

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: P191850

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191850
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-02-LED-E1-SL2-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES 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: 10087 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

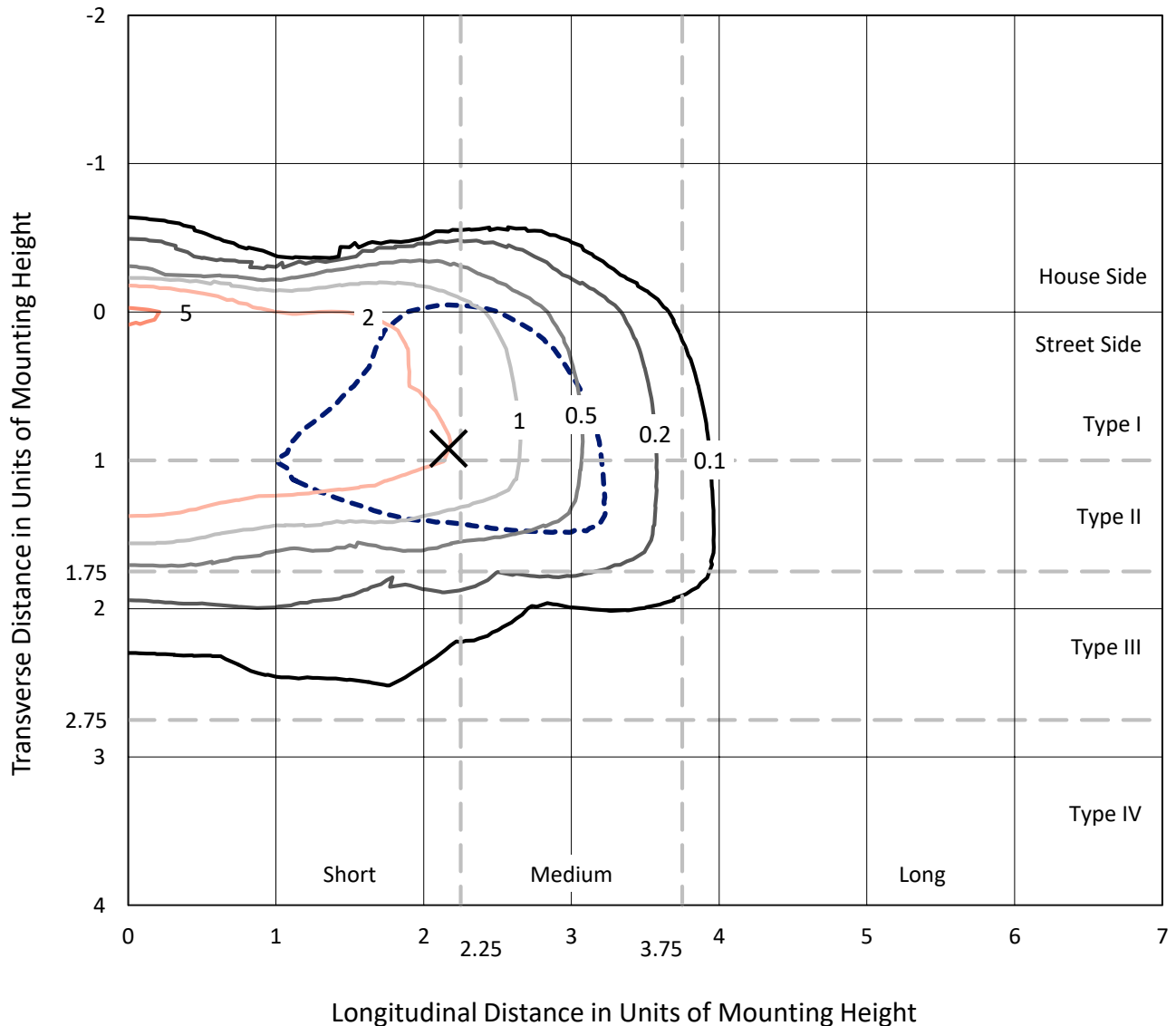


REPORT NUMBER: P191850

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

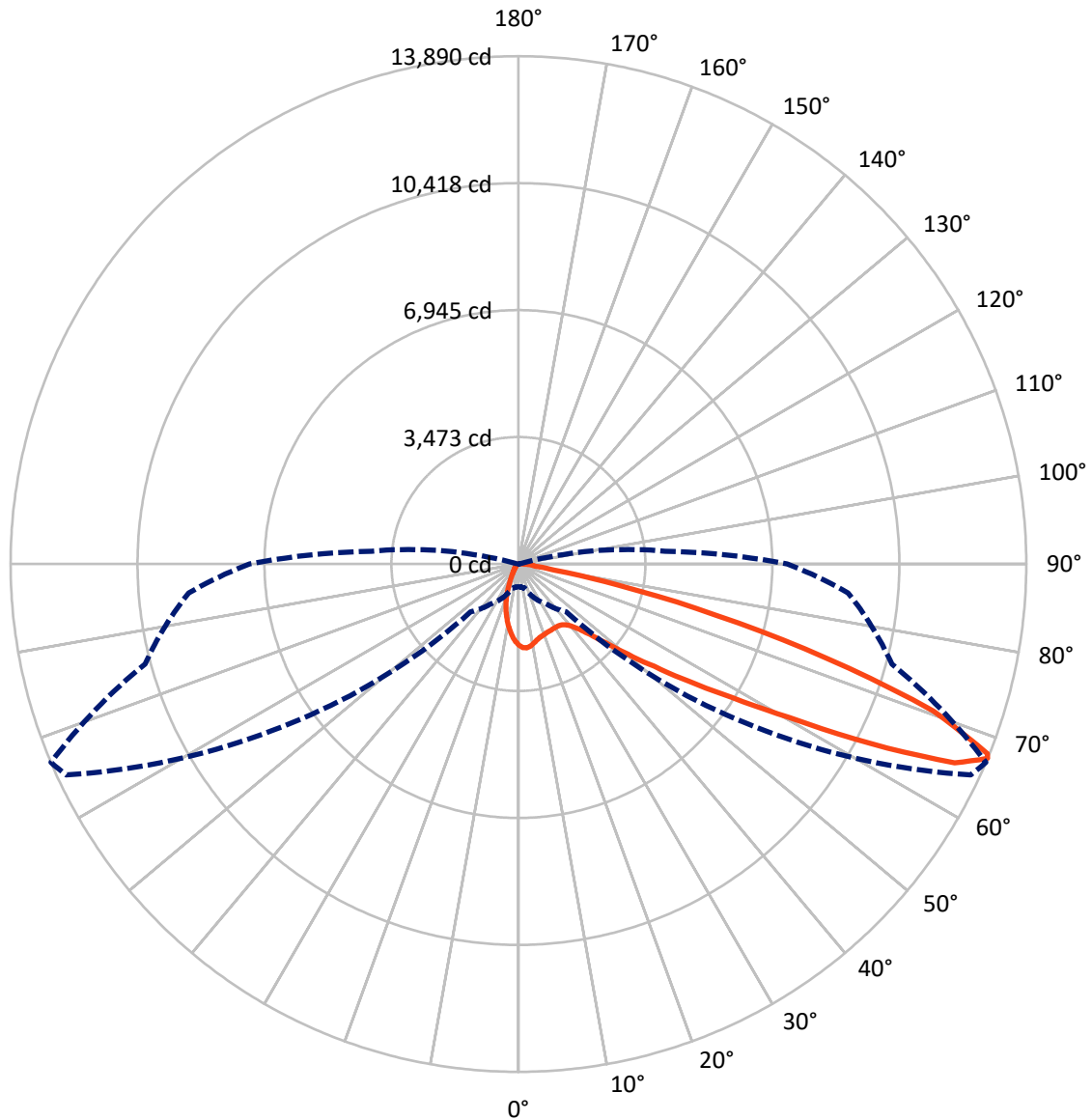
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191850
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7050-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191850

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7050-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.3	0.0	1047.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9039.7	0.0	9039.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	10087.0	0.0	10087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.8
10°-20°	385.3	3.8
20°-30°	560.1	5.6
30°-40°	873.8	8.7
40°-50°	1547.9	15.3
50°-60°	2449.5	24.3
60°-70°	2805.5	27.8
70°-80°	1163.7	11.5
80°-90°	120.2	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°	10087.0	100.0
0°-180°	10087.0	100.0



REPORT NUMBER: P191850

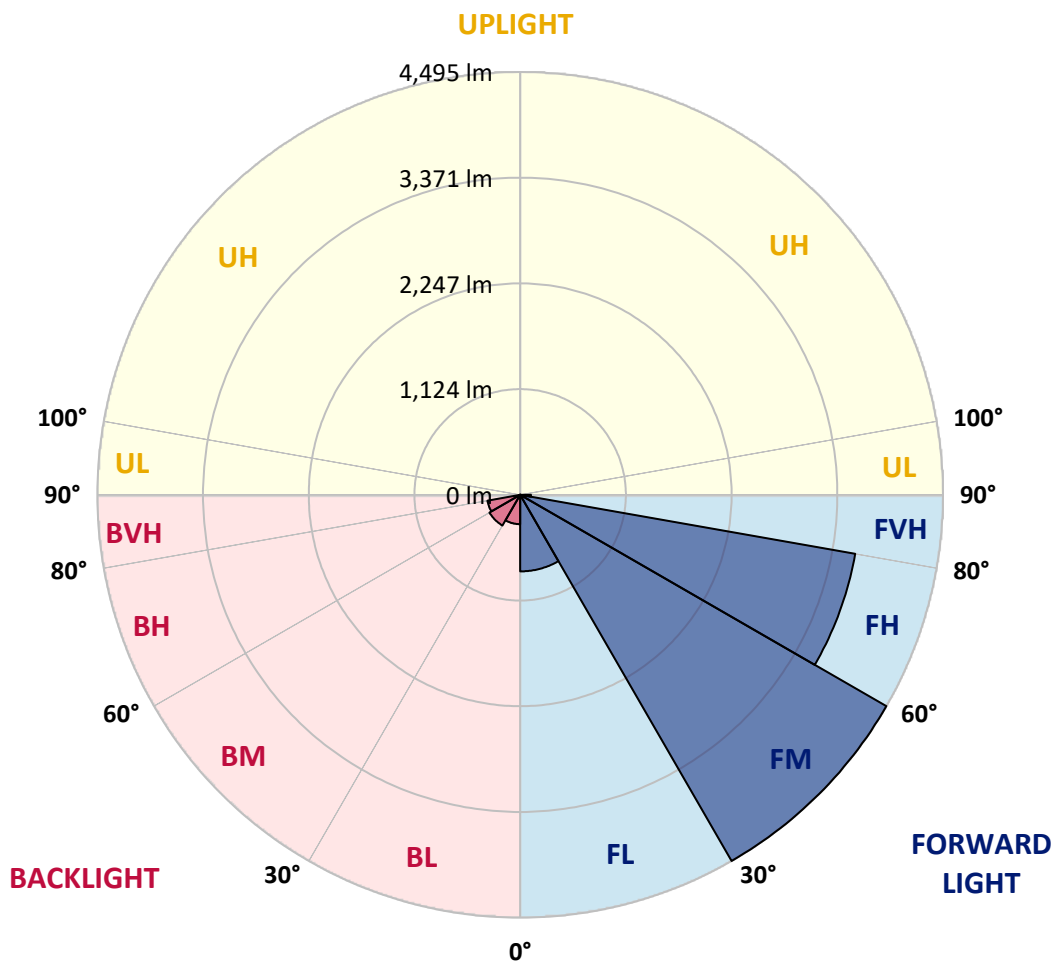
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.9	8.1			
FM (30°-60°)	4494.8	44.6			
FH (60°-80°)	3616.2	35.9			G2/5000
FVH (80°-90°)	114.8	1.1			G2/225
BL (0°-30°)	312.5	3.1	B1/500		
BM (30°-60°)	376.4	3.7	B1/1000		
BH (60°-80°)	353.0	3.5	B1/500		G1/500
BVH (80°-90°)	5.4	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-G2

Type II Short





REPORT NUMBER: P191850

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
2.5°	2299.9	2304.6	2304.0	2307.5	2315.8	2316.3	2308.1	2292.2	2288.7	2268.1	2232.2
5°	2121.0	2134.5	2142.8	2176.3	2214.0	2259.3	2293.4	2305.7	2304.0	2289.3	2235.1
7.5°	1916.8	1930.4	1939.8	1979.2	2029.2	2106.9	2195.7	2268.7	2275.2	2291.0	2232.8
10°	1780.9	1783.3	1796.2	1833.9	1886.3	1965.7	2071.6	2199.3	2218.7	2276.9	2226.9
12.5°	1669.2	1670.9	1688.0	1728.6	1784.5	1864.5	1975.7	2123.4	2153.4	2259.3	2225.7
15°	1589.7	1596.2	1611.5	1653.9	1713.3	1792.7	1906.8	2067.5	2103.4	2252.8	2236.3
17.5°	1563.2	1570.3	1575.0	1605.6	1659.7	1737.4	1854.5	2031.0	2071.6	2256.3	2256.9
20°	1590.9	1596.2	1585.6	1593.3	1626.8	1696.2	1810.4	1999.8	2048.1	2260.4	2283.4
22.5°	1693.9	1696.2	1667.4	1633.9	1628.0	1666.2	1775.6	1975.1	2026.9	2271.6	2314.6
25°	1870.4	1866.3	1819.2	1746.8	1678.6	1660.9	1755.1	1959.8	2016.3	2283.4	2346.9
27.5°	2083.4	2089.2	2024.5	1919.2	1789.2	1696.2	1752.1	1953.3	2011.6	2291.6	2375.2
30°	2342.2	2350.5	2276.3	2144.0	1957.4	1783.3	1779.2	1952.1	2008.6	2286.3	2377.5
32.5°	2606.4	2616.4	2558.2	2421.7	2182.2	1929.2	1840.4	1965.1	2014.5	2268.1	2364.0
35°	2882.9	2897.0	2858.2	2741.1	2487.0	2139.8	1948.0	2004.5	2042.2	2266.3	2350.5
37.5°	3264.8	3277.7	3204.7	3080.6	2855.9	2422.2	2121.0	2078.6	2107.5	2294.6	2354.0
40°	3834.9	3833.1	3644.8	3454.8	3261.2	2781.1	2364.0	2212.8	2227.5	2379.9	2397.5
42.5°	4456.2	4453.2	4174.9	3886.1	3711.3	3223.0	2683.5	2444.6	2434.6	2537.0	2510.5
45°	4935.1	4934.5	4707.4	4382.0	4253.2	3730.1	3096.5	2767.0	2751.7	2792.3	2718.8
47.5°	5139.2	5142.8	5028.6	4799.8	4853.9	4416.2	3617.2	3234.2	3211.2	3194.7	3083.0
50°	4980.4	4987.5	4996.9	4952.2	5294.6	5338.1	4315.6	3892.5	3881.4	3807.8	3633.1
52.5°	4461.5	4497.4	4608.0	4749.8	5447.5	6223.0	5410.5	4710.3	4650.3	4572.1	4379.7
55°	3587.2	3626.6	3836.6	4180.8	5219.9	6804.3	6944.9	5764.7	5664.6	5431.1	5153.4
57.5°	2374.0	2435.2	2740.0	3177.7	4558.5	6897.8	8475.8	7227.9	6879.6	6240.1	5927.1
60°	1307.9	1366.7	1697.4	2093.9	3292.4	6435.4	9505.4	9133.0	8517.6	7144.3	6866.6
62.5°	805.5	837.2	1081.4	1450.3	1974.5	5079.2	9718.4	11527.0	10814.5	8308.7	8001.6
65°	641.3	654.8	774.3	1185.5	1415.6	3021.2	9030.6	13352.0	13114.3	9718.4	9017.7
67°	622.5	627.8	684.3	1017.8	1334.4	1852.1	7565.6	13649.2	13890.4	10571.5	9049.4
67.5°	626.6	632.5	686.0	971.4	1332.0	1702.1	7060.8	13532.1	13836.8	10639.2	8908.8
70°	604.2	622.5	785.4	970.8	1266.7	1414.4	4228.5	11724.7	12041.8	9885.5	7559.1
72.5°	214.2	215.3	339.5	785.4	1377.3	1429.7	2123.4	8595.2	8830.0	7562.1	5449.9
75°	127.1	108.3	113.0	223.6	1316.1	1388.5	1224.9	5492.3	5579.9	4333.2	2760.0
77.5°	87.7	76.5	78.8	98.8	501.3	1369.1	973.1	2864.1	2770.5	1519.7	587.8
80°	50.0	44.1	47.1	86.5	182.4	1277.3	917.8	1161.4	990.2	257.7	162.4
82.5°	26.5	22.4	27.1	71.2	127.1	796.0	919.6	561.3	444.8	87.1	110.6
85°	9.4	7.6	12.9	48.8	84.7	244.2	852.5	471.9	370.7	42.4	84.1
87.5°	1.8	1.8	5.3	20.0	34.1	74.7	504.2	280.1	187.7	25.3	57.7
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°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
2.5°	2217.5	2192.2	2158.1	2116.3	2066.9	2023.3	1991.0	1957.4	1950.4	1938.6	1936.9
5°	2202.8	2159.2	2074.5	1977.4	1873.9	1780.4	1704.5	1636.8	1606.8	1580.9	1578.0
7.5°	2181.0	2115.7	1971.6	1815.1	1653.3	1506.2	1381.4	1293.2	1212.0	1173.2	1167.3
10°	2155.7	2062.2	1855.7	1638.6	1415.0	1207.3	1022.0	866.6	772.5	716.6	709.6
12.5°	2132.2	2009.8	1737.4	1455.6	1158.5	880.8	642.5	494.2	395.4	355.4	350.7
15°	2121.0	1967.4	1626.8	1268.5	890.2	560.7	351.2	271.8	239.5	230.0	229.5
17.5°	2119.8	1931.6	1518.5	1074.9	623.7	325.9	228.9	208.9	202.4	200.0	200.0
20°	2119.2	1897.4	1410.3	874.3	396.0	217.1	190.6	185.9	181.2	178.3	178.3
22.5°	2125.7	1866.8	1297.3	669.5	249.5	175.9	167.7	163.0	157.1	153.0	152.4
25°	2132.2	1843.3	1182.0	476.6	180.6	153.0	144.7	138.3	130.0	124.7	124.1
27.5°	2133.4	1813.9	1058.4	318.9	151.2	133.6	123.0	113.0	103.5	98.3	97.7
30°	2115.7	1764.5	921.4	215.3	133.6	115.9	101.8	91.2	82.4	78.3	78.3
32.5°	2081.0	1703.3	770.7	162.4	118.8	99.4	84.1	74.1	68.2	66.5	65.9
35°	2049.8	1637.4	616.0	137.7	106.5	84.1	68.8	62.4	58.8	58.2	57.7
37.5°	2031.6	1584.4	470.7	124.7	94.7	70.6	58.2	53.5	51.8	50.6	51.2
40°	2045.7	1540.3	347.7	114.1	83.0	58.8	49.4	47.1	45.3	44.7	44.7
42.5°	2107.5	1532.7	258.3	104.7	71.8	48.8	42.9	41.2	40.0	39.4	40.0
45°	2269.9	1579.7	200.6	95.9	60.6	41.2	36.5	35.9	35.3	35.3	35.3
47.5°	2514.0	1676.8	167.1	85.9	50.6	35.3	31.8	31.2	30.6	31.2	31.2
50°	2927.6	1854.5	149.4	75.9	41.8	30.0	27.1	27.1	27.1	27.1	27.7
52.5°	3556.6	2204.0	137.7	65.9	34.1	25.3	22.9	22.9	23.5	23.5	24.1
55°	4257.3	2667.6	127.1	55.9	28.8	21.2	18.8	19.4	20.0	20.6	20.6
57.5°	5017.5	3181.2	118.3	45.9	24.7	17.1	15.9	16.5	17.1	18.2	18.2
60°	5934.7	3737.2	105.3	35.9	20.6	13.5	12.4	13.5	15.3	16.5	17.1
62.5°	6942.0	4275.0	88.8	28.2	17.1	10.6	10.0	12.4	14.7	15.9	16.5
65°	7630.3	4443.8	68.2	22.9	12.9	7.6	8.2	11.2	14.1	15.9	15.9
67°	7351.4	4029.0	55.9	19.4	10.6	5.9	7.6	11.2	14.1	15.3	15.9
67.5°	7157.9	3866.6	53.5	18.8	10.0	5.9	7.6	11.2	14.1	15.9	15.9
70°	5824.1	2904.7	44.7	14.1	8.2	5.3	6.5	10.6	13.5	15.3	15.3
72.5°	4046.7	1790.9	40.0	10.0	7.1	4.7	5.9	10.0	12.9	14.7	15.3
75°	1923.9	648.4	34.1	7.6	6.5	4.1	5.3	10.0	12.9	14.7	14.7
77.5°	392.4	150.6	27.7	6.5	5.3	4.1	4.7	9.4	12.4	14.1	14.1
80°	128.8	58.2	20.6	5.9	5.3	4.1	4.7	8.8	12.4	13.5	14.1
82.5°	93.0	29.4	13.5	5.9	5.3	4.1	4.1	8.8	11.8	13.5	13.5
85°	71.2	20.6	8.8	5.9	5.3	4.1	4.1	8.2	11.2	12.9	12.9
87.5°	47.1	8.2	7.1	5.9	5.3	4.1	4.1	8.2	10.6	12.4	12.9
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)