

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: P191060

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191060
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-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 11320 lumens
Efficiency: N/A
Efficacy: 87.8 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): 129
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

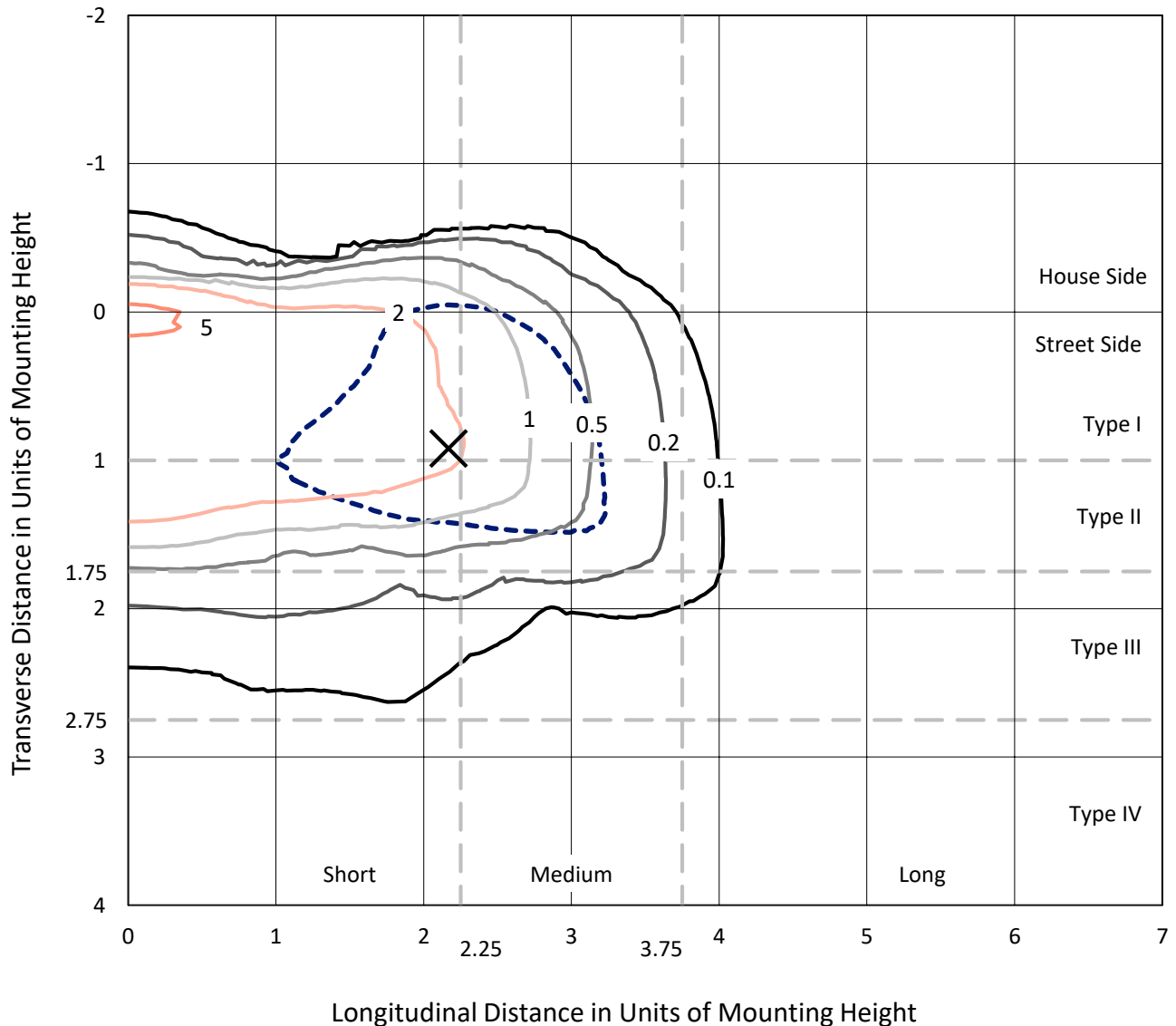


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Iso-Footcandle Lines of Horizontal Illumination

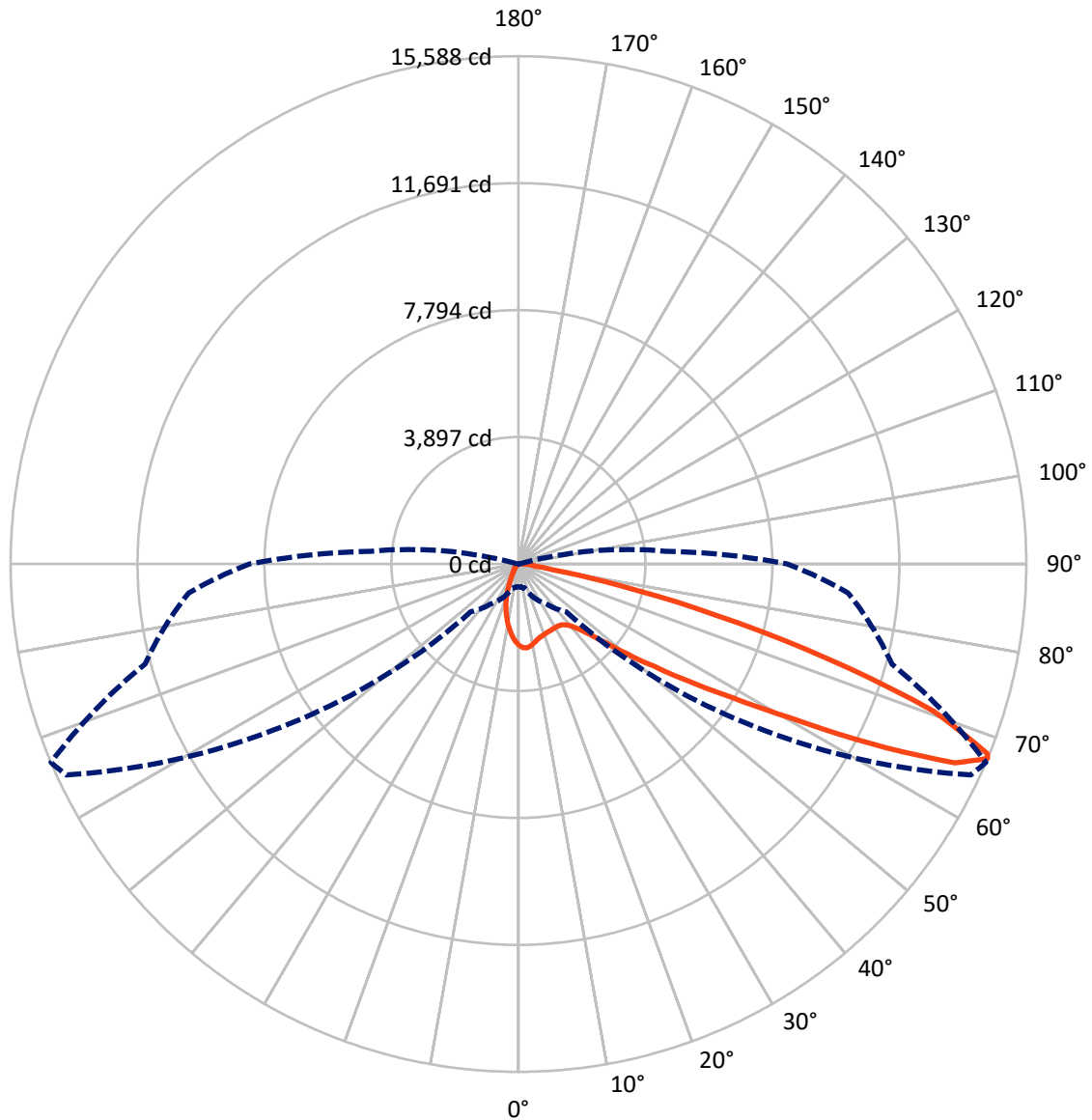
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	1175.3	0.0	1175.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10144.6	0.0	10144.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	11320.0	0.0	11320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.8
10°-20°	432.3	3.8
20°-30°	628.6	5.6
30°-40°	980.6	8.7
40°-50°	1737.1	15.3
50°-60°	2748.9	24.3
60°-70°	3148.4	27.8
70°-80°	1305.9	11.5
80°-90°	134.9	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°	11320.0	100.0
0°-180°	11320.0	100.0

Coefficient of Utilization



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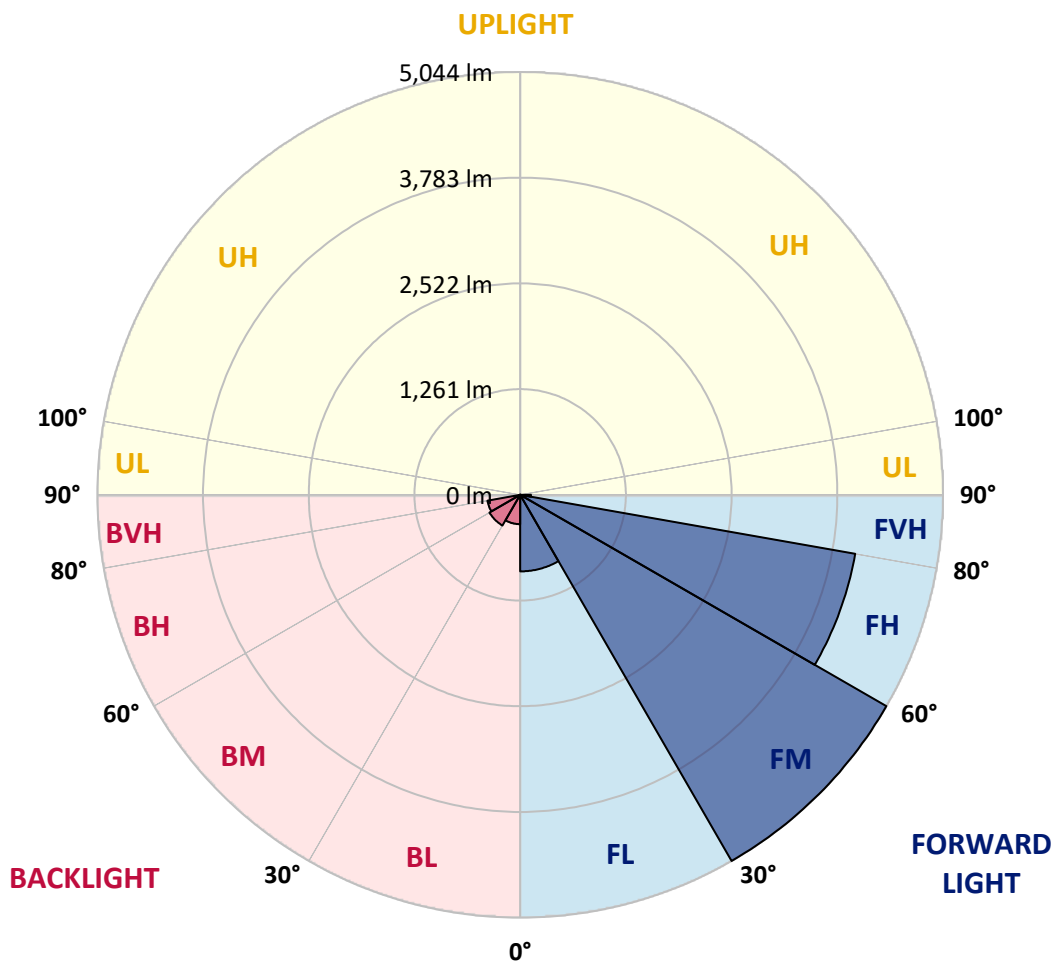
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.3	8.1			
FM	(30°-60°)	5044.2	44.6			
FH	(60°-80°)	4058.2	35.9			G2/5000
FVH	(80°-90°)	128.8	1.1			G2/225
BL	(0°-30°)	350.7	3.1	B1/500		
BM	(30°-60°)	422.4	3.7	B1/1000		
BH	(60°-80°)	396.1	3.5	B1/500		G1/500
BVH	(80°-90°)	6.1	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°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2581.0	2586.2	2585.6	2589.6	2598.8	2599.5	2590.2	2572.4	2568.4	2545.3	2505.1
5°	2380.3	2395.4	2404.7	2442.3	2484.5	2535.4	2573.7	2587.6	2585.6	2569.1	2508.4
7.5°	2151.2	2166.3	2176.9	2221.1	2277.3	2364.4	2464.1	2546.0	2553.3	2571.1	2505.7
10°	1998.6	2001.3	2015.8	2058.1	2116.8	2206.0	2324.8	2468.1	2489.9	2555.2	2499.1
12.5°	1873.2	1875.2	1894.3	1939.8	2002.6	2092.3	2217.1	2382.9	2416.6	2535.4	2497.8
15°	1784.0	1791.3	1808.5	1856.0	1922.7	2011.8	2139.9	2320.2	2360.5	2528.1	2509.7
17.5°	1754.4	1762.2	1767.6	1801.8	1862.6	1949.7	2081.2	2279.2	2324.8	2532.1	2532.8
20°	1785.4	1791.3	1779.4	1788.0	1825.7	1903.5	2031.7	2244.3	2298.4	2536.7	2562.5
22.5°	1900.9	1903.5	1871.2	1833.5	1827.0	1869.9	1992.7	2216.5	2274.6	2549.3	2597.5
25°	2099.0	2094.4	2041.5	1960.4	1883.8	1863.9	1969.6	2199.3	2262.8	2562.5	2633.8
27.5°	2338.1	2344.6	2272.0	2153.8	2007.8	1903.5	1966.3	2192.1	2257.4	2571.7	2665.5
30°	2628.6	2637.8	2554.6	2406.0	2196.7	2001.3	1996.7	2190.8	2254.2	2565.8	2668.2
32.5°	2925.0	2936.2	2870.8	2717.7	2448.9	2165.0	2065.3	2205.3	2260.7	2545.3	2652.9
35°	3235.3	3251.1	3207.6	3076.2	2790.9	2401.4	2186.1	2249.6	2291.8	2543.4	2637.8
37.5°	3663.8	3678.3	3596.5	3457.2	3204.9	2718.3	2380.3	2332.7	2365.1	2575.1	2641.8
40°	4303.7	4301.6	4090.4	3877.1	3659.9	3121.1	2652.9	2483.3	2499.8	2670.8	2690.6
42.5°	5000.9	4997.5	4685.2	4361.0	4164.9	3616.9	3011.5	2743.5	2732.2	2847.1	2817.4
45°	5538.4	5537.6	5282.8	4917.6	4773.1	4186.1	3475.0	3105.3	3088.1	3133.6	3051.1
47.5°	5767.4	5771.4	5643.3	5386.4	5447.2	4956.0	4059.4	3629.5	3603.8	3585.2	3459.8
50°	5589.2	5597.1	5607.6	5557.5	5941.7	5990.6	4843.1	4368.3	4355.8	4273.3	4077.2
52.5°	5006.8	5047.1	5171.2	5330.4	6113.5	6983.7	6071.8	5286.1	5218.8	5130.9	4915.1
55°	4025.6	4069.9	4305.6	4691.9	5857.9	7636.0	7793.8	6469.3	6357.0	6094.9	5783.3
57.5°	2664.2	2732.8	3074.9	3566.1	5115.8	7741.0	9511.8	8111.4	7720.5	7002.8	6651.5
60°	1467.7	1533.8	1904.8	2349.9	3694.9	7222.0	10667.3	10249.4	9558.7	8017.6	7706.0
62.5°	903.9	939.6	1213.5	1627.5	2215.8	5700.1	10906.3	12935.9	12136.4	9324.3	8979.7
65°	719.6	734.9	868.9	1330.4	1588.6	3390.5	10134.5	14984.1	14717.4	10906.3	10120.0
67°	698.6	704.5	767.9	1142.2	1497.5	2078.5	8490.4	15317.6	15588.2	11863.7	10155.5
67.5°	703.2	709.8	769.9	1090.1	1494.8	1910.2	7923.9	15186.1	15528.2	11939.6	9997.8
70°	678.1	698.6	881.5	1089.4	1421.6	1587.3	4745.4	13157.8	13513.7	11093.8	8483.1
72.5°	240.3	241.6	380.9	881.5	1545.7	1604.5	2382.9	9645.8	9909.3	8486.4	6116.0
75°	142.6	121.5	126.7	250.9	1477.0	1558.3	1374.6	6163.6	6262.0	4862.9	3097.3
77.5°	98.4	85.8	88.5	110.9	562.5	1536.5	1092.1	3214.2	3109.2	1705.5	659.6
80°	56.2	49.5	52.8	97.1	204.7	1433.5	1030.0	1303.3	1111.2	289.2	182.2
82.5°	29.7	25.1	30.4	79.9	142.6	893.3	1032.0	629.9	499.2	97.7	124.1
85°	10.5	8.6	14.5	54.8	95.0	274.0	956.8	529.6	415.9	47.6	94.4
87.5°	1.9	1.9	5.9	22.4	38.3	83.9	565.9	314.3	210.6	28.4	64.8
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°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2488.5	2460.2	2421.8	2375.0	2319.5	2270.6	2234.3	2196.7	2188.8	2175.6	2173.6
5°	2472.1	2423.2	2328.1	2219.2	2103.0	1997.9	1912.8	1836.9	1803.2	1774.1	1770.8
7.5°	2447.6	2374.4	2212.5	2036.9	1855.3	1690.3	1550.3	1451.3	1360.1	1316.5	1310.0
10°	2419.2	2314.2	2082.5	1838.9	1587.9	1354.9	1146.9	972.6	867.0	804.2	796.3
12.5°	2392.8	2255.5	1949.7	1633.6	1300.1	988.4	721.0	554.6	443.7	398.8	393.5
15°	2380.3	2207.9	1825.7	1423.5	999.0	629.2	394.1	305.0	268.7	258.2	257.5
17.5°	2379.0	2167.6	1704.1	1206.3	699.9	365.8	256.9	234.4	227.1	224.5	224.5
20°	2378.3	2129.4	1582.7	981.1	444.4	243.7	213.9	208.7	203.4	200.1	200.1
22.5°	2385.5	2095.0	1455.9	751.4	280.0	197.4	188.2	182.9	176.3	171.7	171.0
25°	2392.8	2068.6	1326.5	534.8	202.7	171.7	162.4	155.2	145.9	139.9	139.3
27.5°	2394.1	2035.6	1187.9	357.8	169.7	149.9	138.0	126.7	116.2	110.3	109.6
30°	2374.4	1980.1	1034.0	241.6	149.9	130.1	114.3	102.3	92.5	87.8	87.8
32.5°	2335.4	1911.5	864.9	182.2	133.4	111.6	94.4	83.2	76.6	74.6	74.0
35°	2300.4	1837.5	691.3	154.5	119.5	94.4	77.2	70.0	66.0	65.4	64.8
37.5°	2280.0	1778.1	528.3	139.9	106.3	79.3	65.4	60.0	58.1	56.8	57.5
40°	2295.7	1728.6	390.3	128.1	93.1	66.0	55.4	52.8	50.8	50.2	50.2
42.5°	2365.1	1720.0	289.9	117.5	80.5	54.8	48.2	46.2	44.9	44.2	44.9
45°	2547.4	1772.8	225.2	107.6	68.0	46.2	40.9	40.3	39.6	39.6	39.6
47.5°	2821.3	1881.7	187.5	96.4	56.8	39.6	35.7	35.0	34.4	35.0	35.0
50°	3285.5	2081.2	167.7	85.2	46.9	33.7	30.4	30.4	30.4	30.4	31.0
52.5°	3991.3	2473.4	154.5	74.0	38.3	28.4	25.8	25.8	26.4	26.4	27.1
55°	4777.7	2993.7	142.6	62.7	32.3	23.7	21.2	21.8	22.4	23.1	23.1
57.5°	5630.7	3570.1	132.7	51.5	27.7	19.1	17.8	18.5	19.1	20.5	20.5
60°	6660.1	4194.0	118.2	40.3	23.1	15.1	13.9	15.1	17.2	18.5	19.1
62.5°	7790.5	4797.5	99.7	31.7	19.1	11.9	11.3	13.9	16.5	17.8	18.5
65°	8563.0	4987.0	76.6	25.8	14.5	8.6	9.2	12.6	15.9	17.8	17.8
67°	8250.0	4521.5	62.7	21.8	11.9	6.6	8.6	12.6	15.9	17.2	17.8
67.5°	8032.8	4339.3	60.0	21.2	11.3	6.6	8.6	12.6	15.9	17.8	17.8
70°	6535.9	3259.7	50.2	15.9	9.2	5.9	7.3	11.9	15.1	17.2	17.2
72.5°	4541.3	2009.9	44.9	11.3	7.9	5.3	6.6	11.3	14.5	16.5	17.2
75°	2159.0	727.6	38.3	8.6	7.3	4.6	5.9	11.3	14.5	16.5	16.5
77.5°	440.4	169.0	31.0	7.3	5.9	4.6	5.3	10.5	13.9	15.9	15.9
80°	144.6	65.4	23.1	6.6	5.9	4.6	5.3	9.9	13.9	15.1	15.9
82.5°	104.3	33.0	15.1	6.6	5.9	4.6	4.6	9.9	13.2	15.1	15.1
85°	79.9	23.1	9.9	6.6	5.9	4.6	4.6	9.2	12.6	14.5	14.5
87.5°	52.8	9.2	7.9	6.6	5.9	4.6	4.6	9.2	11.9	13.9	14.5
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)