

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: P191031

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191031
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-03-LED-E1-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 10144.6 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

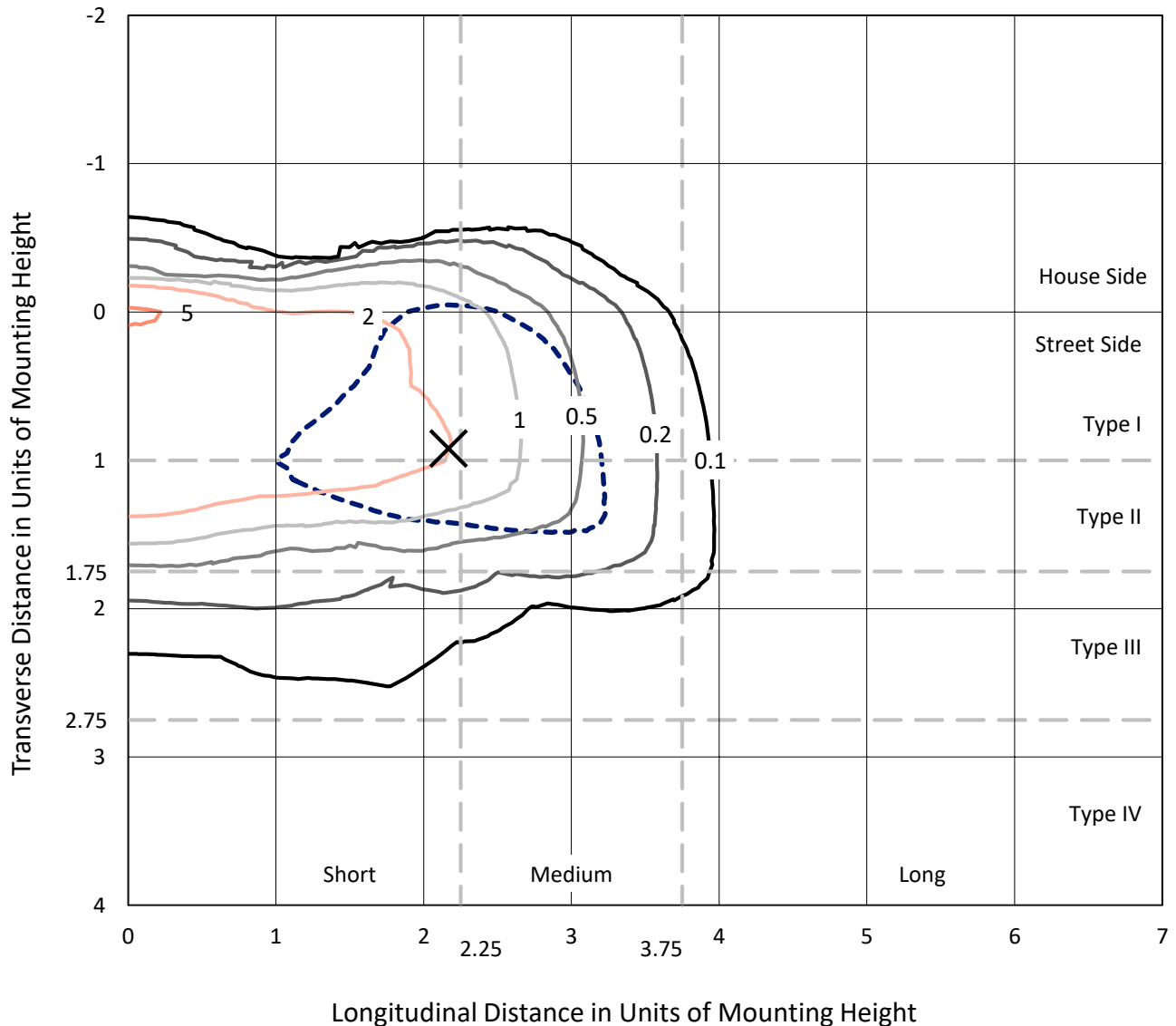


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Iso-Footcandle Lines of Horizontal Illumination

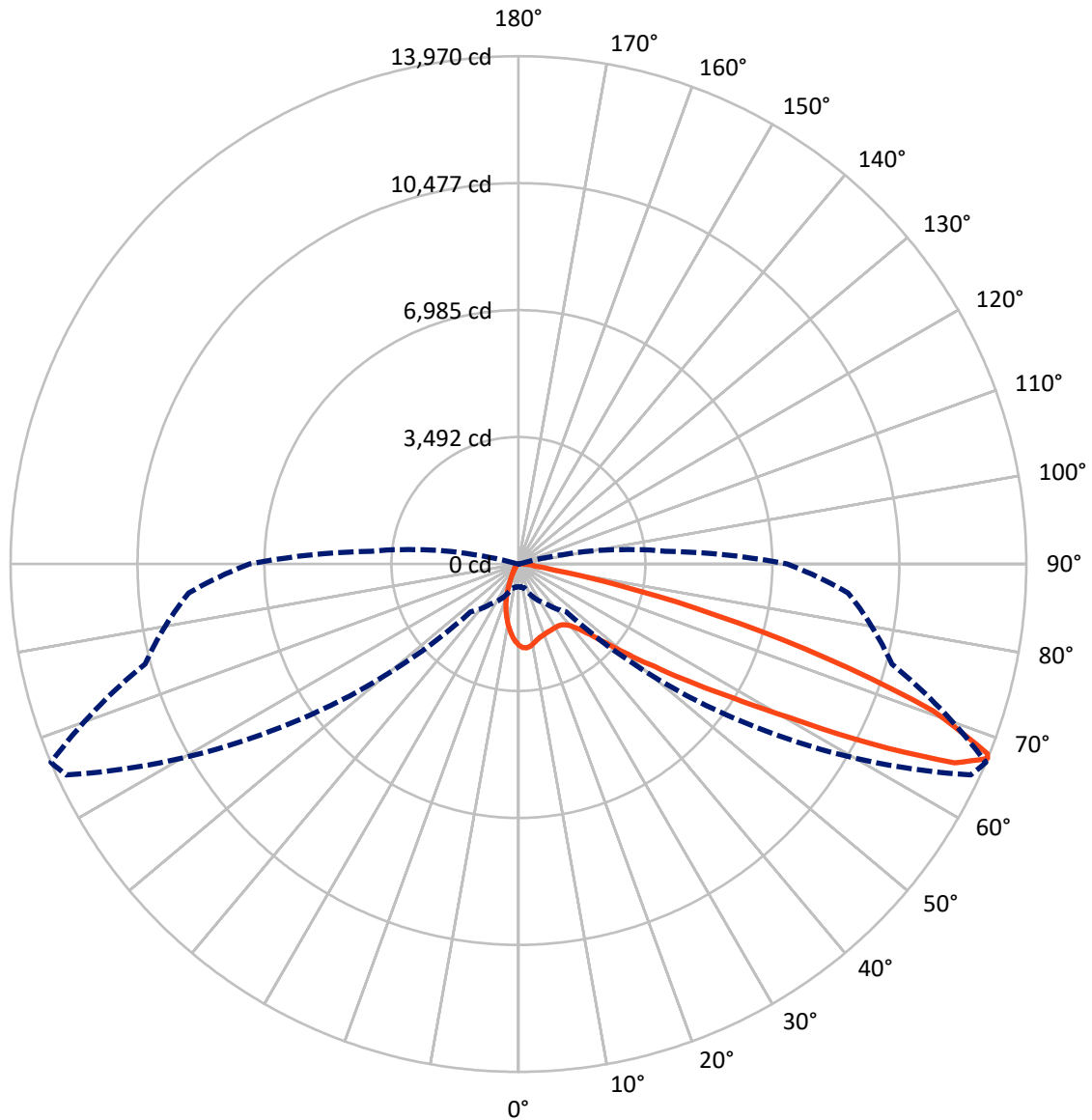
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.3	0.0	1053.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9091.3	0.0	9091.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	10144.6	0.0	10144.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.8
10°-20°	387.5	3.8
20°-30°	563.3	5.6
30°-40°	878.8	8.7
40°-50°	1556.8	15.3
50°-60°	2463.4	24.3
60°-70°	2821.5	27.8
70°-80°	1170.3	11.5
80°-90°	120.9	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°	10144.6	100.0
0°-180°	10144.6	100.0

Coefficient of Utilization



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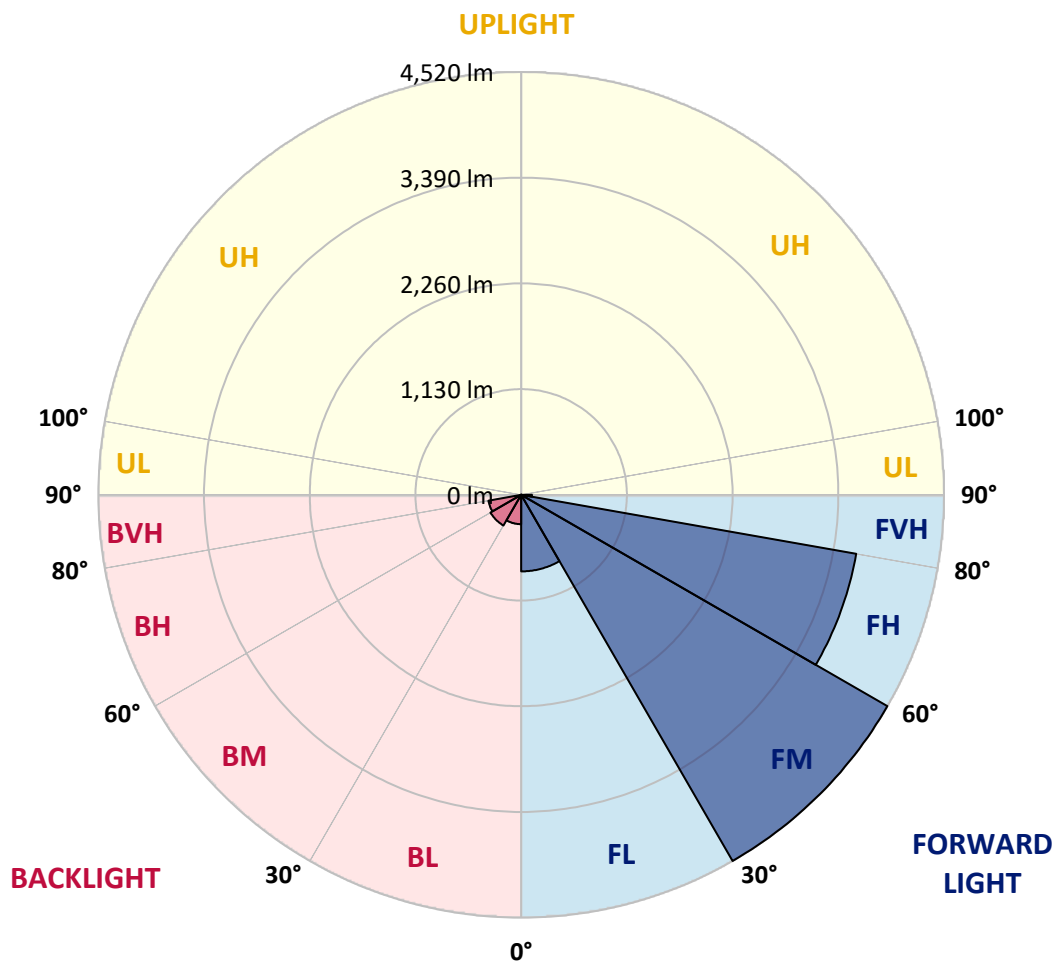
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.5	8.1			
FM (30°-60°)	4520.5	44.6			
FH (60°-80°)	3636.9	35.9			G2/5000
FVH (80°-90°)	115.4	1.1			G2/225
BL (0°-30°)	314.3	3.1	B1/500		
BM (30°-60°)	378.6	3.7	B1/1000		
BH (60°-80°)	355.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2313.0	2317.7	2317.2	2320.7	2329.0	2329.6	2321.3	2305.3	2301.7	2281.1	2245.0
5°	2133.2	2146.8	2155.1	2188.7	2226.7	2272.2	2306.4	2318.9	2317.2	2302.4	2247.9
7.5°	1927.8	1941.4	1950.9	1990.6	2040.8	2118.9	2208.2	2281.6	2288.1	2304.1	2245.6
10°	1791.1	1793.4	1806.5	1844.4	1897.1	1977.0	2083.4	2211.8	2231.4	2289.9	2239.6
12.5°	1678.7	1680.5	1697.6	1738.4	1794.7	1875.2	1987.0	2135.5	2165.7	2272.2	2238.4
15°	1598.8	1605.3	1620.7	1663.3	1723.1	1803.0	1917.7	2079.2	2115.4	2265.6	2249.1
17.5°	1572.2	1579.2	1584.0	1614.8	1669.3	1747.3	1865.0	2042.6	2083.4	2269.2	2269.8
20°	1600.0	1605.3	1594.7	1602.4	1636.1	1705.9	1820.6	2011.2	2059.7	2273.3	2296.4
22.5°	1703.5	1705.9	1676.9	1643.2	1637.2	1675.7	1785.8	1986.4	2038.4	2284.6	2327.8
25°	1881.0	1876.9	1829.5	1756.8	1688.2	1670.4	1765.1	1971.0	2027.8	2296.4	2360.4
27.5°	2095.2	2101.1	2036.1	1930.2	1799.4	1705.9	1762.1	1964.5	2023.1	2304.7	2388.7
30°	2355.7	2363.8	2289.4	2156.2	1968.7	1793.4	1789.3	1963.2	2020.1	2299.4	2391.1
32.5°	2621.3	2631.3	2572.7	2435.4	2194.6	1940.2	1850.8	1976.3	2026.1	2281.1	2377.5
35°	2899.3	2913.6	2874.5	2756.8	2501.1	2152.1	1959.2	2015.9	2053.8	2279.2	2363.8
37.5°	3283.4	3296.5	3223.0	3098.2	2872.1	2436.1	2133.2	2090.5	2119.6	2307.7	2367.4
40°	3856.7	3855.0	3665.6	3474.6	3279.9	2797.1	2377.5	2225.4	2240.3	2393.5	2411.2
42.5°	4481.6	4478.7	4198.8	3908.3	3732.5	3241.4	2698.7	2458.6	2448.5	2551.4	2524.8
45°	4963.3	4962.6	4734.3	4407.1	4277.5	3751.5	3114.2	2782.8	2767.4	2808.3	2734.3
47.5°	5168.6	5172.1	5057.4	4827.2	4881.6	4441.3	3637.8	3252.7	3229.6	3213.0	3100.6
50°	5008.9	5015.9	5025.5	4980.4	5324.8	5368.5	4340.2	3914.7	3903.5	3829.5	3653.8
52.5°	4487.0	4523.1	4634.3	4776.9	5478.6	6258.5	5441.4	4737.3	4676.9	4598.2	4404.7
55°	3607.6	3647.3	3858.6	4204.7	5249.7	6843.1	6984.6	5797.6	5697.0	5462.0	5182.8
57.5°	2387.6	2449.0	2755.6	3195.8	4584.6	6937.2	8524.1	7269.2	6918.8	6275.7	5960.9
60°	1315.4	1374.5	1707.1	2105.9	3311.2	6472.1	9559.7	9185.2	8566.2	7185.1	6905.8
62.5°	810.1	842.0	1087.6	1458.5	1985.8	5108.2	9773.9	11592.8	10876.2	8356.2	8047.2
65°	645.0	658.6	778.7	1192.2	1423.6	3038.5	9082.2	13428.3	13189.2	9773.9	9069.2
67°	626.0	631.4	688.1	1023.7	1342.0	1862.7	7608.8	13727.1	13969.7	10631.8	9101.1
67.5°	630.1	636.1	690.0	976.9	1339.7	1711.8	7101.1	13609.3	13915.8	10699.9	8959.7
70°	607.7	626.0	789.9	976.3	1274.0	1422.5	4252.6	11791.7	12110.5	9942.0	7602.3
72.5°	215.4	216.6	341.5	789.9	1385.2	1437.9	2135.5	8644.3	8880.4	7605.2	5481.0
75°	127.8	108.8	113.6	224.8	1323.7	1396.4	1231.9	5523.6	5611.8	4358.0	2775.7
77.5°	88.2	76.9	79.3	99.4	504.1	1376.9	978.7	2880.4	2786.4	1528.4	591.2
80°	50.3	44.4	47.4	87.0	183.4	1284.6	923.1	1168.0	995.8	259.2	163.3
82.5°	26.6	22.5	27.2	71.6	127.8	800.6	924.8	564.5	447.3	87.6	111.2
85°	9.5	7.7	13.0	49.1	85.2	245.6	857.4	474.5	372.8	42.6	84.6
87.5°	1.7	1.7	5.3	20.2	34.3	75.2	507.1	281.6	188.7	25.5	58.0
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°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2230.1	2204.8	2170.4	2128.4	2078.6	2034.9	2002.3	1968.7	1961.5	1949.6	1947.9
5°	2215.4	2171.6	2086.4	1988.7	1884.6	1790.5	1714.2	1646.1	1616.0	1590.0	1587.0
7.5°	2193.5	2127.8	1982.8	1825.5	1662.7	1514.8	1389.4	1300.6	1218.9	1179.9	1173.9
10°	2168.0	2073.9	1866.3	1647.9	1423.0	1214.1	1027.8	871.6	776.9	720.7	713.6
12.5°	2144.4	2021.2	1747.3	1463.8	1165.0	885.8	646.2	497.1	397.6	357.4	352.6
15°	2133.2	1978.7	1636.1	1275.7	895.3	563.9	353.2	273.3	240.8	231.4	230.8
17.5°	2131.9	1942.6	1527.2	1081.1	627.2	327.9	230.2	210.0	203.6	201.2	201.2
20°	2131.3	1908.3	1418.3	879.3	398.2	218.3	191.7	187.0	182.3	179.3	179.3
22.5°	2137.9	1877.5	1304.8	673.4	250.9	177.0	168.7	163.9	157.9	153.9	153.2
25°	2144.4	1853.8	1188.8	479.3	181.7	153.9	145.6	139.0	130.7	125.4	124.8
27.5°	2145.5	1824.2	1064.5	320.7	152.1	134.3	123.7	113.6	104.1	98.8	98.2
30°	2127.8	1774.5	926.6	216.6	134.3	116.6	102.4	91.8	82.9	78.7	78.7
32.5°	2092.9	1713.0	775.2	163.3	119.5	100.0	84.6	74.6	68.6	66.9	66.3
35°	2061.6	1646.7	619.5	138.5	107.1	84.6	69.3	62.7	59.1	58.6	58.0
37.5°	2043.1	1593.5	473.3	125.4	95.2	71.0	58.6	53.8	52.1	50.8	51.5
40°	2057.4	1549.1	349.7	114.8	83.5	59.1	49.7	47.4	45.5	45.0	45.0
42.5°	2119.6	1541.4	259.7	105.4	72.2	49.1	43.2	41.4	40.2	39.7	40.2
45°	2282.8	1588.7	201.7	96.5	61.0	41.4	36.7	36.1	35.5	35.5	35.5
47.5°	2528.4	1686.3	168.1	86.4	50.8	35.5	31.9	31.4	30.8	31.4	31.4
50°	2944.4	1865.0	150.3	76.3	42.0	30.2	27.2	27.2	27.2	27.2	27.8
52.5°	3576.8	2216.5	138.5	66.3	34.3	25.5	23.1	23.1	23.6	23.6	24.2
55°	4281.7	2682.8	127.8	56.3	28.9	21.3	18.9	19.5	20.2	20.7	20.7
57.5°	5046.1	3199.4	119.0	46.1	24.9	17.2	16.0	16.6	17.2	18.3	18.3
60°	5968.6	3758.5	105.9	36.1	20.7	13.6	12.4	13.6	15.3	16.6	17.2
62.5°	6981.6	4299.4	89.3	28.4	17.2	10.6	10.0	12.4	14.8	16.0	16.6
65°	7673.9	4469.2	68.6	23.1	13.0	7.7	8.3	11.3	14.2	16.0	16.0
67°	7393.5	4052.0	56.3	19.5	10.6	5.9	7.7	11.3	14.2	15.3	16.0
67.5°	7198.7	3888.7	53.8	18.9	10.0	5.9	7.7	11.3	14.2	16.0	16.0
70°	5857.3	2921.2	45.0	14.2	8.3	5.3	6.5	10.6	13.6	15.3	15.3
72.5°	4069.8	1801.2	40.2	10.0	7.1	4.7	5.9	10.0	13.0	14.8	15.3
75°	1934.9	652.0	34.3	7.7	6.5	4.1	5.3	10.0	13.0	14.8	14.8
77.5°	394.7	151.5	27.8	6.5	5.3	4.1	4.7	9.5	12.4	14.2	14.2
80°	129.6	58.6	20.7	5.9	5.3	4.1	4.7	8.9	12.4	13.6	14.2
82.5°	93.5	29.6	13.6	5.9	5.3	4.1	4.1	8.9	11.9	13.6	13.6
85°	71.6	20.7	8.9	5.9	5.3	4.1	4.1	8.3	11.3	13.0	13.0
87.5°	47.4	8.3	7.1	5.9	5.3	4.1	4.1	8.3	10.6	12.4	13.0
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)