

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: P190951

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190951
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12565.9 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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

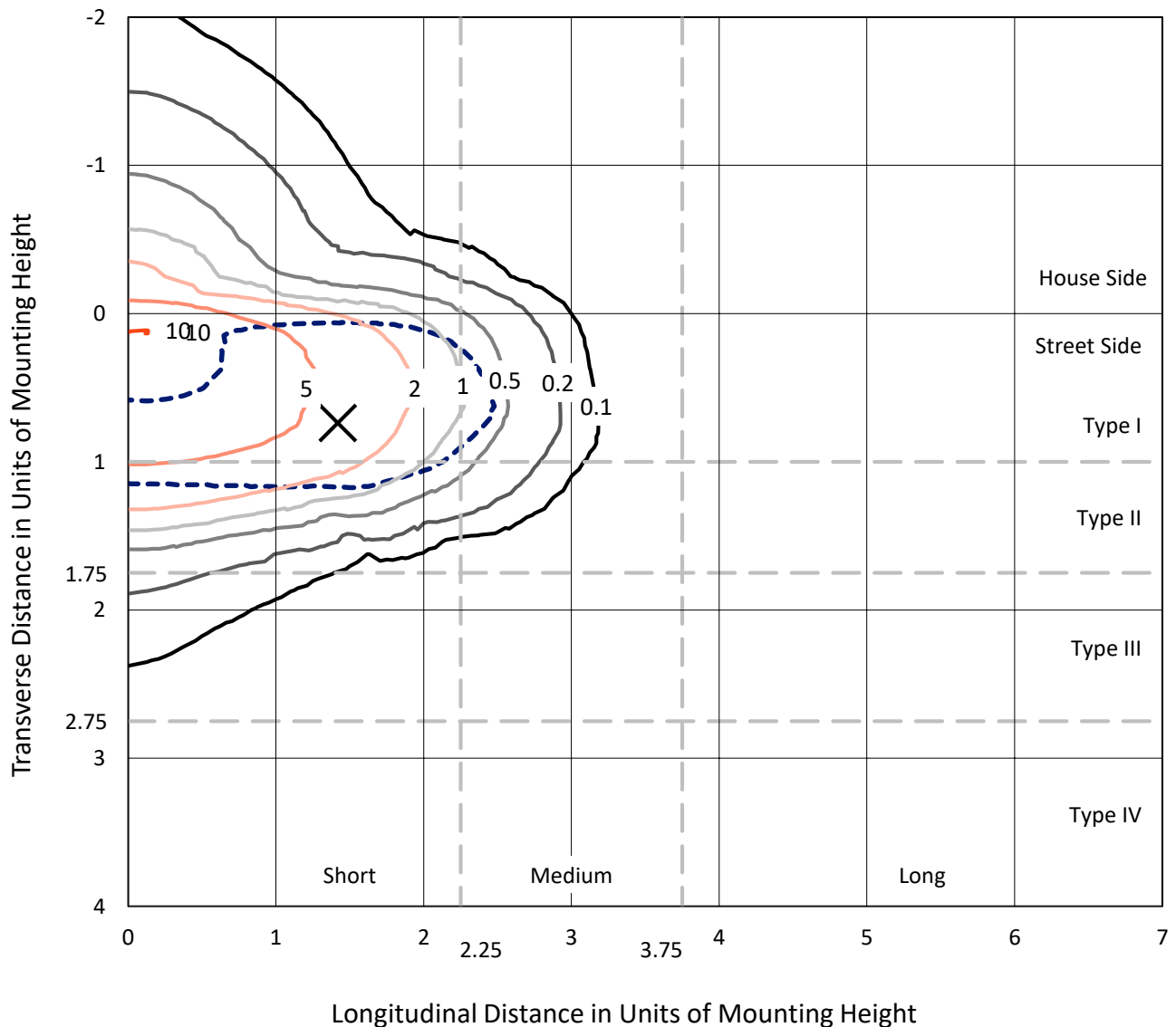


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Iso-Footcandle Lines of Horizontal Illumination

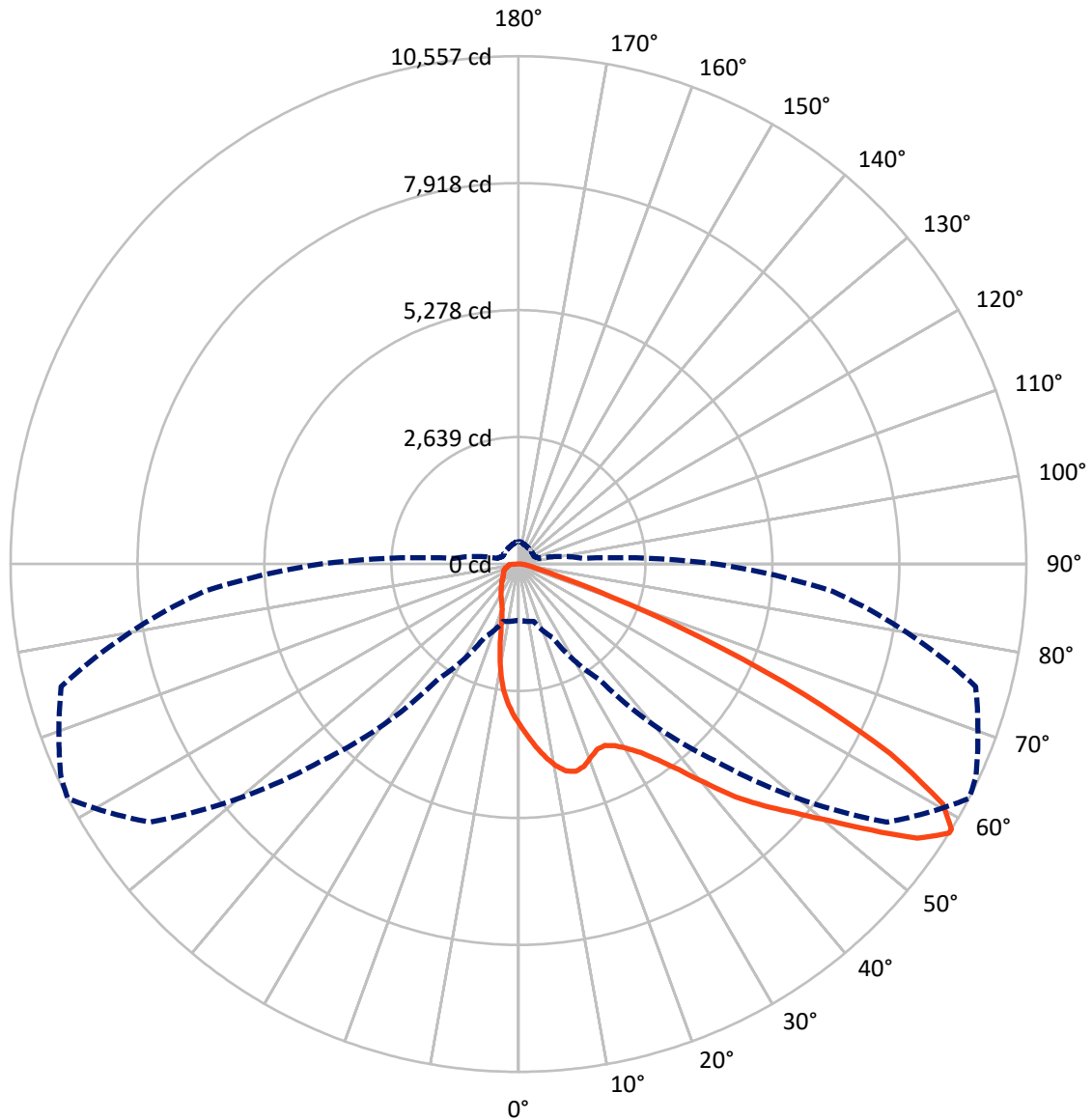
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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	1916.3	0.0	1916.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10649.6	0.0	10649.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	12565.9	0.0	12565.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	2.4
10°-20°	763.1	6.1
20°-30°	1233.5	9.8
30°-40°	1958.2	15.6
40°-50°	2865.3	22.8
50°-60°	2996.9	23.8
60°-70°	1770.5	14.1
70°-80°	498.8	4.0
80°-90°	181.1	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°	12565.9	100.0
0°-180°	12565.9	100.0



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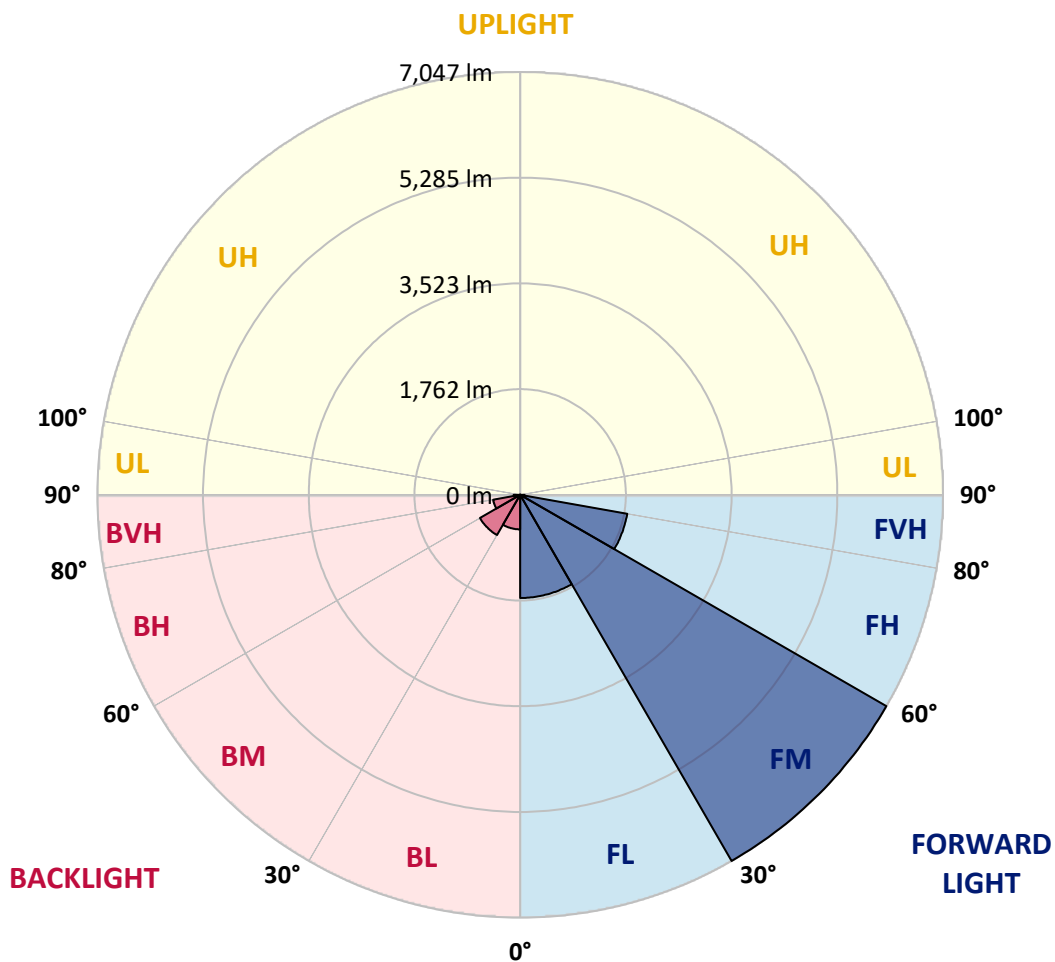
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1719.2	13.7			
FM	(30°-60°)	7046.9	56.1			
FH	(60°-80°)	1812.1	14.4			G2/5000
FVH	(80°-90°)	71.4	0.6			G1/100
BL	(0°-30°)	576.0	4.6	B2/1000		
BM	(30°-60°)	773.5	6.2	B1/1000		
BH	(60°-80°)	457.3	3.6	B1/500		G1/500
BVH	(80°-90°)	109.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9
2.5°	3814.2	3783.5	3763.9	3746.8	3724.3	3676.4	3611.8	3571.0	3550.4	3479.9	3396.5
5°	4188.2	4161.0	4140.8	4117.8	4077.5	4002.4	3898.3	3815.4	3774.6	3633.7	3466.9
7.5°	4100.6	4111.9	4146.7	4207.7	4259.8	4249.7	4156.9	4051.5	3997.7	3801.8	3548.5
10°	3572.8	3592.3	3652.7	3795.2	4026.0	4262.7	4335.0	4262.1	4207.7	3968.0	3632.6
12.5°	3466.9	3466.3	3471.0	3508.9	3646.2	3979.3	4340.9	4414.2	4381.7	4126.7	3718.3
15°	3510.1	3511.3	3507.7	3523.7	3566.3	3698.3	4159.8	4472.8	4495.9	4286.4	3807.1
17.5°	3623.7	3620.7	3607.1	3607.1	3622.5	3673.9	3946.7	4418.3	4524.9	4427.8	3885.3
20°	3814.2	3800.6	3764.6	3731.4	3714.8	3742.6	3859.2	4292.9	4474.6	4551.5	3949.7
22.5°	4045.0	4034.3	3975.8	3904.7	3847.3	3846.8	3904.2	4183.5	4387.6	4668.0	4004.1
25°	4343.2	4326.1	4239.1	4125.5	4024.9	3986.4	4002.4	4178.1	4340.3	4794.7	4052.7
27.5°	4693.5	4662.1	4559.2	4395.3	4247.4	4169.9	4146.7	4274.6	4383.4	4951.5	4120.1
30°	5118.3	5082.2	4950.4	4736.7	4527.8	4400.6	4351.5	4445.5	4526.7	5142.6	4228.5
32.5°	5601.8	5549.7	5397.1	5161.6	4887.0	4692.9	4613.0	4671.6	4736.2	5372.8	4363.9
35°	6269.9	6207.7	5987.0	5662.1	5352.1	5085.2	4957.4	5000.0	5062.8	5716.0	4559.8
37.5°	6725.5	6697.7	6550.9	6245.6	5908.3	5601.2	5403.5	5428.4	5463.9	6145.0	4810.6
40°	6721.3	6732.6	6735.5	6738.5	6508.9	6214.8	6002.4	5976.4	5969.2	6616.0	5095.8
42.5°	6384.6	6430.8	6579.9	6882.3	7021.9	6887.0	6692.3	6617.2	6579.9	7171.0	5398.2
45°	5869.3	5894.1	6173.4	6764.0	7284.6	7552.7	7405.3	7168.6	7101.2	7681.1	5649.1
47.5°	5603.6	5630.8	5806.6	6450.3	7281.7	8090.5	8175.7	7724.9	7604.2	8124.9	5865.7
50°	4971.0	5027.8	5249.2	5904.8	7016.0	8337.9	8981.1	8387.6	8137.9	8556.9	6082.9
52.5°	3809.5	3897.0	4145.0	5007.8	6342.0	8215.4	9625.5	9191.1	8838.5	9004.2	6269.3
55°	2403.0	2468.1	2676.3	3536.8	5073.4	7578.1	9869.8	10060.4	9746.8	9427.8	6430.8
57.5°	1306.5	1335.5	1413.6	1952.7	3300.0	6169.2	9513.6	10555.1	10424.9	9787.6	6552.7
58°	1169.2	1188.8	1237.3	1692.3	2926.7	5784.1	9355.7	10556.9	10491.8	9840.3	6562.1
60°	867.5	857.4	814.2	965.7	1629.0	3995.9	8400.6	10134.4	10325.5	9904.7	6516.0
62.5°	762.1	737.9	649.7	639.7	792.3	1840.8	6427.8	8681.1	9132.6	9536.8	6235.5
65°	716.0	690.0	576.3	539.6	571.6	778.7	3786.5	6510.7	7077.0	8420.7	5518.4
67.5°	681.7	647.9	529.6	479.3	481.7	514.7	1517.8	4100.6	4737.9	6393.5	4292.3
70°	648.6	611.8	490.0	432.0	418.4	407.1	603.5	2052.7	2630.8	4038.5	2736.7
72.5°	613.1	576.9	455.0	394.7	368.1	330.7	394.0	839.6	1172.8	1910.7	1241.5
75°	561.5	529.0	420.1	361.5	323.7	273.9	297.7	438.4	526.0	761.0	598.2
77.5°	498.2	471.6	381.0	334.3	286.9	222.5	229.0	304.1	337.3	435.5	355.6
80°	358.0	367.4	339.0	300.5	255.6	180.4	175.7	221.9	239.7	279.9	231.4
82.5°	251.4	256.8	280.5	245.6	211.2	142.0	129.6	156.2	166.8	184.0	124.9
85°	173.4	167.5	192.3	171.0	152.6	94.7	88.8	105.9	112.4	114.2	64.5
87.5°	104.1	104.1	111.2	91.8	82.2	49.1	48.0	60.4	64.5	61.6	35.5
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°	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9	3337.9
2.5°	3346.8	3304.7	3215.4	3143.8	3053.3	2959.2	2906.5	2850.4	2811.9	2784.1	2828.5
5°	3372.2	3286.4	3101.8	2926.7	2733.1	2532.0	2379.3	2237.3	2138.5	2076.9	2134.9
7.5°	3412.5	3280.5	2986.4	2687.0	2339.7	2004.8	1705.4	1517.8	1408.3	1354.5	1388.1
10°	3458.6	3271.0	2850.9	2362.1	1865.1	1443.2	1219.6	1143.8	1118.9	1108.9	1113.6
12.5°	3497.1	3250.9	2684.6	1969.3	1400.6	1139.7	1075.1	1073.4	1078.7	1079.9	1081.7
15°	3524.3	3221.3	2437.9	1559.8	1120.1	1038.5	1034.9	1045.6	1055.6	1059.8	1062.1
17.5°	3542.6	3160.4	2159.1	1233.2	1003.5	989.4	997.7	1011.3	1021.9	1024.9	1027.2
20°	3540.8	3071.0	1827.2	1028.4	940.2	940.2	954.4	965.1	965.7	962.1	963.9
22.5°	3522.5	2948.6	1505.4	919.5	884.0	894.1	908.3	898.3	856.8	829.6	831.4
25°	3491.7	2802.4	1229.6	850.3	832.0	849.7	845.6	769.9	710.6	684.0	684.0
27.5°	3464.5	2629.6	1017.7	789.9	779.9	801.8	728.4	659.8	634.9	622.5	618.4
30°	3445.0	2443.2	876.4	731.9	730.8	714.8	632.0	613.1	608.9	598.8	595.3
32.5°	3449.7	2254.5	785.8	681.1	685.2	611.8	585.8	589.9	586.4	575.7	571.0
35°	3488.8	2075.2	726.6	634.9	622.5	552.7	558.5	566.3	565.1	550.3	545.5
37.5°	3558.6	1905.3	687.6	596.5	543.2	523.0	532.5	544.4	541.4	531.3	527.8
40°	3632.0	1745.6	655.6	566.3	496.4	503.0	511.3	517.7	520.7	523.6	521.3
42.5°	3703.6	1578.7	616.5	535.5	476.9	484.1	487.5	494.1	510.0	521.3	520.7
45°	3746.1	1421.9	576.3	491.7	461.6	465.6	463.3	476.3	495.8	514.2	514.7
47.5°	3793.5	1300.0	544.4	451.5	446.7	449.7	442.6	455.6	473.4	495.8	498.2
50°	3850.9	1227.2	518.9	419.5	426.7	426.7	424.8	436.7	461.6	487.5	492.3
52.5°	3916.0	1213.0	497.7	396.5	406.5	405.9	407.6	425.4	452.7	478.1	482.2
55°	3995.2	1251.5	474.5	379.3	387.0	389.3	395.3	415.4	438.4	467.5	469.2
57.5°	4087.6	1329.6	456.2	365.7	369.2	377.0	386.4	404.8	429.5	461.6	463.3
58°	4103.0	1346.2	453.3	364.5	365.7	374.6	385.2	402.9	427.8	462.7	464.5
60°	4103.6	1401.2	446.7	359.2	352.1	366.8	378.7	396.5	424.8	466.9	471.0
62.5°	3958.0	1400.6	442.0	351.5	337.9	356.2	369.8	390.6	421.9	476.9	485.2
65°	3485.2	1272.8	419.5	339.6	326.6	346.8	362.1	386.4	430.2	520.7	526.0
67.5°	2726.1	1043.2	377.5	323.0	311.8	337.3	357.4	385.8	439.1	530.8	534.3
70°	1802.3	780.5	331.3	304.1	296.5	326.0	359.8	405.9	429.0	509.4	500.0
72.5°	935.5	547.9	294.1	280.5	278.7	316.0	394.0	403.6	418.9	479.3	467.5
75°	491.1	380.4	261.6	254.4	257.4	313.6	465.1	392.9	405.9	458.6	481.1
77.5°	300.5	307.1	233.7	230.8	236.7	306.5	464.5	379.3	387.0	421.9	446.7
80°	201.2	249.1	212.5	213.0	217.2	280.5	417.2	358.0	363.9	398.8	424.2
82.5°	127.3	147.3	192.9	203.0	197.6	231.4	354.5	326.0	334.3	456.2	482.2
85°	64.5	92.3	167.5	195.3	178.1	162.1	287.6	285.8	289.9	329.0	343.8
87.5°	29.6	50.8	130.7	170.4	134.3	101.2	208.9	211.9	228.4	233.7	233.7
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)