

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: P321725

Luminaire Tested: **GLEON-SA1C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187 lumens
Efficiency: N/A
Efficacy: 71.0 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

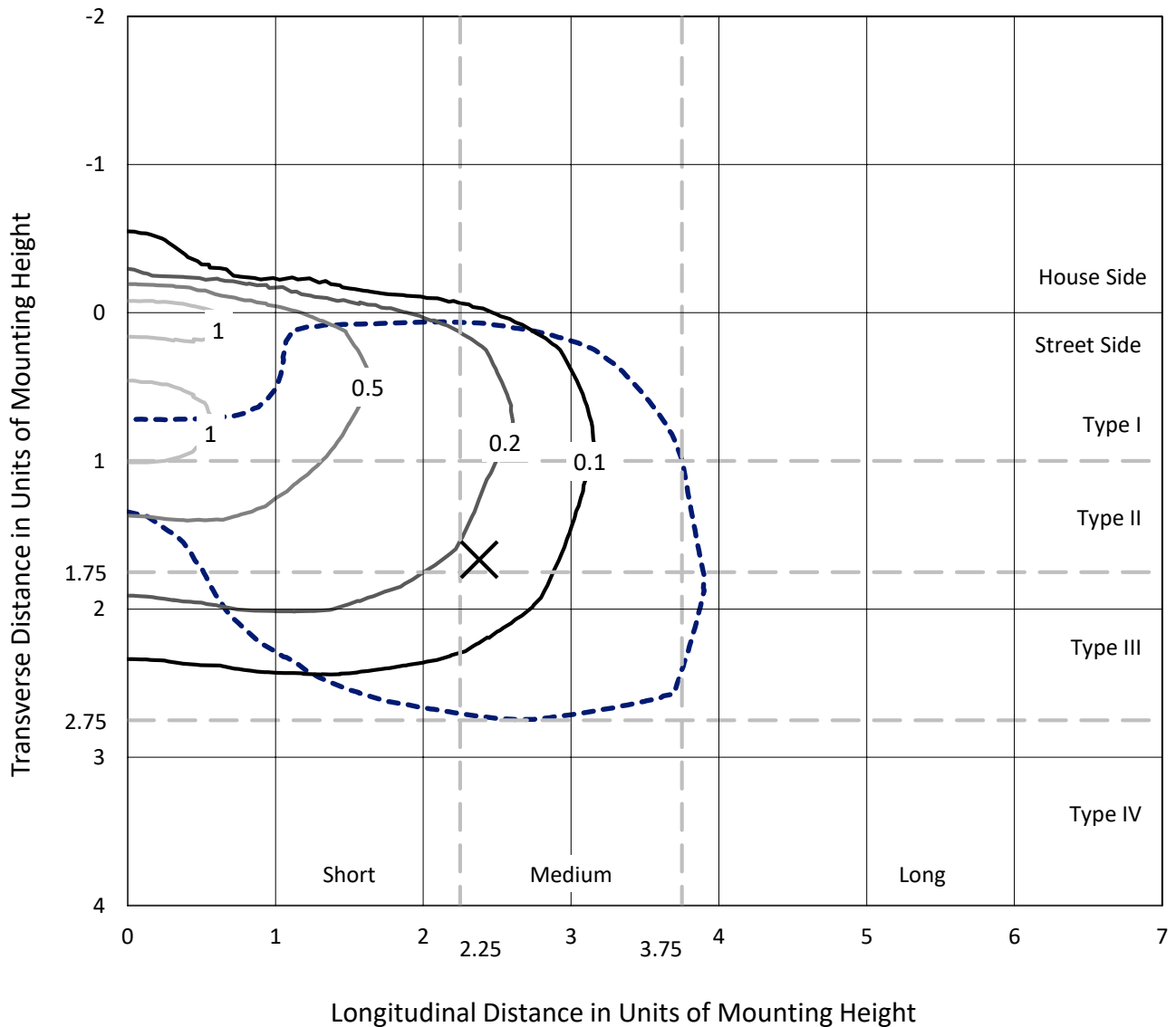
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321725
 CATALOG NUMBER: GLEON-SA1C-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

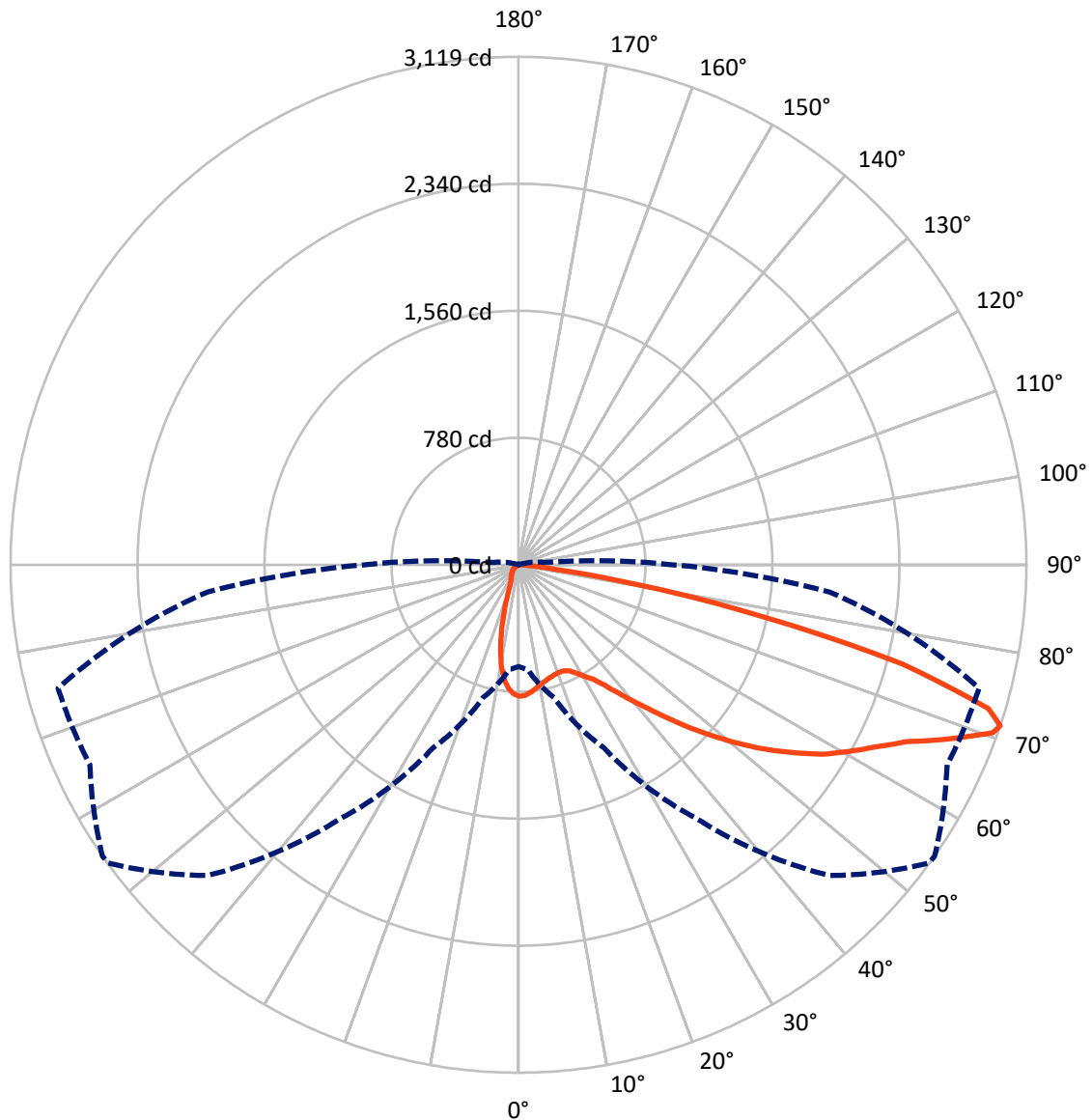
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P321725
CATALOG NUMBER: GLEON-SA1C-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.5	0.0	331.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3855.5	0.0	3855.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	4187.0	0.0	4187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.6
10°-20°	155.4	3.7
20°-30°	249.8	6.0
30°-40°	424.4	10.1
40°-50°	658.7	15.7
50°-60°	885.6	21.2
60°-70°	1083.4	25.9
70°-80°	633.4	15.1
80°-90°	27.4	0.7
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°	4187.0	100.0
0°-180°	4187.0	100.0

Coefficient of Utilization



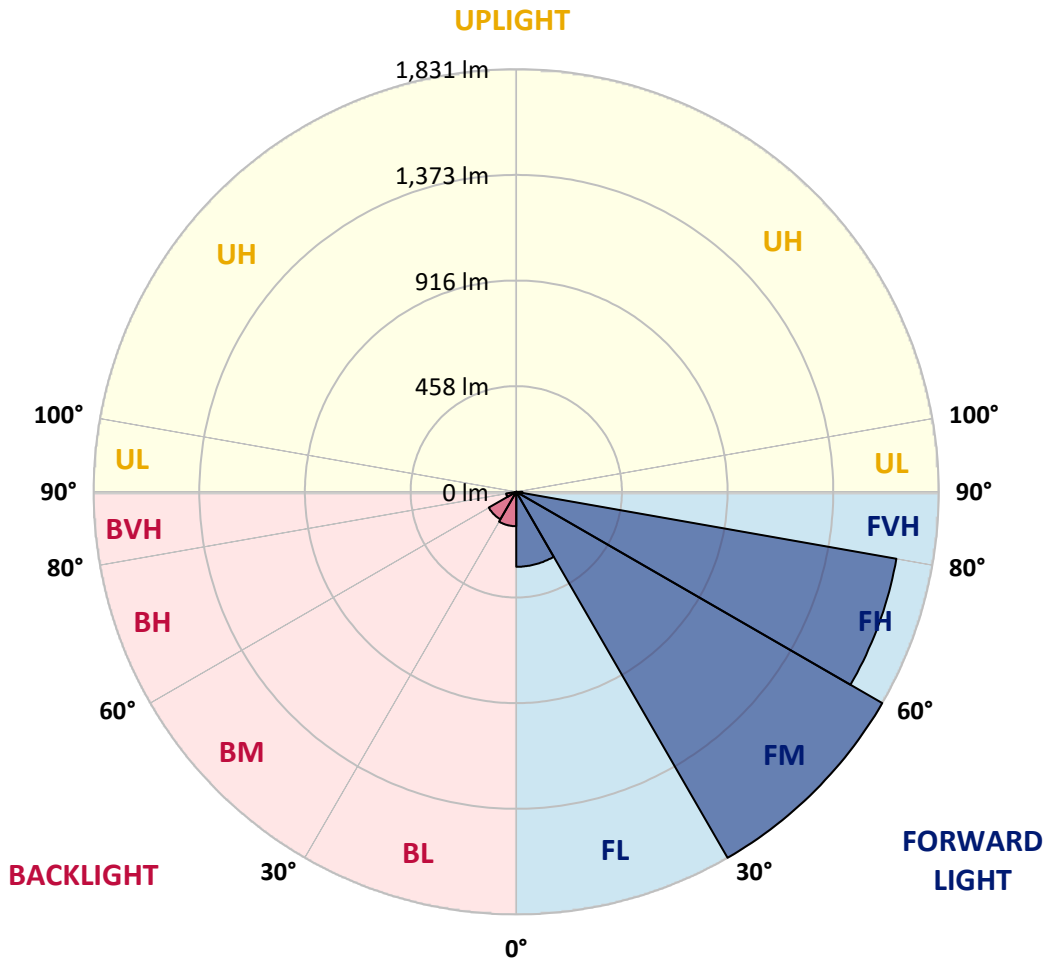
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.9	7.8			
FM (30°-60°)	1831.3	43.7			
FH (60°-80°)	1672.4	39.9			G1/1800
FVH (80°-90°)	27.0	0.6			G1/100
BL (0°-30°)	149.2	3.6	B1/500		
BM (30°-60°)	137.4	3.3	B0/220		
BH (60°-80°)	44.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	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





REPORT NUMBER: P321725

CATALOG NUMBER: GLEON-SA1C-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5
2.5°	783.8	784.7	788.1	789.6	793.2	799.2	802.2	802.4	807.3	809.2	810.7
5°	728.3	734.0	739.6	745.6	756.5	771.0	785.3	786.6	802.4	814.1	820.3
7.5°	680.6	685.7	692.4	702.0	717.4	740.2	764.0	766.9	796.8	823.3	837.2
10°	631.5	635.6	645.4	659.5	680.8	711.2	743.4	748.1	791.7	835.7	860.1
12.5°	579.1	581.5	593.3	613.6	644.9	683.6	725.9	732.1	788.5	850.0	887.2
15°	539.2	540.3	551.6	572.7	608.4	658.8	712.3	719.9	789.2	867.1	916.7
17.5°	529.0	529.6	535.6	550.1	581.7	636.6	701.6	710.8	791.5	883.8	946.4
20°	570.2	566.3	560.1	557.8	571.3	623.2	695.2	705.6	794.5	898.7	973.1
22.5°	683.2	671.6	645.8	611.4	590.5	624.2	696.9	707.3	804.1	916.9	1003.9
25°	850.9	834.7	790.9	723.3	658.2	651.2	711.0	721.6	822.7	938.7	1033.5
27.5°	1041.7	1025.8	972.2	875.5	764.6	704.8	743.4	753.1	850.3	958.1	1056.0
30°	1224.5	1220.0	1156.8	1047.0	898.5	791.7	785.1	793.4	870.8	969.7	1073.9
32.5°	1379.4	1372.2	1321.5	1214.7	1051.7	896.0	834.2	836.6	886.3	984.8	1097.2
35°	1523.0	1514.2	1469.6	1368.7	1208.9	1023.5	909.8	906.2	919.9	1015.0	1131.0
37.5°	1648.4	1656.5	1607.1	1511.0	1349.9	1156.0	1011.7	1000.9	972.5	1064.3	1180.1
40°	1753.3	1753.3	1727.6	1647.5	1502.2	1293.1	1126.9	1112.8	1051.7	1140.2	1242.3
42.5°	1791.1	1799.2	1808.8	1763.5	1638.5	1435.6	1255.3	1240.6	1163.2	1248.0	1320.9
45°	1793.4	1806.2	1855.2	1855.0	1761.6	1577.2	1400.1	1393.1	1306.1	1386.3	1418.3
47.5°	1761.6	1777.6	1858.4	1904.3	1859.2	1709.0	1558.4	1549.7	1474.0	1555.9	1520.2
50°	1712.5	1730.2	1824.2	1923.7	1925.5	1823.6	1725.1	1712.2	1658.8	1749.8	1625.5
52.5°	1624.7	1658.9	1793.6	1928.2	1969.2	1922.7	1883.8	1878.2	1865.6	1936.4	1709.3
55°	1436.9	1474.9	1716.7	1929.7	2009.6	2010.5	2032.5	2034.0	2059.4	2110.9	1771.8
57.5°	1348.2	1369.6	1582.4	1936.8	2069.6	2110.2	2184.0	2195.7	2235.0	2276.5	1843.0
60°	1292.3	1317.7	1516.3	1927.0	2163.7	2240.8	2324.5	2328.4	2370.5	2447.4	1939.5
62.5°	1247.8	1272.8	1474.5	1889.4	2269.6	2398.0	2461.7	2462.1	2493.7	2651.0	2049.1
65°	1137.8	1158.9	1390.1	1847.1	2339.5	2553.5	2621.2	2618.7	2644.5	2865.7	2176.3
67.5°	978.7	994.9	1217.7	1686.8	2313.2	2694.9	2861.8	2853.7	2822.5	3051.3	2226.3
70°	756.7	762.5	959.8	1405.7	2066.5	2749.2	3094.4	3090.2	2931.7	3018.0	2043.0
71°	625.5	644.7	845.8	1240.6	1901.3	2699.0	3116.9	3119.4	2904.3	2927.4	1916.9
72.5°	363.2	379.6	613.1	952.8	1614.2	2489.6	3000.0	3017.7	2776.1	2662.7	1637.3
75°	77.8	83.3	227.3	461.2	887.9	1744.9	2367.9	2430.9	2262.6	1811.4	986.8
77.5°	54.1	58.5	97.4	209.2	293.5	862.2	1470.9	1542.0	1351.8	680.8	315.8
80°	42.9	47.8	76.0	103.4	79.3	278.1	689.0	732.5	450.8	151.9	53.2
82.5°	23.9	28.4	59.2	55.8	30.5	52.8	192.9	218.1	90.2	30.6	12.6
85°	7.0	8.5	38.2	40.6	13.0	10.2	32.9	40.8	17.1	8.1	5.6
87.5°	0.0	0.0	18.4	15.6	3.8	1.5	3.0	3.4	3.4	3.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321725

CATALOG NUMBER: GLEON-SA1C-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5	807.5
2.5°	810.7	812.0	807.3	801.1	794.5	786.4	778.0	771.4	771.2	768.0	764.8
5°	820.6	819.9	806.9	787.2	763.9	739.6	716.5	690.4	681.7	671.0	667.4
7.5°	839.1	833.8	806.3	763.1	712.0	661.2	608.8	555.9	533.4	513.1	509.5
10°	862.2	852.2	802.8	727.0	633.2	539.6	460.4	388.6	357.0	332.8	331.6
12.5°	886.3	871.0	792.8	672.5	530.0	398.4	307.2	236.5	210.2	193.3	194.8
15°	911.4	888.7	771.4	599.0	412.5	270.4	188.8	147.2	136.7	132.4	133.5
17.5°	937.2	900.9	741.5	510.4	296.5	174.5	130.7	119.0	119.0	119.9	120.3
20°	959.6	907.5	697.5	411.2	201.0	127.1	114.3	112.6	113.6	115.1	115.2
22.5°	981.8	907.9	640.2	310.6	140.6	111.3	108.9	108.1	108.7	110.4	110.5
25°	999.8	903.4	568.3	220.9	112.2	104.9	103.8	103.4	103.8	105.8	105.8
27.5°	1007.1	887.0	480.7	155.3	100.6	97.8	97.4	97.8	98.3	99.8	100.0
30°	1007.9	858.4	385.2	112.4	91.2	88.2	88.9	90.2	89.7	89.3	89.7
32.5°	1009.8	825.3	292.2	92.5	83.3	78.6	77.6	77.6	75.4	74.1	73.3
35°	1016.0	786.4	211.9	83.1	75.2	69.7	66.2	62.0	57.7	55.5	54.9
37.5°	1025.8	745.6	151.7	76.9	68.1	61.9	55.1	47.8	41.5	39.9	39.9
40°	1043.6	703.5	112.2	72.0	62.4	54.7	44.6	35.0	29.3	28.4	28.4
42.5°	1071.8	659.1	89.5	67.7	57.5	47.4	34.0	25.4	21.2	20.7	20.5
45°	1101.1	610.3	78.2	63.5	52.3	38.9	25.2	18.8	16.4	15.8	15.8
47.5°	1130.5	558.2	72.8	59.6	47.2	30.3	18.8	14.9	13.7	13.7	13.9
50°	1155.3	503.9	68.8	55.3	40.6	22.9	14.9	12.6	12.2	13.0	13.2
52.5°	1161.5	450.5	63.9	49.8	32.5	17.5	12.2	11.1	11.1	11.1	11.1
55°	1157.7	409.1	57.5	43.1	24.1	13.9	10.5	9.8	9.6	9.6	9.6
57.5°	1170.5	384.7	46.1	33.5	17.3	11.3	9.2	8.6	8.3	8.1	8.1
60°	1196.3	368.7	32.9	24.1	13.0	9.4	7.9	7.3	6.8	6.4	6.4
62.5°	1230.5	354.8	24.4	17.9	10.0	7.5	6.6	6.0	5.3	4.9	4.9
65°	1256.8	329.9	18.6	13.3	7.5	6.0	5.1	4.9	3.8	3.4	3.2
67.5°	1216.6	275.4	15.0	9.8	5.6	4.7	3.9	3.8	2.3	1.9	1.9
70°	1043.4	191.8	12.0	7.1	4.1	3.8	3.2	2.4	1.7	1.5	1.5
71°	946.2	160.2	10.9	6.0	3.6	3.6	3.0	2.1	1.5	1.3	1.3
72.5°	786.0	113.7	9.2	4.7	3.2	3.8	3.2	1.9	1.5	1.3	1.1
75°	456.3	47.6	6.4	3.2	2.4	4.5	4.1	1.7	1.1	0.9	0.9
77.5°	137.2	17.5	3.6	2.1	1.9	3.9	4.7	1.5	0.6	0.2	0.2
80°	25.0	7.5	2.3	1.3	1.3	2.4	3.6	0.8	0.0	0.0	0.0
82.5°	8.8	3.8	1.3	0.8	0.6	1.1	1.7	0.0	0.0	0.0	0.0
85°	5.1	2.6	0.8	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.4	0.8	0.0	0.0	0.0	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)