

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: P190950

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8420.9 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 66  
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

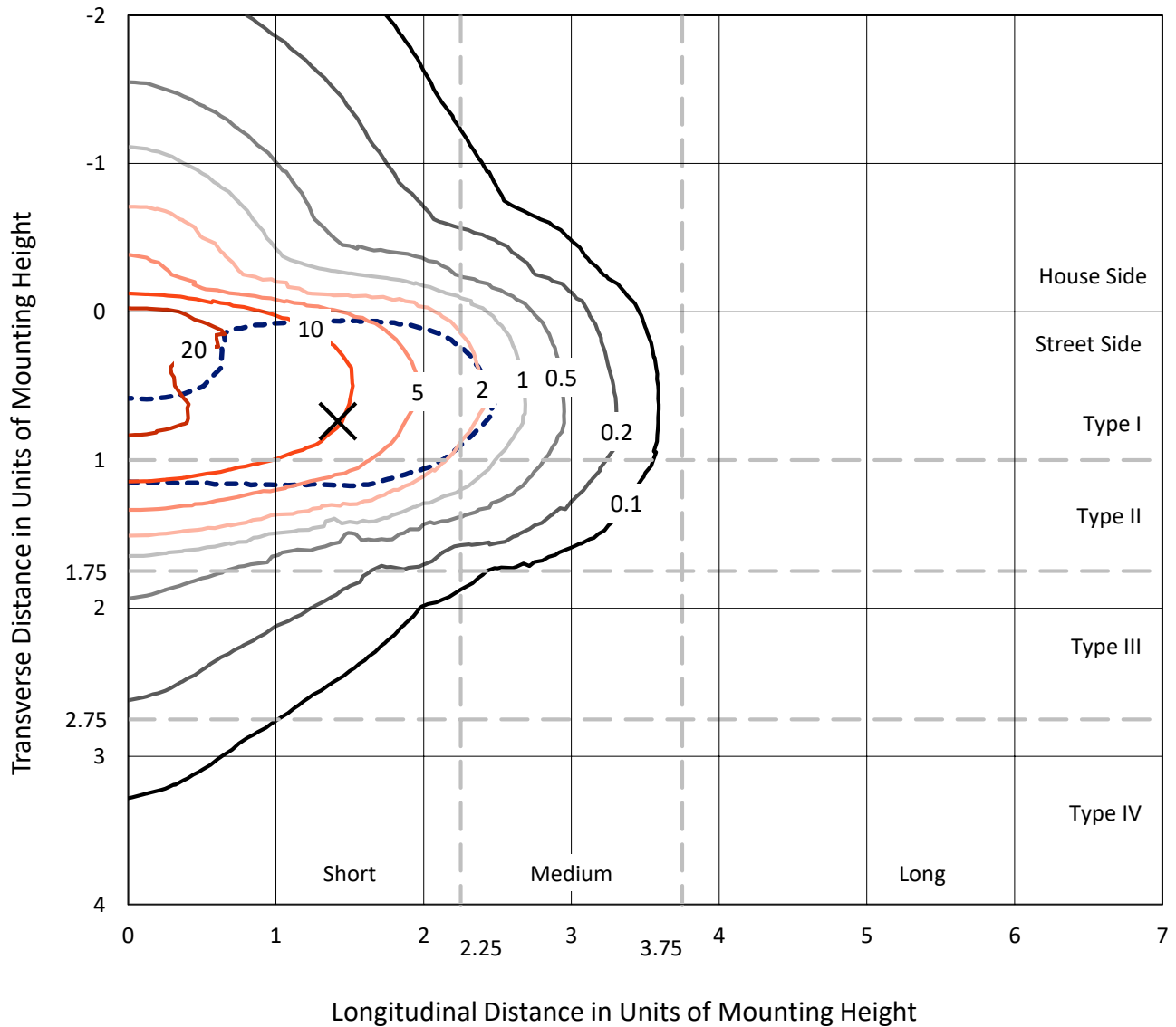


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### Iso-Footcandle Lines of Horizontal Illumination

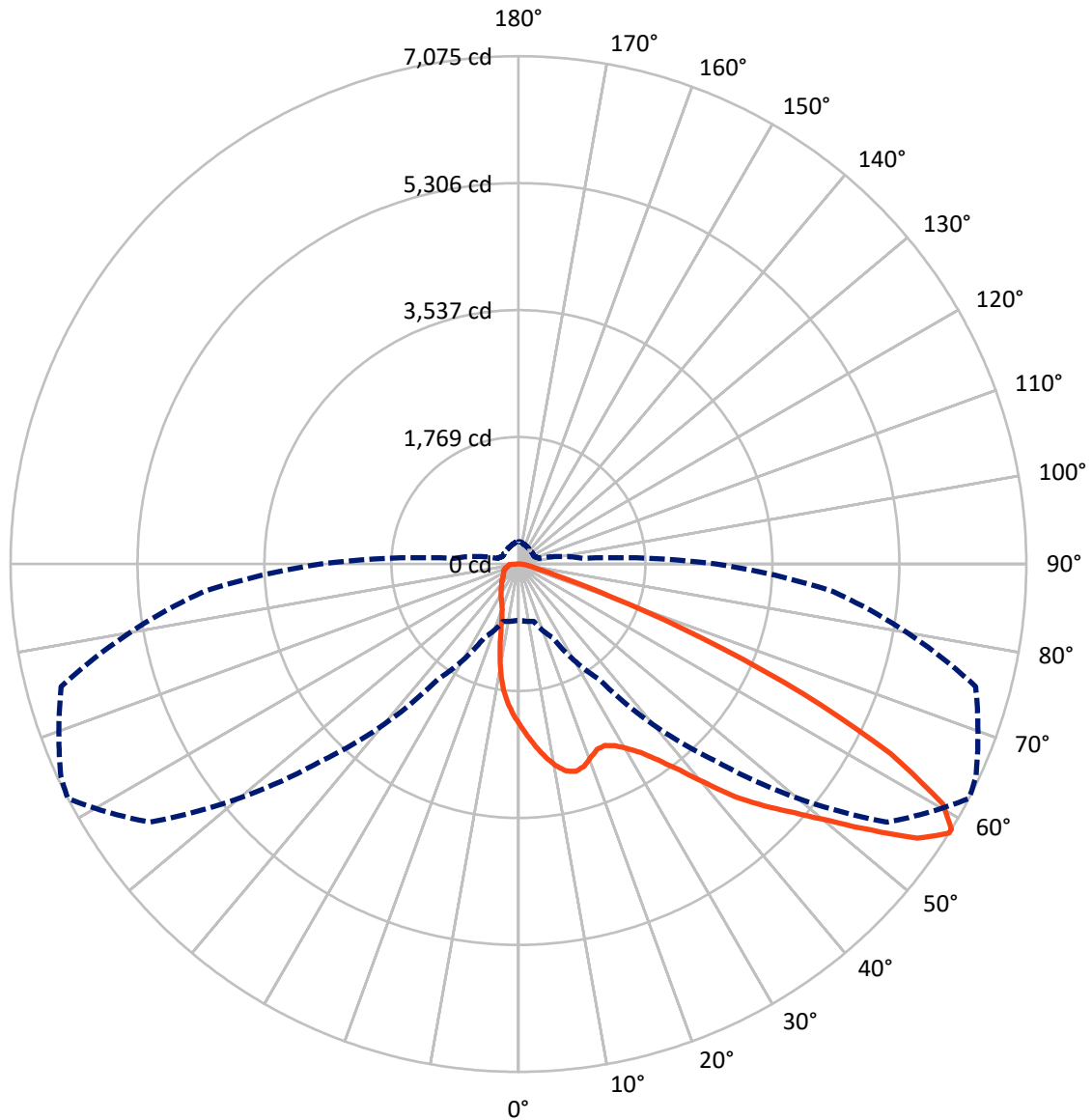
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1284.2	0.0	1284.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	7136.7	0.0	7136.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	8420.9	0.0	8420.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.1	2.4
10°-20°	511.4	6.1
20°-30°	826.6	9.8
30°-40°	1312.3	15.6
40°-50°	1920.2	22.8
50°-60°	2008.3	23.8
60°-70°	1186.5	14.1
70°-80°	334.2	4.0
80°-90°	121.3	1.4
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°	8420.9	100.0
0°-180°	8420.9	100.0



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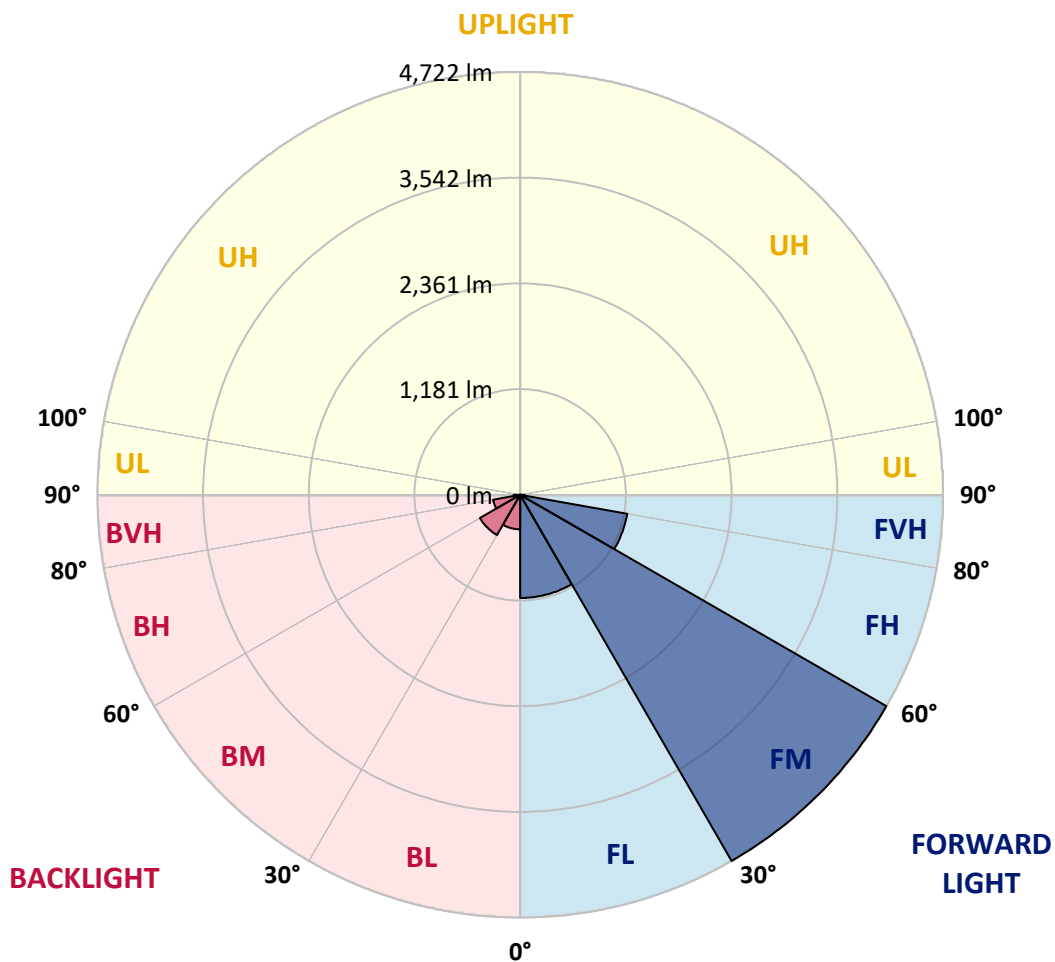
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.1	13.7			
FM	(30°-60°)	4722.4	56.1			
FH	(60°-80°)	1214.3	14.4			G1/1800
FVH	(80°-90°)	47.9	0.6			G1/100
BL	(0°-30°)	386.0	4.6	B1/500		
BM	(30°-60°)	518.3	6.2	B1/1000		
BH	(60°-80°)	306.4	3.6	B1/500		G1/500
BVH	(80°-90°)	73.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9
2.5°	2556.0	2535.5	2522.4	2510.8	2495.8	2463.7	2420.4	2393.1	2379.2	2332.0	2276.1
5°	2806.7	2788.5	2775.0	2759.5	2732.5	2682.2	2612.4	2556.9	2529.5	2435.1	2323.3
7.5°	2748.0	2755.5	2778.9	2819.8	2854.6	2847.9	2785.7	2715.1	2679.0	2547.8	2378.1
10°	2394.3	2407.3	2447.8	2543.4	2698.0	2856.6	2905.0	2856.3	2819.8	2659.2	2434.3
12.5°	2323.3	2322.9	2326.1	2351.5	2443.4	2666.7	2909.0	2958.2	2936.4	2765.4	2491.8
15°	2352.3	2353.0	2350.6	2361.4	2389.9	2478.3	2787.6	2997.5	3012.9	2872.4	2551.3
17.5°	2428.4	2426.4	2417.2	2417.2	2427.6	2462.0	2644.8	2960.9	3032.3	2967.3	2603.6
20°	2556.0	2546.9	2522.7	2500.5	2489.5	2508.1	2586.2	2876.8	2998.6	3050.1	2646.9
22.5°	2710.7	2703.6	2664.3	2616.7	2578.2	2577.8	2616.3	2803.5	2940.3	3128.3	2683.3
25°	2910.6	2899.0	2840.7	2764.6	2697.2	2671.4	2682.2	2799.9	2908.6	3213.1	2715.8
27.5°	3145.3	3124.3	3055.2	2945.5	2846.4	2794.4	2778.9	2864.6	2937.5	3318.2	2761.0
30°	3430.1	3405.8	3317.4	3174.2	3034.3	2949.1	2916.1	2979.1	3033.5	3446.3	2833.7
32.5°	3754.0	3719.1	3616.7	3459.0	3275.0	3145.0	3091.4	3130.6	3173.9	3600.5	2924.4
35°	4201.7	4160.0	4012.1	3794.4	3586.7	3407.9	3322.1	3350.7	3392.7	3830.5	3055.7
37.5°	4507.0	4488.4	4390.0	4185.4	3959.4	3753.6	3621.1	3637.8	3661.6	4118.0	3223.8
40°	4504.3	4511.7	4513.8	4515.7	4361.9	4164.8	4022.4	4005.0	4000.2	4433.7	3414.9
42.5°	4278.6	4309.5	4409.4	4612.1	4705.7	4615.2	4484.8	4434.5	4409.4	4805.6	3617.6
45°	3933.2	3949.9	4137.0	4532.8	4881.7	5061.4	4962.6	4804.0	4758.8	5147.4	3785.7
47.5°	3755.2	3773.5	3891.2	4322.6	4879.8	5421.8	5478.9	5176.7	5095.8	5444.9	3930.9
50°	3331.2	3369.4	3517.6	3957.0	4701.7	5587.6	6018.6	5620.9	5453.6	5734.3	4076.4
52.5°	2552.9	2611.6	2777.7	3355.9	4250.1	5505.5	6450.4	6159.4	5923.0	6034.1	4201.3
55°	1610.3	1653.9	1793.5	2370.1	3399.9	5078.4	6614.2	6741.9	6531.7	6317.9	4309.5
57.5°	875.5	895.0	947.4	1308.6	2211.5	4134.3	6375.4	7073.4	6986.1	6559.1	4391.2
58°	783.6	796.7	829.2	1134.0	1961.3	3876.2	6269.6	7074.5	7030.9	6594.4	4397.6
60°	581.3	574.6	545.6	647.1	1091.7	2677.8	5629.6	6791.5	6919.5	6637.6	4366.7
62.5°	510.8	494.5	435.4	428.6	530.9	1233.6	4307.5	5817.5	6120.1	6391.0	4178.7
65°	479.8	462.4	386.3	361.6	383.1	521.8	2537.4	4363.1	4742.5	5643.1	3698.1
67.5°	456.8	434.2	354.9	321.2	322.7	344.9	1017.1	2748.0	3175.0	4284.5	2876.4
70°	434.7	410.0	328.4	289.5	280.4	272.8	404.5	1375.6	1763.0	2706.3	1833.9
72.5°	410.8	386.6	304.9	264.5	246.6	221.7	264.1	562.7	785.9	1280.4	832.0
75°	376.3	354.5	281.5	242.2	216.9	183.6	199.5	293.8	352.5	509.9	400.9
77.5°	333.9	316.0	255.3	224.0	192.3	149.1	153.4	203.8	226.1	291.8	238.3
80°	239.9	246.2	227.2	201.4	171.3	120.9	117.7	148.7	160.6	187.6	155.1
82.5°	168.5	172.1	187.9	164.6	141.6	95.1	86.8	104.6	111.8	123.4	83.7
85°	116.2	112.2	128.9	114.6	102.3	63.4	59.4	71.0	75.4	76.5	43.3
87.5°	69.8	69.8	74.6	61.5	55.1	32.9	32.1	40.4	43.3	41.2	23.8
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°	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9
2.5°	2242.8	2214.7	2154.7	2106.8	2046.1	1983.1	1947.8	1910.1	1884.4	1865.7	1895.4
5°	2259.8	2202.3	2078.6	1961.3	1831.6	1696.8	1594.5	1499.3	1433.1	1391.8	1430.7
7.5°	2286.8	2198.4	2001.3	1800.7	1567.9	1343.4	1142.8	1017.1	943.8	907.7	930.3
10°	2317.7	2192.1	1910.5	1582.9	1249.8	967.1	817.2	766.5	749.8	743.1	746.2
12.5°	2343.5	2178.6	1799.1	1319.7	938.6	763.7	720.5	719.3	722.9	723.6	724.9
15°	2361.8	2158.7	1633.8	1045.3	750.6	695.9	693.6	700.7	707.4	710.2	711.8
17.5°	2374.1	2117.9	1447.0	826.3	672.5	663.0	668.6	677.7	684.8	686.8	688.3
20°	2372.8	2058.0	1224.5	689.2	630.1	630.1	639.7	646.7	647.1	644.8	646.0
22.5°	2360.6	1975.9	1008.7	616.2	592.4	599.1	608.7	601.9	574.2	556.0	557.1
25°	2339.9	1878.0	824.0	569.8	557.5	569.4	566.6	515.9	476.3	458.4	458.4
27.5°	2321.7	1762.2	682.0	529.4	522.6	537.3	488.2	442.1	425.4	417.2	414.4
30°	2308.6	1637.3	587.3	490.5	489.7	479.0	423.5	410.8	408.1	401.3	399.0
32.5°	2311.8	1510.8	526.6	456.4	459.2	410.0	392.6	395.4	392.9	385.9	382.7
35°	2338.0	1390.6	486.9	425.4	417.2	370.4	374.3	379.5	378.7	368.8	365.6
37.5°	2384.8	1276.8	460.7	399.7	364.1	350.6	356.9	364.8	362.8	356.1	353.7
40°	2433.9	1169.7	439.4	379.5	332.7	337.1	342.6	347.0	348.9	351.0	349.3
42.5°	2481.9	1057.9	413.2	358.9	319.6	324.4	326.7	331.1	341.8	349.3	348.9
45°	2510.4	952.9	386.3	329.5	309.3	312.1	310.5	319.2	332.3	344.6	344.9
47.5°	2542.1	871.1	364.8	302.6	299.4	301.4	296.7	305.4	317.2	332.3	333.9
50°	2580.6	822.5	347.8	281.1	285.9	285.9	284.7	292.7	309.3	326.7	329.9
52.5°	2624.3	812.9	333.5	265.7	272.4	272.0	273.2	285.1	303.3	320.4	323.2
55°	2677.4	838.7	318.0	254.2	259.3	261.0	264.8	278.3	293.8	313.2	314.5
57.5°	2739.3	891.0	305.8	245.1	247.5	252.6	258.9	271.2	287.9	309.3	310.5
58°	2749.6	902.1	303.7	244.3	245.1	251.0	258.2	270.1	286.7	310.1	311.3
60°	2750.0	939.0	299.4	240.7	235.9	245.8	253.8	265.7	284.7	312.8	315.7
62.5°	2652.4	938.6	296.2	235.6	226.4	238.8	247.9	261.7	282.7	319.6	325.2
65°	2335.6	852.9	281.1	227.6	218.9	232.4	242.6	258.9	288.3	348.9	352.5
67.5°	1826.8	699.1	253.0	216.6	209.0	226.1	239.5	258.5	294.2	355.7	358.0
70°	1207.8	523.0	222.1	203.8	198.7	218.5	241.1	272.0	287.4	341.5	335.1
72.5°	627.0	367.2	197.1	187.9	186.8	211.8	264.1	270.5	280.7	321.2	313.2
75°	329.1	255.0	175.2	170.5	172.5	210.1	311.7	263.3	272.0	307.3	322.3
77.5°	201.4	205.8	156.6	154.7	158.7	205.4	311.3	254.2	259.3	282.7	299.4
80°	134.8	166.9	142.4	142.7	145.6	187.9	279.6	239.9	243.9	267.3	284.3
82.5°	85.2	98.7	129.3	136.1	132.5	155.1	237.5	218.5	224.0	305.8	323.2
85°	43.3	61.9	112.2	130.8	119.4	108.6	192.7	191.5	194.3	220.4	230.4
87.5°	19.8	34.1	87.7	114.2	90.0	67.8	139.9	142.0	153.0	156.6	156.6
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)