

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: P193701

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193701  
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-03-LED-E1-SL3-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA 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: 11981 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 124  
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

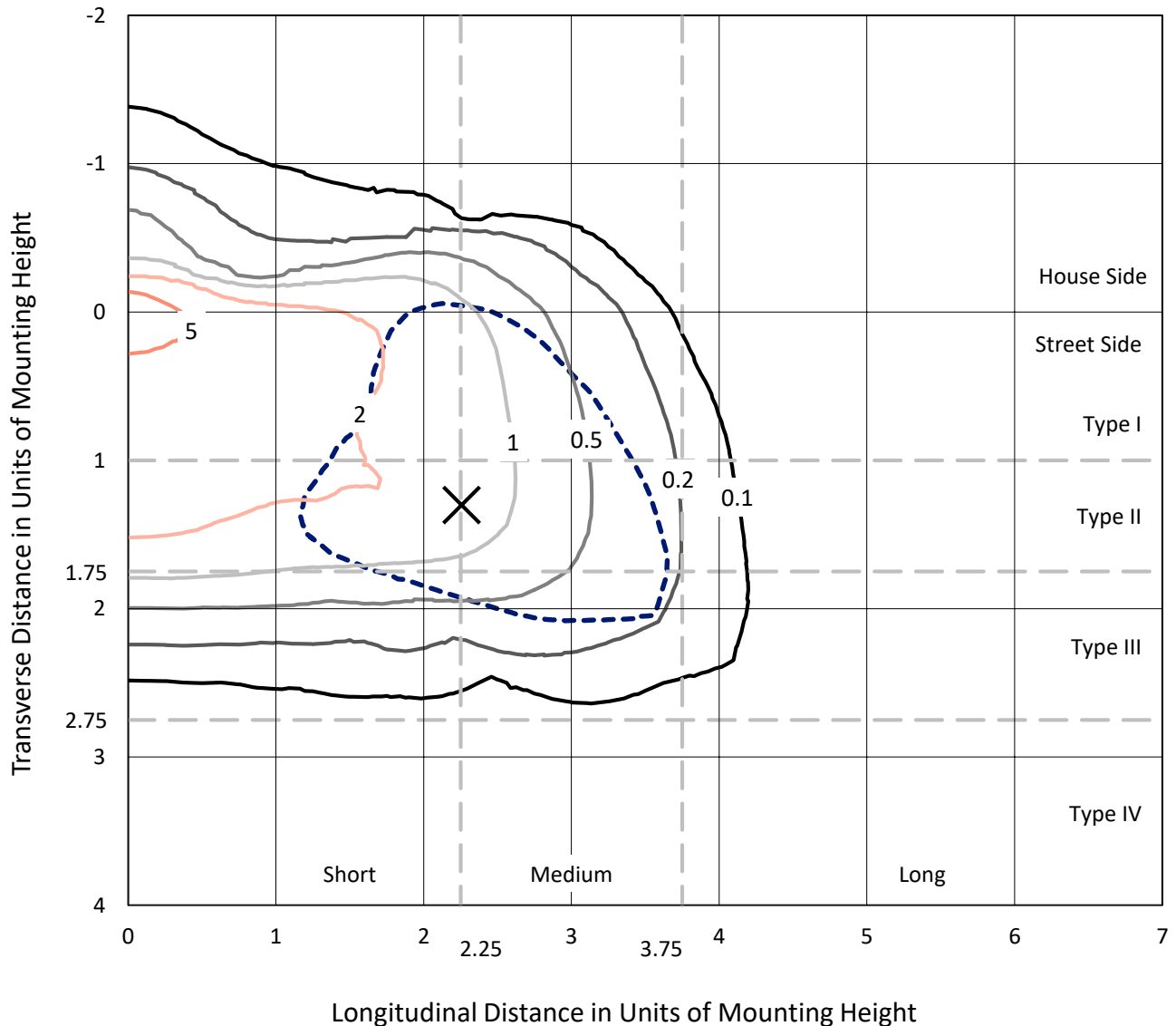


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### Iso-Footcandle Lines of Horizontal Illumination

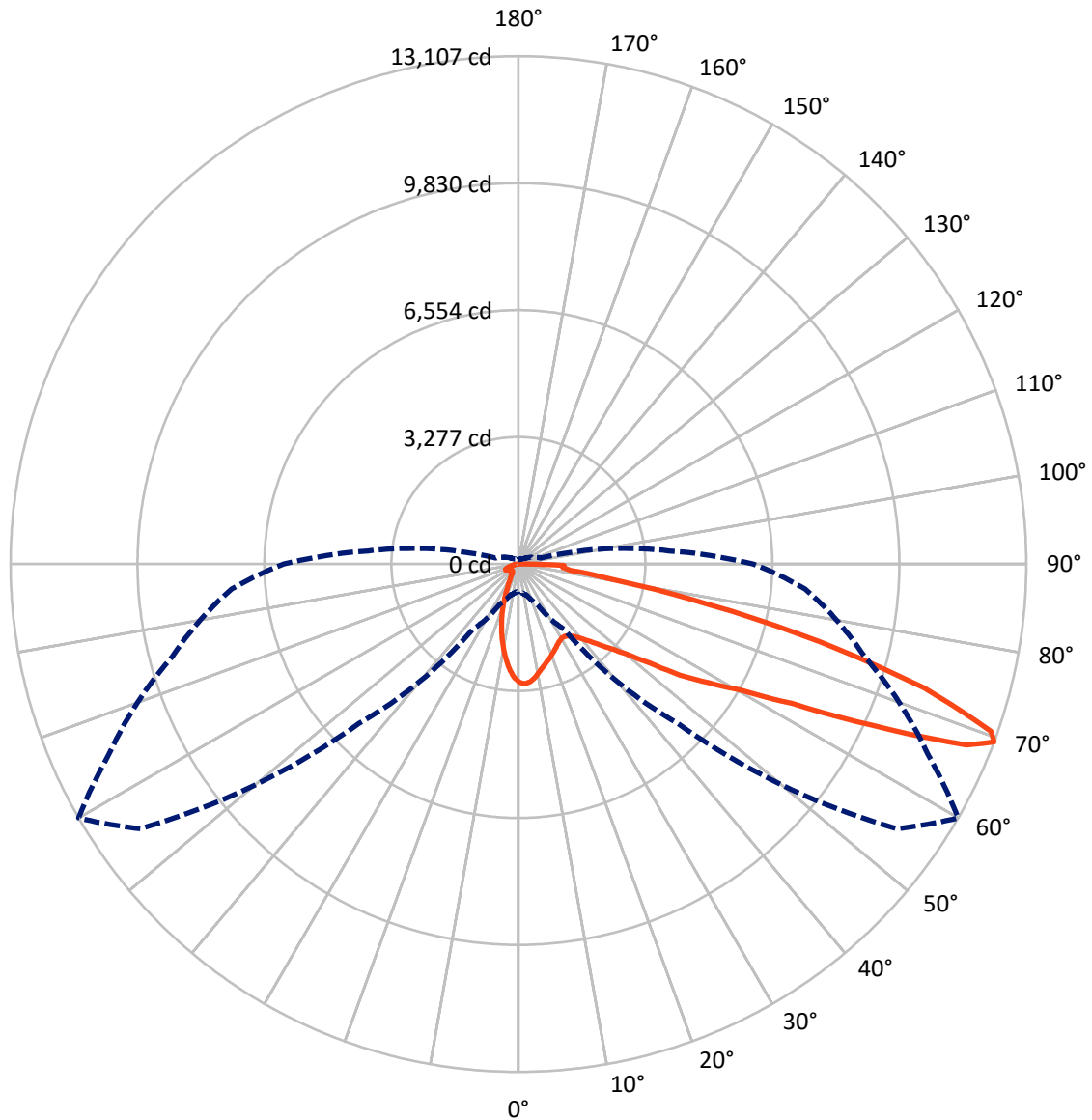
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	1704.5	0.0	1704.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	10276.5	0.0	10276.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	11981.0	0.0	11981.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.1	2.2
10°-20°	550.0	4.6
20°-30°	700.8	5.8
30°-40°	963.4	8.0
40°-50°	1563.2	13.0
50°-60°	2506.9	20.9
60°-70°	3336.5	27.8
70°-80°	1801.5	15.0
80°-90°	300.6	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°	11981.0	100.0
0°-180°	11981.0	100.0

**Coefficient of Utilization**



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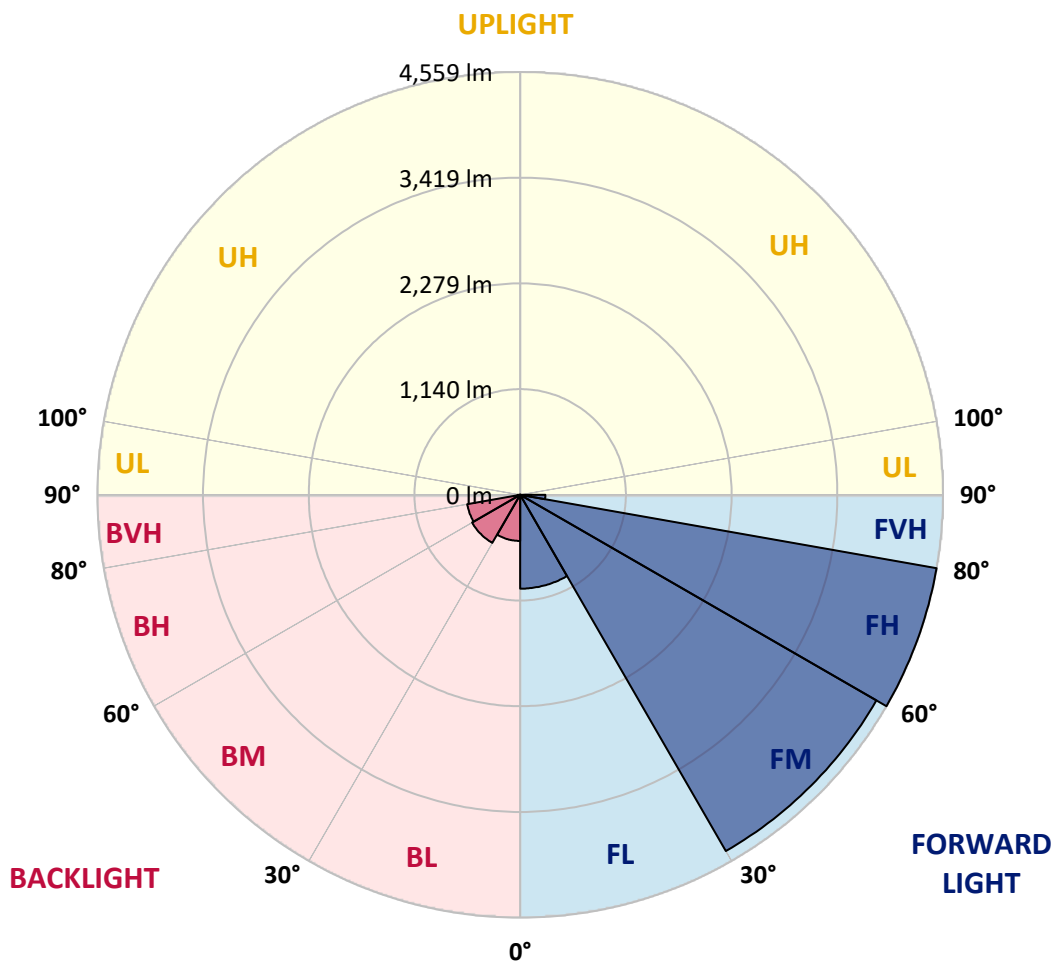
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1011.6	8.4			
FM	(30°-60°)	4434.7	37.0			
FH	(60°-80°)	4558.5	38.0			G2/5000
FVH	(80°-90°)	271.6	2.3			G3/500
BL	(0°-30°)	497.3	4.2	B1/500		
BM	(30°-60°)	598.8	5.0	B1/1000		
BH	(60°-80°)	579.5	4.8	B2/1000		G2/1000
BVH	(80°-90°)	28.9	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°	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9
2.5°	3115.4	3122.4	3119.5	3117.8	3123.0	3114.9	3098.1	3092.9	3084.8	3065.7	3033.3
5°	2998.5	3019.4	3018.2	3033.8	3059.9	3066.8	3059.3	3060.5	3045.4	3021.7	2967.9
7.5°	2796.6	2805.2	2809.9	2844.0	2891.5	2929.7	2962.1	2972.5	2965.5	2945.3	2875.8
10°	2588.2	2595.1	2606.1	2646.1	2706.3	2758.9	2820.3	2855.6	2870.6	2867.2	2789.6
12.5°	2409.4	2416.3	2430.8	2475.9	2547.7	2612.5	2701.6	2745.6	2781.5	2802.9	2719.6
15°	2249.0	2264.1	2278.0	2330.1	2410.5	2495.6	2596.3	2651.9	2707.4	2755.5	2657.7
17.5°	2124.0	2139.1	2147.2	2194.6	2280.3	2384.5	2502.5	2567.9	2637.4	2716.1	2596.3
20°	2051.7	2058.6	2055.2	2081.8	2158.8	2269.3	2409.4	2485.2	2569.1	2679.1	2535.0
22.5°	2031.4	2032.0	2019.3	2016.4	2066.2	2159.3	2309.8	2401.8	2504.9	2654.8	2482.3
25°	2080.6	2078.9	2044.2	2015.8	2021.0	2075.4	2213.7	2320.8	2451.0	2649.5	2441.8
27.5°	2190.0	2195.2	2143.7	2090.5	2037.8	2036.1	2140.8	2253.7	2407.0	2673.3	2424.4
30°	2343.4	2352.1	2297.1	2229.4	2130.4	2048.8	2112.5	2213.7	2379.8	2722.5	2421.5
32.5°	2511.2	2520.5	2478.8	2407.6	2278.0	2127.5	2132.1	2217.2	2378.7	2791.3	2441.2
35°	2690.1	2700.5	2679.1	2618.9	2474.8	2272.8	2207.4	2273.4	2416.3	2896.7	2493.9
37.5°	2889.7	2905.9	2911.7	2854.4	2700.5	2464.3	2330.7	2379.8	2501.4	3043.1	2590.5
40°	3177.4	3199.9	3198.2	3116.0	2959.2	2723.0	2521.1	2533.8	2633.9	3238.7	2745.0
42.5°	3728.3	3733.0	3588.9	3410.0	3243.9	2995.1	2745.6	2735.2	2816.8	3486.4	2972.5
45°	4429.2	4410.1	4089.5	3744.0	3541.4	3307.6	3037.9	2987.0	3048.9	3788.5	3257.2
47.5°	5010.9	4966.9	4561.8	4084.9	3856.3	3647.3	3381.1	3292.0	3326.1	4131.2	3625.3
50°	5212.9	5179.9	4844.2	4368.5	4154.3	4061.7	3803.6	3677.4	3686.7	4539.8	4056.5
52.5°	5169.5	5164.8	4940.8	4555.4	4433.3	4496.9	4402.0	4231.3	4141.0	4993.5	4521.8
55°	5067.0	5076.9	4995.8	4773.0	4752.2	4917.1	5183.9	5057.8	4777.1	5451.3	5002.8
57.5°	4711.1	4736.5	4914.8	5046.8	5265.5	5510.9	5813.6	5777.7	5461.7	5946.1	5574.6
60°	3795.5	3854.5	4332.6	4993.5	5793.9	6561.4	6696.8	6613.5	6167.8	6560.2	6329.9
62.5°	2659.4	2720.7	3289.1	4323.3	5707.1	7747.8	8275.6	7916.2	7181.8	7464.8	7307.4
65°	1423.7	1453.3	1887.3	2999.7	4818.1	7992.6	10583.1	10036.2	8787.3	8580.1	8143.7
67.5°	785.4	801.6	967.7	1514.6	3085.9	7038.3	12053.2	12466.4	10793.8	9322.6	7991.5
69°	710.1	725.2	834.0	1147.1	2065.0	5819.4	11909.7	13107.1	11673.5	9249.1	7428.9
70°	694.5	708.4	806.2	1057.4	1671.4	4796.7	11428.7	12943.3	11883.0	8985.8	6938.1
72.5°	625.1	640.1	735.0	949.7	1428.4	2391.4	9052.9	10943.7	10788.6	7791.2	5262.6
75°	582.8	596.7	757.6	930.1	1367.6	1513.4	5968.1	8065.6	7930.7	5450.2	2837.6
77.5°	249.4	248.3	351.3	787.1	1387.9	1465.4	3206.9	5038.7	4597.1	2329.5	814.9
80°	166.7	163.8	166.7	231.5	1272.7	1473.5	1680.1	2557.5	1931.9	593.8	401.7
82.5°	143.5	141.2	146.4	141.2	447.4	1681.9	1428.4	1360.1	918.5	337.4	199.1
85°	96.7	92.6	126.2	126.7	211.2	1494.3	1608.9	1148.8	743.1	200.2	98.4
87.5°	46.3	45.1	73.5	89.7	123.9	607.1	1805.1	1177.2	749.5	102.4	46.9
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°	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9	3052.9
2.5°	3023.4	2999.7	2976.5	2948.8	2919.8	2887.4	2871.2	2855.0	2851.0	2846.3	2830.1
5°	2940.1	2906.5	2848.6	2785.0	2717.8	2652.4	2602.7	2571.4	2547.7	2535.5	2514.1
7.5°	2832.4	2783.2	2682.0	2572.0	2459.1	2356.1	2267.0	2210.8	2157.6	2132.7	2104.4
10°	2730.0	2656.5	2499.1	2337.0	2175.0	2019.3	1872.9	1769.3	1677.2	1625.7	1589.3
12.5°	2642.0	2541.3	2323.1	2103.8	1881.5	1659.9	1440.5	1268.1	1123.9	1048.1	1009.4
15°	2556.4	2434.8	2155.9	1877.5	1592.2	1290.6	1002.4	806.8	687.6	640.1	623.9
17.5°	2478.8	2323.1	1988.0	1649.5	1293.5	928.9	673.7	566.0	520.3	504.7	499.5
20°	2394.9	2210.3	1813.8	1411.0	982.1	649.4	526.1	478.6	460.1	455.5	453.2
22.5°	2313.9	2099.1	1647.1	1155.8	705.5	501.2	452.0	432.3	429.4	433.5	433.5
25°	2245.0	1999.6	1467.1	889.0	518.0	421.9	404.6	399.9	410.9	426.0	428.9
27.5°	2193.5	1918.0	1275.6	656.3	412.7	366.9	366.4	373.9	401.1	430.0	435.8
30°	2158.2	1840.4	1070.7	473.4	346.1	322.9	332.2	348.4	388.3	429.4	440.4
32.5°	2140.2	1783.1	857.1	366.4	296.3	283.6	299.2	318.9	358.3	396.4	410.9
35°	2154.1	1740.9	655.7	305.6	261.6	251.8	268.0	287.1	310.2	326.4	337.4
37.5°	2206.2	1724.1	494.8	273.8	237.9	228.6	241.3	252.3	261.6	266.2	271.4
40°	2318.5	1742.1	396.4	257.5	224.6	213.0	218.2	222.2	228.0	232.7	235.0
42.5°	2484.0	1795.9	355.4	251.2	217.6	200.8	199.7	201.4	208.9	217.6	219.3
45°	2715.5	1890.8	352.5	255.2	214.1	191.0	185.8	188.1	199.7	213.0	215.3
47.5°	3011.3	2035.5	375.6	267.4	217.0	185.8	177.1	180.0	194.5	212.4	215.3
50°	3369.5	2237.5	414.4	285.3	229.8	186.9	174.2	175.9	191.0	210.7	213.6
52.5°	3792.6	2524.0	456.6	302.7	243.1	194.5	176.5	172.5	186.4	203.7	207.2
55°	4263.1	2891.5	500.0	318.3	250.0	203.7	181.2	167.8	177.7	192.1	195.0
57.5°	4840.7	3405.4	575.3	333.4	254.7	210.1	185.8	163.2	166.7	177.1	179.4
60°	5622.6	4132.3	707.8	358.3	265.1	212.4	185.2	159.2	155.7	161.5	162.6
62.5°	6559.6	4921.7	818.4	389.5	282.4	214.1	181.7	156.3	146.4	146.4	147.6
65°	7115.8	5133.0	757.0	415.5	296.9	212.4	177.7	153.4	139.5	133.1	133.7
67.5°	6644.1	4514.3	648.8	420.8	296.3	204.3	171.3	148.2	132.5	122.7	122.1
69°	6053.2	3895.0	600.2	406.9	282.4	193.9	163.2	142.4	127.3	116.9	116.3
70°	5576.9	3517.1	568.3	391.8	267.4	186.4	156.8	137.2	123.3	113.4	112.3
72.5°	4054.8	2304.6	485.6	336.8	220.5	156.3	135.4	120.4	110.0	104.2	103.0
75°	2026.2	1099.1	394.1	273.2	169.0	125.0	111.1	100.7	95.5	94.3	93.8
77.5°	665.6	503.5	281.9	203.7	125.6	97.8	89.7	82.2	81.0	84.5	83.3
80°	365.8	292.9	178.8	134.9	85.7	71.8	70.6	66.6	68.3	74.1	72.9
82.5°	186.4	152.2	110.5	81.0	57.9	51.5	56.1	53.8	56.1	61.3	60.8
85°	92.0	83.3	70.0	49.2	38.2	33.0	39.9	41.7	42.8	46.9	46.9
87.5°	53.2	49.2	37.0	23.2	19.1	17.4	23.2	22.6	26.6	28.9	28.4
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)