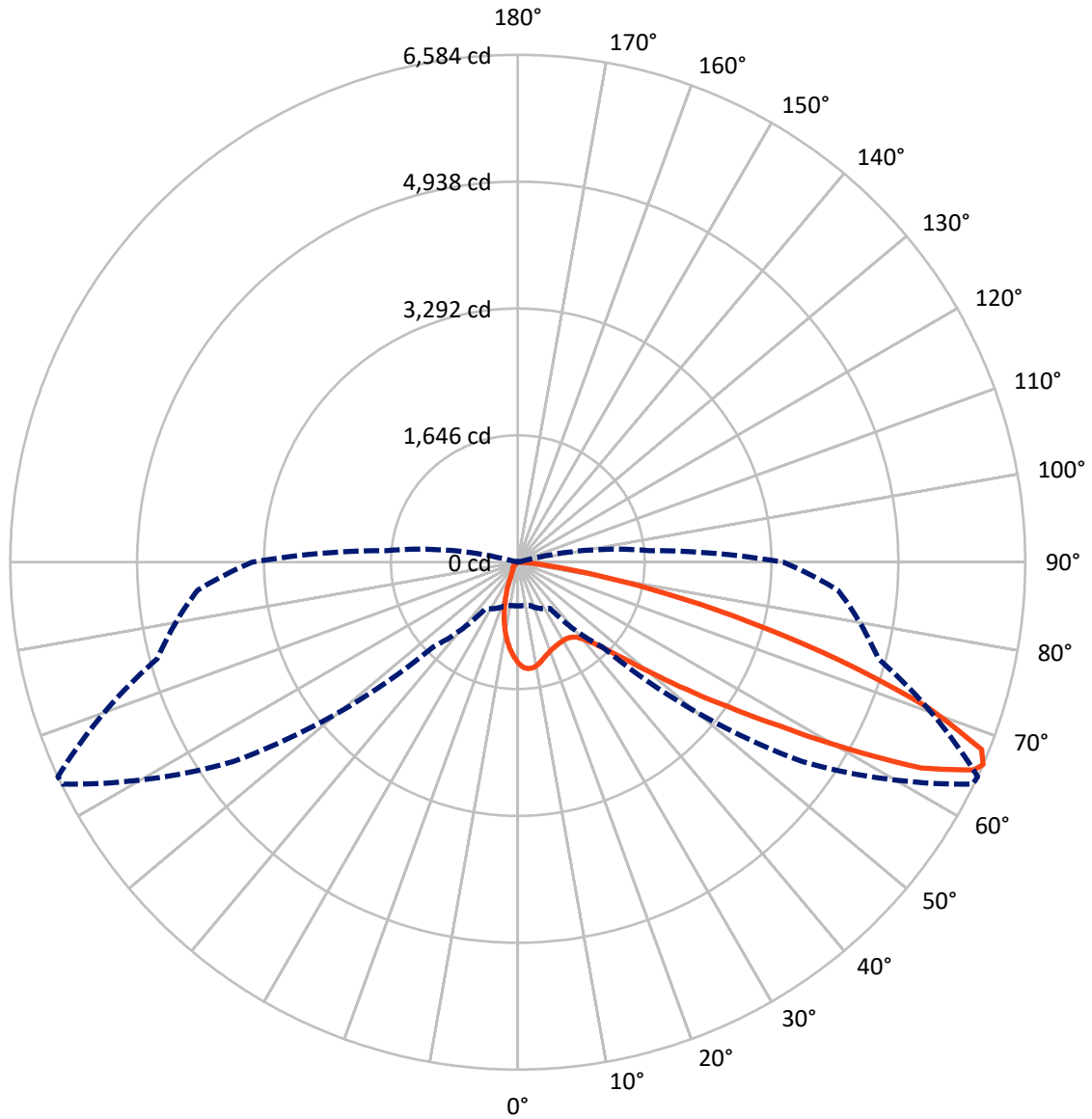
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	572.2	0.0	572.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4960.8	0.0	4960.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	5533.0	0.0	5533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.9
10°-20°	233.8	4.2
20°-30°	334.9	6.1
30°-40°	489.2	8.8
40°-50°	820.3	14.8
50°-60°	1368.9	24.7
60°-70°	1453.1	26.3
70°-80°	658.1	11.9
80°-90°	67.3	1.2
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°	5533.0	100.0
0°-180°	5533.0	100.0

Coefficient of Utilization



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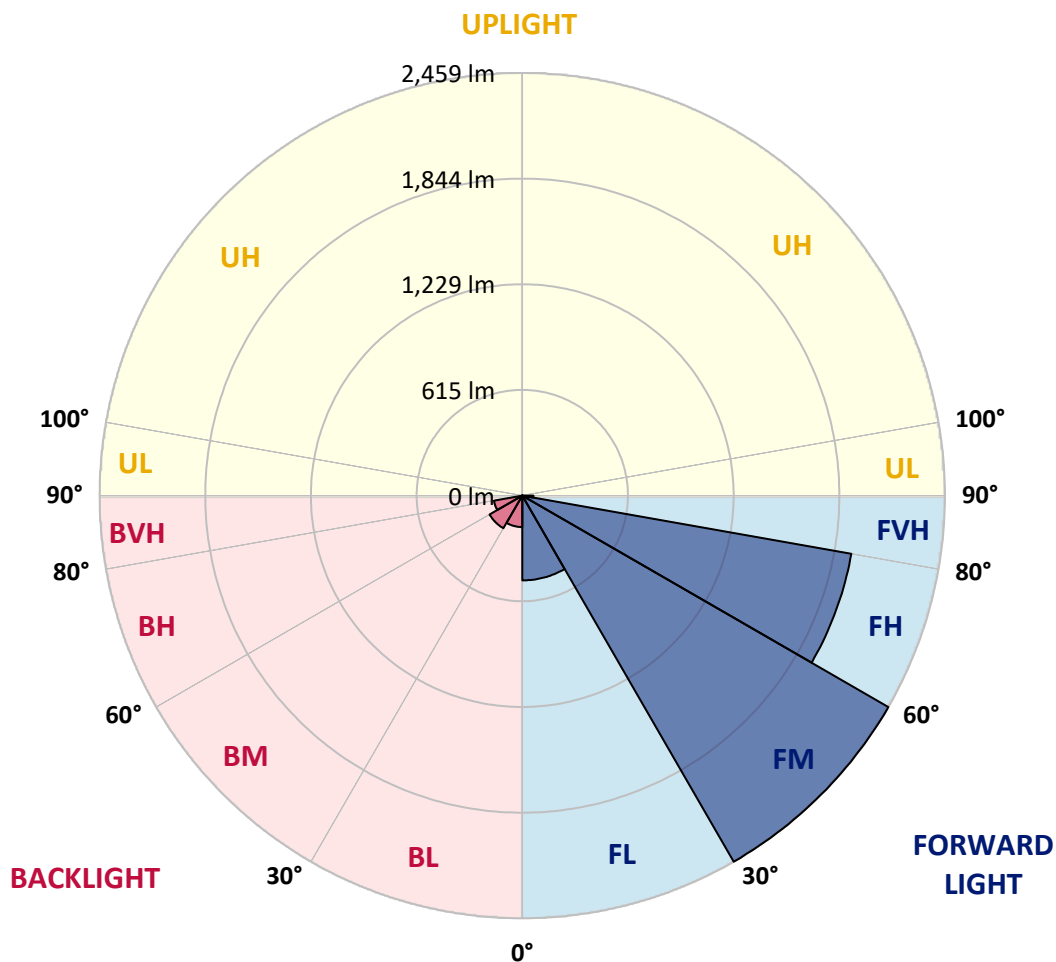
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.0	8.9			
FM	(30°-60°)	2459.0	44.4			
FH	(60°-80°)	1943.6	35.1			G2/5000
FVH	(80°-90°)	65.2	1.2			G1/100
BL	(0°-30°)	183.0	3.3	B1/500		
BM	(30°-60°)	219.4	4.0	B0/220		
BH	(60°-80°)	167.6	3.0	B1/500		G1/500
BVH	(80°-90°)	2.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1382.7	1384.2	1386.1	1388.7	1390.6	1385.0	1377.1	1368.1	1366.3	1347.2	1324.0
5°	1308.7	1311.0	1327.4	1336.4	1356.5	1374.9	1386.4	1387.9	1387.2	1369.3	1332.3
7.5°	1203.3	1209.7	1225.8	1241.4	1279.2	1313.9	1355.1	1383.8	1385.7	1380.8	1334.9
10°	1117.8	1121.9	1130.1	1161.1	1192.5	1245.6	1303.1	1357.3	1361.8	1381.2	1332.6
12.5°	1050.9	1056.8	1066.9	1090.8	1128.6	1178.7	1244.1	1316.9	1326.3	1374.1	1326.3
15°	1004.1	1007.1	1017.2	1040.8	1077.4	1123.7	1189.9	1274.7	1282.9	1364.8	1325.2
17.5°	982.1	985.5	992.6	1011.2	1041.5	1084.5	1149.1	1240.7	1251.2	1358.8	1329.3
20°	988.1	991.1	991.4	1001.2	1021.7	1058.0	1119.2	1208.9	1222.4	1355.1	1336.0
22.5°	1022.1	1022.5	1018.0	1013.5	1020.6	1046.7	1100.9	1188.8	1202.6	1354.3	1343.8
25°	1072.9	1074.0	1066.6	1050.9	1036.7	1050.1	1096.8	1175.7	1188.0	1352.4	1348.7
27.5°	1143.2	1142.8	1140.5	1114.4	1074.0	1065.1	1100.2	1168.6	1179.0	1347.2	1350.6
30°	1241.4	1238.5	1233.6	1204.1	1142.4	1101.3	1114.4	1164.1	1173.8	1339.7	1345.7
32.5°	1338.2	1349.4	1348.7	1320.7	1243.7	1166.0	1143.9	1170.1	1177.2	1334.9	1338.6
35°	1451.1	1450.7	1479.5	1469.0	1379.0	1248.5	1194.4	1189.9	1195.5	1338.2	1335.2
37.5°	1555.7	1565.5	1610.3	1621.1	1538.9	1365.1	1265.7	1232.5	1234.3	1361.0	1343.5
40°	1686.2	1704.8	1771.7	1808.0	1735.5	1538.2	1371.1	1310.6	1311.0	1417.1	1374.5
42.5°	1854.3	1883.8	1946.3	2006.8	1967.9	1743.0	1529.2	1434.3	1433.5	1515.7	1445.5
45°	2058.7	2079.3	2150.3	2246.3	2221.7	2028.8	1759.4	1626.0	1616.3	1677.6	1571.4
47.5°	2235.1	2263.2	2335.3	2444.8	2556.9	2377.9	2034.5	1889.5	1883.1	1935.0	1787.4
50°	2312.1	2336.8	2412.6	2566.2	2837.9	2836.0	2444.0	2274.0	2263.2	2291.2	2121.5
52.5°	2227.7	2250.8	2327.4	2518.8	2970.2	3394.4	3037.5	2756.4	2743.4	2707.5	2520.6
55°	1938.4	1957.5	2070.7	2290.4	2919.4	3766.6	3855.1	3352.5	3301.7	3162.3	2972.4
57.5°	1543.4	1533.7	1603.9	1859.2	2621.2	3891.4	4694.5	4095.1	4004.2	3555.4	3354.8
60°	1069.5	1099.4	1127.8	1296.0	1970.9	3675.0	5216.5	5028.6	4909.0	3942.2	3721.0
62.5°	786.3	806.1	824.8	902.5	1239.2	2934.3	5308.9	5987.5	5881.4	4352.9	4070.4
65°	621.8	623.3	630.8	707.4	816.5	1908.1	4865.3	6528.3	6501.0	4748.3	4212.0
66°	566.5	566.9	578.5	660.7	732.8	1553.9	4509.9	6569.4	6584.3	4843.2	4170.5
67.5°	495.2	493.7	510.5	593.8	667.4	1120.4	3873.8	6402.7	6491.3	4916.1	4021.4
70°	383.8	381.9	402.5	498.1	614.7	747.4	2574.8	5497.6	5640.3	4767.0	3558.0
72.5°	255.6	257.1	292.2	393.1	586.7	658.1	1549.0	4182.1	4383.9	3936.6	2799.1
75°	149.1	151.7	191.7	292.2	509.4	627.5	876.7	2982.2	3111.1	2718.3	1743.7
77.5°	78.1	79.2	107.3	192.8	390.5	582.6	584.1	1905.1	1965.7	1321.0	690.2
80°	41.5	40.4	57.6	116.2	268.7	511.6	473.9	1008.6	1048.6	392.4	174.5
82.5°	15.7	17.2	30.6	76.2	158.8	367.4	408.1	445.8	432.0	86.3	73.2
85°	3.0	3.7	13.1	45.2	80.0	153.6	300.8	218.6	202.5	32.5	42.2
87.5°	0.4	0.7	3.7	10.8	11.6	51.9	88.9	60.5	52.3	12.0	17.6
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°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1312.8	1302.7	1269.1	1235.8	1201.8	1171.2	1150.3	1116.3	1107.7	1095.3	1088.2
5°	1310.2	1286.7	1222.0	1151.4	1085.6	1014.6	960.4	908.1	880.1	865.9	860.6
7.5°	1302.7	1265.4	1164.5	1053.8	948.5	842.3	750.0	679.8	634.6	603.5	582.6
10°	1287.8	1236.2	1097.6	945.5	786.3	646.1	529.2	440.2	371.5	349.8	350.5
12.5°	1272.5	1203.7	1022.8	825.1	627.8	451.1	327.0	256.7	223.8	213.0	210.8
15°	1258.3	1172.7	949.6	708.5	467.5	292.2	210.8	186.1	177.1	175.3	174.9
17.5°	1250.8	1143.9	871.5	575.1	326.2	198.4	168.9	162.2	159.6	157.7	157.0
20°	1244.4	1118.9	796.7	450.3	223.1	162.6	151.4	145.0	140.5	138.6	137.5
22.5°	1240.0	1093.1	719.4	348.7	170.8	144.3	134.2	125.9	119.6	117.3	115.8
25°	1233.2	1064.7	641.3	254.9	143.9	128.2	116.6	106.9	98.7	94.5	93.8
27.5°	1223.5	1032.5	555.7	188.7	128.6	114.0	99.8	87.8	79.6	75.1	75.5
30°	1207.8	998.9	470.1	149.9	116.2	99.4	84.1	72.5	64.7	61.3	60.9
32.5°	1189.1	958.2	391.6	128.6	105.0	86.3	70.3	60.2	54.2	51.6	51.2
35°	1171.6	917.1	311.7	115.5	93.4	74.4	59.0	50.5	46.0	43.7	44.1
37.5°	1161.8	880.4	242.9	105.0	84.1	63.9	50.8	43.3	39.2	37.4	37.0
40°	1168.2	850.6	193.2	95.7	73.6	54.9	43.7	37.4	33.3	30.6	30.6
42.5°	1198.1	837.5	155.8	86.7	63.9	47.5	38.1	32.1	27.7	25.0	25.4
45°	1289.3	851.3	130.4	78.5	54.9	41.1	32.9	26.5	22.4	20.6	20.2
47.5°	1440.6	903.2	112.9	69.9	47.1	35.1	27.7	22.0	17.9	16.4	16.1
50°	1705.2	1010.5	99.8	61.3	40.0	29.9	22.8	17.6	14.2	12.7	12.7
52.5°	2069.2	1244.4	90.4	51.6	33.6	25.4	18.7	14.2	11.2	10.1	9.7
55°	2449.6	1491.1	85.6	43.3	28.0	20.9	14.9	11.2	8.6	7.5	7.1
57.5°	2815.5	1684.7	80.0	35.1	22.4	16.1	11.6	8.6	6.0	5.2	4.9
60°	3166.4	1841.2	68.0	28.0	17.6	11.6	8.6	6.0	4.1	3.4	3.4
62.5°	3480.3	1932.4	53.4	22.4	13.5	8.2	5.6	4.5	3.0	2.2	2.2
65°	3516.9	1814.0	40.4	17.2	9.7	5.2	3.4	3.4	2.2	1.5	1.5
66°	3443.3	1713.4	35.5	15.7	8.6	4.5	3.0	2.6	1.9	1.1	1.1
67.5°	3278.9	1541.9	30.6	13.5	7.1	3.4	2.2	2.2	1.5	0.7	0.7
70°	2833.1	1259.4	24.3	10.1	5.2	2.6	1.5	1.5	1.1	0.7	0.7
72.5°	2159.3	940.2	19.8	7.5	3.7	1.9	1.1	1.1	1.1	0.7	0.7
75°	1302.4	506.4	15.3	5.6	3.4	1.5	0.7	1.1	1.5	1.1	0.7
77.5°	479.8	172.3	12.0	4.5	2.6	1.5	0.7	0.7	1.5	1.1	1.1
80°	117.7	44.8	8.6	3.7	2.6	1.5	0.7	0.7	1.5	1.5	1.5
82.5°	54.6	19.1	6.0	3.4	2.6	1.5	0.7	0.7	1.1	1.5	1.5
85°	31.4	9.0	4.9	3.7	2.6	1.5	0.7	0.7	1.1	1.5	1.5
87.5°	12.7	4.5	4.5	3.7	3.0	1.9	0.7	0.7	0.7	1.1	1.1
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)