

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: P193510

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193510
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10195 lumens
Efficiency: N/A
Efficacy: 90.2 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

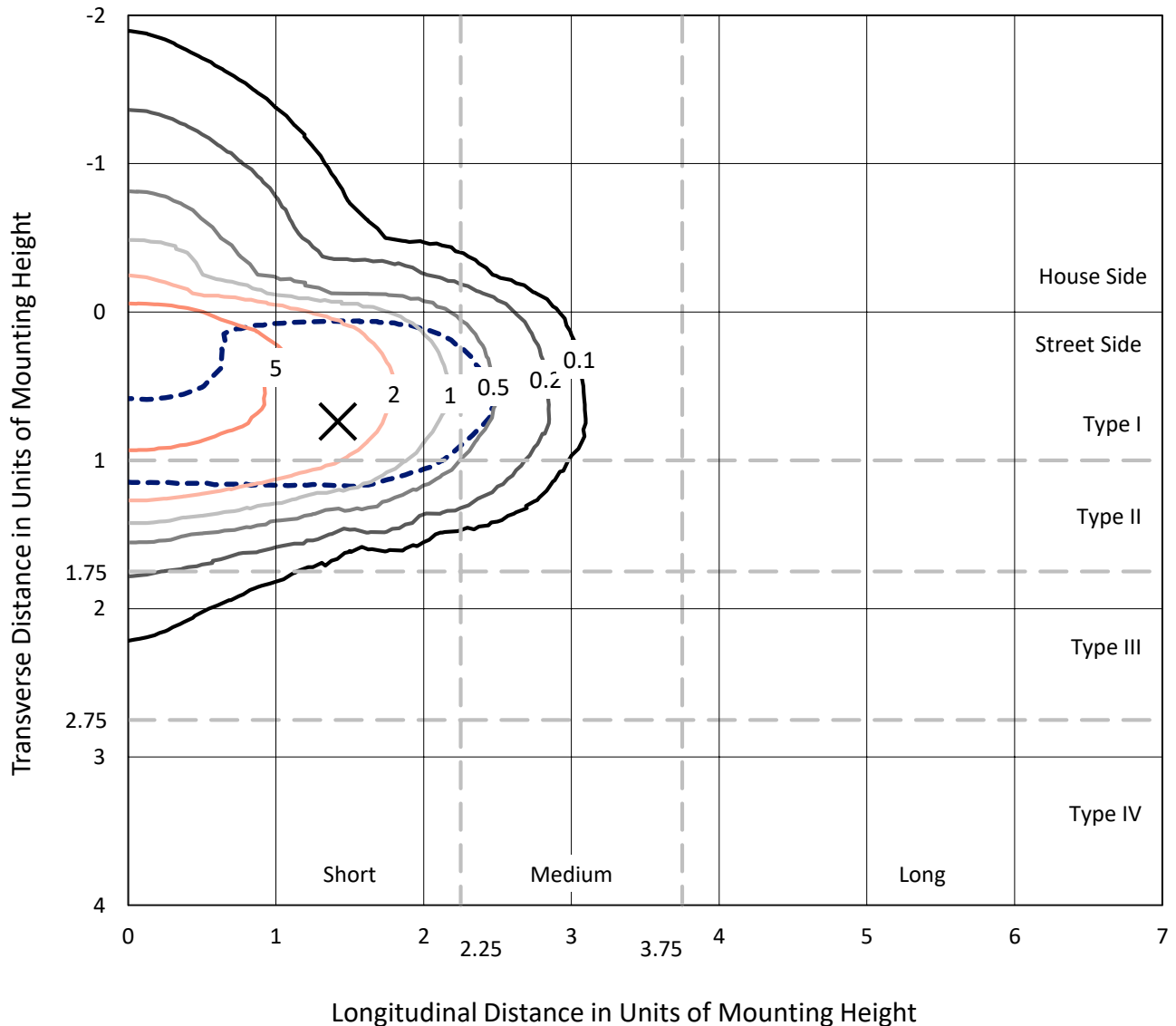
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

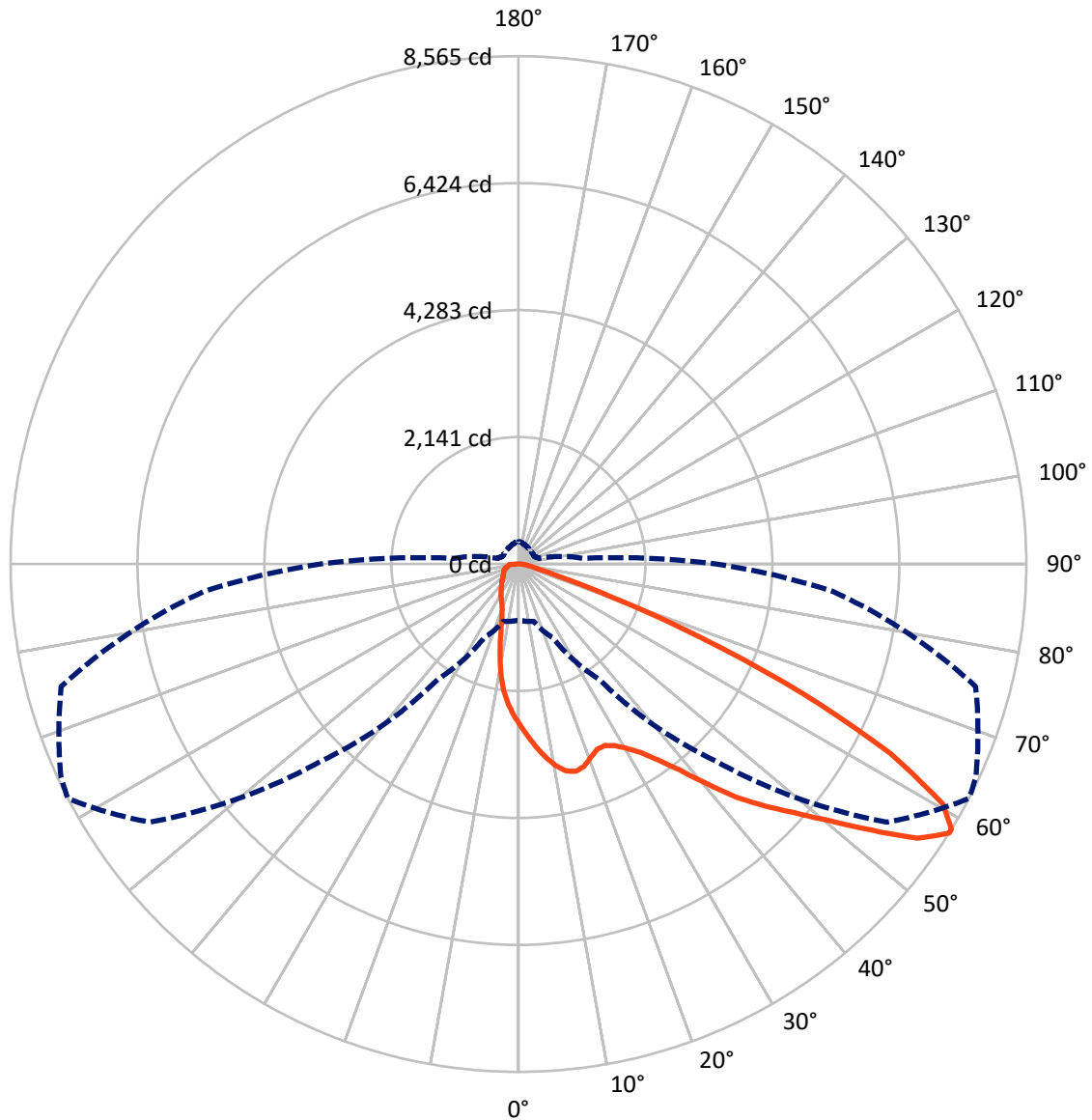
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193510
CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-8030

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	1554.8	0.0	1554.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8640.2	0.0	8640.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	10195.0	0.0	10195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	2.4
10°-20°	619.1	6.1
20°-30°	1000.8	9.8
30°-40°	1588.8	15.6
40°-50°	2324.7	22.8
50°-60°	2431.4	23.8
60°-70°	1436.5	14.1
70°-80°	404.7	4.0
80°-90°	146.9	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°	10195.0	100.0
0°-180°	10195.0	100.0



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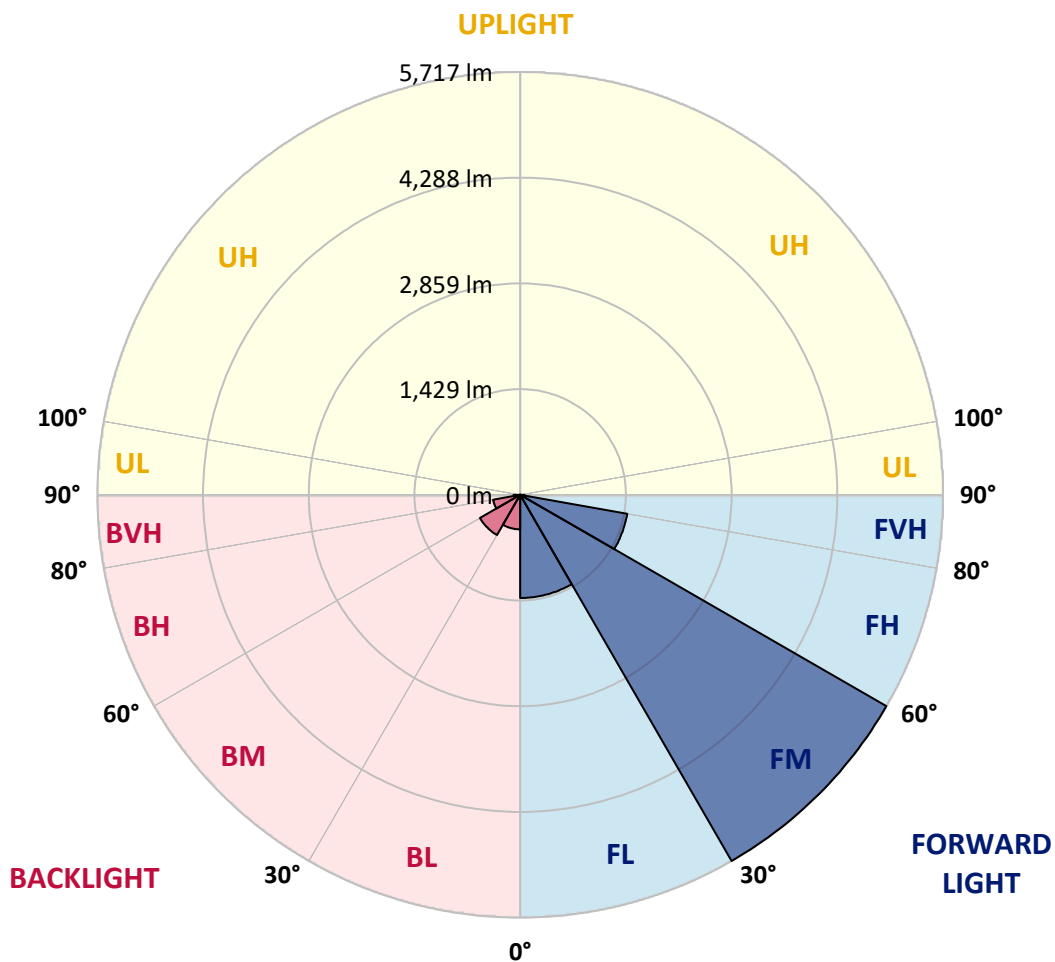
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.8	13.7			
FM	(30°-60°)	5717.3	56.1			
FH	(60°-80°)	1470.2	14.4			G1/1800
FVH	(80°-90°)	58.0	0.6			G1/100
BL	(0°-30°)	467.3	4.6	B1/500		
BM	(30°-60°)	627.5	6.2	B1/1000		
BH	(60°-80°)	371.0	3.6	B1/500		G1/500
BVH	(80°-90°)	89.0	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°	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1
2.5°	3094.6	3069.6	3053.7	3039.8	3021.6	2982.7	2930.4	2897.2	2880.4	2823.3	2755.6
5°	3398.0	3375.9	3359.6	3340.8	3308.2	3247.2	3162.7	3095.5	3062.4	2948.1	2812.8
7.5°	3326.9	3336.0	3364.4	3413.8	3456.0	3447.9	3372.5	3287.1	3243.4	3084.5	2879.0
10°	2898.7	2914.5	2963.5	3079.2	3266.4	3458.4	3517.0	3458.0	3413.8	3219.4	2947.2
12.5°	2812.8	2812.3	2816.1	2846.8	2958.2	3228.5	3521.8	3581.3	3554.9	3348.0	3016.8
15°	2847.8	2848.8	2845.9	2858.8	2893.4	3000.5	3374.9	3628.9	3647.6	3477.7	3088.8
17.5°	2940.0	2937.6	2926.5	2926.5	2939.0	2980.8	3202.1	3584.7	3671.1	3592.4	3152.2
20°	3094.6	3083.5	3054.2	3027.3	3013.9	3036.5	3131.0	3482.9	3630.3	3692.7	3204.5
22.5°	3281.8	3273.1	3225.6	3168.0	3121.4	3121.0	3167.5	3394.1	3559.7	3787.3	3248.7
25°	3523.7	3509.8	3439.2	3347.1	3265.5	3234.3	3247.2	3389.8	3521.3	3890.0	3288.0
27.5°	3807.9	3782.5	3699.0	3566.0	3446.0	3383.1	3364.4	3468.1	3556.4	4017.3	3342.8
30°	4152.6	4123.4	4016.3	3843.0	3673.5	3570.3	3530.5	3606.8	3672.6	4172.3	3430.6
32.5°	4544.9	4502.6	4378.7	4187.7	3964.9	3807.5	3742.7	3790.2	3842.5	4359.1	3540.5
35°	5086.9	5036.5	4857.4	4593.8	4342.3	4125.8	4022.1	4056.6	4107.5	4637.5	3699.4
37.5°	5456.5	5434.0	5314.9	5067.2	4793.5	4544.4	4384.0	4404.2	4433.0	4985.6	3903.0
40°	5453.2	5462.3	5464.7	5467.1	5280.8	5042.2	4869.9	4848.7	4843.0	5367.7	4134.4
42.5°	5180.0	5217.4	5338.4	5583.7	5697.0	5587.6	5429.6	5368.7	5338.4	5818.0	4379.7
45°	4761.8	4782.0	5008.6	5487.7	5910.2	6127.7	6008.1	5816.1	5761.4	6231.8	4583.3
47.5°	4546.3	4568.4	4711.0	5233.3	5907.8	6564.0	6633.2	6267.4	6169.4	6591.9	4759.0
50°	4033.1	4079.2	4258.7	4790.7	5692.2	6764.7	7286.6	6805.0	6602.4	6942.3	4935.2
52.5°	3090.7	3161.8	3362.9	4062.9	5145.4	6665.3	7809.4	7457.0	7170.9	7305.3	5086.4
55°	1949.6	2002.4	2171.4	2869.4	4116.1	6148.3	8007.6	8162.2	7907.8	7649.0	5217.4
57.5°	1060.0	1083.5	1146.9	1584.2	2677.4	5005.2	7718.6	8563.5	8457.9	7940.9	5316.3
58°	948.6	964.5	1003.8	1373.0	2374.4	4692.7	7590.4	8565.0	8512.2	7983.6	5324.0
60°	703.8	695.6	660.6	783.5	1321.6	3241.9	6815.6	8222.2	8377.3	8035.9	5286.6
62.5°	618.3	598.7	527.1	519.0	642.8	1493.5	5215.0	7043.2	7409.5	7737.3	5059.0
65°	580.9	559.8	467.6	437.8	463.8	631.8	3072.0	5282.2	5741.7	6831.9	4477.2
67.5°	553.0	525.7	429.7	388.9	390.8	417.7	1231.4	3326.9	3843.9	5187.2	3482.5
70°	526.2	496.4	397.5	350.5	339.4	330.3	489.7	1665.4	2134.4	3276.5	2220.3
72.5°	497.4	468.1	369.2	320.2	298.6	268.4	319.7	681.2	951.5	1550.2	1007.2
75°	455.6	429.2	340.9	293.3	262.6	222.3	241.5	355.7	426.8	617.4	485.4
77.5°	404.2	382.6	309.2	271.2	232.8	180.5	185.8	246.8	273.6	353.3	288.5
80°	290.4	298.1	275.1	243.9	207.4	146.4	142.6	180.0	194.4	227.1	187.7
82.5°	204.0	208.4	227.6	199.2	171.4	115.2	105.1	126.7	135.4	149.3	101.3
85°	140.7	135.9	156.0	138.7	123.9	76.8	72.0	85.9	91.2	92.7	52.3
87.5°	84.5	84.5	90.3	74.4	66.7	39.8	38.9	49.0	52.3	49.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1	2708.1
2.5°	2715.3	2681.2	2608.7	2550.6	2477.2	2400.8	2358.1	2312.5	2281.3	2258.7	2294.8
5°	2735.9	2666.3	2516.5	2374.4	2217.5	2054.2	1930.4	1815.2	1735.0	1685.1	1732.1
7.5°	2768.6	2661.5	2422.9	2180.0	1898.2	1626.5	1383.6	1231.4	1142.6	1098.9	1126.3
10°	2806.0	2653.8	2313.0	1916.5	1513.2	1170.9	989.4	928.0	907.8	899.7	903.5
12.5°	2837.2	2637.5	2178.1	1597.7	1136.3	924.6	872.3	870.9	875.2	876.1	877.6
15°	2859.3	2613.5	1977.9	1265.5	908.8	842.5	839.6	848.3	856.5	859.8	861.7
17.5°	2874.2	2564.1	1751.8	1000.5	814.2	802.7	809.4	820.4	829.1	831.5	833.4
20°	2872.8	2491.6	1482.5	834.4	762.8	762.8	774.4	783.0	783.5	780.6	782.0
22.5°	2857.9	2392.2	1221.3	746.0	717.2	725.4	736.9	728.8	695.1	673.1	674.5
25°	2832.9	2273.6	997.6	689.9	675.0	689.4	686.0	624.6	576.6	555.0	555.0
27.5°	2810.8	2133.4	825.7	640.9	632.7	650.5	591.0	535.3	515.1	505.0	501.7
30°	2795.0	1982.2	711.0	593.9	592.9	579.9	512.7	497.4	494.0	485.8	483.0
32.5°	2798.8	1829.1	637.5	552.6	555.9	496.4	475.3	478.6	475.8	467.1	463.3
35°	2830.5	1683.6	589.5	515.1	505.0	448.4	453.2	459.4	458.5	446.5	442.6
37.5°	2887.2	1545.8	557.8	483.9	440.7	424.4	432.1	441.7	439.3	431.1	428.2
40°	2946.7	1416.2	531.9	459.4	402.8	408.1	414.8	420.1	422.5	424.9	422.9
42.5°	3004.8	1280.8	500.2	434.5	386.9	392.7	395.6	400.9	413.8	422.9	422.5
45°	3039.3	1153.6	467.6	398.9	374.5	377.8	375.9	386.5	402.3	417.2	417.7
47.5°	3077.8	1054.7	441.7	366.3	362.5	364.9	359.1	369.7	384.1	402.3	404.2
50°	3124.3	995.7	421.0	340.4	346.1	346.1	344.7	354.3	374.5	395.6	399.4
52.5°	3177.1	984.2	403.7	321.6	329.8	329.3	330.8	345.2	367.3	387.9	391.3
55°	3241.5	1015.4	385.0	307.7	314.0	315.9	320.7	337.0	355.7	379.3	380.7
57.5°	3316.3	1078.7	370.1	296.7	299.6	305.8	313.5	328.4	348.5	374.5	375.9
58°	3328.8	1092.2	367.7	295.7	296.7	303.9	312.5	326.9	347.1	375.4	376.9
60°	3329.3	1136.8	362.5	291.4	285.6	297.6	307.2	321.6	344.7	378.8	382.1
62.5°	3211.2	1136.3	358.6	285.2	274.1	289.0	300.0	316.8	342.3	386.9	393.7
65°	2827.6	1032.6	340.4	275.6	265.0	281.3	293.8	313.5	349.0	422.5	426.8
67.5°	2211.7	846.4	306.3	262.1	253.0	273.6	290.0	313.0	356.2	430.6	433.5
70°	1462.3	633.2	268.8	246.8	240.5	264.5	291.9	329.3	348.1	413.3	405.7
72.5°	759.0	444.5	238.6	227.6	226.1	256.4	319.7	327.4	339.9	388.9	379.3
75°	398.5	308.7	212.2	206.4	208.8	254.4	377.3	318.8	329.3	372.1	390.3
77.5°	243.9	249.2	189.6	187.2	192.0	248.7	376.9	307.7	314.0	342.3	362.5
80°	163.2	202.1	172.3	172.8	176.2	227.6	338.5	290.4	295.2	323.6	344.2
82.5°	103.2	119.5	156.5	164.7	160.3	187.7	287.6	264.5	271.2	370.1	391.3
85°	52.3	74.9	135.9	158.4	144.5	131.5	233.3	231.9	235.2	266.9	278.9
87.5°	24.0	41.3	106.1	138.3	109.0	82.1	169.5	171.9	185.3	189.6	189.6
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)