

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: P382776

Luminaire Tested: **GLEON-SA1C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5599.5 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

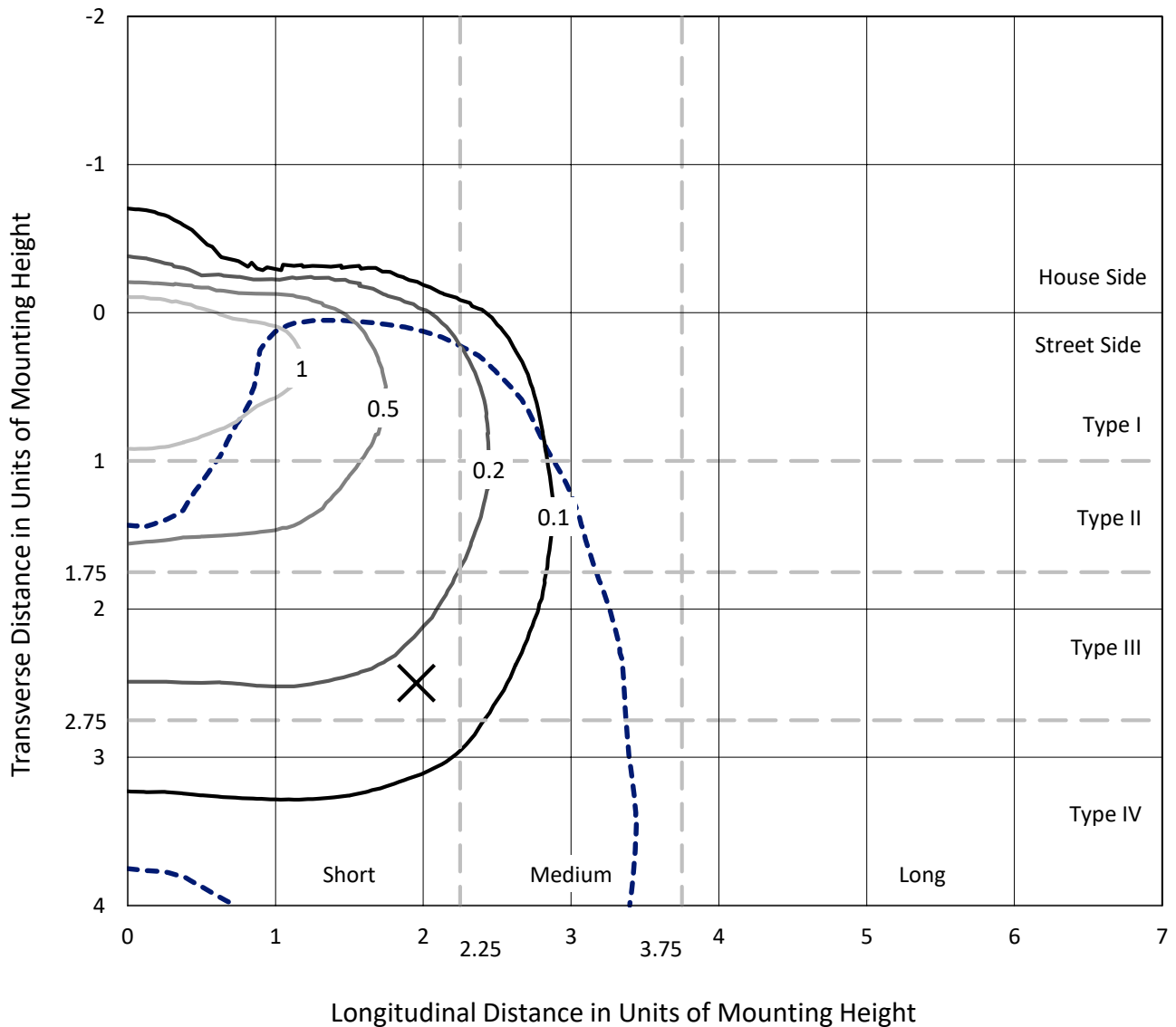
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

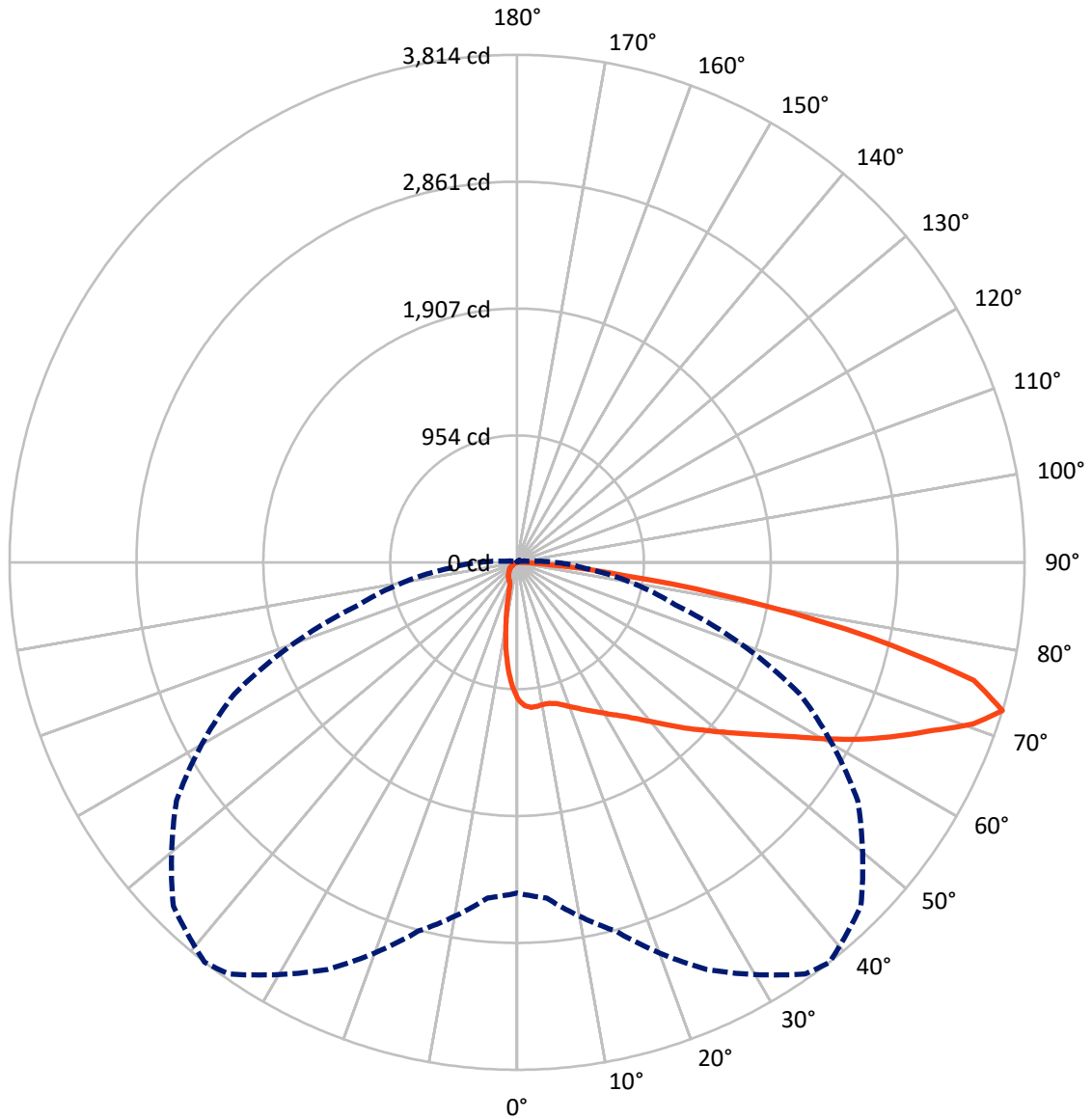
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.2	0.0	471.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5128.3	0.0	5128.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5599.5	0.0	5599.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.6
10°-20°	214.6	3.8
20°-30°	341.3	6.1
30°-40°	513.1	9.2
40°-50°	782.7	14.0
50°-60°	1106.3	19.8
60°-70°	1387.6	24.8
70°-80°	1037.6	18.5
80°-90°	128.6	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°	5599.5	100.0
0°-180°	5599.5	100.0

Coefficient of Utilization



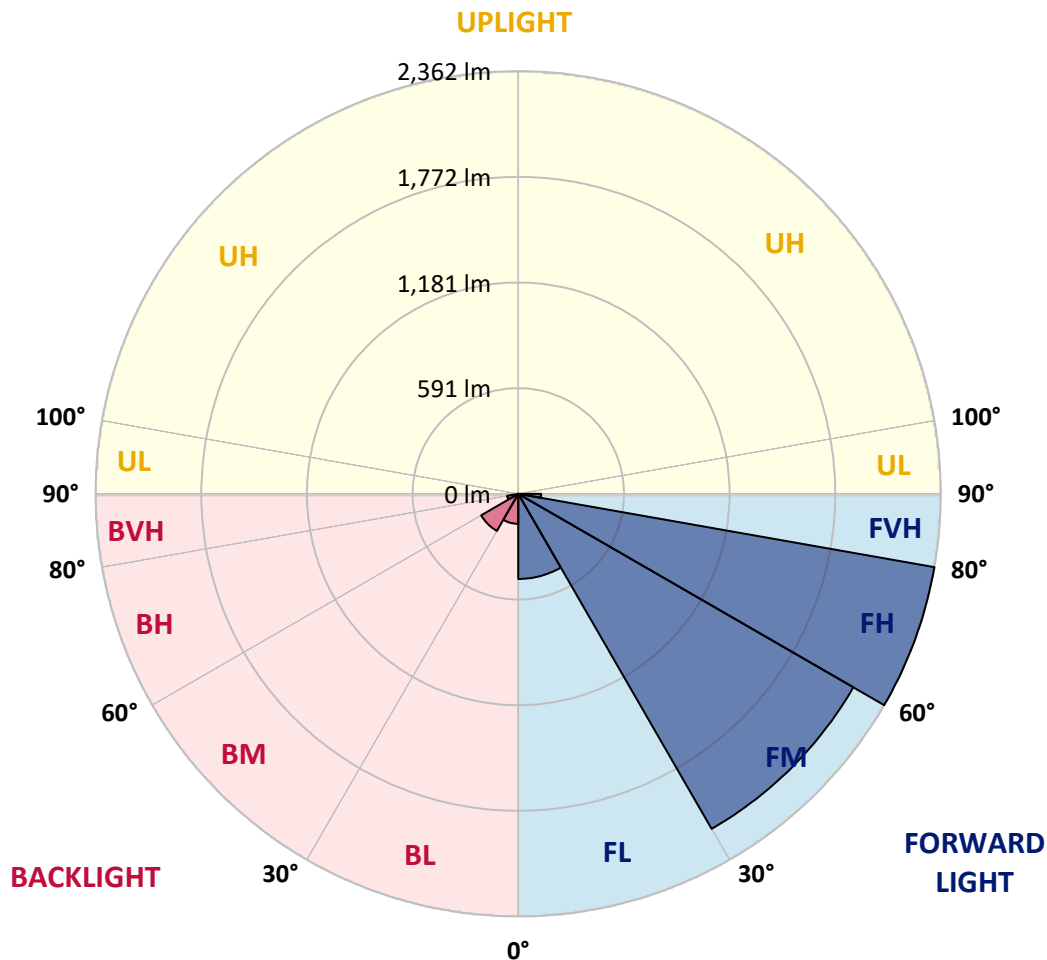
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.8	8.5			
FM (30°-60°)	2162.8	38.6			
FH (60°-80°)	2362.2	42.2			G2/5000
FVH (80°-90°)	127.5	2.3			G2/225
BL (0°-30°)	167.8	3.0	B1/500		
BM (30°-60°)	239.3	4.3	B1/1000		
BH (60°-80°)	62.9	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7
2.5°	1093.0	1093.3	1090.7	1086.5	1081.2	1078.4	1073.7	1066.2	1058.3	1044.2	1028.8
5°	1115.3	1115.3	1112.1	1106.5	1097.8	1095.3	1086.5	1074.6	1058.3	1035.3	1009.5
7.5°	1113.0	1113.5	1109.0	1103.2	1094.7	1092.3	1081.6	1068.3	1048.1	1020.2	987.2
10°	1100.9	1102.0	1098.6	1095.8	1087.9	1085.3	1075.3	1062.1	1041.8	1012.0	974.1
12.5°	1088.6	1089.7	1090.9	1093.5	1088.6	1087.7	1079.8	1068.6	1049.3	1018.4	975.5
15°	1080.7	1083.0	1091.4	1101.4	1102.5	1101.6	1096.4	1086.0	1066.4	1034.4	985.6
17.5°	1080.7	1084.4	1101.8	1120.9	1127.6	1128.4	1123.9	1109.3	1086.0	1051.6	994.9
20°	1089.7	1094.8	1122.0	1149.1	1160.2	1160.2	1151.6	1131.1	1103.9	1067.2	1001.1
22.5°	1113.0	1119.7	1153.9	1185.1	1196.9	1194.3	1182.8	1153.0	1122.5	1084.9	1009.1
25°	1158.8	1163.9	1199.5	1230.9	1238.1	1232.3	1217.6	1179.5	1146.3	1108.8	1023.5
27.5°	1217.9	1218.6	1255.4	1281.8	1277.4	1273.4	1255.1	1212.8	1180.5	1143.0	1048.4
30°	1282.7	1282.7	1315.1	1335.3	1321.9	1318.6	1300.2	1253.0	1224.1	1189.5	1083.7
32.5°	1345.5	1348.3	1374.6	1387.4	1372.3	1369.0	1351.1	1303.9	1282.3	1260.4	1138.8
35°	1406.3	1408.3	1433.2	1440.2	1425.7	1426.7	1413.9	1373.9	1365.7	1362.9	1221.8
37.5°	1465.0	1465.5	1490.8	1495.3	1488.1	1496.0	1497.2	1461.8	1477.0	1499.5	1338.8
40°	1518.8	1519.3	1544.4	1555.8	1568.1	1578.3	1587.4	1568.5	1618.6	1670.9	1478.1
42.5°	1561.8	1566.7	1598.5	1620.1	1652.8	1672.3	1696.9	1696.0	1787.2	1865.8	1646.4
45°	1599.7	1608.1	1652.5	1690.4	1746.2	1777.4	1816.0	1846.2	1976.9	2082.8	1816.9
47.5°	1649.7	1657.6	1708.4	1770.4	1844.8	1885.7	1949.7	2015.0	2185.5	2295.7	1983.5
50°	1720.2	1716.7	1766.7	1855.7	1951.3	2005.1	2096.2	2194.1	2392.5	2481.4	2081.4
52.5°	1795.3	1793.9	1830.9	1948.5	2076.9	2139.7	2260.1	2379.3	2590.4	2609.3	2126.3
55°	1888.3	1878.3	1909.5	2054.3	2225.9	2293.4	2435.3	2562.5	2748.1	2681.3	2148.8
57.5°	1985.8	1969.2	1999.0	2172.3	2394.1	2473.9	2629.2	2741.1	2853.0	2730.6	2148.5
60°	2086.5	2066.9	2102.2	2319.7	2602.9	2695.2	2839.5	2861.8	2950.9	2755.5	2132.7
62.5°	2170.6	2159.0	2211.6	2477.4	2836.2	2926.9	2998.3	2971.5	3033.4	2774.8	2095.7
65°	2259.7	2260.4	2345.3	2661.3	3084.1	3145.3	3151.3	3113.9	3102.4	2770.9	1970.6
67.5°	2380.2	2391.3	2533.0	2911.1	3325.3	3372.5	3372.0	3268.1	3152.9	2613.6	1693.2
70°	2507.6	2533.9	2749.2	3196.9	3588.5	3636.4	3611.7	3366.1	2968.7	2113.4	1198.3
72.5°	2486.2	2531.8	2869.4	3377.1	3777.5	3814.0	3653.8	3125.1	2346.5	1228.3	510.2
75°	1918.1	1970.9	2631.1	3198.5	3579.2	3546.4	3139.4	2431.8	1282.3	342.8	114.9
77.5°	1013.2	1041.4	1738.1	2436.6	2790.8	2722.3	2211.6	1349.1	390.9	84.9	51.6
80°	530.7	537.2	757.4	1382.5	1722.5	1723.0	1310.7	592.6	161.2	43.5	34.7
82.5°	284.2	289.8	400.2	638.9	902.6	818.1	501.8	326.0	93.7	24.7	33.3
85°	68.4	69.5	226.9	291.9	354.8	253.5	149.0	273.7	25.3	14.4	27.0
87.5°	26.3	26.7	84.2	126.3	90.5	58.6	69.8	102.1	3.3	5.6	4.2
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°	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7	1029.7
2.5°	1019.5	1013.4	998.6	979.7	963.0	950.9	932.8	920.9	913.0	912.7	909.7
5°	993.7	981.4	949.2	911.1	876.5	845.3	808.6	779.5	757.9	754.4	746.9
7.5°	966.0	945.8	896.5	837.0	778.8	719.7	651.2	608.6	572.1	554.6	552.8
10°	949.1	920.6	850.7	764.6	673.5	577.5	487.7	425.5	380.7	367.9	358.4
12.5°	945.5	908.1	815.3	696.7	566.5	439.5	340.2	274.2	238.4	226.9	223.9
15°	949.1	902.3	785.6	629.5	458.1	311.9	228.3	190.0	176.5	173.3	173.0
17.5°	951.1	895.3	751.9	554.8	353.1	222.8	174.9	163.7	161.6	161.3	161.8
20°	950.9	884.6	711.6	471.6	262.5	175.1	158.2	155.8	155.4	155.6	155.4
22.5°	949.2	872.0	667.5	385.8	198.3	156.5	150.9	149.5	149.3	149.3	149.3
25°	952.3	862.1	618.8	303.7	163.5	147.9	144.4	143.3	143.0	143.0	142.5
27.5°	963.2	856.5	565.5	233.7	147.7	140.2	137.4	137.2	136.5	136.3	136.8
30°	980.9	856.5	507.2	181.8	138.1	132.3	130.2	129.8	129.5	129.3	129.5
32.5°	1012.0	863.0	443.5	151.2	129.0	123.5	122.1	122.8	122.1	122.1	122.1
35°	1068.3	882.5	376.7	131.8	119.5	114.9	113.5	114.4	113.9	113.9	113.7
37.5°	1150.5	918.8	309.6	120.3	111.1	106.3	104.4	105.8	105.4	105.4	105.1
40°	1250.4	971.6	245.6	111.4	103.0	97.9	96.3	97.0	95.9	95.9	96.3
42.5°	1373.9	1038.6	189.8	102.7	94.9	90.0	89.1	88.4	86.3	85.1	85.3
45°	1511.2	1108.4	147.9	94.5	87.2	83.3	81.9	80.0	76.5	74.2	74.4
47.5°	1633.7	1162.0	120.3	86.3	80.2	77.2	75.1	71.6	66.5	63.7	64.0
50°	1698.1	1170.2	102.3	78.2	73.7	70.7	67.6	62.3	56.3	53.3	53.0
52.5°	1714.6	1132.0	89.1	70.7	67.2	63.7	59.8	52.5	45.8	42.6	42.1
55°	1720.7	1073.9	77.2	63.7	60.3	56.3	51.1	43.0	36.7	33.4	33.3
57.5°	1700.6	987.2	67.9	57.5	53.3	48.3	42.1	34.4	28.4	25.8	25.8
60°	1656.2	869.8	60.7	50.7	46.0	40.4	33.9	26.7	21.1	19.1	19.1
62.5°	1567.6	717.7	53.9	43.7	39.3	33.4	27.5	20.2	14.9	13.7	14.0
65°	1400.4	544.4	47.2	37.4	33.4	27.7	21.4	14.4	10.0	10.0	10.4
67.5°	1142.1	378.1	40.2	31.9	28.9	22.5	16.3	10.0	7.0	7.9	8.8
70°	756.0	212.1	34.4	26.3	24.7	17.9	12.1	6.7	5.6	7.5	9.0
72.5°	285.3	82.5	28.9	21.1	21.4	13.7	8.6	5.1	5.1	8.1	10.7
75°	79.6	40.4	20.7	15.6	16.8	10.0	6.2	4.4	4.8	9.3	12.6
77.5°	46.8	29.8	13.5	9.0	11.4	7.0	4.2	3.4	4.2	7.9	12.1
80°	37.6	15.8	7.9	4.7	6.2	3.9	2.8	2.0	1.1	3.0	6.2
82.5°	37.6	9.5	3.7	3.3	3.3	2.0	1.4	0.9	0.2	0.0	1.6
85°	25.3	3.9	2.3	2.0	1.6	0.7	0.5	0.2	0.0	0.0	0.0
87.5°	4.2	1.6	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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)