

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: P529839

Luminaire Tested: **GALN-SA5A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15915 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

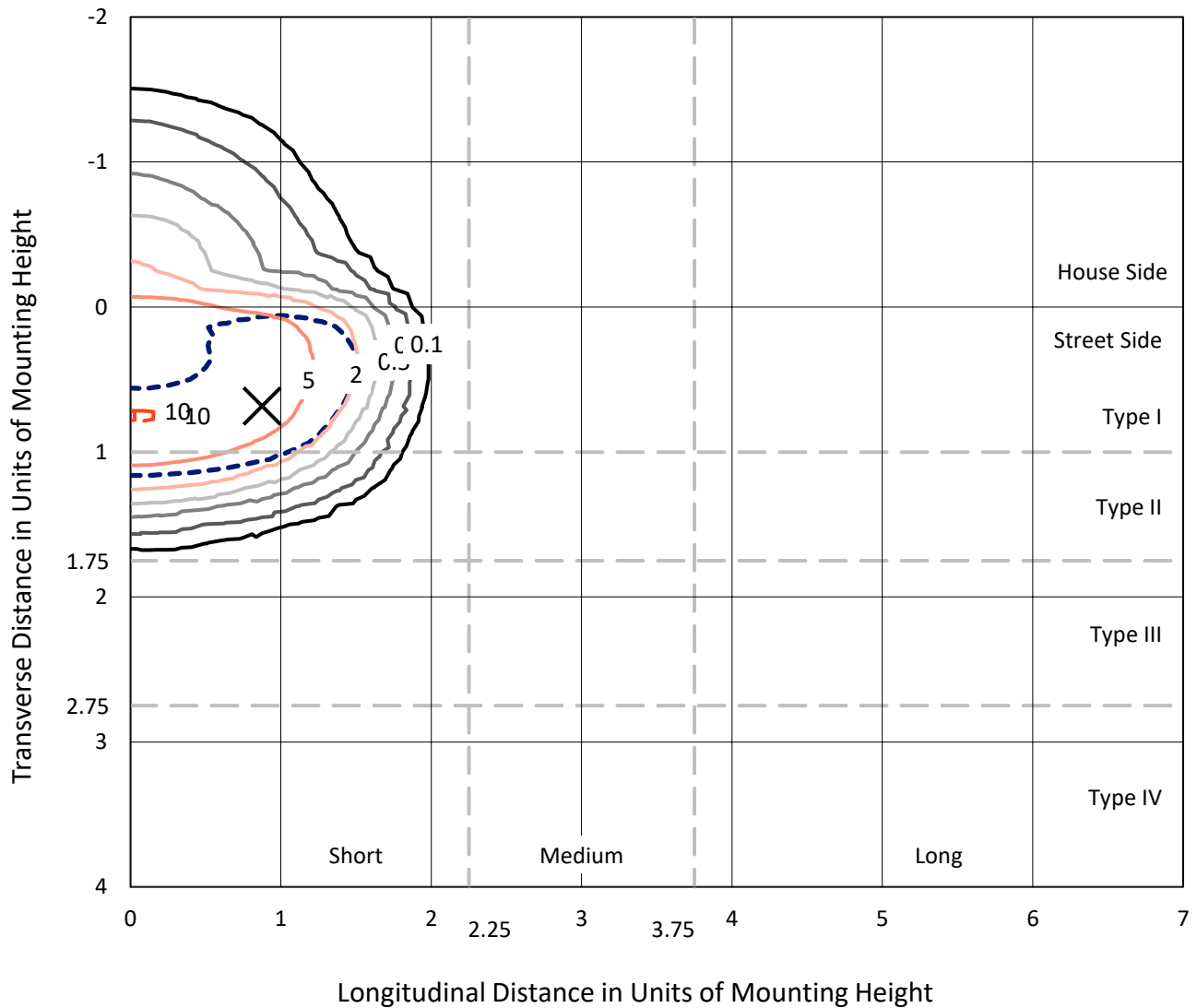
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

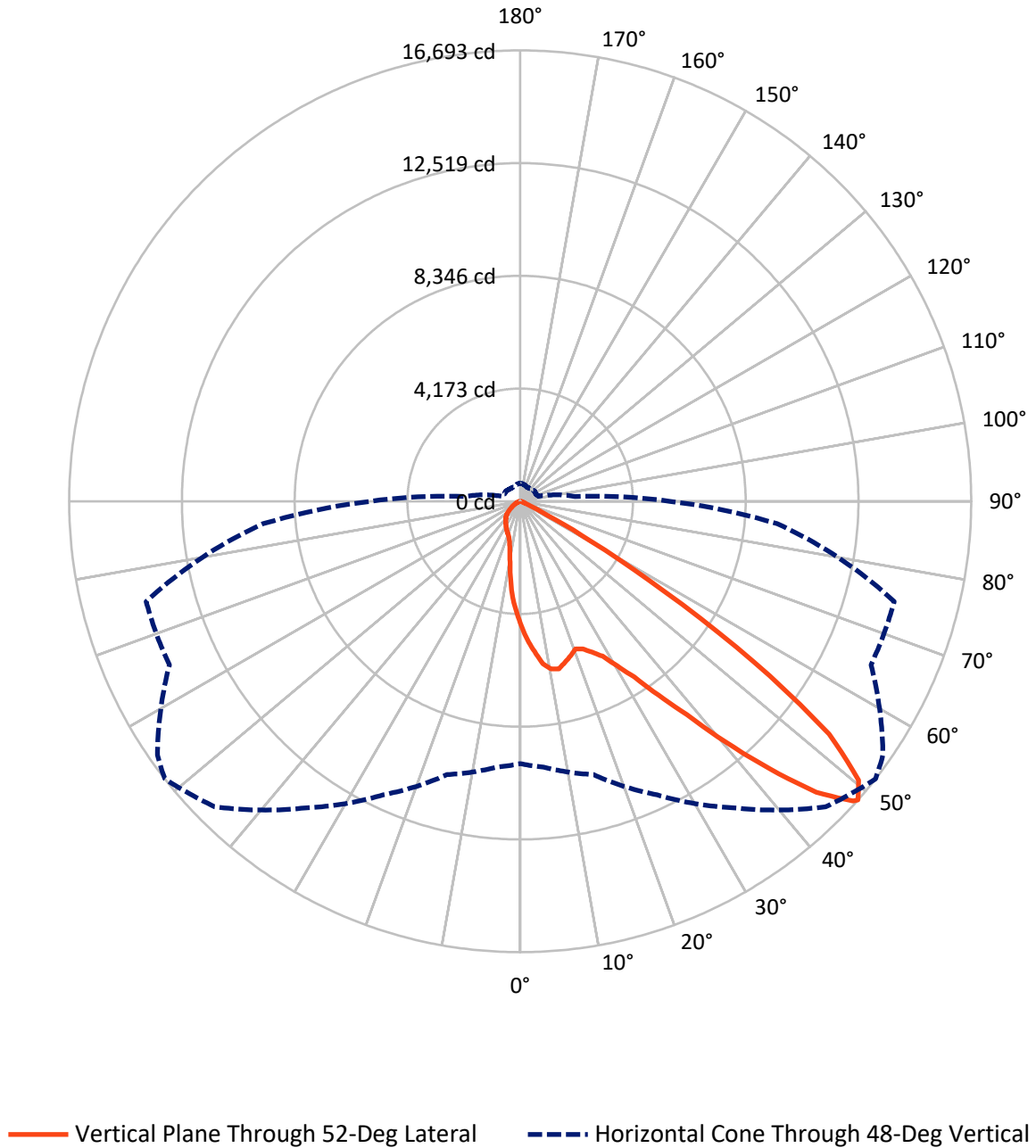
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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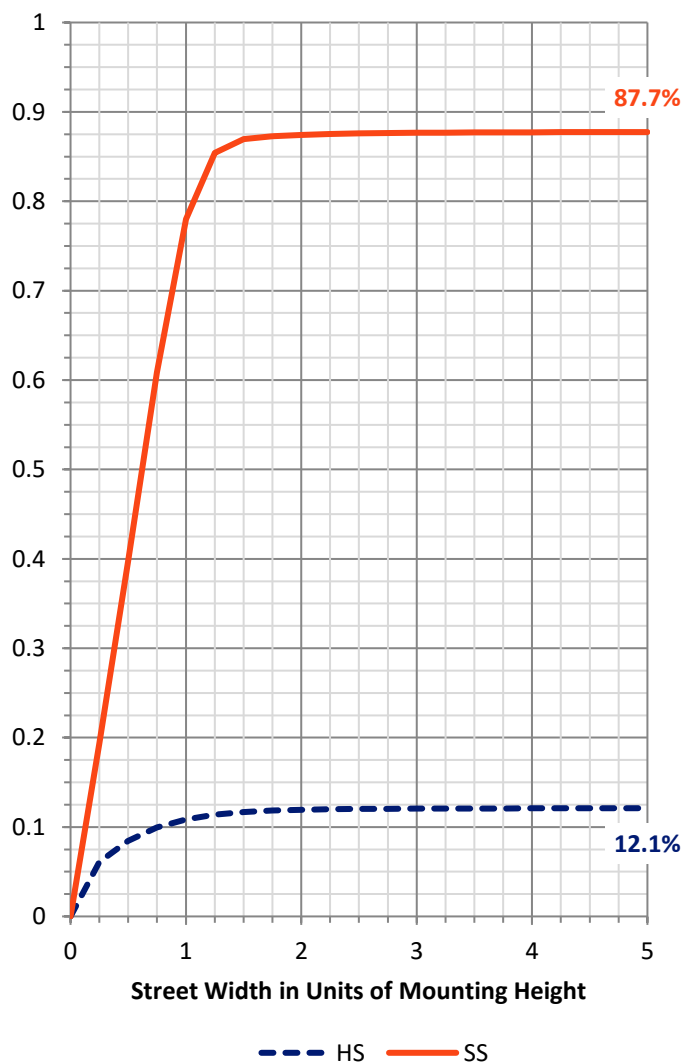
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1937.8	0.0	1937.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	13977.2	0.0	13977.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	15915.0	0.0	15915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.7	2.6
10°-20°	1099.3	6.9
20°-30°	1877.0	11.8
30°-40°	3456.6	21.7
40°-50°	5368.0	33.7
50°-60°	3230.6	20.3
60°-70°	373.7	2.3
70°-80°	72.3	0.5
80°-90°	16.7	0.1
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°	15915.0	100.0
0°-180°	15915.0	100.0

**Coefficient of Utilization**

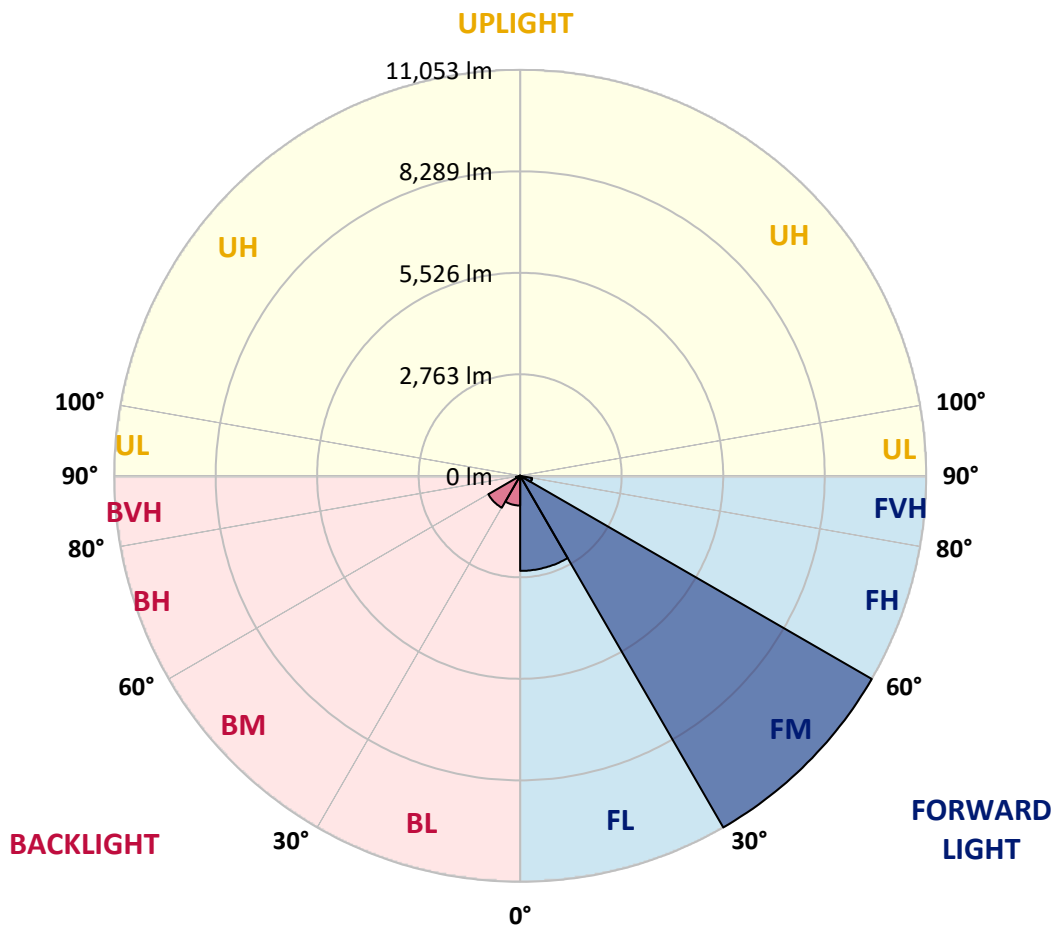


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.6	16.3			
FM (30°-60°)	11052.7	69.4			
FH (60°-80°)	329.0	2.1			G0/660
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	809.5	5.1	B2/1000		
BM (30°-60°)	1002.6	6.3	B2/2500		
BH (60°-80°)	117.0	0.7	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0
2.5°	5570.4	5442.8	5454.4	5370.9	5322.2	5243.3	5136.6	5115.7	4999.7	4841.9	4681.8
5°	6071.5	6041.4	6080.8	5960.2	5964.8	5834.9	5584.3	5589.0	5322.2	5064.6	4816.4
7.5°	6104.0	6034.4	6073.8	6180.6	6243.2	6220.0	6078.5	5955.5	5702.6	5324.5	4962.6
10°	5466.0	5598.2	5640.0	5816.3	6066.9	6331.4	6315.1	6322.1	6111.0	5616.8	5087.8
12.5°	5083.2	4995.0	5136.6	5243.3	5621.4	6134.2	6368.5	6419.5	6435.8	5899.8	5213.1
15°	4909.2	4909.2	4932.4	4962.6	5236.3	5709.6	6187.5	6336.0	6686.3	6271.1	5410.3
17.5°	5018.2	5013.6	5046.1	4983.4	5085.5	5449.8	6020.5	6189.9	6967.1	6635.3	5565.8
20°	5350.0	5366.2	5345.4	5164.4	5171.4	5445.1	5834.9	6101.7	7157.3	6950.8	5772.2
22.5°	5811.7	5821.0	5702.6	5505.4	5447.4	5582.0	5941.6	6145.8	7310.4	7329.0	5834.9
25°	6345.3	6308.2	6285.0	6006.6	5830.2	5946.2	6182.9	6301.2	7405.5	7653.8	6013.5
27.5°	7085.4	7011.1	6869.6	6621.4	6491.5	6326.7	6496.1	6691.0	7677.0	8108.5	6208.4
30°	8178.1	8113.2	7837.1	7516.9	7175.9	7013.5	7066.8	7173.5	8166.5	8635.2	6465.9
32.5°	9823.0	9686.1	9287.1	8676.9	8212.9	7765.2	7751.2	7864.9	8605.0	9363.7	6772.2
35°	11635.0	11593.2	11006.2	10377.5	9479.7	8788.3	8799.9	8860.2	9444.9	10319.5	7173.5
37.5°	12839.1	13068.8	12695.2	12020.1	11266.1	10277.8	10027.2	10048.1	10597.9	11451.7	7897.4
40°	13769.4	13574.5	13618.6	13460.8	12945.8	12273.0	11718.5	11609.5	11931.9	12704.5	8616.6
42.5°	13363.4	13372.7	13644.1	14017.6	14145.2	14096.5	13530.4	13324.0	13073.4	13730.0	9301.0
45°	12217.3	12456.3	12808.9	13797.2	14664.9	15479.3	15367.9	15024.5	13862.2	14542.0	9695.4
47.5°	10389.1	10379.8	10957.5	12242.8	14170.8	16077.8	16583.6	16342.3	14421.3	14451.5	9614.2
48°	9714.0	9881.0	10477.3	11989.9	13857.6	15989.7	16692.6	16388.7	14326.2	14330.9	9544.6
50°	7180.5	7150.3	7892.8	9748.8	12377.4	15024.5	16233.3	16469.9	14323.9	13720.7	9057.4
52.5°	3793.3	3923.2	4463.7	6129.5	8751.2	12296.2	14319.3	14688.1	13818.1	12723.1	8356.8
55°	1612.4	1457.0	1872.3	2767.8	4923.1	8215.2	10505.1	11326.4	11683.7	11259.1	7310.4
57.5°	575.4	628.7	723.9	1041.7	2069.5	4496.2	6264.1	6902.1	8094.6	8261.6	4981.1
60°	368.9	375.8	406.0	477.9	777.2	1733.1	2972.0	3480.1	4020.6	4150.5	2324.7
62.5°	285.4	287.7	301.6	313.2	368.9	672.8	1115.9	1322.4	1373.5	1180.9	610.2
65°	239.0	241.3	245.9	245.9	262.2	315.5	389.8	429.2	417.6	413.0	345.7
67.5°	183.3	187.9	197.2	197.2	206.5	192.6	215.8	229.7	259.8	315.5	294.6
70°	143.8	146.2	153.1	157.8	157.8	139.2	155.4	169.4	190.2	234.3	232.0
72.5°	111.4	116.0	120.6	120.6	113.7	95.1	111.4	123.0	136.9	162.4	157.8
75°	85.8	85.8	88.2	71.9	55.7	48.7	67.3	81.2	102.1	106.7	88.2
77.5°	23.2	25.5	23.2	20.9	23.2	34.8	44.1	51.0	65.0	65.0	58.0
80°	0.0	2.3	7.0	13.9	23.2	32.5	39.4	44.1	51.0	55.7	53.4
82.5°	0.0	2.3	7.0	13.9	20.9	25.5	34.8	37.1	41.8	48.7	48.7
85°	0.0	2.3	4.6	9.3	13.9	16.2	16.2	13.9	13.9	11.6	9.3
87.5°	0.0	0.0	2.3	4.6	4.6	7.0	7.0	7.0	7.0	7.0	7.0
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°	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0	4596.0
2.5°	4619.2	4547.3	4438.2	4266.5	4101.8	3995.1	3893.0	3779.3	3716.7	3712.1	3677.3
5°	4674.9	4512.5	4252.6	3958.0	3642.5	3371.0	3097.2	2918.6	2758.5	2670.4	2654.1
7.5°	4705.0	4493.9	4074.0	3579.8	3041.6	2598.4	2292.2	2067.2	1979.0	1914.0	1911.7
10°	4767.7	4461.4	3807.2	3078.7	2412.8	1965.1	1753.9	1651.9	1603.1	1584.6	1556.7
12.5°	4814.1	4401.1	3533.4	2563.6	1907.1	1628.7	1535.9	1512.7	1515.0	1524.3	1512.7
15°	4879.0	4347.7	3164.5	2104.3	1600.8	1466.3	1466.3	1470.9	1503.4	1508.0	1505.7
17.5°	4874.4	4243.3	2784.0	1733.1	1415.2	1396.7	1403.6	1447.7	1468.6	1475.5	1459.3
20°	4930.1	4145.9	2392.0	1480.2	1310.8	1338.7	1385.1	1396.7	1422.2	1426.8	1408.3
22.5°	4913.8	3902.3	2027.7	1280.7	1231.9	1285.3	1331.7	1345.6	1338.7	1324.7	1322.4
25°	4883.7	3693.5	1693.6	1148.4	1173.9	1231.9	1276.0	1250.5	1236.6	1238.9	1241.2
27.5°	4830.3	3429.0	1417.5	1055.6	1095.1	1180.9	1178.6	1169.3	1183.2	1171.6	1183.2
30°	4821.0	3164.5	1190.2	972.1	1037.1	1099.7	1104.3	1120.6	1136.8	1115.9	1136.8
32.5°	4835.0	2874.5	1027.8	921.1	1002.3	1004.6	1055.6	1071.9	1060.3	1013.9	1018.5
35°	4941.7	2651.8	909.5	893.2	946.6	948.9	997.6	976.7	925.7	897.9	914.1
37.5°	5166.7	2466.2	853.8	867.7	872.3	902.5	904.8	863.1	867.7	865.4	874.7
40°	5454.4	2324.7	814.3	844.5	839.9	860.7	777.2	800.4	821.3	828.3	832.9
42.5°	5651.6	2222.6	788.8	807.4	798.1	761.0	714.6	737.8	754.0	779.5	784.2
45°	5739.8	2141.4	758.7	742.4	742.4	675.1	656.6	661.2	698.3	726.2	721.5
47.5°	5595.9	2062.5	705.3	656.6	672.8	617.1	596.2	596.2	635.7	670.5	663.5
48°	5540.2	2030.0	707.6	638.0	649.6	607.8	587.0	582.3	626.4	658.9	658.9
50°	5264.2	1909.4	647.3	587.0	563.8	559.1	545.2	549.8	577.7	607.8	607.8
52.5°	4725.9	1649.5	547.5	503.4	461.7	489.5	496.5	487.2	501.1	529.0	526.6
55°	3944.1	1266.7	438.5	417.6	385.1	415.3	429.2	417.6	403.7	424.6	424.6
57.5°	2526.5	682.1	350.3	355.0	322.5	352.6	364.2	336.4	310.9	327.1	324.8
60°	1139.1	408.3	287.7	280.7	259.8	294.6	313.2	280.7	245.9	257.5	269.1
62.5°	426.9	290.0	218.1	213.4	208.8	241.3	250.6	225.0	190.2	197.2	199.5
65°	313.2	255.2	174.0	157.8	167.0	190.2	185.6	160.1	136.9	136.9	141.5
67.5°	266.8	222.7	141.5	123.0	123.0	125.3	116.0	102.1	95.1	99.8	104.4
70°	208.8	176.3	111.4	95.1	85.8	76.6	67.3	65.0	58.0	65.0	62.6
72.5°	134.6	118.3	85.8	71.9	65.0	53.4	44.1	41.8	34.8	32.5	32.5
75°	71.9	71.9	67.3	58.0	51.0	41.8	34.8	27.8	18.6	13.9	13.9
77.5°	51.0	55.7	60.3	55.7	46.4	34.8	27.8	18.6	9.3	4.6	4.6
80°	48.7	55.7	60.3	53.4	46.4	34.8	25.5	13.9	7.0	2.3	2.3
82.5°	44.1	51.0	55.7	48.7	41.8	30.2	23.2	13.9	7.0	2.3	2.3
85°	9.3	11.6	13.9	13.9	16.2	20.9	16.2	11.6	4.6	2.3	2.3
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.6	4.6	2.3	2.3	2.3
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)