

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: P382804

Luminaire Tested: **GLEON-SA1D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382804
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-SA1D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 6141.7 lumens
Efficiency: N/A
Efficacy: 91.7 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

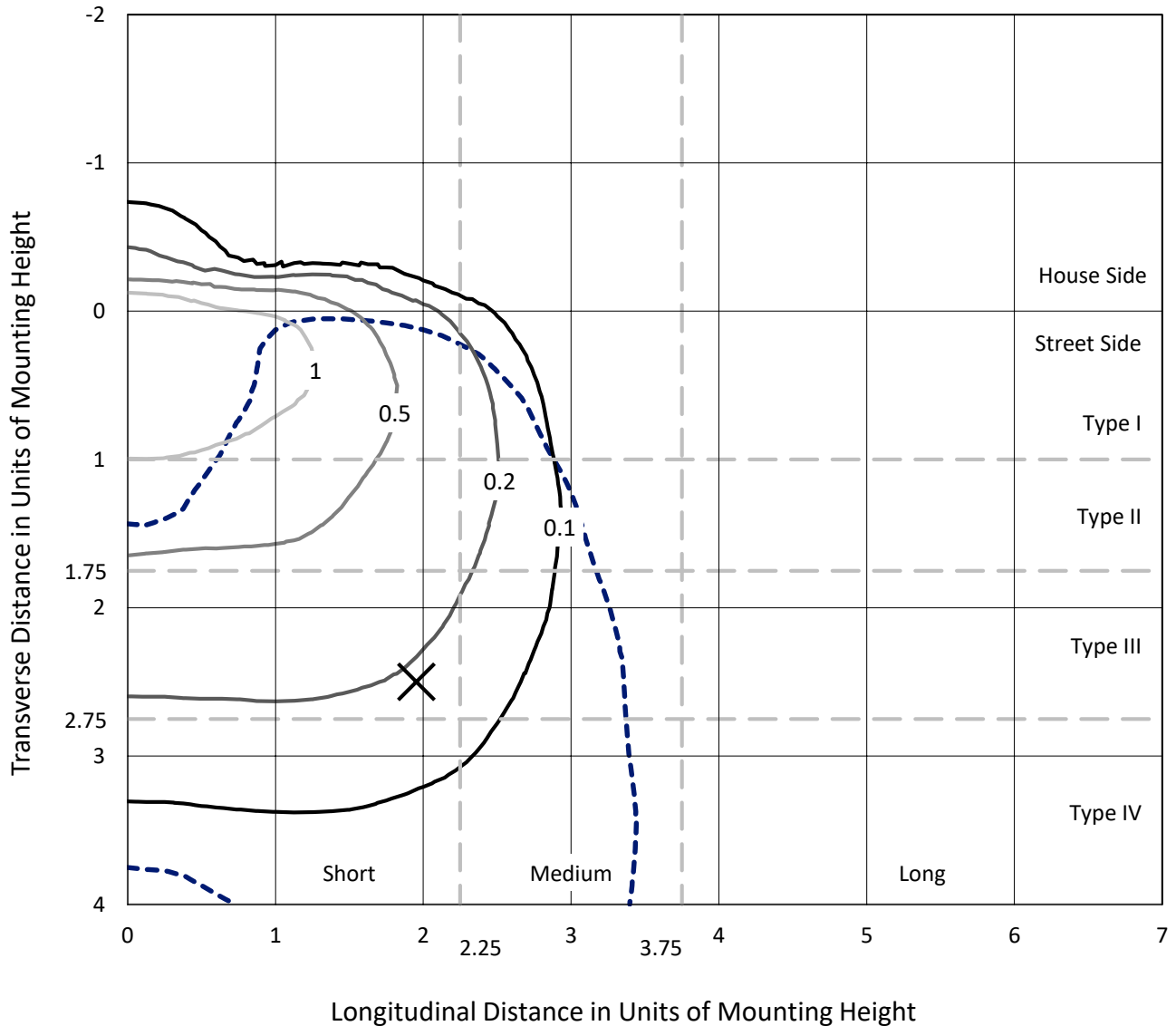
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

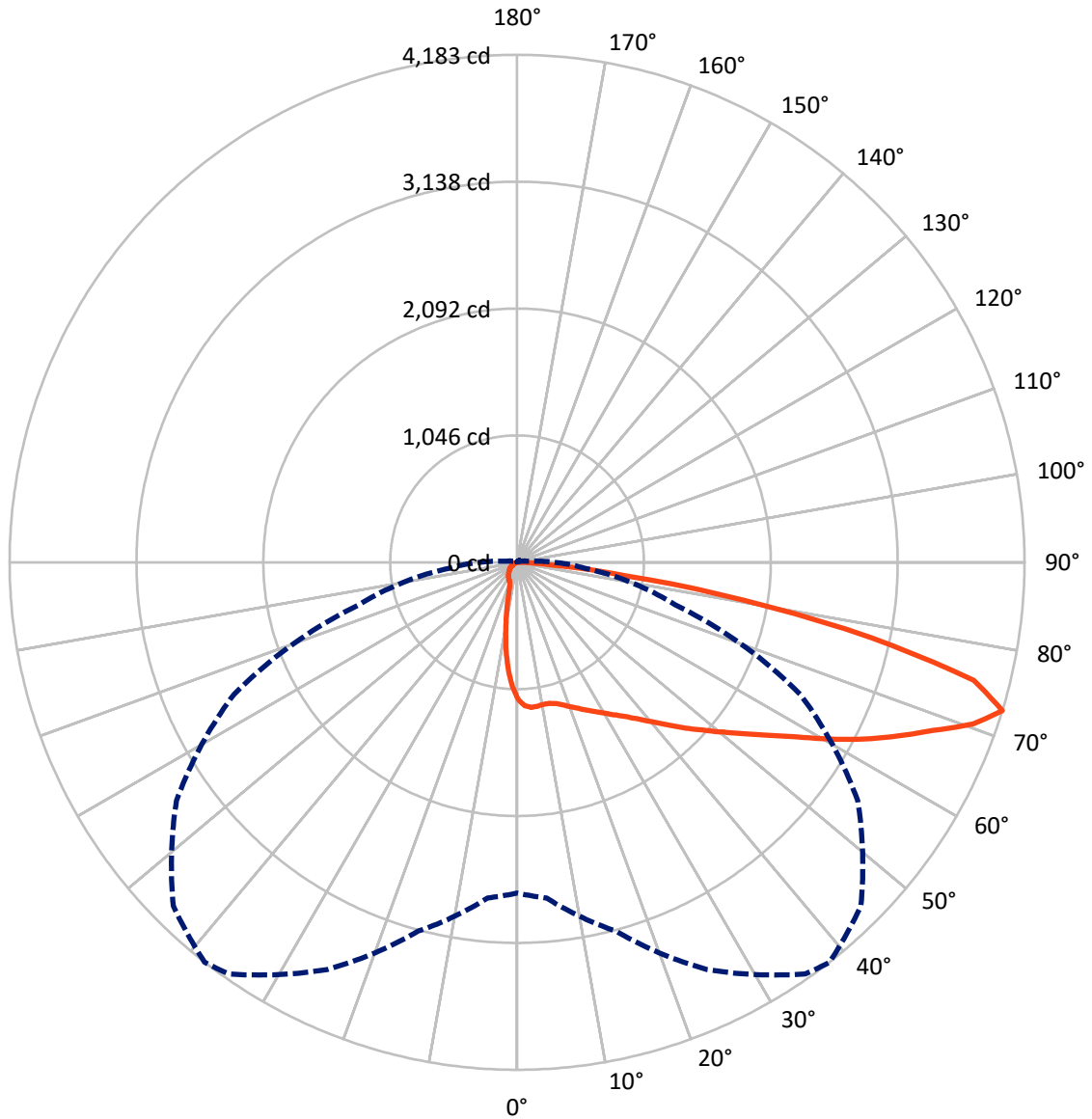
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	516.9	0.0	516.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5624.8	0.0	5624.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	6141.7	0.0	6141.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.6
10°-20°	235.4	3.8
20°-30°	374.3	6.1
30°-40°	562.8	9.2
40°-50°	858.5	14.0
50°-60°	1213.4	19.8
60°-70°	1522.0	24.8
70°-80°	1138.0	18.5
80°-90°	141.1	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°	6141.7	100.0
0°-180°	6141.7	100.0

Coefficient of Utilization



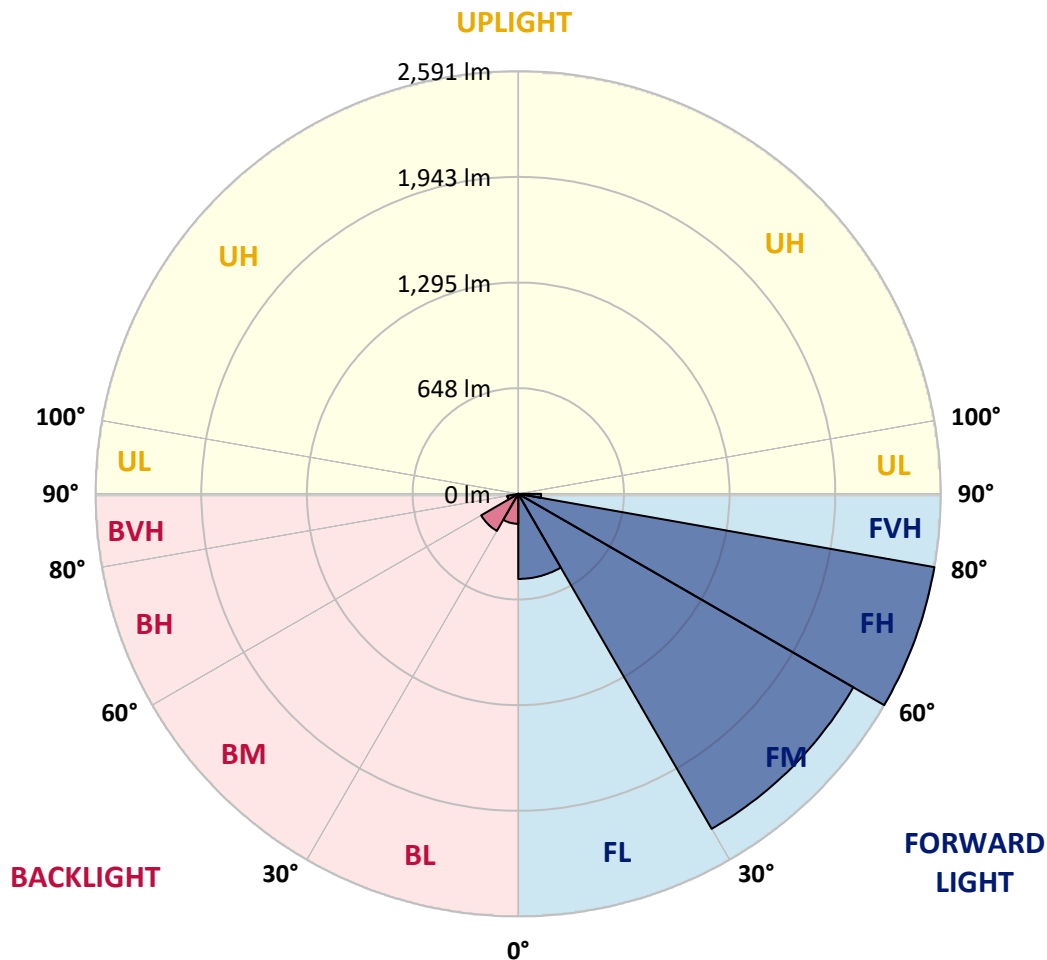
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.9	8.5			
FM (30°-60°)	2372.2	38.6			
FH (60°-80°)	2591.0	42.2			G2/5000
FVH (80°-90°)	139.8	2.3			G2/225
BL (0°-30°)	184.0	3.0	B1/500		
BM (30°-60°)	262.5	4.3	B1/1000		
BH (60°-80°)	69.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.3	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°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1198.8	1199.1	1196.3	1191.6	1185.8	1182.8	1177.7	1169.5	1160.8	1145.2	1128.4
5°	1223.3	1223.3	1219.8	1213.6	1204.2	1201.3	1191.6	1178.7	1160.8	1135.6	1107.2
7.5°	1220.8	1221.3	1216.4	1210.1	1200.6	1198.1	1186.3	1171.8	1149.6	1119.0	1082.7
10°	1207.5	1208.8	1205.0	1201.9	1193.2	1190.4	1179.4	1164.9	1142.7	1110.0	1068.5
12.5°	1194.0	1195.3	1196.5	1199.4	1194.0	1192.9	1184.3	1172.1	1150.8	1116.9	1070.0
15°	1185.3	1187.8	1197.0	1208.0	1209.2	1208.2	1202.6	1191.2	1169.7	1134.5	1081.0
17.5°	1185.3	1189.4	1208.5	1229.5	1236.8	1237.6	1232.7	1216.7	1191.2	1153.4	1091.2
20°	1195.3	1200.9	1230.7	1260.3	1272.5	1272.5	1263.1	1240.6	1210.8	1170.5	1098.1
22.5°	1220.8	1228.2	1265.6	1299.8	1312.8	1310.0	1297.3	1264.7	1231.2	1189.9	1106.8
25°	1271.0	1276.6	1315.6	1350.1	1358.0	1351.6	1335.6	1293.7	1257.2	1216.1	1122.5
27.5°	1335.7	1336.6	1376.8	1405.9	1401.0	1396.8	1376.6	1330.2	1294.8	1253.7	1149.8
30°	1406.9	1406.9	1442.4	1464.6	1449.8	1446.2	1426.1	1374.3	1342.6	1304.6	1188.7
32.5°	1475.9	1478.9	1507.7	1521.8	1505.2	1501.6	1481.9	1430.2	1406.5	1382.5	1249.0
35°	1542.4	1544.7	1572.0	1579.6	1563.8	1564.8	1550.8	1507.0	1498.0	1494.9	1340.1
37.5°	1606.9	1607.5	1635.2	1640.1	1632.2	1640.8	1642.1	1603.4	1620.0	1644.6	1468.4
40°	1665.9	1666.4	1693.9	1706.4	1719.9	1731.1	1741.1	1720.4	1775.3	1832.6	1621.2
42.5°	1713.0	1718.4	1753.4	1777.0	1812.8	1834.2	1861.2	1860.2	1960.2	2046.4	1805.9
45°	1754.6	1763.8	1812.5	1854.1	1915.3	1949.4	1991.8	2025.0	2168.4	2284.3	1992.9
47.5°	1809.4	1818.1	1873.7	1941.8	2023.4	2068.3	2138.5	2210.2	2397.2	2518.1	2175.4
50°	1886.8	1882.9	1937.7	2035.4	2140.2	2199.2	2299.2	2406.6	2624.2	2721.6	2282.9
52.5°	1969.1	1967.6	2008.1	2137.2	2278.0	2346.8	2479.0	2609.6	2841.2	2861.8	2332.0
55°	2071.1	2060.2	2094.4	2253.2	2441.5	2515.5	2671.0	2810.6	3014.1	2940.9	2356.8
57.5°	2178.1	2159.9	2192.6	2382.6	2625.9	2713.4	2883.8	3006.5	3129.2	2995.0	2356.5
60°	2288.4	2267.0	2305.8	2544.3	2855.0	2956.3	3114.3	3138.8	3236.6	3022.3	2339.2
62.5°	2380.8	2368.1	2425.7	2717.2	3110.8	3210.3	3288.5	3259.2	3327.1	3043.5	2298.7
65°	2478.5	2479.2	2572.4	2919.0	3382.7	3449.8	3456.4	3415.3	3402.9	3039.1	2161.5
67.5°	2610.6	2622.9	2778.2	3193.0	3647.2	3699.0	3698.4	3584.5	3458.2	2866.7	1857.1
70°	2750.4	2779.2	3015.4	3506.4	3936.0	3988.5	3961.4	3692.1	3256.2	2318.1	1314.3
72.5°	2726.9	2776.9	3147.2	3704.1	4143.3	4183.4	4007.6	3427.6	2573.6	1347.3	559.6
75°	2103.8	2161.7	2885.8	3508.2	3925.7	3889.8	3443.4	2667.2	1406.5	376.0	126.0
77.5°	1111.3	1142.2	1906.4	2672.6	3061.1	2985.8	2425.7	1479.7	428.8	93.1	56.6
80°	582.0	589.2	830.8	1516.4	1889.3	1889.8	1437.6	649.9	176.8	47.7	38.0
82.5°	311.7	317.8	438.9	700.7	990.0	897.4	550.5	357.6	102.7	27.0	36.5
85°	75.0	76.3	248.9	320.1	389.2	278.1	163.5	300.2	27.8	15.8	29.6
87.5°	28.8	29.3	92.3	138.5	99.2	64.3	76.5	112.0	3.5	6.1	4.6
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°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1118.2	1111.6	1095.2	1074.6	1056.2	1043.0	1023.1	1010.1	1001.4	1001.1	997.8
5°	1089.9	1076.4	1041.2	999.4	961.4	927.2	886.8	855.0	831.2	827.4	819.3
7.5°	1059.5	1037.4	983.2	917.9	854.2	789.4	714.2	667.5	627.5	608.3	606.3
10°	1040.9	1009.8	933.0	838.7	738.7	633.4	534.9	466.8	417.5	403.5	393.0
12.5°	1037.1	996.0	894.3	764.1	621.3	482.1	373.2	300.7	261.5	248.9	245.6
15°	1040.9	989.7	861.6	690.5	502.5	342.1	250.5	208.4	193.6	190.0	189.8
17.5°	1043.2	982.0	824.6	608.6	387.2	244.3	191.8	179.6	177.3	177.0	177.6
20°	1043.0	970.3	780.5	517.3	287.9	192.1	173.5	170.9	170.4	170.7	170.4
22.5°	1041.2	956.5	732.0	423.2	217.6	171.7	165.5	164.0	163.8	163.8	163.8
25°	1044.5	945.5	678.7	333.1	179.3	162.2	158.4	157.2	156.9	156.9	156.3
27.5°	1056.5	939.4	620.3	256.4	162.0	153.8	150.7	150.4	149.7	149.5	150.0
30°	1075.8	939.4	556.3	199.4	151.5	145.1	142.8	142.3	142.1	141.8	142.1
32.5°	1110.0	946.5	486.5	165.8	141.6	135.4	134.0	134.7	134.0	134.0	134.0
35°	1171.8	968.0	413.2	144.7	131.1	126.0	124.5	125.5	125.0	125.0	124.7
37.5°	1261.8	1007.7	339.5	131.9	121.9	116.5	114.5	116.1	115.5	115.5	115.3
40°	1371.5	1065.7	269.3	122.2	113.0	107.4	105.6	106.4	105.1	105.1	105.6
42.5°	1507.0	1139.1	208.1	112.7	104.1	98.7	97.7	96.9	94.6	93.3	93.6
45°	1657.4	1215.7	162.2	103.6	95.7	91.3	89.8	87.8	83.9	81.3	81.6
47.5°	1791.8	1274.5	131.9	94.6	88.0	84.7	82.3	78.5	72.9	69.9	70.1
50°	1862.5	1283.5	112.3	85.7	80.9	77.5	74.2	68.4	61.8	58.4	58.1
52.5°	1880.6	1241.7	97.7	77.5	73.7	69.9	65.6	57.7	50.2	46.7	46.2
55°	1887.2	1177.9	84.7	69.9	66.0	61.8	56.1	47.2	40.3	36.7	36.5
57.5°	1865.3	1082.7	74.5	63.0	58.4	53.1	46.2	37.7	31.1	28.3	28.3
60°	1816.6	953.9	66.6	55.6	50.5	44.3	37.3	29.3	23.2	21.0	21.0
62.5°	1719.5	787.2	59.2	48.0	43.1	36.7	30.1	22.2	16.3	15.1	15.3
65°	1536.0	597.1	51.8	41.1	36.7	30.4	23.5	15.8	11.0	11.0	11.5
67.5°	1252.7	414.7	44.2	34.9	31.7	24.8	17.9	11.0	7.6	8.7	9.7
70°	829.3	232.6	37.7	28.8	27.0	19.7	13.2	7.4	6.1	8.2	10.0
72.5°	313.0	90.5	31.7	23.2	23.5	15.1	9.4	5.6	5.6	8.9	11.7
75°	87.2	44.3	22.7	17.0	18.4	11.0	6.9	4.8	5.4	10.2	13.8
77.5°	51.2	32.6	14.8	10.0	12.5	7.6	4.6	3.8	4.6	8.7	13.2
80°	41.4	17.3	8.7	5.1	6.9	4.4	3.1	2.3	1.3	3.4	6.9
82.5°	41.4	10.4	4.1	3.5	3.5	2.3	1.5	1.0	0.3	0.0	1.8
85°	27.8	4.4	2.5	2.3	1.8	0.7	0.5	0.3	0.0	0.0	0.0
87.5°	4.6	1.8	1.0	0.5	0.3	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)