

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: P191039

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL2-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE 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: 4266.7 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

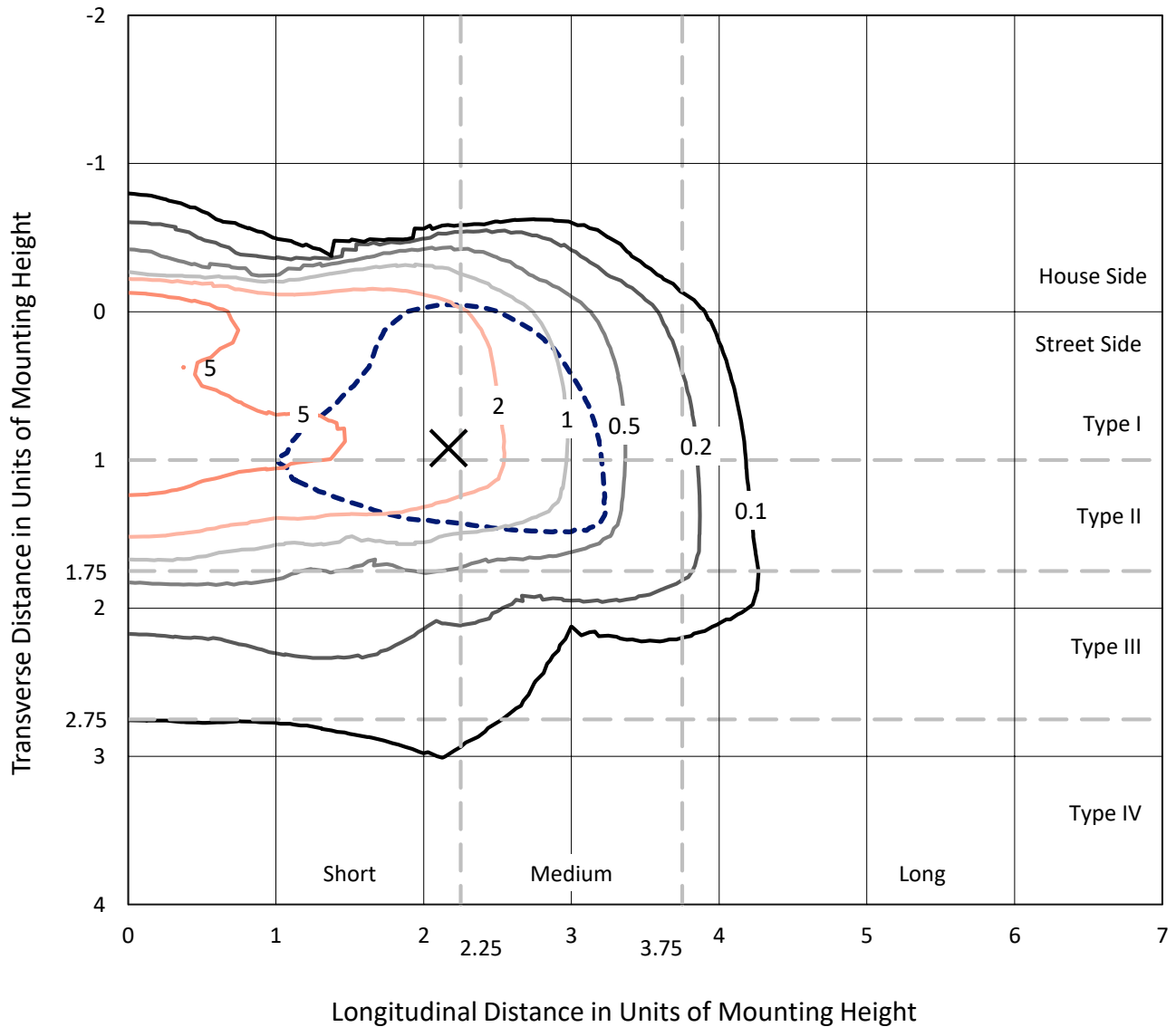
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

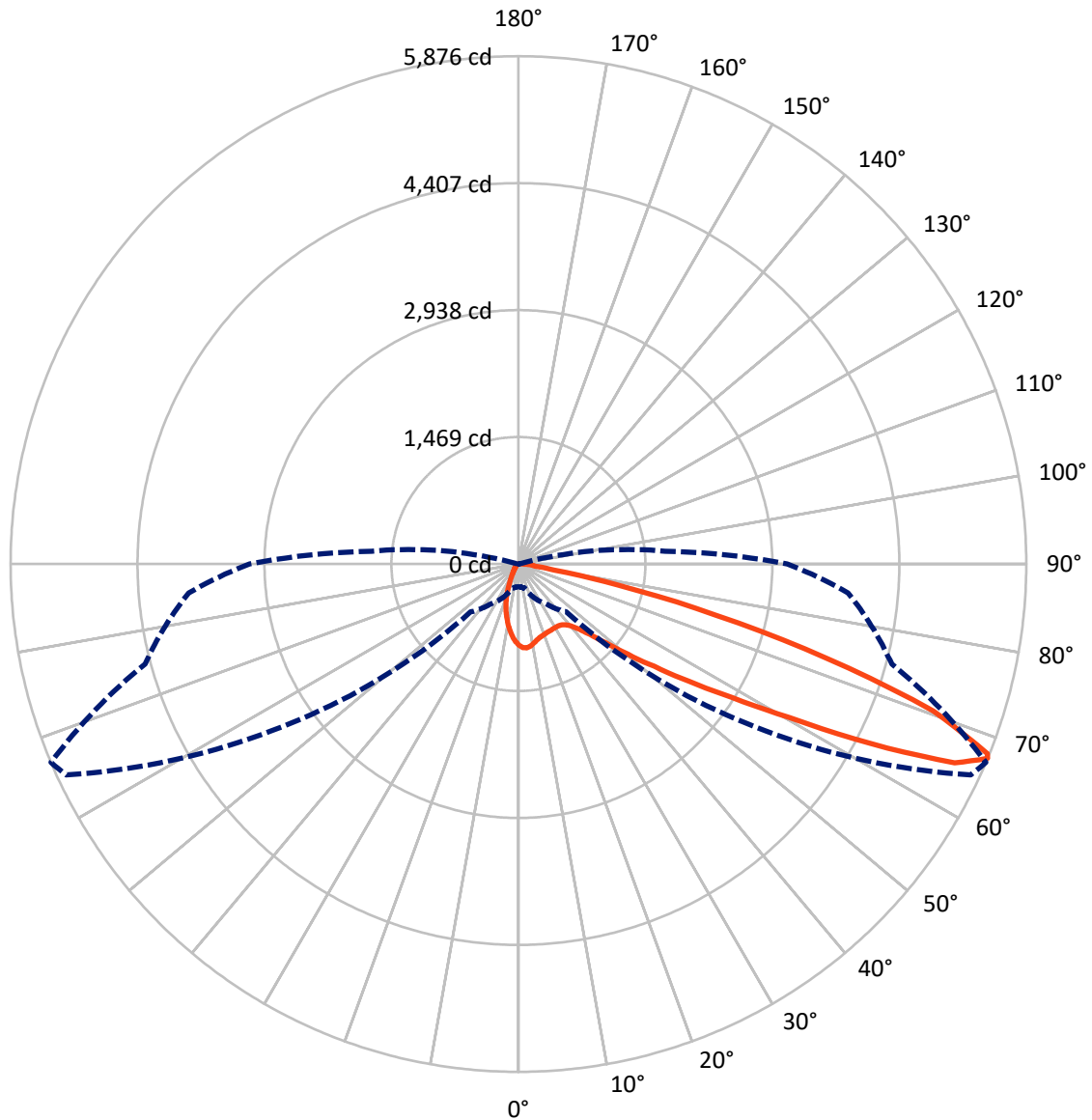
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	443.0	0.0	443.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	3823.7	0.0	3823.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	4266.7	0.0	4266.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	1.8
10°-20°	163.0	3.8
20°-30°	236.9	5.6
30°-40°	369.6	8.7
40°-50°	654.8	15.3
50°-60°	1036.1	24.3
60°-70°	1186.7	27.8
70°-80°	492.2	11.5
80°-90°	50.8	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°	4266.7	100.0
0°-180°	4266.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191039

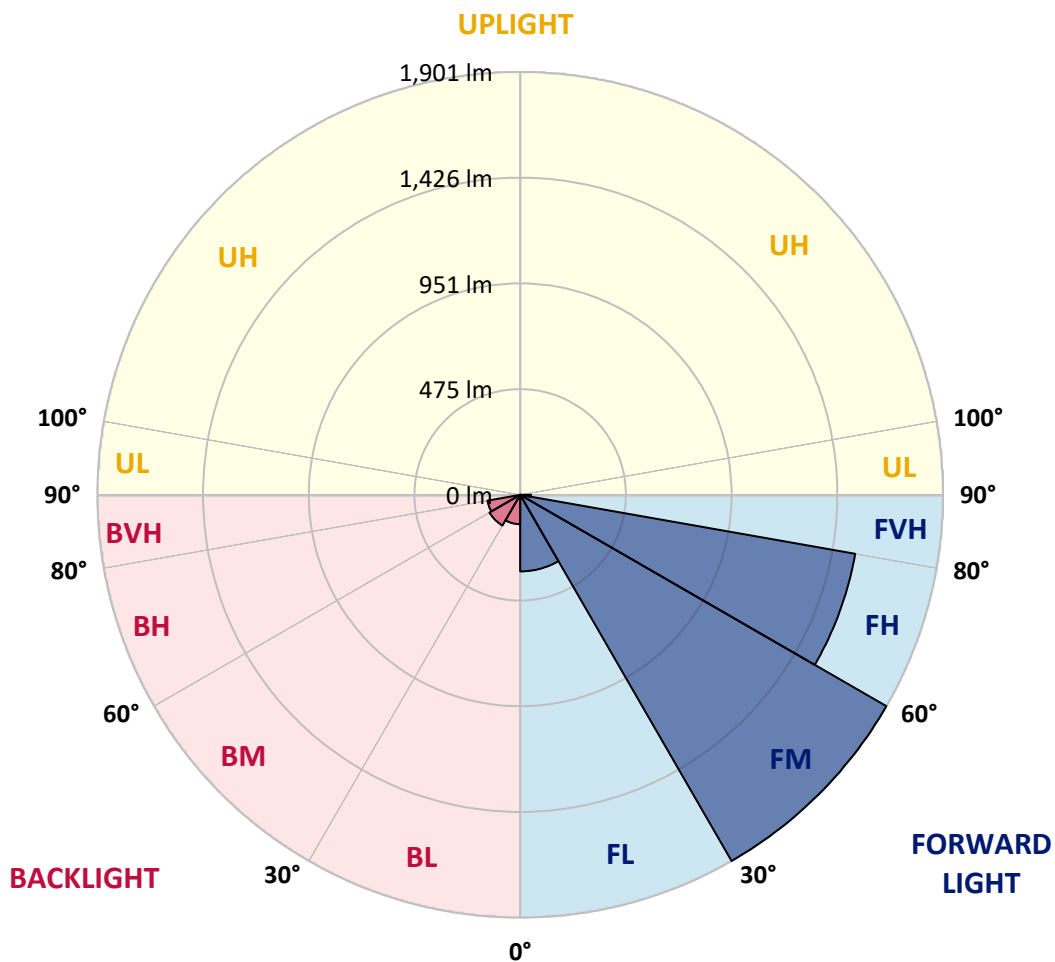
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.3	8.1			
FM	(30°-60°)	1901.3	44.6			
FH	(60°-80°)	1529.6	35.9			G1/1800
FVH	(80°-90°)	48.6	1.1			G1/100
BL	(0°-30°)	132.2	3.1	B1/500		
BM	(30°-60°)	159.2	3.7	B0/220		
BH	(60°-80°)	149.3	3.5	B1/500		G1/500
BVH	(80°-90°)	2.3	0.1			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 II Short





REPORT NUMBER: P191039

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	972.8	974.8	974.6	976.1	979.6	979.8	976.3	969.6	968.1	959.4	944.2
5°	897.1	902.9	906.3	920.6	936.5	955.6	970.1	975.3	974.6	968.3	945.4
7.5°	810.8	816.5	820.5	837.2	858.4	891.2	928.7	959.6	962.4	969.1	944.5
10°	753.3	754.3	759.7	775.7	797.9	831.5	876.3	930.3	938.5	963.1	941.9
12.5°	706.0	706.8	714.0	731.2	754.8	788.7	835.8	898.2	910.8	955.6	941.4
15°	672.5	675.1	681.7	699.6	724.7	758.3	806.6	874.5	889.7	952.9	945.9
17.5°	661.2	664.2	666.2	679.1	702.1	734.9	784.4	859.1	876.3	954.4	954.6
20°	672.9	675.1	670.7	673.9	688.1	717.5	765.8	845.9	866.3	956.2	965.9
22.5°	716.5	717.5	705.3	691.1	688.7	704.8	751.1	835.4	857.3	960.9	979.1
25°	791.2	789.4	769.5	738.9	710.0	702.6	742.4	829.0	852.8	965.9	992.8
27.5°	881.3	883.7	856.3	811.8	756.8	717.5	741.1	826.2	850.9	969.3	1004.6
30°	990.7	994.2	962.9	906.8	828.0	754.3	752.6	825.7	849.7	967.1	1005.7
32.5°	1102.5	1106.7	1082.1	1024.4	923.0	816.0	778.5	831.2	852.1	959.4	999.9
35°	1219.5	1225.4	1209.0	1159.5	1052.0	905.1	824.0	847.9	863.8	958.6	994.2
37.5°	1381.0	1386.4	1355.6	1303.0	1208.0	1024.6	897.1	879.2	891.4	970.6	995.7
40°	1622.1	1621.4	1541.7	1461.4	1379.4	1176.4	999.9	936.0	942.2	1006.7	1014.2
42.5°	1884.9	1883.7	1765.9	1643.8	1569.8	1363.3	1135.1	1034.0	1029.8	1073.1	1061.9
45°	2087.5	2087.2	1991.2	1853.6	1799.1	1577.8	1309.8	1170.5	1163.9	1181.1	1150.0
47.5°	2173.9	2175.4	2127.1	2030.3	2053.2	1868.0	1530.0	1368.0	1358.3	1351.3	1304.1
50°	2106.7	2109.6	2113.6	2094.7	2239.5	2258.0	1825.5	1646.5	1641.7	1610.6	1536.8
52.5°	1887.1	1902.4	1949.1	2009.1	2304.3	2632.3	2288.5	1992.4	1967.0	1934.0	1852.6
55°	1517.3	1534.0	1622.9	1768.5	2207.9	2878.2	2937.6	2438.4	2396.1	2297.3	2179.8
57.5°	1004.2	1030.1	1159.0	1344.2	1928.3	2917.8	3585.2	3057.4	2910.0	2639.5	2507.2
60°	553.2	578.2	718.0	885.8	1392.6	2722.1	4020.7	3863.2	3602.8	3022.0	2904.6
62.5°	340.7	354.1	457.5	613.5	835.2	2148.5	4110.8	4875.8	4574.4	3514.6	3384.6
65°	271.3	277.0	327.5	501.5	598.7	1278.0	3819.9	5647.8	5547.3	4110.8	3814.4
67°	263.3	265.6	289.4	430.6	564.5	783.5	3200.2	5773.5	5875.5	4471.6	3827.9
67.5°	265.0	267.5	290.2	410.9	563.4	720.0	2986.7	5723.9	5852.9	4500.3	3768.3
70°	255.6	263.3	332.3	410.6	535.8	598.3	1788.6	4959.5	5093.6	4181.5	3197.4
72.5°	90.6	91.0	143.6	332.3	582.6	604.8	898.2	3635.7	3735.0	3198.7	2305.2
75°	53.7	45.8	47.8	94.5	556.7	587.4	518.1	2323.2	2360.3	1832.9	1167.4
77.5°	37.0	32.3	33.3	41.8	212.1	579.1	411.6	1211.5	1171.9	642.8	248.6
80°	21.2	18.6	19.9	36.6	77.1	540.3	388.2	491.2	418.8	109.0	68.6
82.5°	11.2	9.4	11.5	30.1	53.7	336.8	389.0	237.4	188.1	36.8	46.7
85°	4.0	3.3	5.5	20.7	35.8	103.3	360.6	199.6	156.8	17.9	35.6
87.5°	0.7	0.7	2.3	8.5	14.4	31.6	213.3	118.5	79.4	10.7	24.3
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: P191039

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	937.9	927.3	912.9	895.2	874.3	855.9	842.2	828.0	825.0	820.0	819.3
5°	931.8	913.4	877.5	836.5	792.7	753.1	721.0	692.3	679.6	668.7	667.5
7.5°	922.6	895.0	833.9	767.7	699.3	637.1	584.3	547.0	512.7	496.2	493.8
10°	911.9	872.3	784.9	693.0	598.5	510.7	432.3	366.6	326.7	303.1	300.1
12.5°	901.9	850.2	734.9	615.7	490.0	372.6	271.8	209.1	167.3	150.3	148.3
15°	897.1	832.2	688.1	536.5	376.5	237.2	148.5	115.0	101.3	97.3	97.1
17.5°	896.7	817.0	642.3	454.7	263.8	137.9	96.8	88.4	85.6	84.6	84.6
20°	896.4	802.6	596.6	369.8	167.5	91.9	80.6	78.7	76.6	75.4	75.4
22.5°	899.2	789.6	548.7	283.3	105.6	74.4	70.9	68.9	66.5	64.8	64.4
25°	901.9	779.7	500.0	201.6	76.4	64.8	61.2	58.5	55.0	52.8	52.5
27.5°	902.4	767.2	447.7	134.9	63.9	56.5	52.0	47.8	43.8	41.5	41.3
30°	895.0	746.3	389.7	91.0	56.5	49.0	43.1	38.6	34.9	33.1	33.1
32.5°	880.2	720.5	326.0	68.6	50.2	42.0	35.6	31.4	28.8	28.1	27.8
35°	867.1	692.6	260.5	58.2	45.0	35.6	29.2	26.4	24.9	24.7	24.3
37.5°	859.4	670.2	199.1	52.8	40.1	29.9	24.7	22.6	21.9	21.4	21.7
40°	865.3	651.5	147.1	48.3	35.1	24.9	20.9	19.9	19.1	18.9	18.9
42.5°	891.4	648.3	109.3	44.3	30.4	20.7	18.2	17.4	16.9	16.7	16.9
45°	960.1	668.2	84.9	40.6	25.7	17.4	15.4	15.1	14.9	14.9	14.9
47.5°	1063.5	709.3	70.7	36.3	21.4	14.9	13.4	13.2	13.0	13.2	13.2
50°	1238.4	784.4	63.2	32.1	17.7	12.7	11.5	11.5	11.5	11.5	11.7
52.5°	1504.5	932.2	58.2	27.8	14.4	10.7	9.7	9.7	9.9	9.9	10.2
55°	1800.8	1128.4	53.7	23.6	12.2	9.0	8.0	8.2	8.5	8.7	8.7
57.5°	2122.3	1345.6	50.0	19.4	10.4	7.3	6.8	7.0	7.3	7.7	7.7
60°	2510.3	1580.8	44.5	15.1	8.7	5.7	5.2	5.7	6.4	7.0	7.3
62.5°	2936.4	1808.3	37.5	12.0	7.3	4.5	4.2	5.2	6.2	6.8	7.0
65°	3227.6	1879.7	28.8	9.7	5.5	3.3	3.5	4.7	5.9	6.8	6.8
67°	3109.6	1704.2	23.6	8.2	4.5	2.5	3.3	4.7	5.9	6.4	6.8
67.5°	3027.7	1635.6	22.6	8.0	4.2	2.5	3.3	4.7	5.9	6.8	6.8
70°	2463.6	1228.7	18.9	5.9	3.5	2.3	2.8	4.5	5.7	6.4	6.4
72.5°	1711.7	757.6	16.9	4.2	3.0	1.9	2.5	4.2	5.5	6.2	6.4
75°	813.8	274.3	14.4	3.3	2.8	1.7	2.3	4.2	5.5	6.2	6.2
77.5°	166.0	63.7	11.7	2.8	2.3	1.7	1.9	4.0	5.2	5.9	5.9
80°	54.5	24.7	8.7	2.5	2.3	1.7	1.9	3.7	5.2	5.7	5.9
82.5°	39.3	12.5	5.7	2.5	2.3	1.7	1.7	3.7	5.0	5.7	5.7
85°	30.1	8.7	3.7	2.5	2.3	1.7	1.7	3.5	4.7	5.5	5.5
87.5°	19.9	3.5	3.0	2.5	2.3	1.7	1.7	3.5	4.5	5.2	5.5
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)