

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: P191970

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12180 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

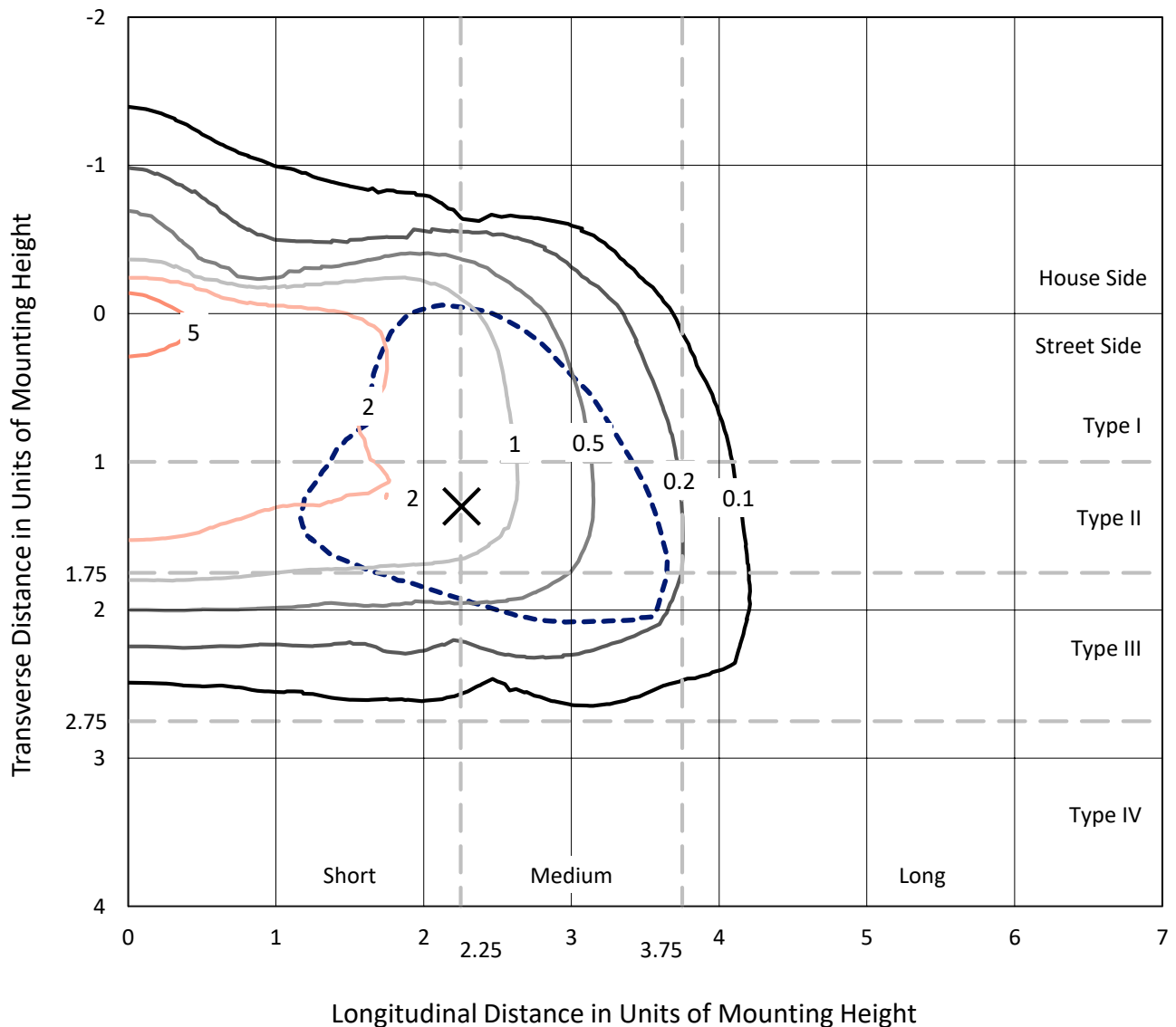
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

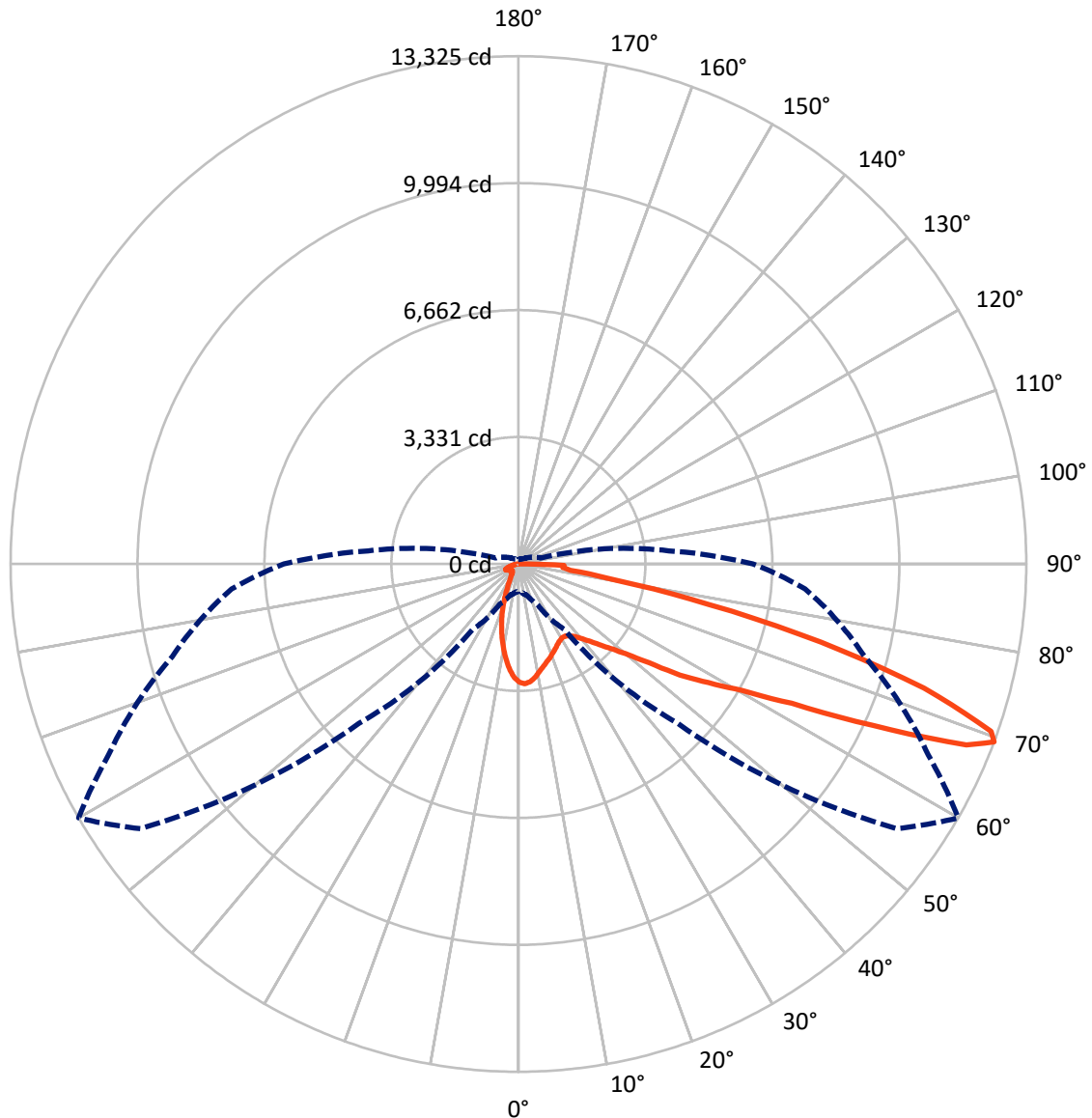
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1732.8	0.0	1732.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	10447.2	0.0	10447.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	12180.0	0.0	12180.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	2.2
10°-20°	559.1	4.6
20°-30°	712.4	5.8
30°-40°	979.4	8.0
40°-50°	1589.1	13.0
50°-60°	2548.6	20.9
60°-70°	3392.0	27.8
70°-80°	1831.4	15.0
80°-90°	305.6	2.5
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°	12180.0	100.0
0°-180°	12180.0	100.0



REPORT NUMBER: P191970

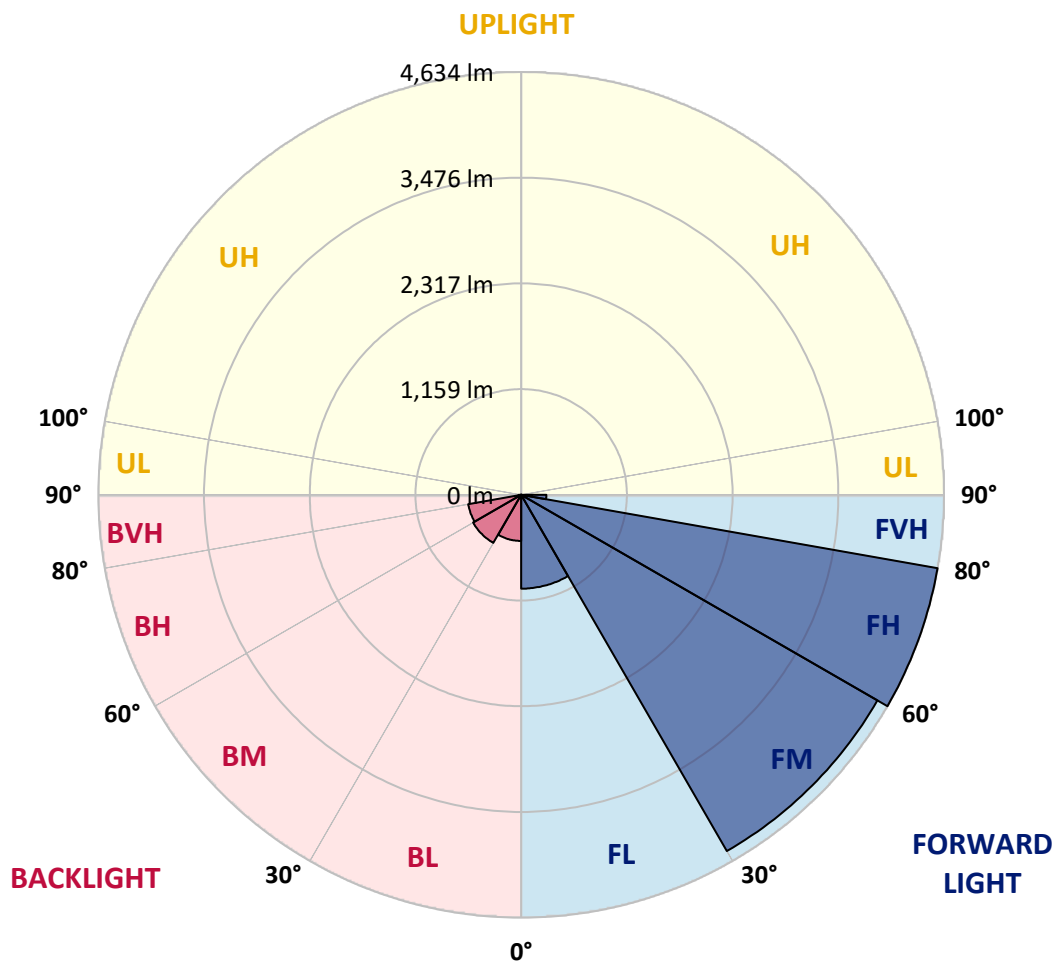
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1028.4	8.4			
FM	(30°-60°)	4508.3	37.0			
FH	(60°-80°)	4634.3	38.0			G2/5000
FVH	(80°-90°)	276.2	2.3			G3/500
BL	(0°-30°)	505.5	4.2	B2/1000		
BM	(30°-60°)	608.8	5.0	B1/1000		
BH	(60°-80°)	589.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	29.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6
2.5°	3167.2	3174.3	3171.3	3169.5	3174.8	3166.6	3149.5	3144.2	3136.0	3116.6	3083.6
5°	3048.3	3069.5	3068.3	3084.2	3110.7	3117.8	3110.1	3111.3	3096.0	3071.9	3017.2
7.5°	2843.0	2851.8	2856.5	2891.2	2939.5	2978.3	3011.3	3021.9	3014.8	2994.2	2923.6
10°	2631.2	2638.2	2649.4	2690.0	2751.2	2804.8	2867.1	2903.0	2918.3	2914.8	2835.9
12.5°	2449.4	2456.4	2471.2	2517.0	2590.0	2655.9	2746.5	2791.2	2827.7	2849.5	2764.7
15°	2286.4	2301.7	2315.8	2368.8	2450.6	2537.0	2639.4	2695.9	2752.4	2801.2	2701.8
17.5°	2159.3	2174.6	2182.9	2231.1	2318.2	2424.1	2544.1	2610.6	2681.2	2761.2	2639.4
20°	2085.8	2092.8	2089.3	2116.4	2194.6	2307.0	2449.4	2526.5	2611.8	2723.6	2577.1
22.5°	2065.2	2065.8	2052.8	2049.9	2100.5	2195.2	2348.2	2441.7	2546.5	2698.9	2523.5
25°	2115.2	2113.4	2078.1	2049.3	2054.6	2109.9	2250.5	2359.4	2491.7	2693.6	2482.3
27.5°	2226.4	2231.7	2179.3	2125.2	2071.6	2069.9	2176.4	2291.1	2447.0	2717.7	2464.7
30°	2382.3	2391.1	2335.2	2266.4	2165.8	2082.8	2147.5	2250.5	2419.4	2767.7	2461.7
32.5°	2552.9	2562.3	2520.0	2447.6	2315.8	2162.8	2167.6	2254.0	2418.2	2837.7	2481.7
35°	2734.7	2745.3	2723.6	2662.4	2515.9	2310.5	2244.0	2311.1	2456.4	2944.8	2535.3
37.5°	2937.7	2954.2	2960.1	2901.8	2745.3	2505.3	2369.4	2419.4	2542.9	3093.6	2633.5
40°	3230.1	3253.1	3251.3	3167.8	3008.3	2768.3	2562.9	2575.9	2677.7	3292.5	2790.6
42.5°	3790.3	3795.0	3648.5	3466.7	3297.8	3044.8	2791.2	2780.6	2863.6	3544.3	3021.9
45°	4502.8	4483.4	4157.4	3806.2	3600.2	3362.5	3088.4	3036.6	3099.5	3851.5	3311.3
47.5°	5094.1	5049.4	4637.5	4152.7	3920.3	3707.9	3437.3	3346.6	3381.4	4199.8	3685.5
50°	5299.4	5265.9	4924.7	4441.0	4223.3	4129.2	3866.8	3738.5	3747.9	4615.2	4123.9
52.5°	5255.3	5250.6	5022.9	4631.1	4506.9	4571.6	4475.1	4301.6	4209.8	5076.5	4596.9
55°	5151.2	5161.2	5078.8	4852.3	4831.1	4998.8	5270.0	5141.8	4856.4	5541.9	5085.9
57.5°	4789.3	4815.2	4996.4	5130.6	5353.0	5602.5	5910.2	5873.7	5552.4	6044.9	5667.2
60°	3858.5	3918.5	4404.5	5076.5	5890.2	6670.3	6808.0	6723.3	6270.3	6669.2	6435.0
62.5°	2703.6	2765.9	3343.7	4395.1	5801.9	7876.5	8413.1	8047.7	7301.1	7588.8	7428.8
65°	1447.4	1477.4	1918.7	3049.5	4898.2	8125.4	10758.9	10202.9	8933.2	8722.6	8278.9
67.5°	798.4	814.9	983.8	1539.8	3137.2	7155.2	12253.4	12673.5	10973.1	9477.5	8124.2
69°	721.9	737.2	847.8	1166.1	2099.3	5916.1	12107.5	13324.8	11867.4	9402.7	7552.3
70°	706.0	720.2	819.6	1075.0	1699.2	4876.4	11618.5	13158.3	12080.4	9135.0	7053.4
72.5°	635.4	650.7	747.2	965.5	1452.1	2431.1	9203.3	11125.5	10967.8	7920.6	5350.0
75°	592.5	606.6	770.2	945.5	1390.3	1538.6	6067.3	8199.5	8062.4	5540.7	2884.8
77.5°	253.6	252.4	357.1	800.2	1410.9	1489.8	3260.2	5122.3	4673.4	2368.2	828.4
80°	169.5	166.5	169.5	235.3	1293.8	1498.0	1708.0	2600.0	1964.0	603.7	408.3
82.5°	145.9	143.6	148.9	143.6	454.8	1709.8	1452.1	1382.7	933.7	343.0	202.4
85°	98.3	94.1	128.3	128.9	214.8	1519.2	1635.7	1167.9	755.5	203.6	100.0
87.5°	47.1	45.9	74.7	91.2	125.9	617.2	1835.1	1196.7	761.9	104.1	47.7
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°	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6
2.5°	3073.6	3049.5	3026.0	2997.7	2968.3	2935.4	2918.9	2902.4	2898.3	2893.6	2877.1
5°	2988.9	2954.8	2896.0	2831.2	2763.0	2696.5	2645.9	2614.1	2590.0	2577.6	2555.9
7.5°	2879.5	2829.5	2726.5	2614.7	2500.0	2395.3	2304.6	2247.6	2193.4	2168.1	2139.3
10°	2775.3	2700.6	2540.6	2375.8	2211.1	2052.8	1904.0	1798.6	1705.1	1652.7	1615.7
12.5°	2685.9	2583.5	2361.7	2138.7	1912.8	1687.4	1464.5	1289.1	1142.6	1065.5	1026.1
15°	2598.8	2475.3	2191.7	1908.7	1618.6	1312.1	1019.1	820.2	699.0	650.7	634.3
17.5°	2520.0	2361.7	2021.0	1676.9	1315.0	944.3	684.9	575.4	528.9	513.1	507.8
20°	2434.7	2247.0	1843.9	1434.4	998.5	660.2	534.8	486.6	467.8	463.0	460.7
22.5°	2352.3	2134.0	1674.5	1175.0	717.2	509.5	459.5	439.5	436.6	440.7	440.7
25°	2282.3	2032.8	1491.5	903.7	526.6	428.9	411.3	406.6	417.7	433.0	436.0
27.5°	2229.9	1949.9	1296.8	667.2	419.5	373.0	372.4	380.1	407.7	437.2	443.0
30°	2194.0	1871.0	1088.5	481.3	351.8	328.3	337.7	354.2	394.8	436.6	447.7
32.5°	2175.8	1812.8	871.4	372.4	301.2	288.3	304.2	324.2	364.2	403.0	417.7
35°	2189.9	1769.8	666.6	310.7	265.9	255.9	272.4	291.8	315.4	331.8	343.0
37.5°	2242.9	1752.8	503.1	278.3	241.8	232.4	245.4	256.5	265.9	270.6	275.9
40°	2357.0	1771.0	403.0	261.8	228.3	216.5	221.8	225.9	231.8	236.5	238.9
42.5°	2525.3	1825.7	361.3	255.4	221.2	204.2	203.0	204.8	212.4	221.2	223.0
45°	2760.6	1922.2	358.3	259.5	217.7	194.2	188.9	191.2	203.0	216.5	218.9
47.5°	3061.3	2069.3	381.9	271.8	220.6	188.9	180.0	183.0	197.7	215.9	218.9
50°	3425.5	2274.6	421.3	290.1	233.6	190.0	177.1	178.9	194.2	214.2	217.1
52.5°	3855.6	2565.9	464.2	307.7	247.1	197.7	179.5	175.3	189.5	207.1	210.6
55°	4333.9	2939.5	508.4	323.6	254.2	207.1	184.2	170.6	180.6	195.3	198.3
57.5°	4921.1	3462.0	584.8	338.9	258.9	213.6	188.9	165.9	169.5	180.0	182.4
60°	5716.0	4201.0	719.6	364.2	269.5	215.9	188.3	161.8	158.3	164.2	165.3
62.5°	6668.6	5003.5	832.0	396.0	287.1	217.7	184.7	158.9	148.9	148.9	150.0
65°	7234.0	5218.2	769.6	422.4	301.8	215.9	180.6	155.9	141.8	135.3	135.9
67.5°	6754.5	4589.3	659.6	427.7	301.2	207.7	174.2	150.6	134.7	124.7	124.1
69°	6153.8	3959.7	610.1	413.6	287.1	197.1	165.9	144.7	129.4	118.9	118.3
70°	5669.5	3575.5	577.8	398.3	271.8	189.5	159.4	139.4	125.3	115.3	114.1
72.5°	4122.1	2342.9	493.6	342.4	224.2	158.9	137.7	122.4	111.8	105.9	104.7
75°	2059.9	1117.3	400.7	277.7	171.8	127.1	113.0	102.4	97.1	95.9	95.3
77.5°	676.6	511.9	286.5	207.1	127.7	99.4	91.2	83.5	82.4	85.9	84.7
80°	371.8	297.7	181.8	137.1	87.1	73.0	71.8	67.7	69.4	75.3	74.1
82.5°	189.5	154.7	112.4	82.4	58.8	52.4	57.1	54.7	57.1	62.4	61.8
85°	93.6	84.7	71.2	50.0	38.8	33.5	40.6	42.4	43.5	47.7	47.7
87.5°	54.1	50.0	37.7	23.5	19.4	17.7	23.5	22.9	27.1	29.4	28.8
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)