

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: P193521

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193521
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16689 lumens
Efficiency: N/A
Efficacy: 87.4 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): 191
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

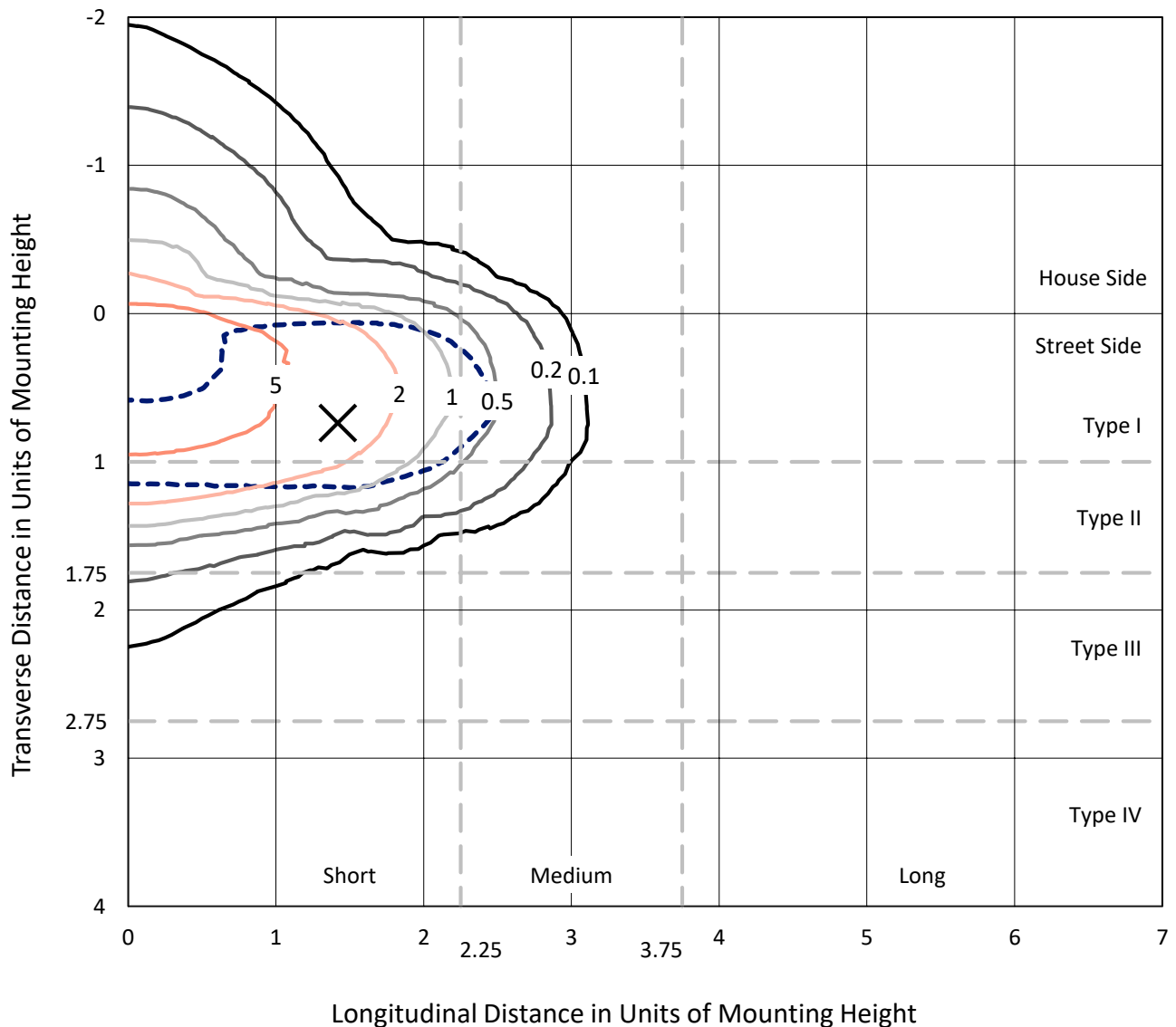


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

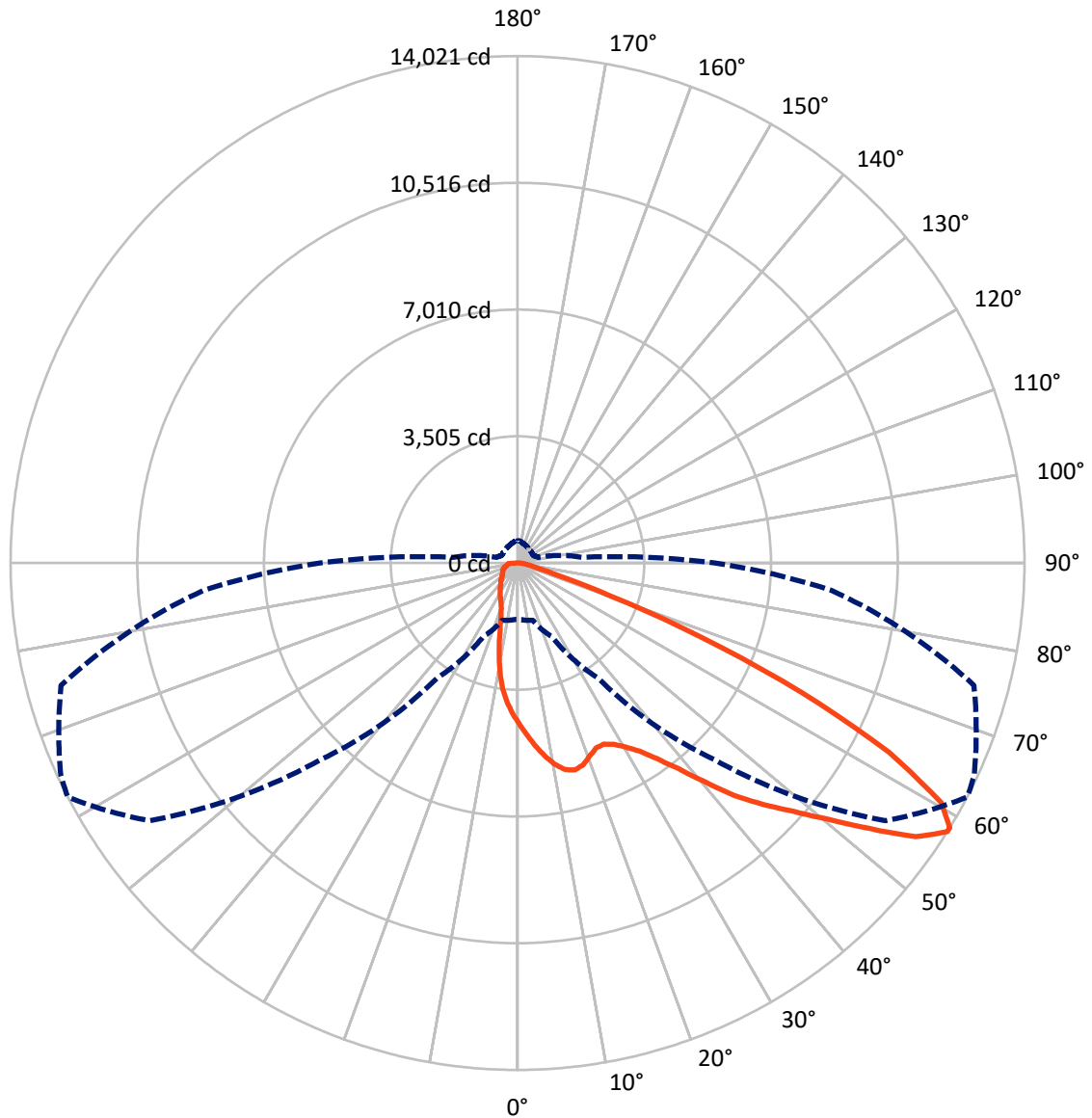


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Full Cutoff

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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	2545.1	0.0	2545.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14143.9	0.0	14143.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	16689.0	0.0	16689.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.5	2.4
10°-20°	1013.5	6.1
20°-30°	1638.3	9.8
30°-40°	2600.8	15.6
40°-50°	3805.4	22.8
50°-60°	3980.2	23.8
60°-70°	2351.5	14.1
70°-80°	662.4	4.0
80°-90°	240.5	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°	16689.0	100.0
0°-180°	16689.0	100.0



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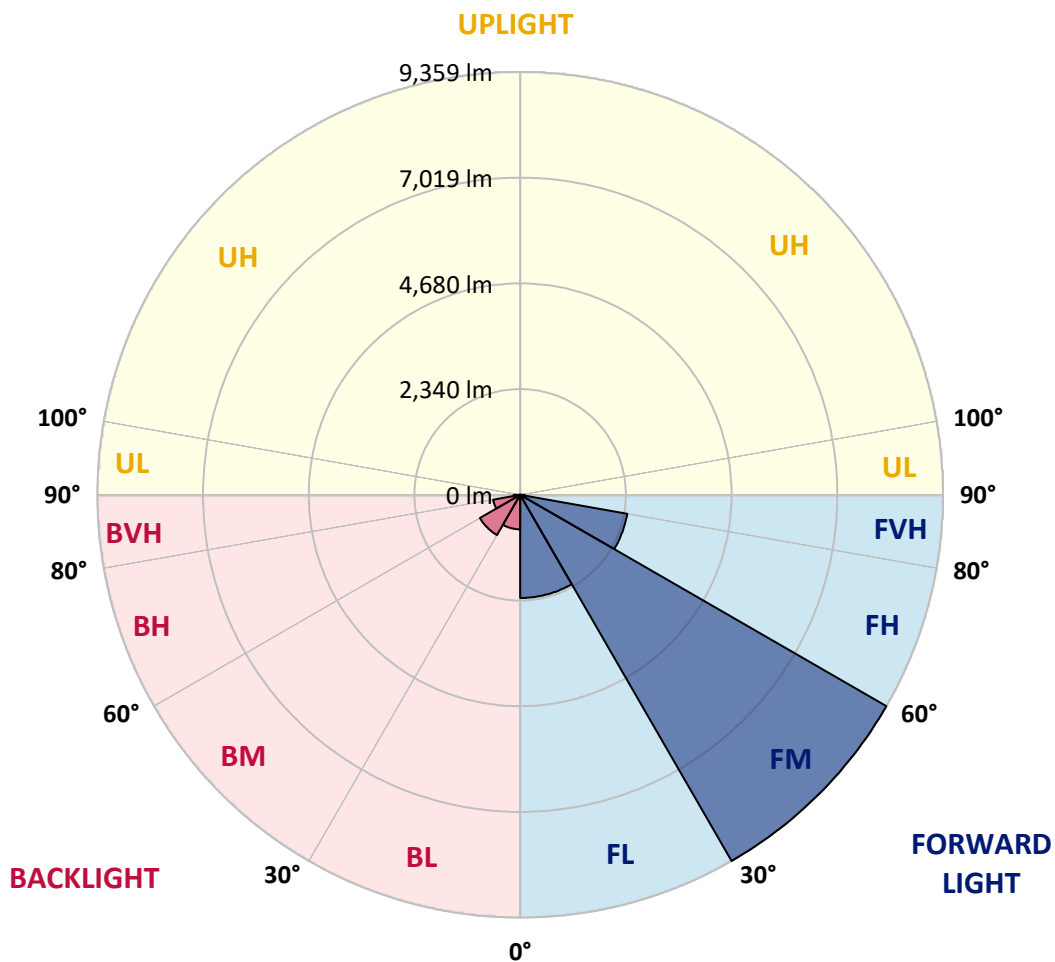
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2283.3	13.7			
FM	(30°-60°)	9359.1	56.1			
FH	(60°-80°)	2406.6	14.4			G2/5000
FVH	(80°-90°)	94.9	0.6			G1/100
BL	(0°-30°)	764.9	4.6	B2/1000		
BM	(30°-60°)	1027.3	6.2	B2/2500		
BH	(60°-80°)	607.3	3.6	B2/1000		G2/1000
BVH	(80°-90°)	145.6	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°	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1
2.5°	5065.7	5024.9	4998.9	4976.1	4946.3	4882.6	4797.0	4742.7	4715.2	4621.7	4510.9
5°	5562.4	5526.2	5499.5	5468.9	5415.4	5315.6	5177.3	5067.3	5013.1	4826.0	4604.4
7.5°	5446.1	5461.0	5507.4	5588.3	5657.5	5644.1	5520.7	5380.9	5309.3	5049.2	4712.9
10°	4745.1	4771.0	4851.2	5040.6	5347.1	5661.4	5757.3	5660.6	5588.3	5270.0	4824.5
12.5°	4604.4	4603.6	4609.9	4660.2	4842.5	5285.0	5765.1	5862.6	5819.4	5480.7	4938.4
15°	4661.8	4663.4	4658.6	4679.9	4736.4	4911.7	5524.7	5940.4	5971.0	5692.8	5056.3
17.5°	4812.7	4808.7	4790.7	4790.7	4811.1	4879.5	5241.8	5868.1	6009.5	5880.7	5160.0
20°	5065.7	5047.6	4999.7	4955.7	4933.7	4970.6	5125.4	5701.5	5942.7	6044.9	5245.7
22.5°	5372.2	5358.1	5280.3	5186.0	5109.7	5108.9	5185.2	5556.1	5827.2	6199.7	5318.0
25°	5768.3	5745.5	5630.0	5479.1	5345.5	5294.4	5315.6	5549.0	5764.4	6367.9	5382.4
27.5°	6233.5	6191.9	6055.1	5837.4	5641.0	5538.0	5507.4	5677.1	5821.7	6576.2	5472.0
30°	6797.8	6749.8	6574.6	6290.9	6013.5	5844.5	5779.3	5904.2	6011.9	6830.0	5615.8
32.5°	7439.8	7370.7	7167.9	6855.1	6490.5	6232.7	6126.6	6204.4	6290.1	7135.7	5795.8
35°	8327.1	8244.6	7951.4	7520.0	7108.2	6753.8	6584.0	6640.6	6723.9	7591.5	6055.9
37.5°	8932.2	8895.3	8700.4	8294.9	7846.9	7439.0	7176.6	7209.6	7256.7	8161.3	6389.1
40°	8926.7	8941.6	8945.6	8949.5	8644.6	8254.0	7971.9	7937.3	7927.9	8786.8	6767.9
42.5°	8479.5	8540.8	8738.9	9140.5	9325.9	9146.7	8888.2	8788.4	8738.9	9524.0	7169.5
45°	7795.0	7828.1	8199.0	8983.3	9674.8	10030.8	9835.2	9520.8	9431.2	10201.4	7502.7
47.5°	7442.2	7478.3	7711.7	8566.8	9670.9	10745.2	10858.4	10259.5	10099.2	10790.8	7790.3
50°	6602.1	6677.5	6971.5	7842.2	9318.1	11073.7	11927.9	11139.7	10808.1	11364.5	8078.7
52.5°	5059.4	5175.7	5505.0	6650.8	8423.0	10911.0	12783.7	12206.9	11738.5	11958.6	8326.3
55°	3191.4	3277.9	3554.5	4697.1	6738.0	10064.6	13108.3	13361.4	12944.9	12521.3	8540.8
57.5°	1735.2	1773.7	1877.4	2593.4	4382.8	8193.5	12635.2	14018.4	13845.5	12999.1	8702.7
58°	1552.9	1578.8	1643.3	2247.6	3886.9	7681.9	12425.4	14020.7	13934.3	13069.0	8715.3
60°	1152.1	1138.7	1081.4	1282.5	2163.5	5307.0	11157.0	13459.6	13713.4	13154.7	8654.0
62.5°	1012.2	980.0	862.9	849.5	1052.3	2444.8	8536.9	11529.5	12129.1	12665.9	8281.5
65°	950.9	916.3	765.4	716.7	759.2	1034.2	5028.8	8646.9	9399.0	11183.7	7329.0
67.5°	905.3	860.5	703.4	636.6	639.7	683.7	2015.8	5446.1	6292.5	8491.3	5700.7
70°	861.3	812.6	650.7	573.7	555.6	540.7	801.6	2726.2	3494.0	5363.6	3634.6
72.5°	814.2	766.2	604.3	524.2	488.8	439.3	523.4	1115.1	1557.6	2537.6	1648.8
75°	745.8	702.6	558.0	480.2	429.9	363.9	395.3	582.3	698.6	1010.6	794.5
77.5°	661.7	626.3	506.1	444.0	381.1	295.5	304.1	403.9	447.9	578.4	472.3
80°	475.5	488.0	450.3	399.2	339.5	239.7	233.4	294.7	318.3	371.7	307.3
82.5°	334.0	341.1	372.5	326.1	280.6	188.6	172.1	207.5	221.6	244.4	165.8
85°	230.3	222.4	255.4	227.1	202.8	125.7	117.9	140.7	149.3	151.7	85.7
87.5°	138.3	138.3	147.7	121.8	109.2	65.2	63.7	80.2	85.7	81.7	47.2
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°	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1	4433.1
2.5°	4444.9	4389.1	4270.4	4175.3	4055.1	3930.1	3860.2	3785.5	3734.5	3697.5	3756.5
5°	4478.7	4364.7	4119.5	3886.9	3629.9	3362.7	3160.0	2971.4	2840.1	2758.4	2835.4
7.5°	4532.1	4356.9	3966.3	3568.6	3107.3	2662.5	2264.9	2015.8	1870.4	1798.9	1843.7
10°	4593.4	4344.3	3786.3	3137.2	2477.1	1916.7	1619.7	1519.1	1486.1	1472.7	1479.0
12.5°	4644.5	4317.6	3565.5	2615.4	1860.2	1513.6	1427.9	1425.6	1432.6	1434.2	1436.6
15°	4680.6	4278.3	3237.8	2071.6	1487.7	1379.2	1374.5	1388.6	1402.0	1407.5	1410.6
17.5°	4705.0	4197.3	2867.6	1637.8	1332.8	1314.0	1325.0	1343.1	1357.2	1361.1	1364.3
20°	4702.6	4078.7	2426.8	1365.8	1248.7	1248.7	1267.6	1281.8	1282.5	1277.8	1280.2
22.5°	4678.3	3916.0	1999.3	1221.2	1174.1	1187.4	1206.3	1193.0	1137.9	1101.8	1104.1
25°	4637.4	3721.9	1633.0	1129.3	1104.9	1128.5	1123.0	1022.4	943.8	908.5	908.5
27.5°	4601.3	3492.4	1351.7	1049.1	1035.8	1064.9	967.4	876.2	843.2	826.7	821.2
30°	4575.3	3244.9	1163.9	972.1	970.5	949.3	839.3	814.2	808.7	795.3	790.6
32.5°	4581.6	2994.2	1043.6	904.5	910.0	812.6	778.0	783.5	778.8	764.7	758.4
35°	4633.5	2756.0	965.0	843.2	826.7	734.0	741.9	752.1	750.5	730.9	724.6
37.5°	4726.2	2530.5	913.2	792.2	721.4	694.7	707.3	723.0	719.1	705.7	701.0
40°	4823.7	2318.3	870.7	752.1	659.3	668.0	679.0	687.6	691.6	695.5	692.4
42.5°	4918.8	2096.7	818.9	711.2	633.4	642.8	647.6	656.2	677.4	692.4	691.6
45°	4975.3	1888.4	765.4	653.1	613.0	618.5	615.3	632.6	658.6	682.9	683.7
47.5°	5038.2	1726.6	723.0	599.6	593.3	597.3	587.8	605.1	628.7	658.6	661.7
50°	5114.4	1629.9	689.2	557.2	566.6	566.6	564.3	580.0	613.0	647.6	653.8
52.5°	5200.9	1611.0	660.9	526.5	539.9	539.1	541.5	565.0	601.2	635.0	640.5
55°	5306.2	1662.1	630.3	503.7	514.0	517.1	525.0	551.7	582.3	620.8	623.2
57.5°	5428.8	1765.9	605.9	485.7	490.4	500.6	513.2	537.5	570.5	613.0	615.3
58°	5449.2	1787.9	602.0	484.1	485.7	497.5	511.6	535.2	568.2	614.6	616.9
60°	5450.0	1860.9	593.3	477.0	467.6	487.2	503.0	526.5	564.3	620.1	625.6
62.5°	5256.7	1860.2	587.0	466.8	448.7	473.1	491.2	518.7	560.3	633.4	644.4
65°	4628.8	1690.4	557.2	451.1	433.8	460.5	481.0	513.2	571.3	691.6	698.6
67.5°	3620.5	1385.5	501.4	429.1	414.2	447.9	474.7	512.4	583.1	704.9	709.6
70°	2393.8	1036.6	440.1	403.9	393.7	433.0	477.8	539.1	569.8	676.6	664.1
72.5°	1242.5	727.7	390.6	372.5	370.1	419.7	523.4	536.0	556.4	636.6	620.8
75°	652.3	505.3	347.4	337.9	341.9	416.5	617.7	521.8	539.1	609.0	638.9
77.5°	399.2	407.9	310.4	306.5	314.3	407.1	616.9	503.7	514.0	560.3	593.3
80°	267.2	330.9	282.1	282.9	288.4	372.5	554.0	475.5	483.3	529.7	563.5
82.5°	169.0	195.7	256.2	269.6	262.5	307.3	470.7	433.0	444.0	605.9	640.5
85°	85.7	122.6	222.4	259.3	236.5	215.3	381.9	379.6	385.1	436.9	456.6
87.5°	39.3	67.6	173.7	226.3	178.4	134.4	277.4	281.3	303.3	310.4	310.4
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)