

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: P190961

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190961  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15408.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 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): 124  
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

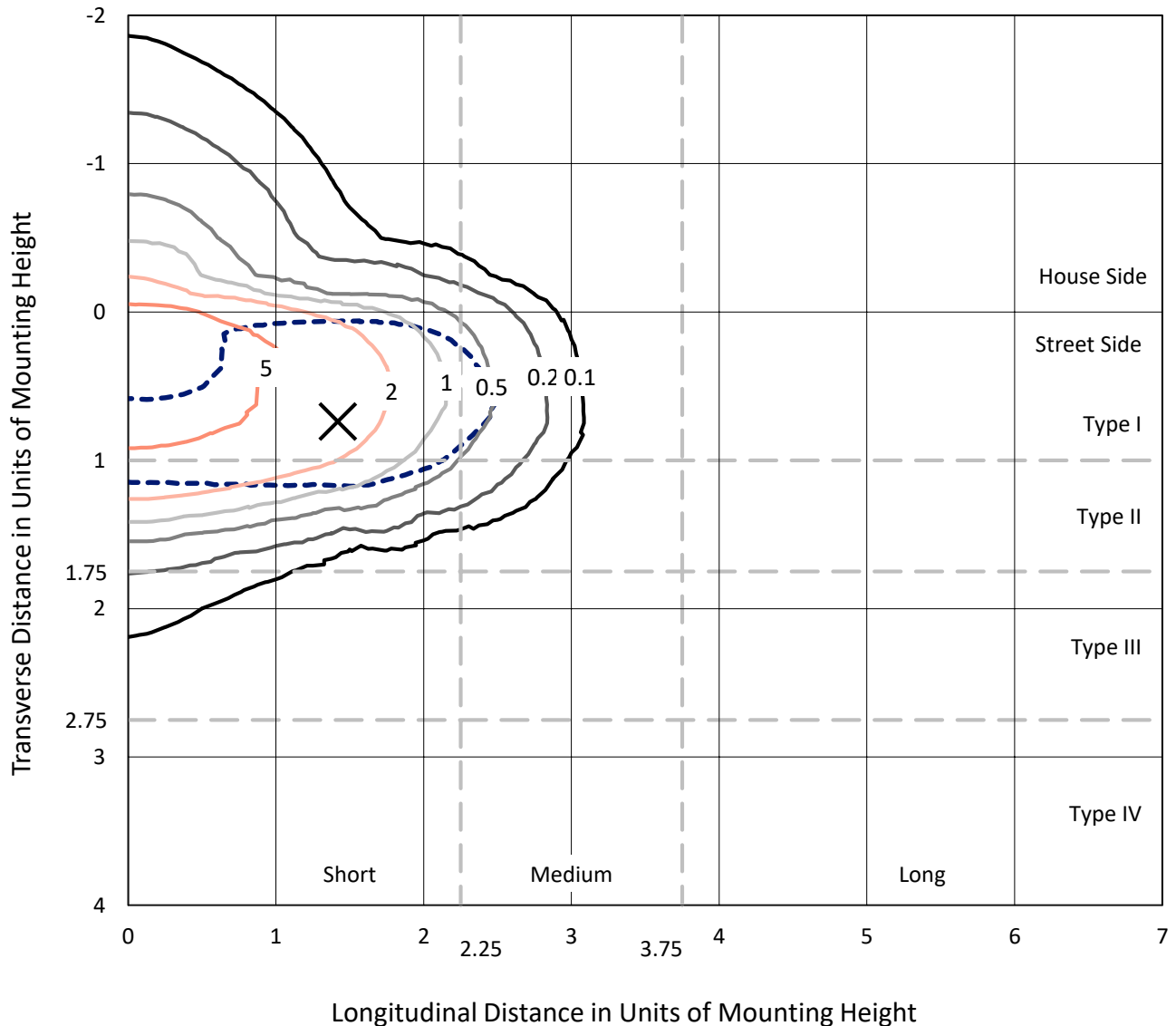


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

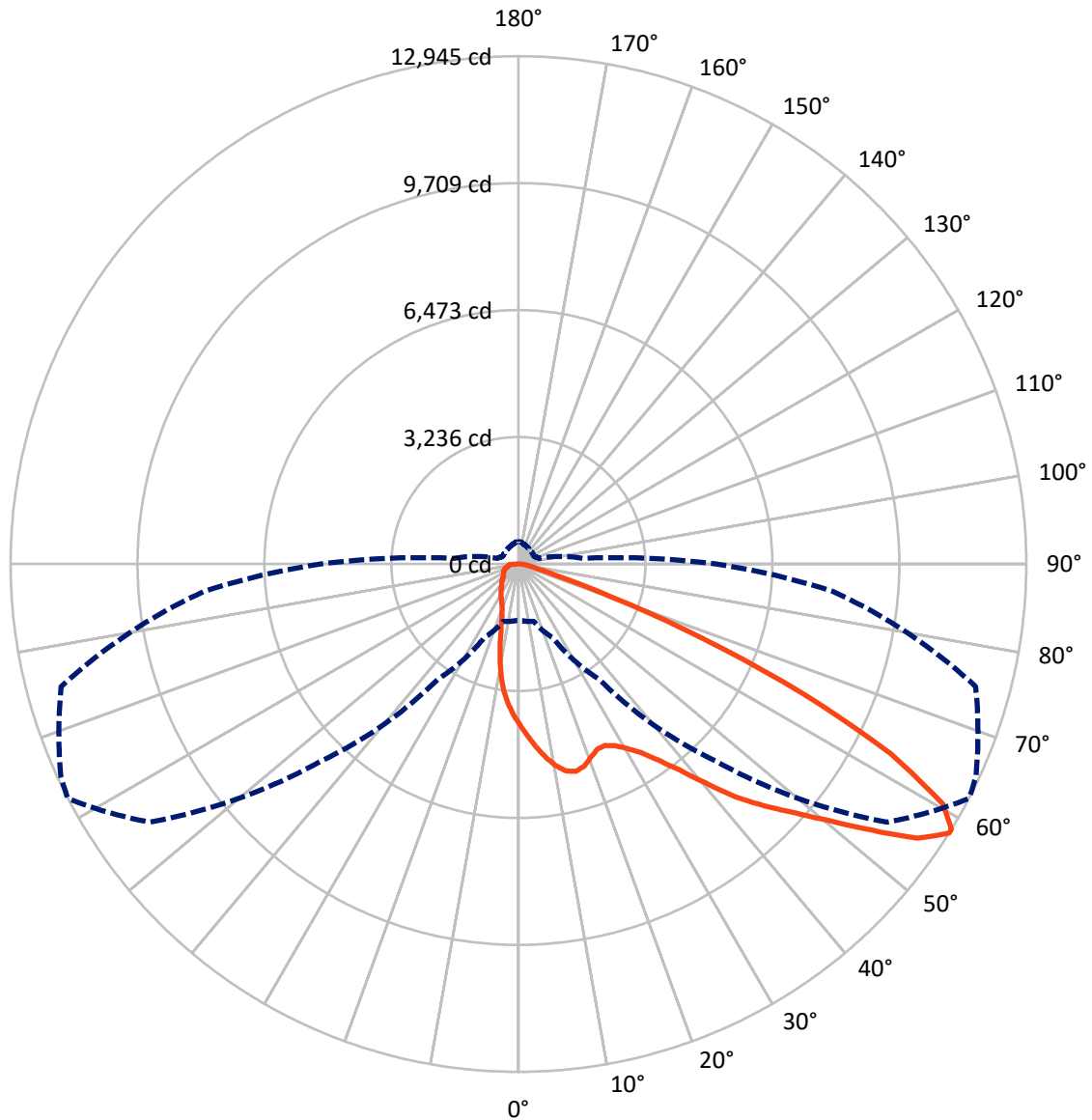


Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	2349.9	0.0	2349.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	13058.8	0.0	13058.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	15408.7	0.0	15408.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.1	2.4
10°-20°	935.7	6.1
20°-30°	1512.6	9.8
30°-40°	2401.2	15.6
40°-50°	3513.5	22.8
50°-60°	3674.8	23.8
60°-70°	2171.1	14.1
70°-80°	611.6	4.0
80°-90°	222.1	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°	15408.7	100.0
0°-180°	15408.7	100.0



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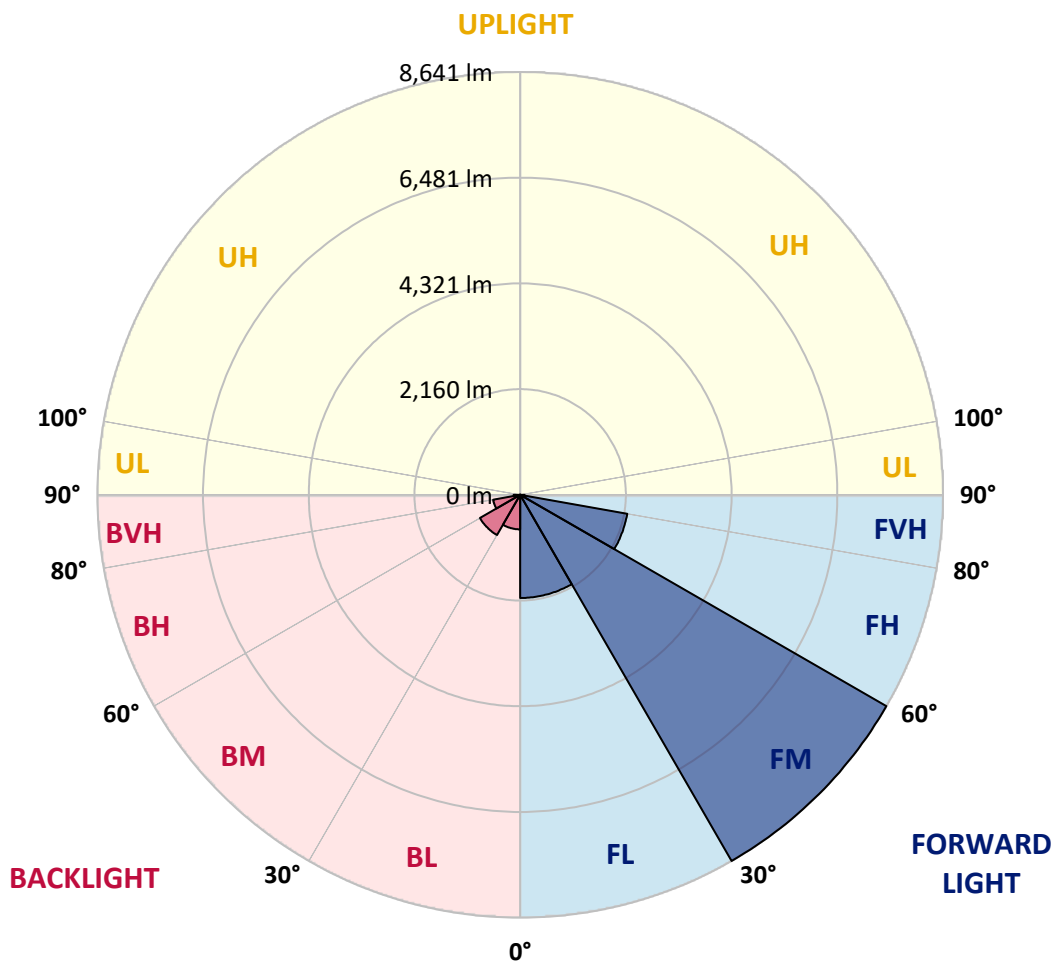
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2108.1	13.7			
FM	(30°-60°)	8641.1	56.1			
FH	(60°-80°)	2222.0	14.4			G2/5000
FVH	(80°-90°)	87.6	0.6			G1/100
BL	(0°-30°)	706.3	4.6	B2/1000		
BM	(30°-60°)	948.5	6.2	B1/1000		
BH	(60°-80°)	560.7	3.6	B2/1000		G2/1000
BVH	(80°-90°)	134.5	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°	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0
2.5°	4677.1	4639.4	4615.5	4594.4	4566.9	4508.0	4429.0	4378.8	4353.5	4267.1	4164.8
5°	5135.6	5102.3	5077.6	5049.3	5000.0	4907.8	4780.1	4678.6	4628.4	4455.8	4251.2
7.5°	5028.3	5042.0	5084.9	5159.7	5223.5	5211.1	5097.3	4968.1	4902.1	4661.9	4351.3
10°	4381.1	4405.0	4479.0	4653.9	4936.9	5227.1	5315.7	5226.4	5159.7	4865.8	4454.3
12.5°	4251.2	4250.5	4256.3	4302.7	4471.0	4879.6	5322.8	5412.8	5372.9	5060.2	4559.6
15°	4304.2	4305.6	4301.2	4320.8	4373.1	4534.8	5100.8	5484.7	5513.0	5256.1	4668.4
17.5°	4443.5	4439.8	4423.1	4423.1	4442.1	4505.2	4839.7	5418.0	5548.5	5429.5	4764.2
20°	4677.1	4660.5	4616.2	4575.6	4555.2	4589.3	4732.3	5264.1	5486.9	5581.2	4843.3
22.5°	4960.1	4947.0	4875.2	4788.1	4717.7	4717.0	4787.4	5129.9	5380.2	5724.1	4910.1
25°	5325.8	5304.7	5198.0	5058.8	4935.4	4888.3	4907.8	5123.3	5322.1	5879.4	4969.5
27.5°	5755.3	5716.9	5590.6	5389.6	5208.3	5113.2	5084.9	5241.6	5375.1	6071.6	5052.3
30°	6276.3	6232.0	6070.2	5808.3	5552.2	5396.2	5335.9	5451.3	5550.7	6306.1	5185.0
32.5°	6869.1	6805.3	6618.1	6329.3	5992.5	5754.6	5656.6	5728.4	5807.6	6588.3	5351.2
35°	7688.3	7612.1	7341.4	6943.1	6562.8	6235.7	6078.9	6131.2	6208.1	7009.2	5591.3
37.5°	8246.9	8212.9	8032.9	7658.5	7244.9	6868.4	6626.1	6656.4	6700.0	7535.2	5898.9
40°	8241.9	8255.7	8259.3	8262.9	7981.4	7620.8	7360.3	7328.4	7319.7	8112.7	6248.7
42.5°	7829.1	7885.6	8068.5	8439.2	8610.5	8445.1	8206.3	8114.1	8068.5	8793.3	6619.5
45°	7197.1	7227.6	7570.0	8294.1	8932.6	9261.3	9080.6	8790.4	8707.7	9418.8	6927.1
47.5°	6871.3	6904.6	7120.1	7909.6	8929.0	9920.9	10025.3	9472.5	9324.5	9962.9	7192.7
50°	6095.7	6165.2	6436.6	7240.5	8603.2	10224.2	11012.9	10285.2	9978.9	10492.6	7458.9
52.5°	4671.3	4778.7	5082.7	6140.6	7776.8	10074.0	11803.0	11270.5	10838.1	11041.2	7687.6
55°	2946.6	3026.4	3281.8	4336.8	6221.2	9292.5	12102.7	12336.4	11951.7	11560.7	7885.6
57.5°	1602.0	1637.6	1733.4	2394.4	4046.6	7564.9	11665.9	12942.9	12783.3	12001.9	8035.1
58°	1433.8	1457.7	1517.2	2075.2	3588.7	7092.5	11472.2	12945.1	12865.3	12066.4	8046.7
60°	1063.7	1051.4	998.4	1184.2	1997.5	4899.8	10301.1	12427.0	12661.4	12145.5	7990.1
62.5°	934.6	904.8	796.7	784.4	971.6	2257.2	7882.0	10645.0	11198.7	11694.2	7646.1
65°	878.0	846.0	706.8	661.7	700.9	954.8	4643.0	7983.6	8678.0	10325.8	6766.8
67.5°	835.9	794.5	649.4	587.7	590.7	631.3	1861.2	5028.3	5809.7	7839.9	5263.4
70°	795.2	750.2	600.8	529.7	513.0	499.2	740.1	2517.1	3226.0	4952.1	3355.8
72.5°	751.7	707.5	558.0	484.0	451.3	405.6	483.2	1029.6	1438.1	2342.9	1522.3
75°	688.5	648.7	515.2	443.3	396.9	335.9	365.0	537.7	645.1	933.1	733.6
77.5°	610.9	578.3	467.3	410.0	351.9	272.8	280.8	373.0	413.6	534.0	436.1
80°	438.9	450.6	415.7	368.6	313.4	221.3	215.5	272.1	293.9	343.2	283.7
82.5°	308.4	314.9	343.9	301.2	259.0	174.1	158.9	191.6	204.6	225.7	153.1
85°	212.6	205.3	235.8	209.7	187.2	116.1	108.8	129.9	137.9	140.0	79.1
87.5°	127.7	127.7	136.4	112.4	100.9	60.3	58.8	74.0	79.1	75.5	43.6
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°	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0	4093.0
2.5°	4103.9	4052.4	3942.9	3855.0	3744.0	3628.6	3564.1	3495.1	3448.0	3413.9	3468.3
5°	4135.1	4029.9	3803.5	3588.7	3351.5	3104.8	2917.6	2743.5	2622.2	2546.8	2617.9
7.5°	4184.5	4022.7	3662.1	3294.8	2869.0	2458.3	2091.1	1861.2	1726.8	1660.9	1702.2
10°	4241.1	4011.0	3495.8	2896.5	2287.0	1769.7	1495.5	1402.6	1372.1	1359.7	1365.5
12.5°	4288.2	3986.3	3292.0	2414.8	1717.4	1397.5	1318.4	1316.2	1322.8	1324.2	1326.4
15°	4321.6	3950.0	2989.4	1912.6	1373.5	1273.4	1269.1	1282.1	1294.4	1299.6	1302.4
17.5°	4344.1	3875.3	2647.6	1512.1	1230.6	1213.2	1223.3	1240.0	1253.1	1256.7	1259.7
20°	4341.9	3765.8	2240.6	1261.1	1153.0	1153.0	1170.4	1183.5	1184.2	1179.8	1182.0
22.5°	4319.4	3615.6	1845.9	1127.6	1084.0	1096.4	1113.8	1101.4	1050.7	1017.2	1019.5
25°	4281.7	3436.4	1507.7	1042.7	1020.2	1042.0	1036.9	944.0	871.5	838.8	838.8
27.5°	4248.3	3224.4	1248.0	968.6	956.4	983.2	893.2	809.1	778.6	763.3	758.2
30°	4224.4	2995.9	1074.6	897.5	896.1	876.5	774.9	751.7	746.7	734.3	730.0
32.5°	4230.1	2764.4	963.6	835.1	840.3	750.2	718.3	723.4	719.0	706.0	700.2
35°	4278.1	2544.6	891.0	778.6	763.3	677.7	685.0	694.4	692.9	674.8	669.0
37.5°	4363.6	2336.4	843.1	731.4	666.0	641.4	653.1	667.6	663.9	651.6	647.2
40°	4453.6	2140.4	803.9	694.4	608.8	616.7	626.9	634.8	638.5	642.1	639.2
42.5°	4541.4	1935.8	756.1	656.6	584.8	593.5	597.9	605.9	625.4	639.2	638.5
45°	4593.7	1743.6	706.8	602.9	566.0	571.0	568.1	584.1	608.0	630.5	631.3
47.5°	4651.7	1594.1	667.6	553.6	547.8	551.5	542.8	558.7	580.4	608.0	610.9
50°	4722.0	1504.9	636.4	514.4	523.1	523.1	521.0	535.5	566.0	597.9	603.6
52.5°	4801.9	1487.5	610.2	486.1	498.5	497.8	499.9	521.7	555.1	586.3	591.4
55°	4899.1	1534.6	582.0	465.1	474.5	477.4	484.7	509.3	537.7	573.2	575.4
57.5°	5012.4	1630.4	559.5	448.4	452.8	462.2	473.8	496.3	526.8	566.0	568.1
58°	5031.2	1650.7	555.8	446.9	448.4	459.3	472.4	494.1	524.6	567.4	569.6
60°	5031.9	1718.1	547.8	440.4	431.7	449.9	464.4	486.1	521.0	572.4	577.6
62.5°	4853.4	1717.4	542.0	431.0	414.3	436.8	453.5	478.8	517.3	584.8	594.9
65°	4273.7	1560.7	514.4	416.4	400.5	425.2	444.1	473.8	527.5	638.5	645.1
67.5°	3342.8	1279.2	462.9	396.2	382.4	413.6	438.2	473.1	538.4	650.8	655.2
70°	2210.1	957.1	406.3	373.0	363.6	399.8	441.2	497.8	526.0	624.7	613.2
72.5°	1147.1	671.9	360.6	343.9	341.8	387.5	483.2	494.8	513.7	587.7	573.2
75°	602.2	466.6	320.7	312.0	315.6	384.5	570.3	481.8	497.8	562.3	589.9
77.5°	368.6	376.5	286.6	282.9	290.2	375.8	569.6	465.1	474.5	517.3	547.8
80°	246.7	305.5	260.4	261.2	266.3	343.9	511.6	438.9	446.2	489.1	520.3
82.5°	156.0	180.7	236.5	248.9	242.3	283.7	434.7	399.8	410.0	559.5	591.4
85°	79.1	113.2	205.3	239.5	218.4	198.8	352.6	350.5	355.6	403.5	421.6
87.5°	36.3	62.4	160.4	209.0	164.7	124.1	256.1	259.7	280.1	286.6	286.6
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)