

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: P193761

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13203 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 191  
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

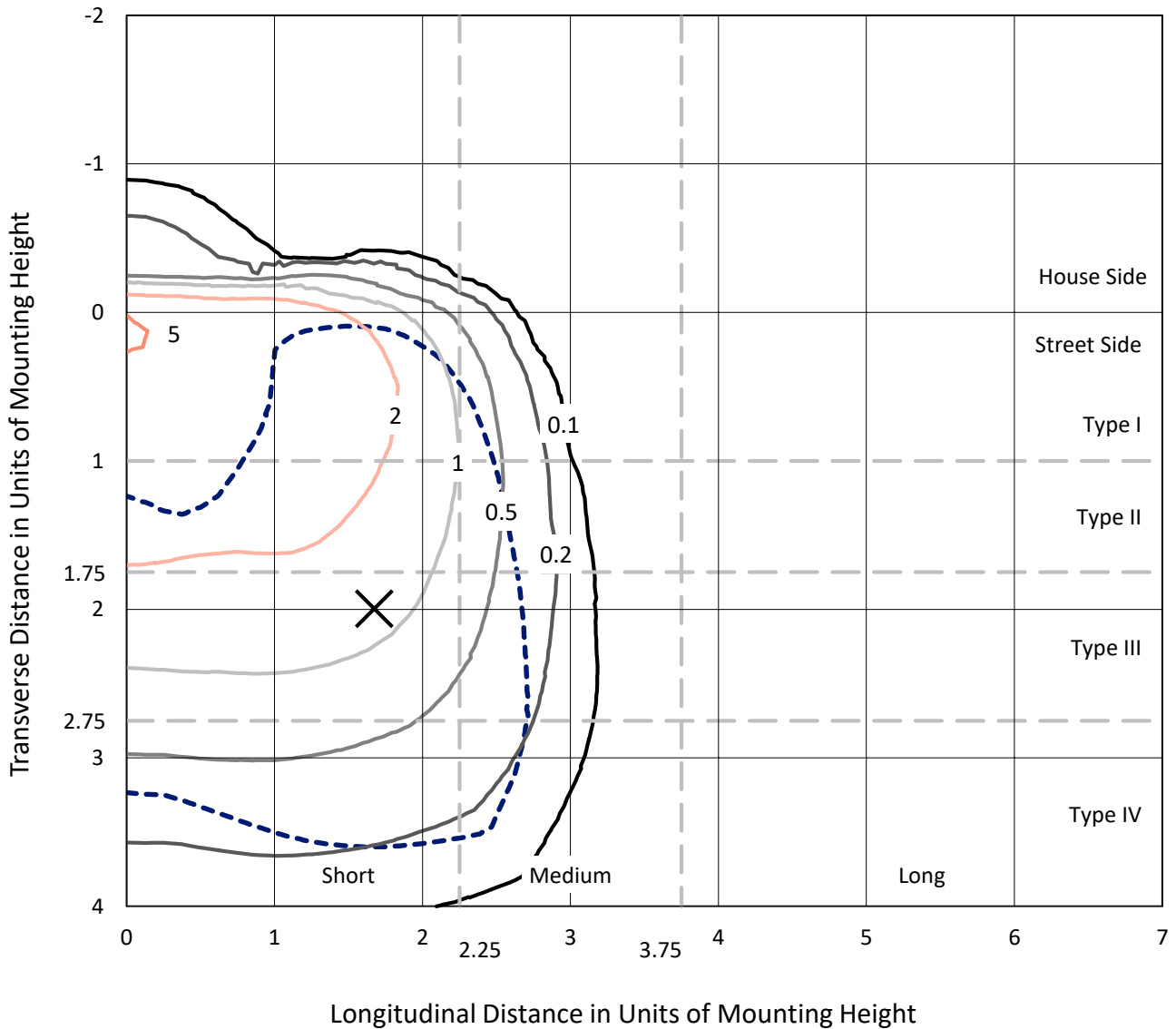


REPORT NUMBER: P193761

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

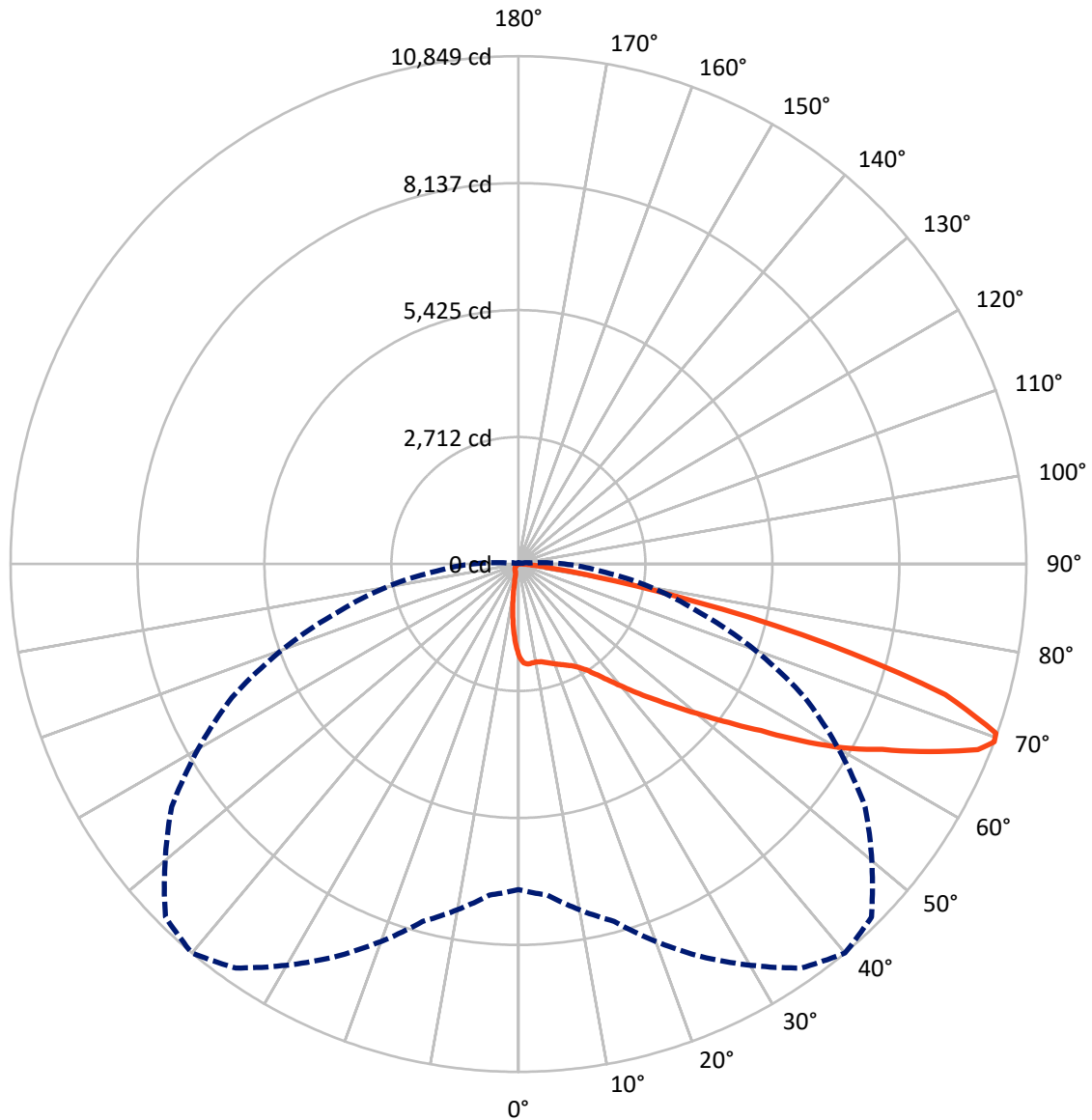


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193761

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	772.4	0.0	772.4
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	12430.5	0.0	12430.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	13203.0	0.0	13203.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	1.2
10°-20°	393.3	3.0
20°-30°	662.5	5.0
30°-40°	1084.5	8.2
40°-50°	1877.8	14.2
50°-60°	2957.7	22.4
60°-70°	3862.6	29.3
70°-80°	1989.4	15.1
80°-90°	215.2	1.6
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°	13203.0	100.0
0°-180°	13203.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P193761

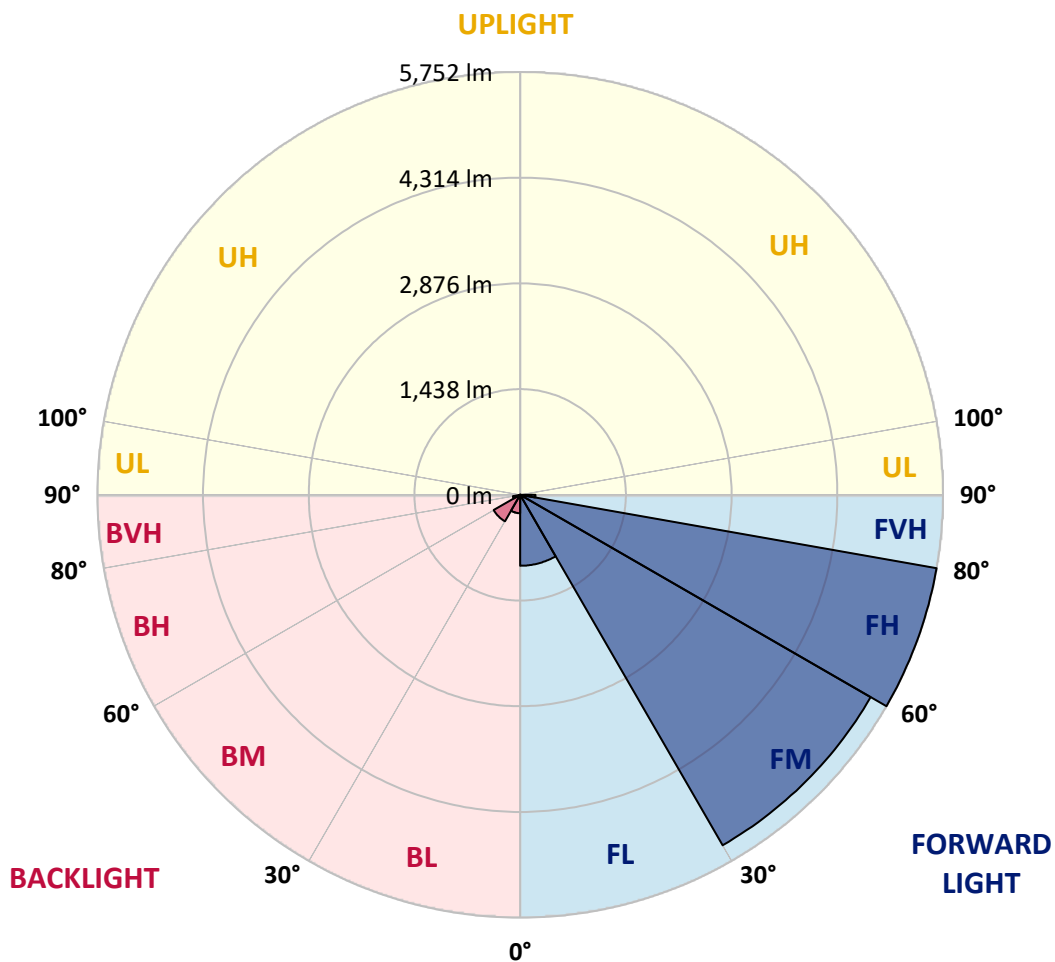
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.5	7.3			
FM	(30°-60°)	5504.8	41.7			
FH	(60°-80°)	5751.8	43.6			G3/7500
FVH	(80°-90°)	208.4	1.6			G2/225
BL	(0°-30°)	250.2	1.9	B1/500		
BM	(30°-60°)	415.2	3.1	B1/1000		
BH	(60°-80°)	100.3	0.8	B0/110		G0/110
BVH	(80°-90°)	6.8	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-G3**

Type IV Short





REPORT NUMBER: P193761

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	2165.9	2154.1	2147.1	2137.6	2125.8	2115.6	2111.7	2082.6	2055.1	2017.4	1974.2
5°	2206.0	2202.1	2189.5	2176.9	2162.8	2147.1	2138.4	2103.8	2064.5	2009.5	1934.1
7.5°	2209.9	2205.2	2189.5	2172.2	2152.6	2133.7	2118.8	2084.2	2048.0	1992.2	1900.3
10°	2203.6	2198.1	2186.4	2167.5	2143.1	2125.1	2110.1	2077.1	2046.5	1996.2	1894.0
12.5°	2196.6	2191.1	2185.6	2176.1	2154.9	2142.3	2129.8	2098.3	2070.8	2028.4	1916.8
15°	2203.6	2200.5	2206.8	2202.9	2191.1	2180.1	2167.5	2139.2	2114.1	2078.7	1958.4
17.5°	2233.5	2233.5	2253.2	2255.5	2244.5	2228.8	2210.7	2182.4	2161.2	2131.3	2008.0
20°	2303.5	2301.1	2326.2	2331.0	2304.2	2279.9	2253.2	2218.6	2202.1	2183.2	2056.7
22.5°	2423.7	2412.7	2427.6	2422.9	2370.3	2332.5	2299.5	2257.1	2248.4	2239.8	2110.9
25°	2580.1	2573.8	2584.0	2537.7	2444.9	2393.8	2354.5	2306.6	2306.6	2315.2	2172.2
27.5°	2807.2	2783.6	2749.1	2667.3	2528.2	2463.0	2420.6	2369.5	2382.8	2415.1	2253.2
30°	3039.8	3013.9	2934.5	2808.8	2629.6	2561.2	2511.7	2458.3	2489.7	2548.7	2361.6
32.5°	3269.3	3240.2	3127.9	2969.1	2775.0	2706.6	2658.7	2599.7	2652.4	2751.4	2520.4
35°	3491.7	3465.8	3336.1	3149.1	2968.3	2911.7	2867.7	2816.6	2884.2	3022.6	2744.3
37.5°	3741.6	3713.4	3555.4	3352.6	3203.3	3162.4	3130.2	3079.1	3197.0	3399.8	3056.3
40°	4048.9	4001.0	3788.0	3586.0	3475.2	3455.6	3433.6	3426.5	3609.6	3890.2	3472.1
42.5°	4401.0	4322.4	4031.6	3832.0	3773.9	3788.0	3782.5	3813.9	4125.9	4500.0	3978.2
45°	4753.1	4651.7	4302.8	4094.5	4102.4	4151.9	4182.5	4308.3	4772.7	5199.5	4522.8
47.5°	5051.7	4951.9	4562.9	4378.2	4472.5	4570.0	4653.3	4891.4	5437.6	5887.9	4946.4
50°	5307.1	5212.8	4838.8	4690.2	4902.4	5059.6	5194.8	5547.6	6152.8	6412.1	5243.5
52.5°	5516.2	5453.3	5124.8	5047.8	5393.6	5623.9	5821.9	6244.7	6786.2	6838.1	5474.5
55°	5719.7	5674.9	5432.1	5473.0	5970.4	6284.0	6534.7	6984.2	7331.6	7193.3	5696.2
57.5°	5953.9	5913.1	5782.6	6012.1	6728.8	7123.4	7396.8	7639.7	7811.8	7556.4	5905.2
60°	6192.9	6169.3	6172.4	6610.9	7599.6	7978.4	8129.3	8192.2	8283.3	7898.2	5917.0
62.5°	6420.8	6465.6	6618.0	7277.4	8433.4	8724.2	8800.5	8862.5	8755.7	7952.5	5466.7
65°	6806.6	6879.7	7243.6	8169.4	9350.6	9661.8	9740.4	9527.4	8830.3	7251.5	4446.6
67.5°	6995.3	7128.9	7778.0	9000.9	10240.2	10586.0	10556.9	9570.6	7924.2	5529.6	2853.6
69°	6956.0	7098.2	7901.4	9255.5	10535.7	10849.3	10664.6	9041.7	6750.8	4005.7	1751.8
70°	6800.3	6944.2	7837.7	9246.1	10573.4	10821.8	10465.0	8388.6	5708.0	2929.0	1095.5
72.5°	5678.9	5803.0	6958.3	8357.2	9740.4	9538.4	8754.9	5811.7	2781.3	797.7	246.8
75°	3495.7	3564.8	4992.8	6295.8	7356.8	6838.1	5832.9	2891.3	829.1	225.6	136.7
77.5°	1846.9	1878.3	2733.3	3711.0	4663.5	3858.7	2989.5	1127.8	381.9	141.5	99.0
80°	1091.6	1115.2	1472.0	1696.7	2018.2	1685.7	1195.3	692.4	273.5	88.8	88.0
82.5°	624.8	639.7	1067.2	943.1	795.3	679.0	594.9	656.2	164.3	59.7	91.2
85°	229.5	232.6	600.4	717.5	473.1	281.4	295.5	543.8	44.0	37.7	71.5
87.5°	106.9	104.5	308.9	439.3	276.6	178.4	230.3	119.5	17.3	24.4	19.6
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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CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	1949.0	1919.9	1867.3	1813.1	1758.0	1715.6	1674.0	1640.9	1629.9	1609.5	1611.1
5°	1889.3	1835.9	1725.8	1614.2	1497.9	1402.0	1311.7	1238.6	1203.2	1167.1	1167.1
7.5°	1837.4	1759.6	1587.5	1406.0	1218.1	1060.2	917.9	811.0	752.1	704.9	704.2
10°	1817.8	1712.5	1472.0	1211.8	950.1	734.8	565.8	457.4	401.6	365.4	363.9
12.5°	1826.4	1696.0	1383.2	1032.7	704.2	472.3	327.7	257.8	234.2	223.2	223.2
15°	1851.6	1691.2	1294.4	857.4	497.5	295.5	217.7	198.8	197.3	197.3	197.3
17.5°	1882.2	1692.8	1203.2	686.9	338.7	211.4	187.8	185.5	187.0	187.0	187.0
20°	1913.7	1693.6	1105.0	528.9	238.9	183.9	176.8	176.0	177.6	177.6	178.4
22.5°	1952.2	1697.5	1006.7	395.3	197.3	173.7	168.2	168.2	169.0	169.0	168.2
25°	1996.2	1705.4	904.6	293.1	180.0	166.6	161.9	161.1	161.9	161.1	160.3
27.5°	2051.2	1716.4	790.6	229.5	172.1	159.5	155.6	155.6	154.8	154.0	153.2
30°	2120.3	1729.0	662.5	194.9	164.3	153.2	149.3	148.5	147.7	146.2	146.2
32.5°	2225.7	1756.5	536.0	176.8	155.6	144.6	141.5	141.5	139.9	138.3	137.5
35°	2387.5	1810.7	422.8	165.8	146.2	135.2	131.2	131.2	129.7	128.9	128.1
37.5°	2611.5	1893.2	328.5	155.6	136.7	125.0	121.0	120.2	118.7	117.1	116.3
40°	2909.4	1995.4	258.6	146.2	127.3	114.7	111.6	110.0	106.9	104.5	104.5
42.5°	3283.5	2111.7	209.8	136.0	116.3	105.3	103.0	100.6	95.1	92.7	91.9
45°	3674.8	2216.2	177.6	124.2	105.3	95.9	94.3	90.4	83.3	80.9	80.9
47.5°	3957.0	2240.6	156.4	113.2	95.1	85.7	84.9	77.8	71.5	69.9	69.2
50°	4133.0	2192.6	139.1	102.2	85.7	76.2	73.9	65.2	61.3	59.7	58.9
52.5°	4251.7	2107.0	125.0	92.7	77.0	67.6	62.1	55.8	52.7	51.1	51.1
55°	4346.8	1986.0	110.8	84.1	69.9	60.5	52.7	47.9	44.8	43.2	43.2
57.5°	4373.5	1821.7	96.7	77.0	62.9	53.4	44.8	41.7	37.7	36.9	36.9
60°	4179.4	1525.4	85.7	68.4	56.6	46.4	39.3	35.4	31.4	30.6	29.9
62.5°	3667.8	1180.4	75.4	60.5	49.5	40.1	33.8	29.1	25.9	25.9	25.9
65°	2797.8	791.4	66.0	52.7	43.2	33.8	29.1	23.6	22.0	22.0	22.8
67.5°	1674.7	430.7	56.6	44.8	36.9	28.3	24.4	20.4	19.6	20.4	20.4
69°	981.6	253.1	51.1	40.1	32.2	25.1	21.2	18.1	19.6	20.4	20.4
70°	605.9	170.5	47.2	36.2	29.1	22.8	19.6	17.3	18.9	19.6	19.6
72.5°	169.0	88.0	37.7	28.3	23.6	18.9	15.7	15.7	18.1	18.9	18.9
75°	110.0	65.2	29.1	21.2	18.1	14.9	13.4	14.9	17.3	18.1	18.1
77.5°	91.2	53.4	23.6	17.3	14.9	14.1	12.6	13.4	15.7	16.5	16.5
80°	83.3	37.7	18.9	15.7	13.4	12.6	11.8	11.0	14.1	14.9	14.9
82.5°	79.4	29.9	16.5	14.1	12.6	11.0	10.2	11.0	12.6	13.4	14.1
85°	49.5	19.6	14.9	13.4	11.0	10.2	10.2	10.2	11.8	12.6	12.6
87.5°	18.1	15.7	13.4	11.0	9.4	9.4	9.4	9.4	10.2	11.8	11.8
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)