

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: P323325

Luminaire Tested: **GLEON-SA1C-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 4508 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

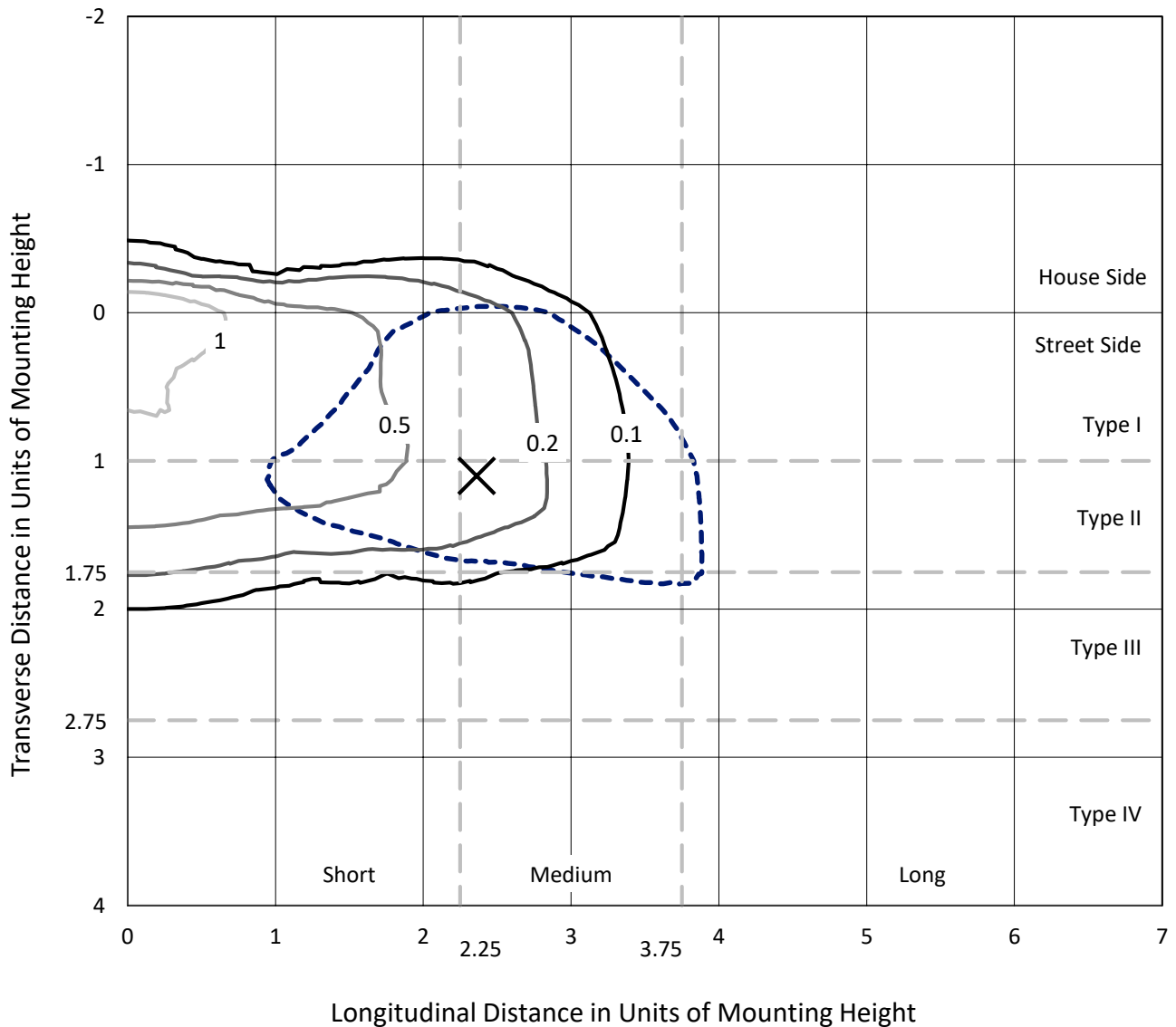
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

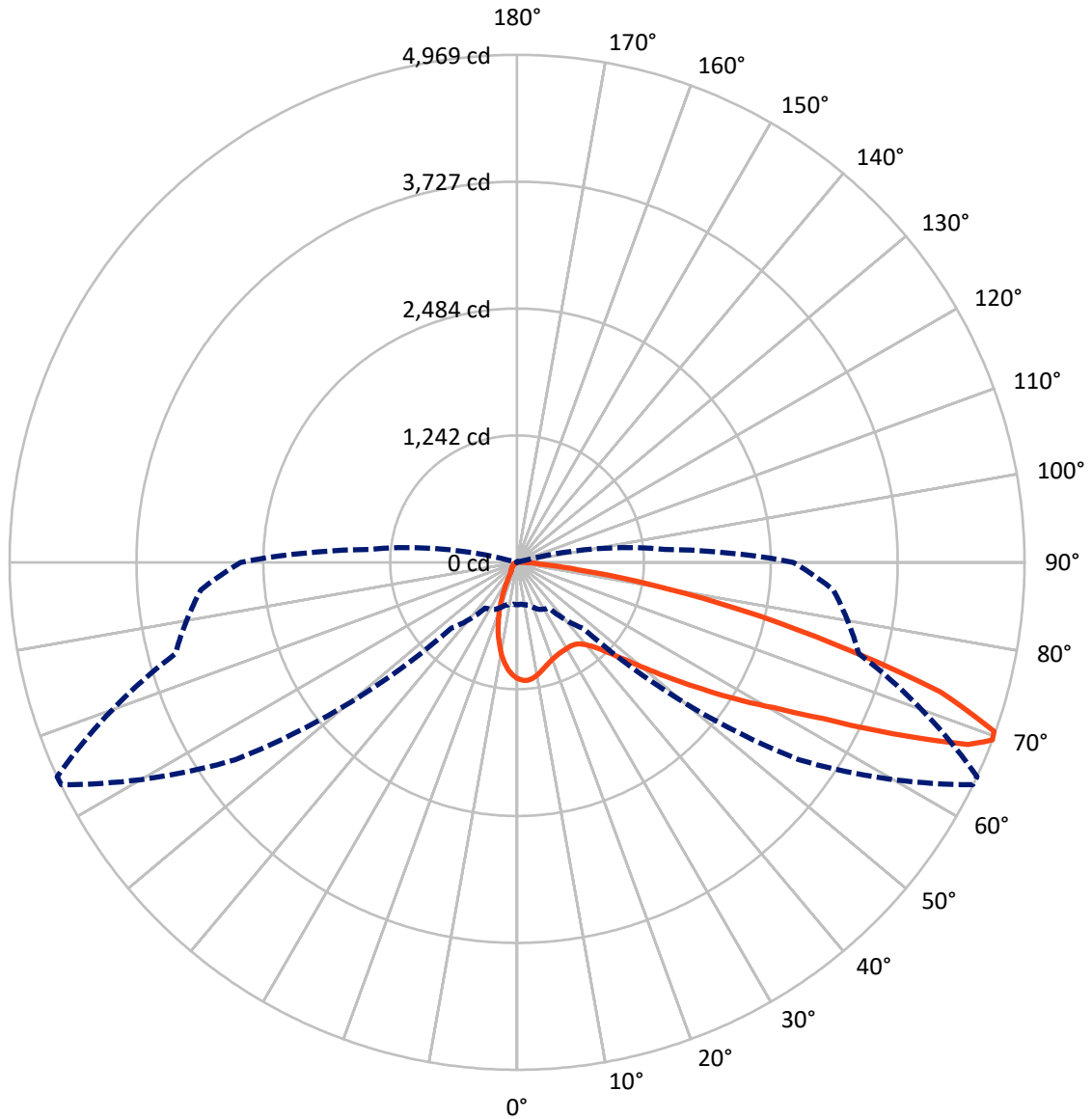
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	531.4	0.0	531.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3976.6	0.0	3976.6
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4508.0	0.0	4508.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	2.1
10°-20°	208.5	4.6
20°-30°	288.8	6.4
30°-40°	402.7	8.9
40°-50°	625.9	13.9
50°-60°	1004.9	22.3
60°-70°	1136.7	25.2
70°-80°	667.6	14.8
80°-90°	77.7	1.7
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°	4508.0	100.0
0°-180°	4508.0	100.0

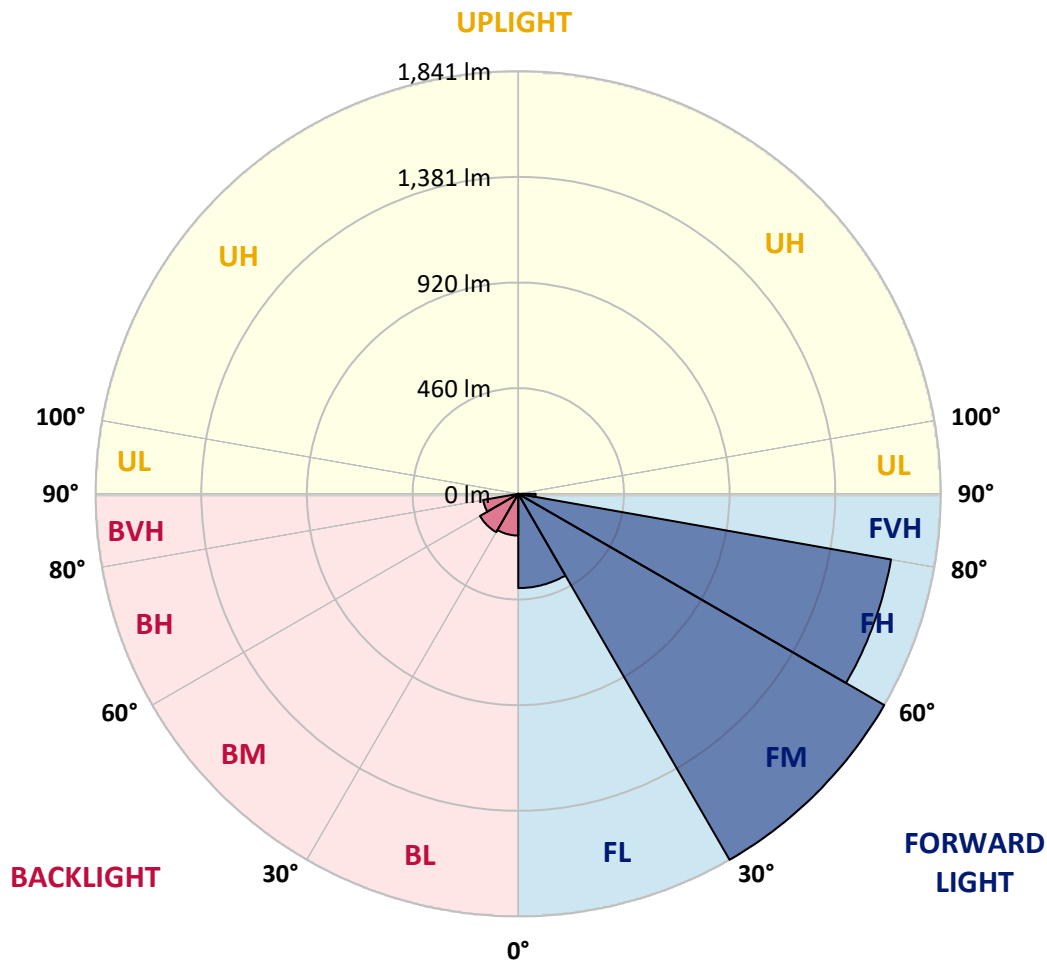


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.8	9.1			
FM (30°-60°)	1840.9	40.8			
FH (60°-80°)	1649.0	36.6			G1/1800
FVH (80°-90°)	75.9	1.7			G1/100
BL (0°-30°)	181.8	4.0	B1/500		
BM (30°-60°)	192.6	4.3	B0/220		
BH (60°-80°)	155.3	3.4	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1149.3	1146.4	1148.7	1153.7	1156.2	1156.2	1158.1	1155.8	1156.5	1151.0	1143.0
5°	1077.4	1073.0	1079.3	1093.2	1110.4	1125.1	1146.8	1158.3	1159.4	1159.6	1150.2
7.5°	999.9	995.9	1005.3	1021.7	1043.8	1071.1	1109.0	1142.2	1144.1	1162.1	1155.2
10°	937.0	934.1	945.0	962.5	988.5	1019.0	1065.5	1111.7	1117.2	1156.9	1154.4
12.5°	887.0	884.7	895.0	915.2	941.7	975.5	1024.2	1077.8	1085.2	1145.3	1150.6
15°	850.6	850.2	858.8	878.2	907.6	939.1	988.9	1046.3	1054.9	1132.7	1150.1
17.5°	831.5	832.1	838.4	855.0	880.1	911.4	959.1	1019.8	1029.1	1121.4	1152.9
20°	829.6	830.2	833.6	842.9	863.4	891.0	934.9	997.4	1007.2	1113.0	1157.5
22.5°	846.4	846.0	846.9	846.0	857.4	878.4	918.9	980.3	991.5	1107.5	1161.1
25°	878.6	878.0	877.7	870.6	863.0	874.2	912.2	970.6	981.2	1103.5	1163.2
27.5°	923.4	923.1	922.5	910.8	888.0	880.9	912.9	966.9	975.9	1100.3	1162.8
30°	982.4	985.1	984.3	968.1	932.4	901.3	921.0	965.0	972.8	1094.0	1158.8
32.5°	1051.6	1057.0	1061.2	1043.8	999.2	941.7	939.5	967.1	972.8	1089.2	1151.6
35°	1123.5	1130.4	1145.9	1139.8	1081.0	1002.6	971.3	979.7	984.5	1091.9	1148.1
37.5°	1194.3	1202.5	1236.1	1253.8	1188.2	1083.1	1020.9	1010.8	1013.3	1108.1	1152.0
40°	1276.5	1288.9	1339.9	1368.5	1316.2	1190.9	1095.1	1064.2	1065.2	1143.8	1169.7
42.5°	1384.5	1397.3	1452.4	1497.2	1460.4	1327.1	1195.8	1145.9	1144.9	1210.5	1211.5
45°	1516.1	1529.5	1586.5	1636.3	1619.7	1488.4	1324.8	1265.1	1263.9	1315.8	1290.6
47.5°	1665.3	1678.4	1729.4	1780.7	1798.6	1676.9	1489.0	1427.8	1425.1	1462.1	1412.9
50°	1793.3	1801.9	1848.8	1917.8	1998.7	1908.5	1693.3	1634.4	1631.5	1656.5	1592.4
52.5°	1839.8	1844.8	1892.5	1989.2	2191.0	2222.1	1961.7	1885.8	1883.7	1894.6	1831.4
55°	1745.6	1754.6	1813.1	1956.6	2295.1	2576.5	2300.5	2197.1	2181.3	2157.8	2081.3
57.5°	1488.8	1503.1	1566.1	1756.8	2246.5	2857.7	2798.4	2549.2	2526.0	2382.5	2284.5
60°	1115.5	1133.1	1185.3	1391.2	1986.9	2957.8	3342.4	2941.6	2889.2	2561.4	2471.2
62.5°	765.5	774.3	809.7	943.8	1463.3	2793.8	3797.5	3467.1	3371.4	2756.0	2673.2
65°	584.7	587.7	602.2	648.4	871.4	2269.4	3978.5	4160.5	4044.7	2988.7	2882.9
67.5°	471.2	468.7	488.7	554.7	583.5	1384.5	3767.4	4816.5	4762.4	3299.8	3093.8
69°	415.5	412.0	432.4	509.1	548.0	915.2	3367.9	4965.5	4968.9	3464.1	3108.3
70°	373.9	376.2	396.4	482.0	536.0	718.4	2986.4	4927.5	4954.6	3525.5	3021.3
72.5°	249.7	255.8	296.4	400.2	515.4	543.6	1803.2	4228.4	4332.6	3387.2	2592.1
75°	140.8	145.4	193.6	301.8	485.7	517.7	952.4	3115.2	3215.9	2832.5	1998.9
77.5°	69.1	71.5	109.5	194.8	406.1	493.3	540.2	2116.0	2231.1	1848.8	1130.6
80°	29.2	30.5	54.7	120.2	290.3	470.8	401.2	1302.3	1316.6	724.3	301.2
82.5°	11.3	11.6	23.1	75.0	184.5	367.0	335.5	617.5	602.6	136.4	68.7
85°	1.3	1.5	8.4	45.0	102.6	188.8	272.6	266.1	246.3	27.1	35.3
87.5°	0.0	0.0	0.6	13.7	30.5	88.5	141.7	110.4	99.6	8.8	18.3
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°	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1136.3	1134.4	1124.1	1109.2	1095.1	1077.6	1060.8	1050.7	1042.7	1037.3	1043.6
5°	1139.4	1131.0	1099.7	1059.6	1020.3	976.1	934.9	900.0	886.2	871.0	877.8
7.5°	1138.4	1122.6	1066.3	995.0	922.9	848.3	777.7	723.3	695.1	667.4	674.5
10°	1133.6	1106.9	1021.7	916.0	808.0	700.8	600.7	524.6	482.0	443.5	449.0
12.5°	1123.2	1086.0	969.0	825.6	681.2	539.8	422.5	325.0	272.8	249.7	252.6
15°	1116.9	1065.5	913.3	734.0	545.7	376.0	258.3	192.1	168.2	160.6	161.6
17.5°	1113.8	1045.9	855.7	629.3	407.3	239.4	166.9	147.3	142.1	140.8	141.2
20°	1110.8	1026.1	796.4	525.7	280.6	161.0	137.2	131.4	129.5	127.8	128.2
22.5°	1105.6	1007.0	732.7	420.8	189.2	130.7	123.6	118.1	114.1	112.0	112.4
25°	1099.3	987.0	667.6	313.4	138.1	116.6	109.9	102.1	97.3	93.5	93.7
27.5°	1089.2	962.4	600.5	228.1	116.0	104.3	95.4	86.8	78.8	74.4	74.4
30°	1075.1	934.5	525.9	163.3	104.0	92.3	81.5	70.8	62.2	58.2	57.8
32.5°	1059.4	905.5	450.6	123.8	94.4	81.1	68.7	57.4	49.8	46.5	46.4
35°	1046.1	874.2	375.4	103.8	84.9	70.2	56.7	47.1	41.0	38.3	38.2
37.5°	1037.5	842.9	302.2	92.7	76.3	60.1	47.5	38.9	34.5	32.4	32.2
40°	1036.2	819.7	235.2	84.3	68.3	51.1	39.7	33.0	29.0	26.7	26.5
42.5°	1053.5	806.3	180.5	77.3	60.1	43.3	33.8	28.2	24.0	21.7	21.6
45°	1099.1	810.5	138.9	71.0	51.9	36.6	28.6	23.5	19.6	17.9	17.5
47.5°	1182.3	839.5	110.4	64.7	44.1	31.1	24.4	19.5	16.2	14.5	14.3
50°	1330.3	907.6	92.3	57.8	36.8	26.5	20.2	15.8	13.2	11.6	11.4
52.5°	1526.8	1028.9	82.4	51.1	30.5	22.5	16.6	12.6	10.3	9.2	9.0
55°	1743.5	1175.8	75.9	43.9	25.0	18.7	13.2	9.9	8.0	7.1	6.7
57.5°	1955.0	1303.0	69.8	36.8	20.8	15.3	10.5	7.8	6.3	5.3	5.2
60°	2149.4	1420.0	62.8	29.6	17.0	12.0	8.2	6.1	5.0	4.0	4.0
62.5°	2357.5	1510.4	53.0	23.1	13.9	9.2	6.7	5.5	4.0	3.4	3.2
65°	2578.0	1577.5	41.6	17.9	10.9	6.9	5.5	5.7	3.2	2.5	2.3
67.5°	2740.9	1564.2	30.7	14.1	8.4	5.3	5.3	6.1	2.9	1.9	1.7
69°	2705.1	1455.6	25.8	12.2	7.2	4.6	5.0	6.1	2.7	1.7	1.5
70°	2601.1	1335.5	22.7	10.9	6.5	4.2	4.8	5.9	2.5	1.7	1.5
72.5°	2166.2	1005.8	17.7	8.2	5.2	3.4	4.0	5.2	2.5	1.7	1.3
75°	1629.4	643.8	13.5	5.9	3.8	2.7	3.1	3.8	2.5	1.5	1.3
77.5°	886.6	232.1	9.7	4.0	2.7	2.1	2.1	2.9	2.3	1.1	0.8
80°	228.0	58.4	6.1	2.7	2.1	1.5	1.3	1.9	1.3	0.2	0.0
82.5°	56.3	13.2	3.2	1.9	1.5	0.6	0.6	1.0	0.6	0.0	0.0
85°	30.9	6.5	2.1	1.3	0.8	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	15.8	1.9	0.6	0.4	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)