

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: P193491

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193491
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-03-LED-E1-AFL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10024 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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

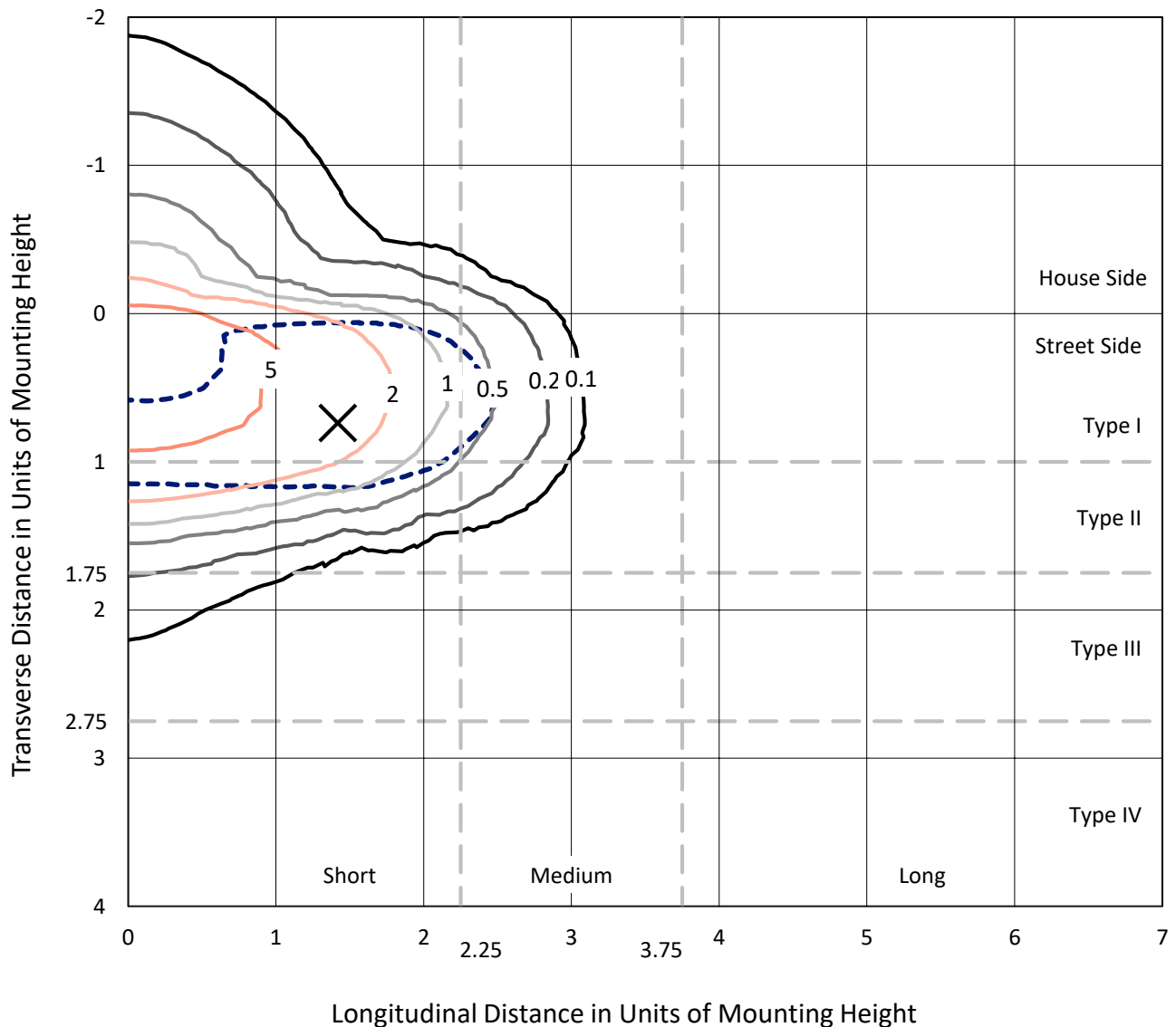


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Iso-Footcandle Lines of Horizontal Illumination

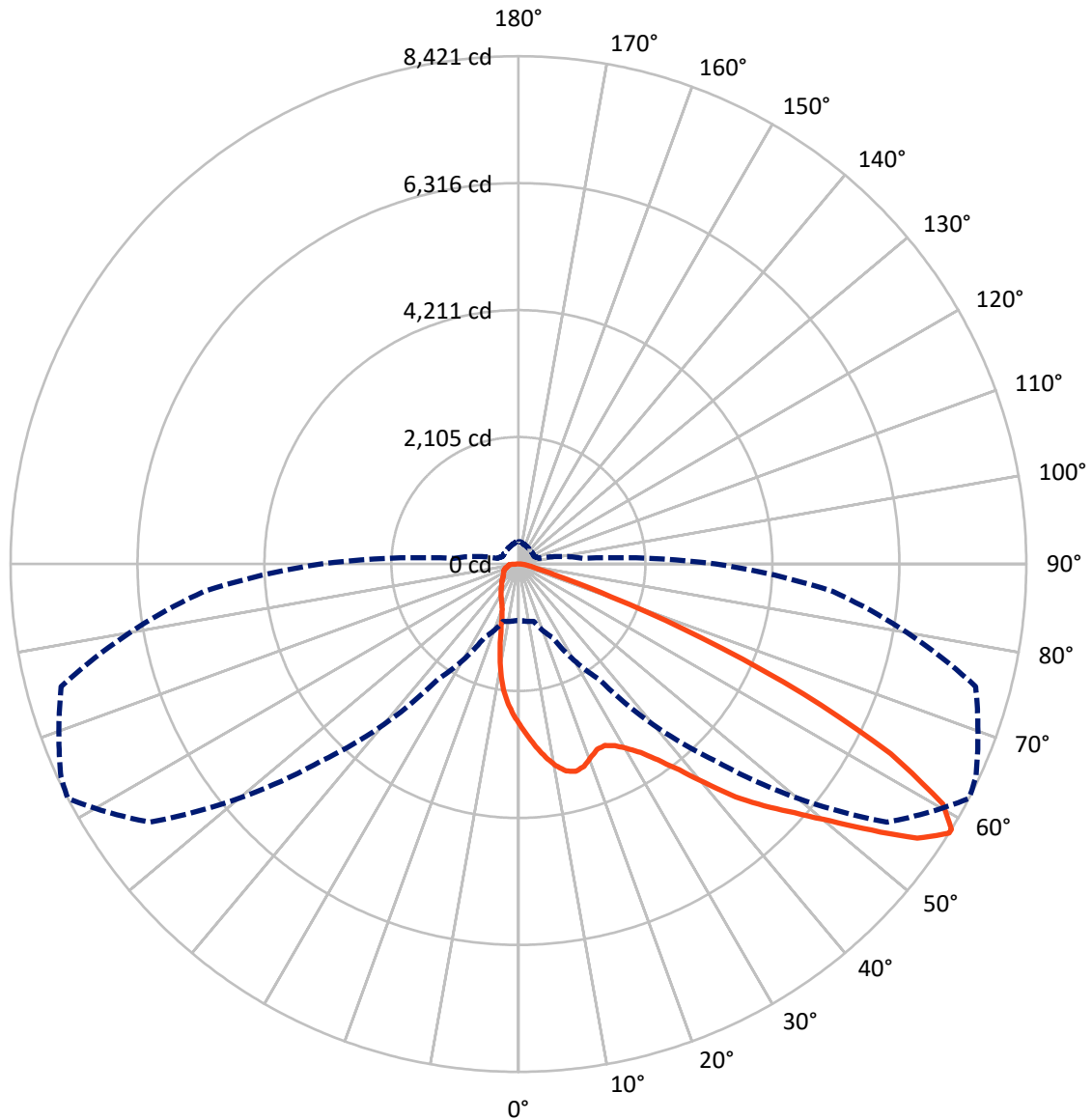
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1528.7	0.0	1528.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8495.3	0.0	8495.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	10024.0	0.0	10024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	2.4
10°-20°	608.7	6.1
20°-30°	984.0	9.8
30°-40°	1562.1	15.6
40°-50°	2285.7	22.8
50°-60°	2390.6	23.8
60°-70°	1412.4	14.1
70°-80°	397.9	4.0
80°-90°	144.5	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°	10024.0	100.0
0°-180°	10024.0	100.0



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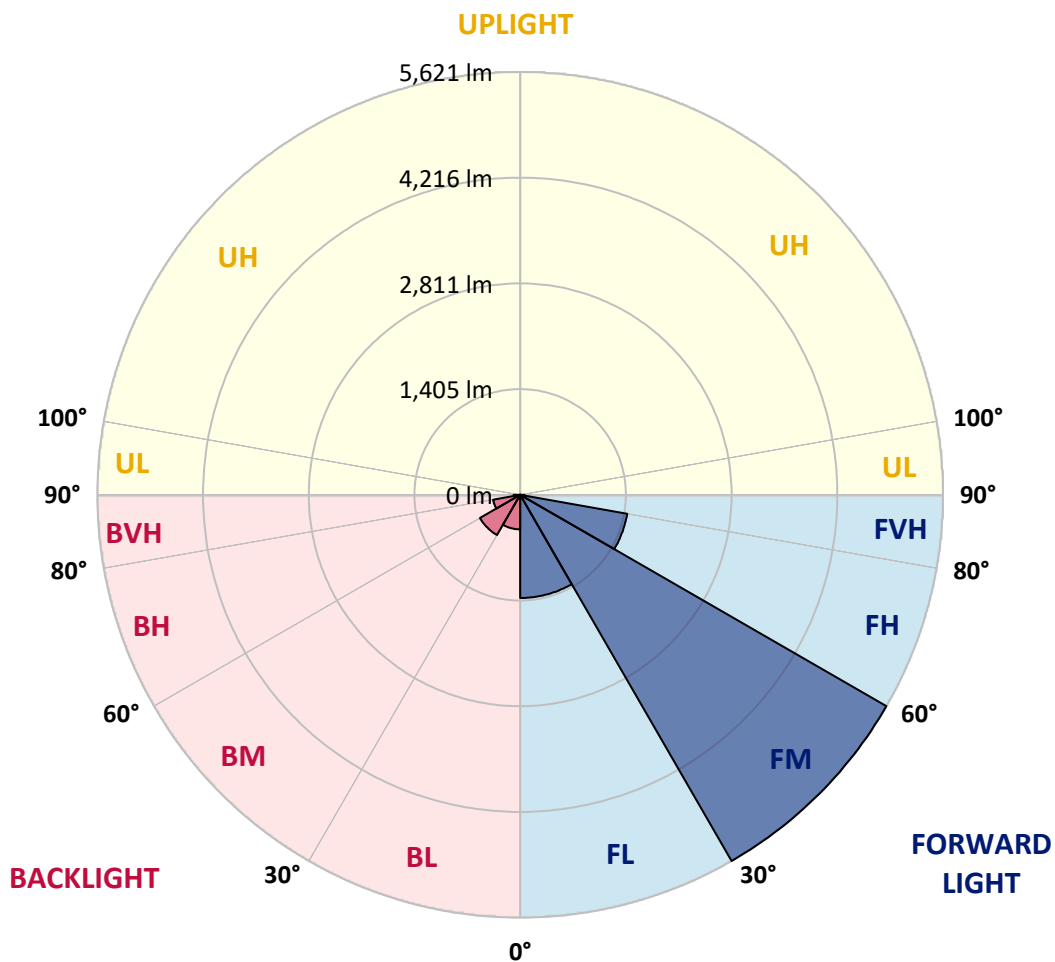
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1371.4	13.7			
FM	(30°-60°)	5621.4	56.1			
FH	(60°-80°)	1445.5	14.4			G1/1800
FVH	(80°-90°)	57.0	0.6			G1/100
BL	(0°-30°)	459.5	4.6	B1/500		
BM	(30°-60°)	617.0	6.2	B1/1000		
BH	(60°-80°)	364.8	3.6	B1/500		G1/500
BVH	(80°-90°)	87.5	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°	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	3042.6	3018.1	3002.5	2988.8	2970.9	2932.7	2881.2	2848.6	2832.1	2776.0	2709.4
5°	3341.0	3319.3	3303.2	3284.8	3252.7	3192.8	3109.7	3043.6	3011.0	2898.7	2765.6
7.5°	3271.1	3280.1	3307.9	3356.5	3398.1	3390.1	3315.9	3231.9	3189.0	3032.7	2830.7
10°	2850.1	2865.6	2913.8	3027.5	3211.6	3400.4	3458.0	3400.0	3356.5	3165.4	2897.7
12.5°	2765.6	2765.1	2768.9	2799.1	2908.6	3174.3	3462.7	3521.3	3495.3	3291.9	2966.2
15°	2800.0	2801.0	2798.1	2810.9	2844.9	2950.1	3318.3	3568.0	3586.4	3419.3	3037.0
17.5°	2890.7	2888.3	2877.4	2877.4	2889.7	2930.8	3148.4	3524.6	3609.5	3532.1	3099.3
20°	3042.6	3031.8	3003.0	2976.6	2963.3	2985.5	3078.5	3424.5	3569.4	3630.8	3150.7
22.5°	3226.7	3218.2	3171.5	3114.9	3069.1	3068.6	3114.4	3337.2	3500.0	3723.8	3194.2
25°	3464.6	3450.9	3381.6	3290.9	3210.7	3180.0	3192.8	3332.9	3462.3	3824.8	3232.9
27.5°	3744.1	3719.1	3636.9	3506.2	3388.2	3326.3	3307.9	3409.9	3496.7	3949.9	3286.7
30°	4083.0	4054.2	3948.9	3778.5	3611.9	3510.4	3471.2	3546.3	3611.0	4102.3	3373.1
32.5°	4468.6	4427.1	4305.3	4117.4	3898.4	3743.6	3679.9	3726.6	3778.1	4286.0	3481.2
35°	5001.5	4952.0	4775.9	4516.8	4269.4	4056.5	3954.6	3988.6	4038.6	4559.7	3637.4
37.5°	5365.0	5342.8	5225.7	4982.2	4713.1	4468.2	4310.5	4330.3	4358.6	4901.9	3837.5
40°	5361.7	5370.7	5373.0	5375.4	5192.2	4957.6	4788.2	4767.4	4761.7	5277.7	4065.0
42.5°	5093.1	5129.9	5248.9	5490.1	5601.5	5493.9	5338.6	5278.6	5248.9	5720.4	4306.2
45°	4682.0	4701.8	4924.6	5395.7	5811.1	6024.9	5907.3	5718.5	5664.7	6127.3	4506.4
47.5°	4470.0	4491.8	4631.9	5145.5	5808.7	6453.9	6521.9	6162.2	6065.9	6481.3	4679.1
50°	3965.4	4010.8	4187.3	4710.3	5596.8	6651.3	7164.3	6690.9	6491.7	6825.9	4852.4
52.5°	3038.9	3108.7	3306.5	3994.7	5059.1	6553.5	7678.4	7331.9	7050.6	7182.7	5001.1
55°	1916.9	1968.8	2135.0	2821.3	4047.1	6045.2	7873.3	8025.3	7775.1	7520.7	5129.9
57.5°	1042.2	1065.4	1127.7	1557.7	2632.5	4921.3	7589.2	8419.9	8316.1	7807.7	5227.2
58°	932.7	948.3	987.0	1350.0	2334.6	4614.0	7463.1	8421.3	8369.4	7849.7	5234.7
60°	692.0	684.0	649.5	770.3	1299.5	3187.6	6701.3	8084.3	8236.8	7901.2	5197.9
62.5°	608.0	588.6	518.3	510.3	632.0	1468.5	5127.6	6925.0	7285.2	7607.6	4974.2
65°	571.1	550.4	459.7	430.5	456.0	621.2	3020.5	5193.6	5645.4	6717.3	4402.1
67.5°	543.8	516.9	422.5	382.3	384.2	410.7	1210.7	3271.1	3779.5	5100.2	3424.0
70°	517.3	488.1	390.8	344.6	333.7	324.8	481.5	1637.4	2098.6	3221.5	2183.1
72.5°	489.0	460.2	363.0	314.8	293.6	263.9	314.4	669.8	935.5	1524.2	990.3
75°	447.9	422.0	335.1	288.4	258.2	218.5	237.4	349.8	419.6	607.0	477.2
77.5°	397.4	376.2	304.0	266.7	228.9	177.5	182.7	242.6	269.1	347.4	283.7
80°	285.6	293.1	270.5	239.8	203.9	144.0	140.2	177.0	191.2	223.3	184.6
82.5°	200.6	204.9	223.7	195.9	168.5	113.3	103.4	124.6	133.1	146.8	99.6
85°	138.3	133.6	153.4	136.4	121.8	75.5	70.8	84.5	89.7	91.1	51.5
87.5°	83.1	83.1	88.7	73.2	65.6	39.2	38.2	48.1	51.5	49.1	28.3
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°	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	2669.8	2636.2	2565.0	2507.8	2435.6	2360.6	2318.6	2273.7	2243.0	2220.9	2256.3
5°	2690.0	2621.6	2474.3	2334.6	2180.3	2019.8	1898.0	1784.7	1705.9	1656.8	1703.1
7.5°	2722.1	2616.9	2382.3	2143.4	1866.4	1599.2	1360.4	1210.7	1123.4	1080.5	1107.4
10°	2759.0	2609.3	2274.2	1884.3	1487.8	1151.3	972.8	912.4	892.6	884.6	888.3
12.5°	2789.6	2593.3	2141.6	1570.9	1117.3	909.1	857.7	856.2	860.5	861.4	862.9
15°	2811.4	2569.7	1944.7	1244.2	893.5	828.4	825.6	834.1	842.1	845.4	847.3
17.5°	2826.0	2521.1	1722.4	983.7	800.5	789.2	795.8	806.7	815.2	817.5	819.4
20°	2824.6	2449.8	1457.6	820.4	750.0	750.0	761.4	769.9	770.3	767.5	768.9
22.5°	2809.9	2352.1	1200.8	733.5	705.2	713.2	724.6	716.5	683.5	661.8	663.2
25°	2785.4	2235.5	980.9	678.3	663.7	677.8	674.5	614.1	566.9	545.7	545.7
27.5°	2763.7	2097.7	811.9	630.1	622.1	639.6	581.1	526.3	506.5	496.6	493.3
30°	2748.1	1949.0	699.1	583.9	582.9	570.2	504.1	489.0	485.7	477.7	474.9
32.5°	2751.9	1798.4	626.8	543.3	546.6	488.1	467.3	470.6	467.8	459.3	455.5
35°	2783.0	1655.4	579.6	506.5	496.6	440.9	445.6	451.7	450.8	439.0	435.2
37.5°	2838.7	1519.9	548.5	475.8	433.3	417.3	424.8	434.3	431.9	423.9	421.0
40°	2897.3	1392.5	523.0	451.7	396.0	401.2	407.8	413.0	415.4	417.7	415.9
42.5°	2954.4	1259.4	491.8	427.2	380.4	386.1	388.9	394.1	406.9	415.9	415.4
45°	2988.4	1134.3	459.7	392.2	368.2	371.5	369.6	380.0	395.6	410.2	410.7
47.5°	3026.1	1037.0	434.3	360.2	356.4	358.7	353.1	363.5	377.6	395.6	397.4
50°	3071.9	979.0	414.0	334.7	340.3	340.3	338.9	348.4	368.2	388.9	392.7
52.5°	3123.8	967.6	397.0	316.3	324.3	323.8	325.2	339.4	361.1	381.4	384.7
55°	3187.1	998.3	378.6	302.6	308.7	310.6	315.3	331.4	349.8	372.9	374.3
57.5°	3260.7	1060.6	363.9	291.7	294.5	300.7	308.2	322.9	342.7	368.2	369.6
58°	3273.0	1073.8	361.6	290.8	291.7	298.8	307.3	321.4	341.3	369.1	370.5
60°	3273.5	1117.7	356.4	286.5	280.9	292.7	302.1	316.3	338.9	372.4	375.7
62.5°	3157.3	1117.3	352.6	280.4	269.5	284.2	295.0	311.5	336.6	380.4	387.1
65°	2780.2	1015.3	334.7	270.9	260.6	276.6	288.9	308.2	343.2	415.4	419.6
67.5°	2174.6	832.2	301.1	257.7	248.8	269.1	285.1	307.8	350.2	423.4	426.2
70°	1437.8	622.6	264.3	242.6	236.5	260.1	287.0	323.8	342.2	406.4	398.9
72.5°	746.3	437.1	234.6	223.7	222.3	252.1	314.4	321.9	334.2	382.3	372.9
75°	391.8	303.5	208.6	203.0	205.3	250.2	371.0	313.4	323.8	365.8	383.8
77.5°	239.8	245.0	186.4	184.1	188.8	244.5	370.5	302.6	308.7	336.6	356.4
80°	160.5	198.7	169.5	169.9	173.2	223.7	332.8	285.6	290.3	318.1	338.4
82.5°	101.5	117.5	153.9	161.9	157.7	184.6	282.7	260.1	266.7	363.9	384.7
85°	51.5	73.6	133.6	155.8	142.1	129.3	229.4	228.0	231.3	262.4	274.2
87.5°	23.6	40.6	104.3	135.9	107.1	80.7	166.6	169.0	182.2	186.4	186.4
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)