

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: P191750

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191750
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8232 lumens
Efficiency: N/A
Efficacy: 124.7 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

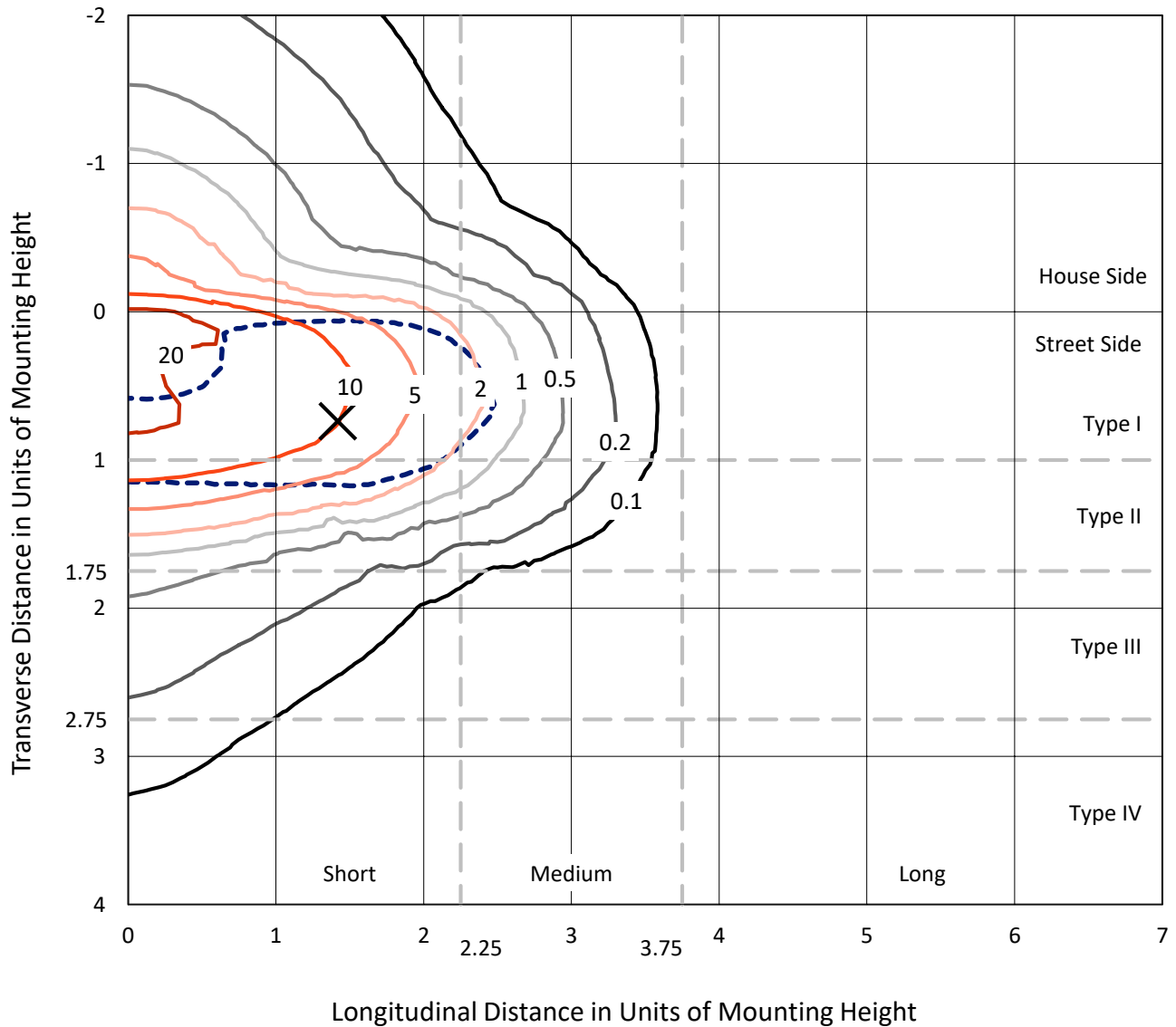


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Iso-Footcandle Lines of Horizontal Illumination

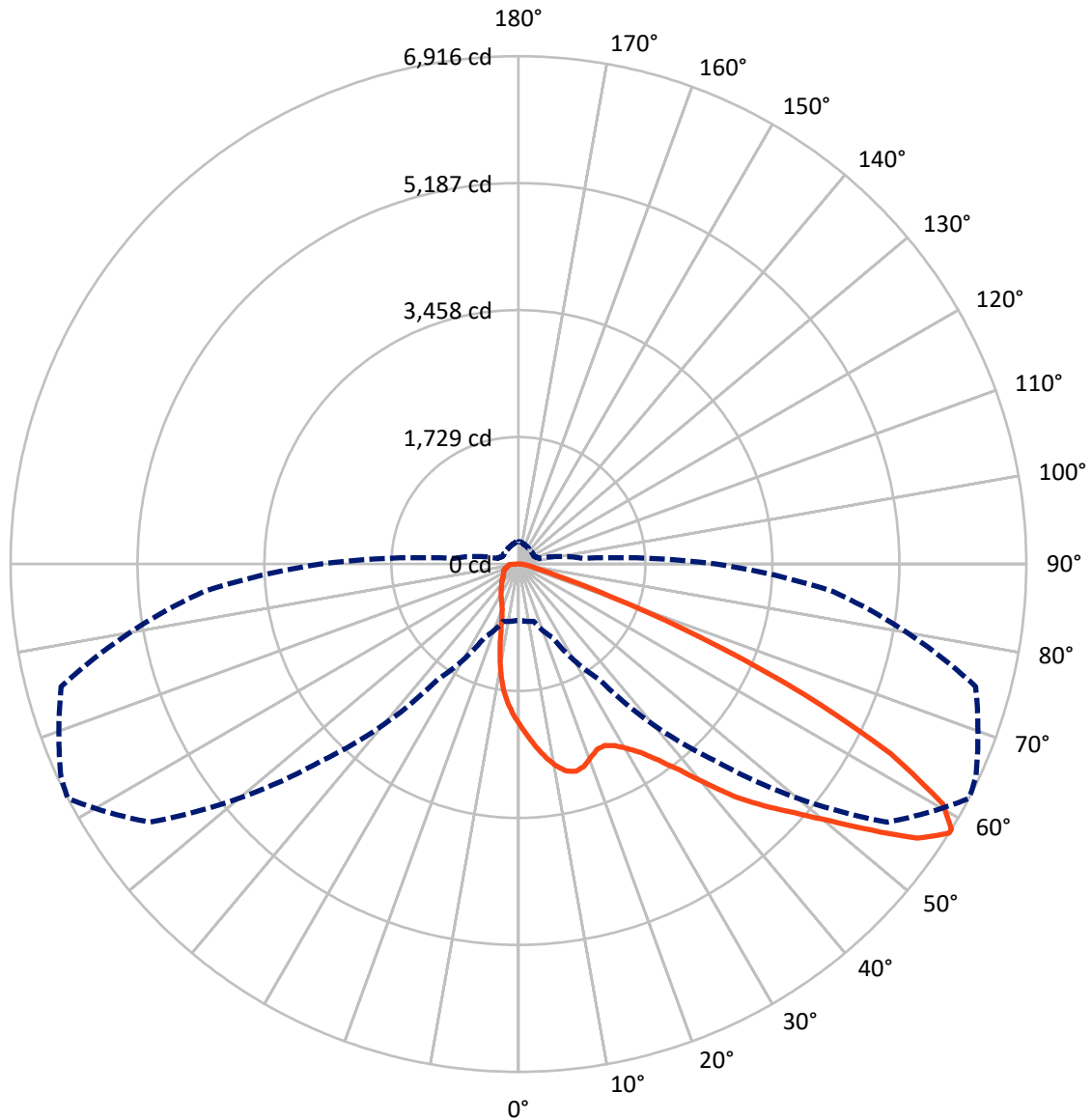
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.6 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
House Side	Lumens	1255.4	0.0	1255.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6976.6	0.0	6976.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	8232.0	0.0	8232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.4
10°-20°	499.9	6.1
20°-30°	808.1	9.8
30°-40°	1282.8	15.6
40°-50°	1877.1	22.8
50°-60°	1963.3	23.8
60°-70°	1159.9	14.1
70°-80°	326.7	4.0
80°-90°	118.6	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°	8232.0	100.0
0°-180°	8232.0	100.0



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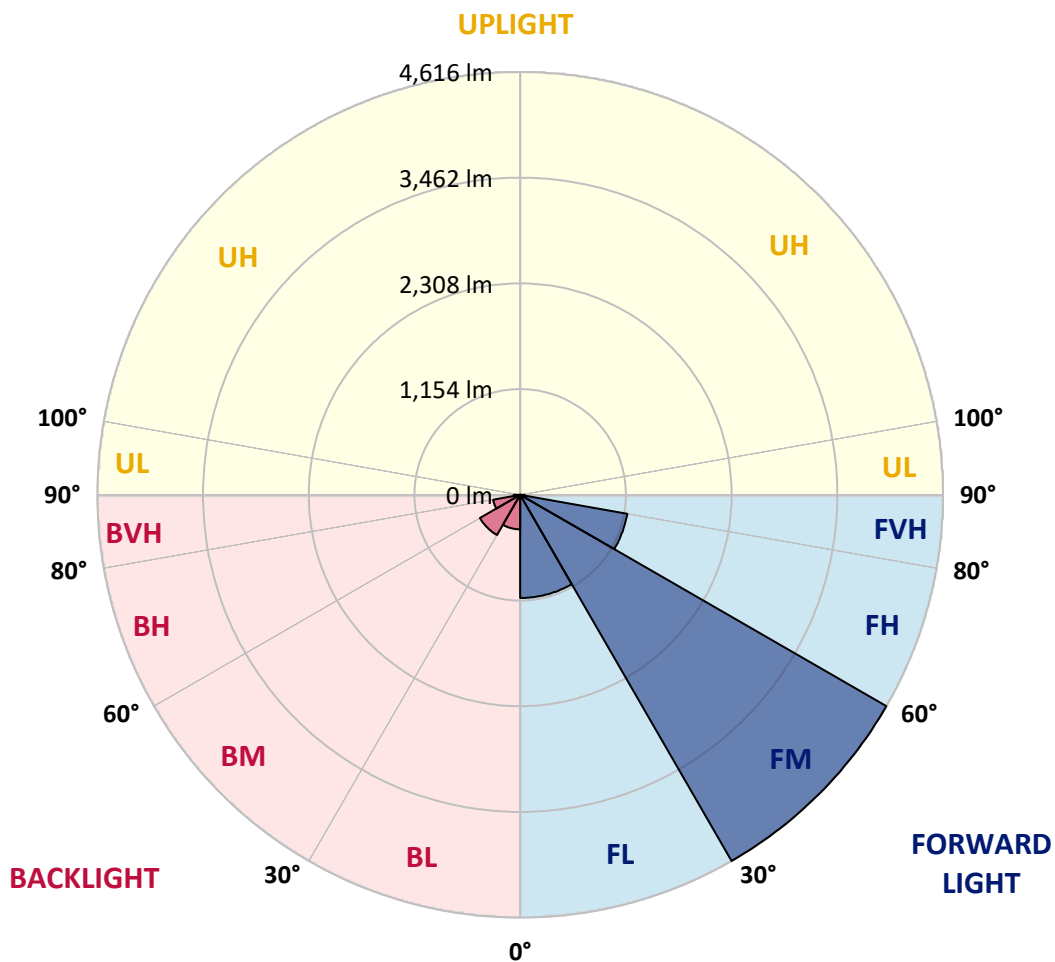
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.2	13.7			
FM	(30°-60°)	4616.5	56.1			
FH	(60°-80°)	1187.1	14.4			G1/1800
FVH	(80°-90°)	46.8	0.6			G1/100
BL	(0°-30°)	377.3	4.6	B1/500		
BM	(30°-60°)	506.7	6.2	B1/1000		
BH	(60°-80°)	299.6	3.6	B1/500		G1/500
BVH	(80°-90°)	71.8	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°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2498.7	2478.6	2465.8	2454.5	2439.8	2408.4	2366.1	2339.4	2325.8	2279.7	2225.0
5°	2743.7	2725.9	2712.7	2697.6	2671.2	2622.0	2553.8	2499.5	2472.7	2380.5	2271.2
7.5°	2686.3	2693.7	2716.6	2756.5	2790.6	2784.0	2723.2	2654.2	2618.9	2490.6	2324.7
10°	2340.6	2353.3	2392.9	2486.3	2637.5	2792.5	2839.8	2792.2	2756.5	2599.5	2379.7
12.5°	2271.2	2270.8	2273.9	2298.7	2388.6	2606.9	2843.7	2891.8	2870.5	2703.4	2435.9
15°	2299.5	2300.2	2297.9	2308.4	2336.3	2422.7	2725.1	2930.2	2945.3	2808.0	2494.1
17.5°	2373.9	2372.0	2363.0	2363.0	2373.1	2406.8	2585.5	2894.5	2964.3	2900.7	2545.2
20°	2498.7	2489.8	2466.1	2444.4	2433.6	2451.8	2528.2	2812.3	2931.3	2981.7	2587.5
22.5°	2649.9	2642.9	2604.5	2558.0	2520.4	2520.0	2557.6	2740.6	2874.3	3058.1	2623.1
25°	2845.3	2834.0	2777.0	2702.6	2636.7	2611.5	2622.0	2737.1	2843.3	3141.0	2654.9
27.5°	3074.7	3054.2	2986.7	2879.4	2782.5	2731.7	2716.6	2800.3	2871.6	3243.8	2699.1
30°	3353.1	3329.4	3243.0	3103.0	2966.2	2882.9	2850.7	2912.3	2965.4	3369.0	2770.1
32.5°	3669.8	3635.7	3535.6	3381.4	3201.5	3074.4	3022.0	3060.4	3102.7	3519.7	2858.8
35°	4107.4	4066.7	3922.1	3709.3	3506.2	3331.4	3247.6	3275.5	3316.6	3744.6	2987.1
37.5°	4405.9	4387.7	4291.5	4091.5	3870.6	3669.4	3539.9	3556.2	3579.4	4025.6	3151.5
40°	4403.2	4410.5	4412.5	4414.4	4264.0	4071.4	3932.2	3915.1	3910.5	4334.2	3338.3
42.5°	4182.6	4212.8	4310.5	4508.6	4600.1	4511.7	4384.2	4335.0	4310.5	4697.8	3536.4
45°	3845.0	3861.3	4044.2	4431.1	4772.2	4947.8	4851.3	4696.2	4652.0	5031.9	3700.8
47.5°	3670.9	3688.8	3803.9	4225.6	4770.3	5300.2	5356.0	5060.6	4981.5	5322.7	3842.7
50°	3256.5	3293.8	3438.7	3868.2	4596.2	5462.2	5883.6	5494.8	5331.2	5605.6	3984.9
52.5°	2495.6	2553.0	2715.4	3280.6	4154.7	5382.0	6305.7	6021.2	5790.1	5898.7	4107.0
55°	1574.2	1616.8	1753.3	2316.9	3323.6	4964.5	6465.8	6590.6	6385.2	6176.2	4212.8
57.5°	855.9	874.9	926.1	1279.2	2161.9	4041.5	6232.4	6914.7	6829.4	6411.9	4292.7
58°	766.0	778.8	810.6	1108.6	1917.3	3789.2	6128.9	6915.8	6873.2	6446.4	4298.9
60°	568.3	561.7	533.4	632.6	1067.2	2617.7	5503.3	6639.1	6764.3	6488.7	4268.7
62.5°	499.3	483.4	425.6	419.0	519.0	1205.9	4210.9	5687.0	5982.8	6247.6	4084.9
65°	469.0	452.0	377.6	353.5	374.5	510.1	2480.5	4265.2	4636.1	5516.5	3615.1
67.5°	446.6	424.5	346.9	314.0	315.5	337.2	994.3	2686.3	3103.8	4188.4	2811.9
70°	424.9	400.8	321.0	283.0	274.1	266.7	395.4	1344.7	1723.4	2645.6	1792.8
72.5°	401.6	377.9	298.1	258.6	241.1	216.7	258.2	550.1	768.3	1251.7	813.3
75°	367.9	346.5	275.2	236.8	212.0	179.5	195.0	287.2	344.6	498.5	391.9
77.5°	326.4	308.9	249.6	219.0	188.0	145.8	150.0	199.2	221.0	285.3	233.0
80°	234.5	240.7	222.1	196.9	167.5	118.2	115.1	145.4	157.0	183.4	151.6
82.5°	164.7	168.2	183.7	160.9	138.4	93.0	84.9	102.3	109.3	120.6	81.8
85°	113.6	109.7	126.0	112.0	100.0	62.0	58.1	69.4	73.7	74.8	42.3
87.5°	68.2	68.2	72.9	60.1	53.9	32.2	31.4	39.5	42.3	40.3	23.3
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°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2192.5	2165.0	2106.4	2059.5	2000.2	1938.6	1904.1	1867.2	1842.1	1823.8	1852.9
5°	2209.1	2152.9	2032.0	1917.3	1790.5	1658.7	1558.7	1465.7	1400.9	1360.6	1398.6
7.5°	2235.5	2149.1	1956.4	1760.3	1532.7	1313.3	1117.2	994.3	922.6	887.3	909.4
10°	2265.7	2142.9	1867.6	1547.4	1221.8	945.4	798.9	749.3	733.0	726.4	729.5
12.5°	2290.9	2129.7	1758.7	1290.1	917.5	746.6	704.3	703.2	706.7	707.4	708.6
15°	2308.8	2110.3	1597.1	1021.8	733.8	680.3	678.0	685.0	691.5	694.3	695.8
17.5°	2320.8	2070.4	1414.5	807.8	657.4	648.1	653.6	662.5	669.4	671.4	672.9
20°	2319.6	2011.8	1197.0	673.7	616.0	616.0	625.3	632.2	632.6	630.3	631.5
22.5°	2307.6	1931.6	986.1	602.4	579.1	585.7	595.0	588.4	561.3	543.5	544.6
25°	2287.4	1835.9	805.5	557.0	545.0	556.6	553.9	504.3	465.6	448.1	448.1
27.5°	2269.6	1722.7	666.7	517.5	510.9	525.2	477.2	432.2	415.9	407.8	405.1
30°	2256.8	1600.6	574.1	479.5	478.7	468.3	414.0	401.6	398.9	392.3	390.0
32.5°	2259.9	1476.9	514.8	446.2	448.9	400.8	383.8	386.5	384.1	377.2	374.1
35°	2285.5	1359.4	476.0	415.9	407.8	362.1	365.9	371.0	370.2	360.5	357.4
37.5°	2331.3	1248.2	450.4	390.7	355.9	342.7	348.9	356.6	354.7	348.1	345.8
40°	2379.3	1143.5	429.5	371.0	325.2	329.5	334.9	339.2	341.1	343.1	341.5
42.5°	2426.2	1034.2	403.9	350.8	312.4	317.1	319.4	323.7	334.1	341.5	341.1
45°	2454.1	931.5	377.6	322.1	302.4	305.1	303.5	312.0	324.8	336.9	337.2
47.5°	2485.1	851.6	356.6	295.8	292.7	294.6	290.0	298.5	310.1	324.8	326.4
50°	2522.7	804.0	340.0	274.8	279.5	279.5	278.3	286.1	302.4	319.4	322.5
52.5°	2565.4	794.7	326.0	259.7	266.3	265.9	267.1	278.7	296.5	313.2	315.9
55°	2617.3	819.9	310.9	248.5	253.5	255.1	258.9	272.1	287.2	306.2	307.4
57.5°	2677.8	871.0	298.9	239.6	241.9	246.9	253.1	265.1	281.4	302.4	303.5
58°	2687.9	881.9	296.9	238.8	239.6	245.4	252.4	264.0	280.3	303.1	304.3
60°	2688.3	917.9	292.7	235.3	230.6	240.3	248.1	259.7	278.3	305.8	308.6
62.5°	2592.9	917.5	289.6	230.3	221.3	233.4	242.3	255.8	276.4	312.4	317.9
65°	2283.2	833.8	274.8	222.5	214.0	227.2	237.2	253.1	281.8	341.1	344.6
67.5°	1785.8	683.4	247.3	211.7	204.3	221.0	234.1	252.7	287.6	347.7	350.0
70°	1180.7	511.3	217.1	199.2	194.2	213.6	235.7	265.9	281.0	333.8	327.6
72.5°	612.9	359.0	192.7	183.7	182.6	207.0	258.2	264.4	274.4	314.0	306.2
75°	321.7	249.3	171.3	166.7	168.6	205.4	304.7	257.4	265.9	300.4	315.1
77.5°	196.9	201.2	153.1	151.2	155.1	200.8	304.3	248.5	253.5	276.4	292.7
80°	131.8	163.2	139.2	139.5	142.3	183.7	273.3	234.5	238.4	261.3	277.9
82.5°	83.3	96.5	126.4	133.0	129.5	151.6	232.2	213.6	219.0	298.9	315.9
85°	42.3	60.5	109.7	127.9	116.7	106.2	188.4	187.2	189.9	215.5	225.2
87.5°	19.4	33.3	85.7	111.6	88.0	66.3	136.8	138.8	149.6	153.1	153.1
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)