

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: P191079

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5046.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 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 - G2

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

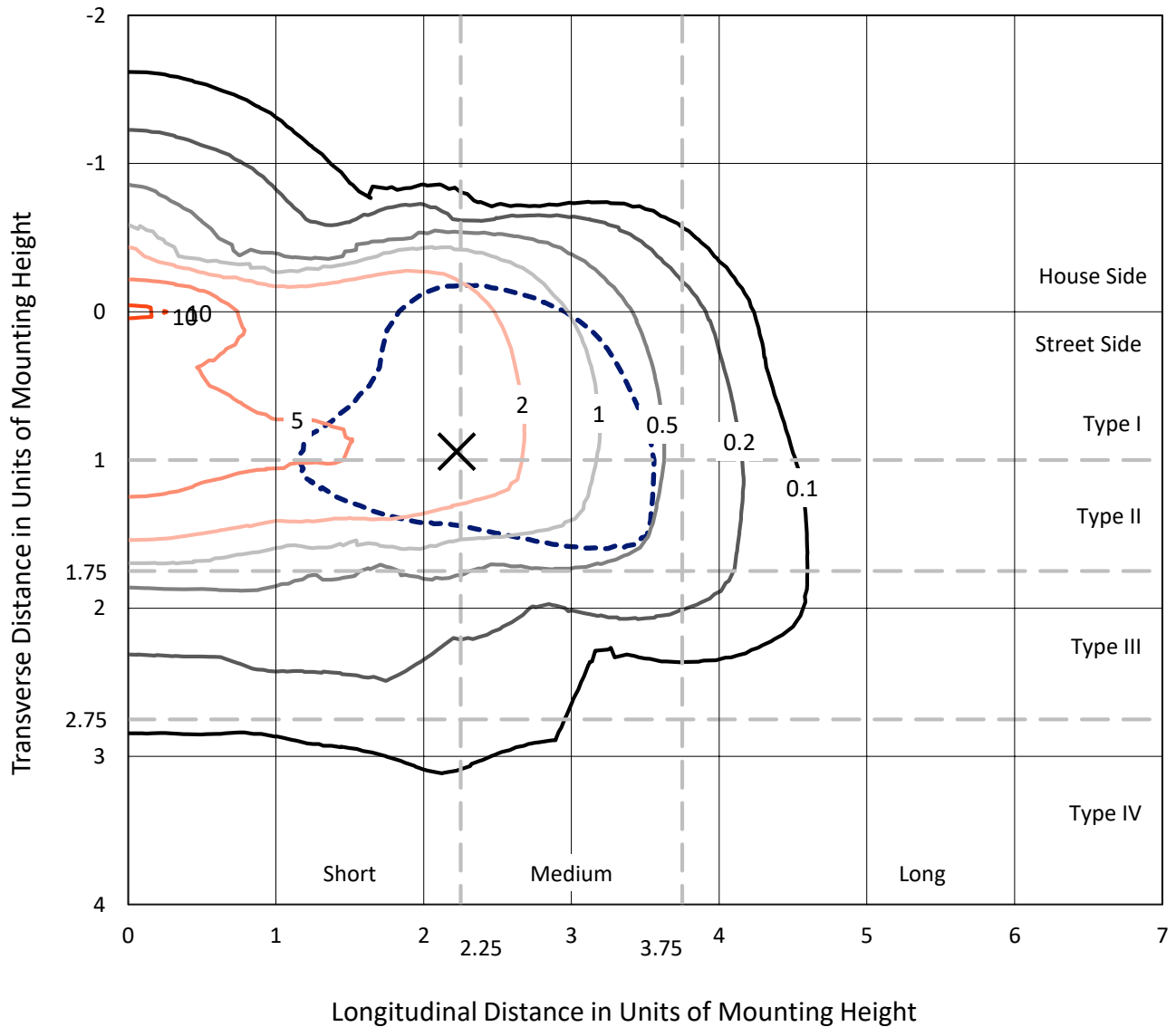


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### Iso-Footcandle Lines of Horizontal Illumination

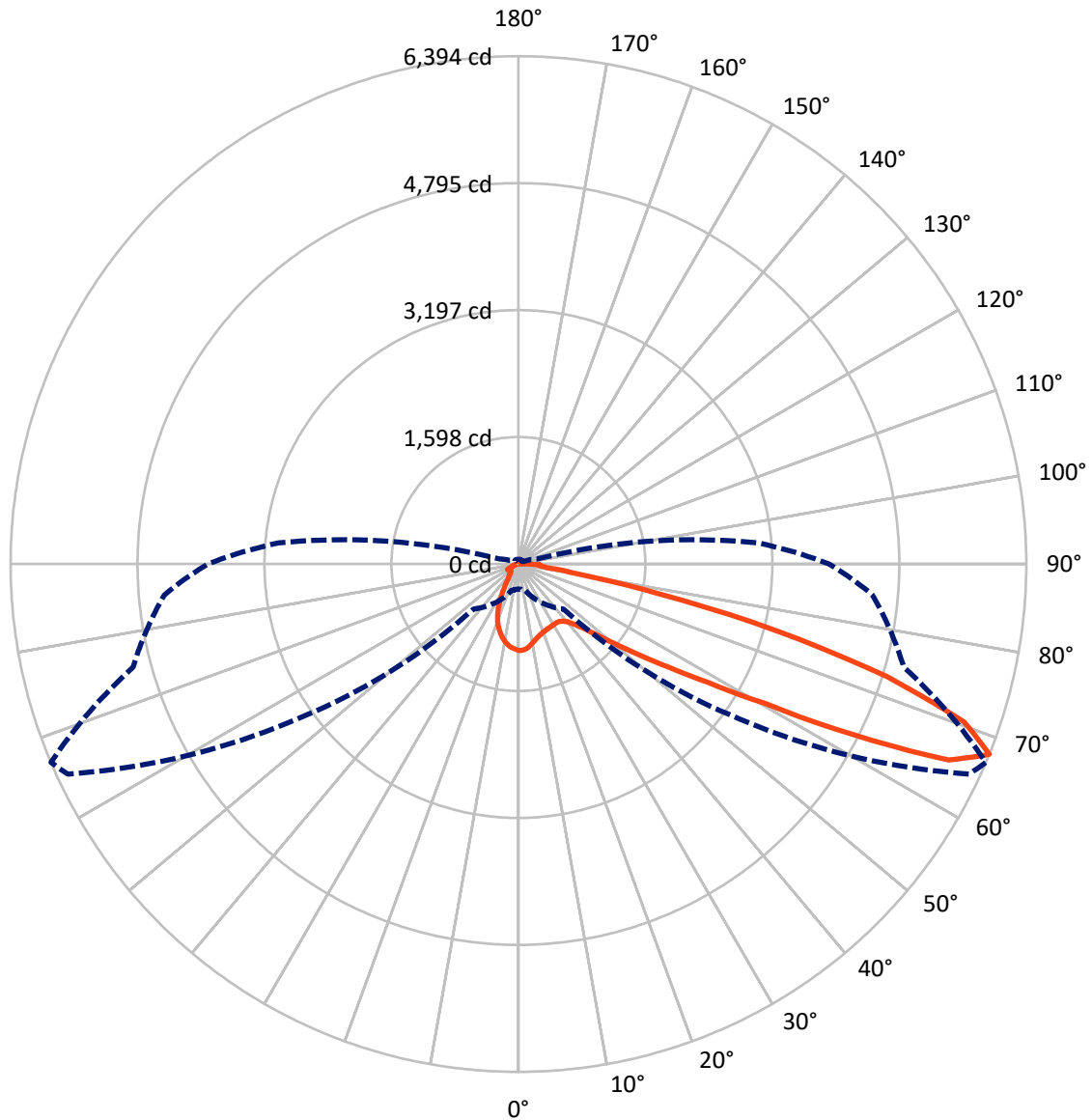
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	836.1	0.0	836.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4210.1	0.0	4210.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	5046.2	0.0	5046.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	1.8
10°-20°	214.9	4.3
20°-30°	291.3	5.8
30°-40°	414.1	8.2
40°-50°	692.7	13.7
50°-60°	1095.9	21.7
60°-70°	1396.1	27.7
70°-80°	731.2	14.5
80°-90°	117.3	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°	5046.2	100.0
0°-180°	5046.2	100.0



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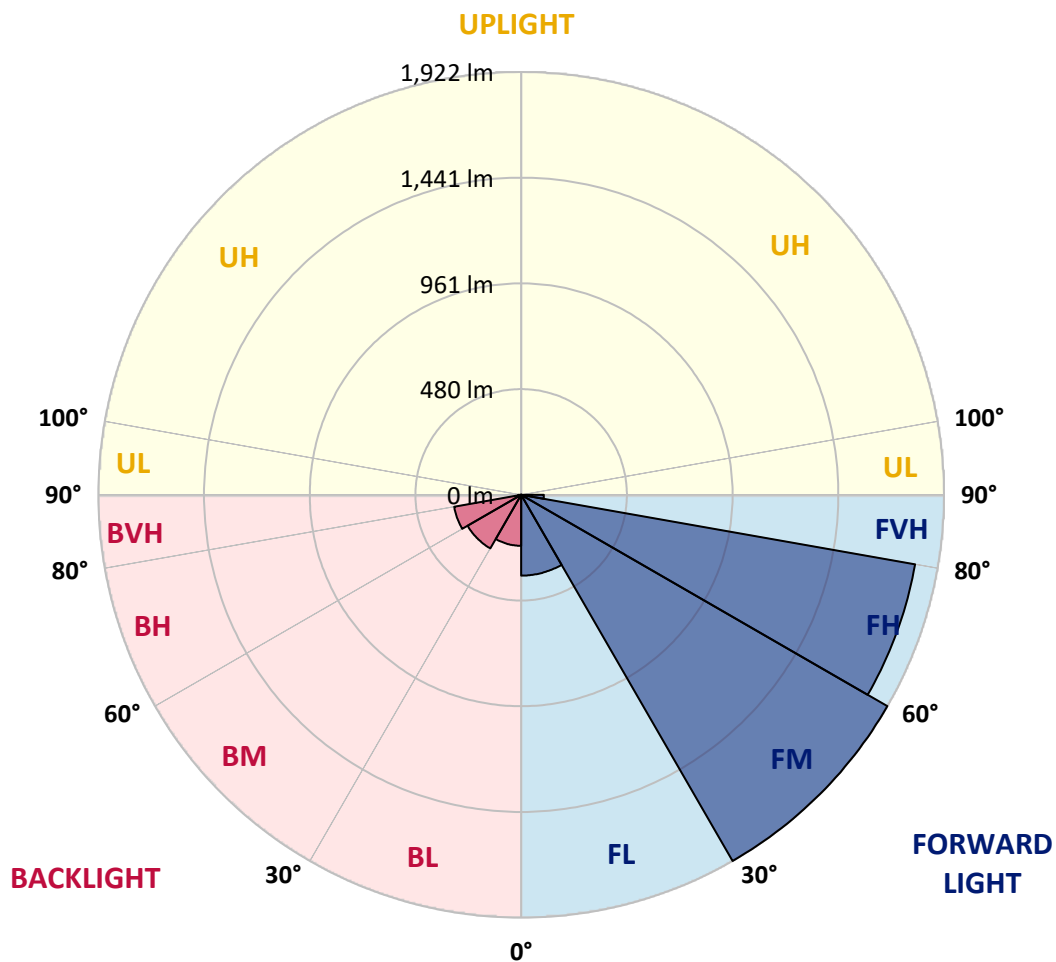
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.2	7.3			
FM (30°-60°)	1921.7	38.1			
FH (60°-80°)	1818.0	36.0			G2/5000
FVH (80°-90°)	103.1	2.0			G2/225
BL (0°-30°)	231.7	4.6	B1/500		
BM (30°-60°)	281.0	5.6	B1/1000		
BH (60°-80°)	309.3	6.1	B1/500		G1/500
BVH (80°-90°)	14.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1043.6	1045.5	1050.9	1054.4	1070.0	1076.8	1081.5	1086.2	1087.0	1089.2	1087.0
5°	934.2	937.9	948.1	959.5	989.9	1013.8	1038.9	1065.1	1069.8	1086.7	1091.5
7.5°	849.4	848.3	856.8	870.4	901.5	934.7	978.8	1030.7	1041.0	1079.0	1097.4
10°	787.4	786.6	795.5	809.8	839.3	870.7	920.5	991.6	1006.1	1066.8	1103.2
12.5°	741.5	741.8	750.7	766.5	796.6	828.2	878.7	953.8	972.2	1052.6	1109.1
15°	711.2	713.2	720.4	737.0	766.5	798.0	847.6	925.5	946.1	1041.5	1115.8
17.5°	701.0	704.2	706.8	718.9	744.1	775.7	824.2	904.6	926.5	1033.7	1121.8
20°	710.4	714.2	709.4	713.7	729.6	757.5	805.8	888.1	910.5	1025.0	1122.6
22.5°	751.1	754.5	740.6	728.3	727.4	744.3	790.5	875.2	898.4	1018.6	1122.8
25°	822.5	824.7	801.3	772.9	745.3	739.6	779.9	866.2	890.9	1012.8	1118.1
27.5°	910.0	911.8	884.9	843.1	787.6	750.7	776.1	861.0	886.6	1007.8	1110.1
30°	1016.5	1024.8	988.7	935.9	855.1	783.9	783.6	858.3	881.9	999.3	1094.5
32.5°	1125.6	1129.0	1104.2	1050.7	945.8	842.1	804.6	860.3	880.7	989.2	1074.5
35°	1236.0	1240.5	1224.4	1181.3	1070.0	927.4	845.4	872.0	888.4	985.7	1060.6
37.5°	1379.1	1385.1	1362.7	1313.0	1221.1	1043.2	913.3	901.3	912.1	995.6	1056.4
40°	1605.3	1602.6	1537.1	1462.9	1386.3	1191.2	1010.4	951.1	957.3	1027.8	1069.3
42.5°	1868.6	1861.9	1749.1	1632.7	1568.0	1370.4	1138.7	1037.5	1036.2	1091.0	1114.8
45°	2078.6	2073.1	1971.6	1828.0	1776.3	1574.4	1304.7	1166.1	1156.9	1191.2	1198.9
47.5°	2192.4	2192.6	2134.1	2017.0	2015.6	1833.7	1518.0	1352.2	1336.3	1352.4	1344.3
50°	2152.5	2157.7	2151.6	2114.2	2234.1	2173.7	1796.4	1611.8	1579.6	1595.6	1564.0
52.5°	1959.9	1966.6	2003.4	2060.7	2326.0	2584.5	2205.5	1934.3	1897.0	1891.2	1856.1
55°	1618.5	1626.7	1701.9	1857.4	2249.6	2860.5	2851.1	2345.4	2285.9	2231.9	2216.9
57.5°	1115.6	1129.2	1250.3	1481.1	2002.4	2943.8	3619.7	2931.4	2810.5	2621.8	2625.3
60°	628.8	644.8	787.4	997.2	1503.7	2853.3	4204.5	3819.1	3563.8	3078.5	3104.3
62.5°	399.9	417.1	525.3	692.7	902.3	2365.6	4444.1	5053.1	4728.8	3641.4	3666.8
65°	323.8	331.2	382.3	571.8	655.2	1425.2	4262.2	6069.6	5948.7	4355.8	4237.4
67.5°	316.0	318.5	344.9	480.1	628.3	801.1	3399.8	6259.7	6393.9	5023.0	4475.0
70°	312.3	321.0	388.7	458.1	601.7	675.7	2043.0	5738.7	5950.4	5197.4	4158.7
72.5°	151.5	151.1	195.6	414.3	677.9	700.7	1049.6	4643.3	4855.7	4502.9	3417.4
75°	122.1	111.7	106.8	151.8	651.7	723.6	668.9	3195.0	3348.7	3019.0	2100.7
77.5°	116.0	103.5	94.8	95.0	275.5	767.4	566.6	1768.3	1813.1	1363.7	575.6
80°	96.1	84.6	78.4	88.4	133.4	730.9	612.6	800.3	734.4	334.9	191.6
82.5°	66.7	60.8	59.0	74.2	106.8	520.9	712.5	430.0	360.6	167.8	118.3
85°	42.6	36.3	40.3	54.0	83.2	240.4	733.9	335.2	266.5	106.5	66.7
87.5°	19.6	16.0	19.9	29.9	54.2	82.9	698.3	376.5	274.5	56.3	42.0
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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1088.9	1084.2	1080.5	1073.5	1065.8	1058.3	1051.6	1043.2	1040.6	1038.4	1041.9
5°	1092.4	1087.7	1074.0	1052.6	1029.0	1006.8	984.7	965.8	954.1	947.6	951.3
7.5°	1097.6	1091.0	1062.5	1023.3	980.7	941.9	901.8	869.7	846.1	834.9	838.1
10°	1102.4	1089.4	1043.2	984.2	922.0	864.3	801.1	748.8	709.9	689.6	694.5
12.5°	1104.4	1083.7	1016.0	935.4	850.1	765.5	672.4	594.2	538.5	518.1	513.8
15°	1106.4	1077.3	986.2	879.9	763.2	643.5	513.1	419.5	373.3	363.0	360.8
17.5°	1106.8	1066.0	952.4	819.7	661.4	498.5	350.9	291.4	291.6	308.1	310.1
20°	1101.6	1049.3	911.2	744.8	539.5	344.6	240.9	230.7	268.2	309.3	314.3
22.5°	1089.7	1027.2	864.7	657.5	399.9	227.0	186.4	197.6	246.1	296.3	302.1
25°	1074.5	1000.3	809.8	556.2	264.7	162.2	156.3	169.9	202.9	236.4	239.7
27.5°	1053.8	968.5	748.1	440.2	172.0	133.6	137.6	146.8	160.3	175.2	176.7
30°	1027.2	930.5	682.1	321.0	129.9	120.2	125.9	130.9	136.7	145.1	145.9
32.5°	996.7	893.9	614.4	221.7	115.2	113.2	117.7	120.2	124.7	129.9	130.4
35°	971.0	859.0	544.2	156.8	108.9	108.0	111.0	112.0	116.2	121.9	122.4
37.5°	956.4	830.6	471.8	126.4	104.8	103.3	105.1	105.1	111.0	119.5	120.7
40°	957.3	815.0	399.4	114.3	101.3	99.3	99.5	99.5	107.2	116.4	117.2
42.5°	984.5	819.0	335.2	109.5	98.5	96.3	95.0	95.9	102.3	108.2	108.7
45°	1048.1	847.1	275.0	106.5	95.9	95.0	92.4	92.1	94.5	97.3	97.3
47.5°	1152.7	902.5	234.2	104.5	93.6	93.3	90.1	86.8	86.6	87.6	87.6
50°	1322.6	998.1	206.8	102.3	92.1	90.1	86.3	81.3	79.6	80.4	80.4
52.5°	1577.4	1168.6	196.3	99.3	88.8	85.6	81.3	76.4	74.9	75.2	75.2
55°	1911.7	1430.4	194.9	95.9	85.3	80.1	76.6	72.9	71.2	71.7	71.7
57.5°	2320.0	1792.4	221.5	90.3	80.6	74.7	72.6	70.2	68.9	69.7	69.5
60°	2816.5	2266.2	328.5	84.6	75.9	69.7	69.7	67.7	66.7	67.4	67.2
62.5°	3388.3	2810.5	461.9	80.4	70.9	65.7	66.7	65.7	64.7	65.2	65.0
65°	3895.5	3165.1	432.5	77.1	66.0	62.0	63.7	63.2	62.5	62.9	62.7
67.5°	3910.1	3033.7	242.8	73.7	61.2	58.2	60.8	60.5	59.9	60.5	60.3
70°	3489.6	2561.7	136.9	67.2	56.3	53.7	57.3	57.0	56.5	57.5	57.3
72.5°	2795.8	1858.9	100.0	59.2	51.2	49.0	53.0	52.8	52.8	54.2	53.5
75°	1608.8	956.6	79.9	50.7	46.0	44.3	47.8	48.0	48.5	50.5	49.0
77.5°	458.6	298.1	65.2	43.1	39.6	38.8	42.4	42.8	43.1	45.3	43.3
80°	170.4	137.4	53.7	36.1	32.3	32.6	35.8	36.6	36.8	39.1	36.6
82.5°	108.7	90.5	43.6	27.8	25.4	25.2	29.2	30.1	30.1	30.4	28.8
85°	63.4	54.2	32.8	20.2	17.9	17.2	21.7	23.4	22.6	22.2	21.2
87.5°	42.6	37.3	20.2	11.2	9.7	9.2	12.7	13.9	13.4	12.7	12.0
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)