

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: P648483

Luminaire Tested: **GALN-SA6B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15450.9 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

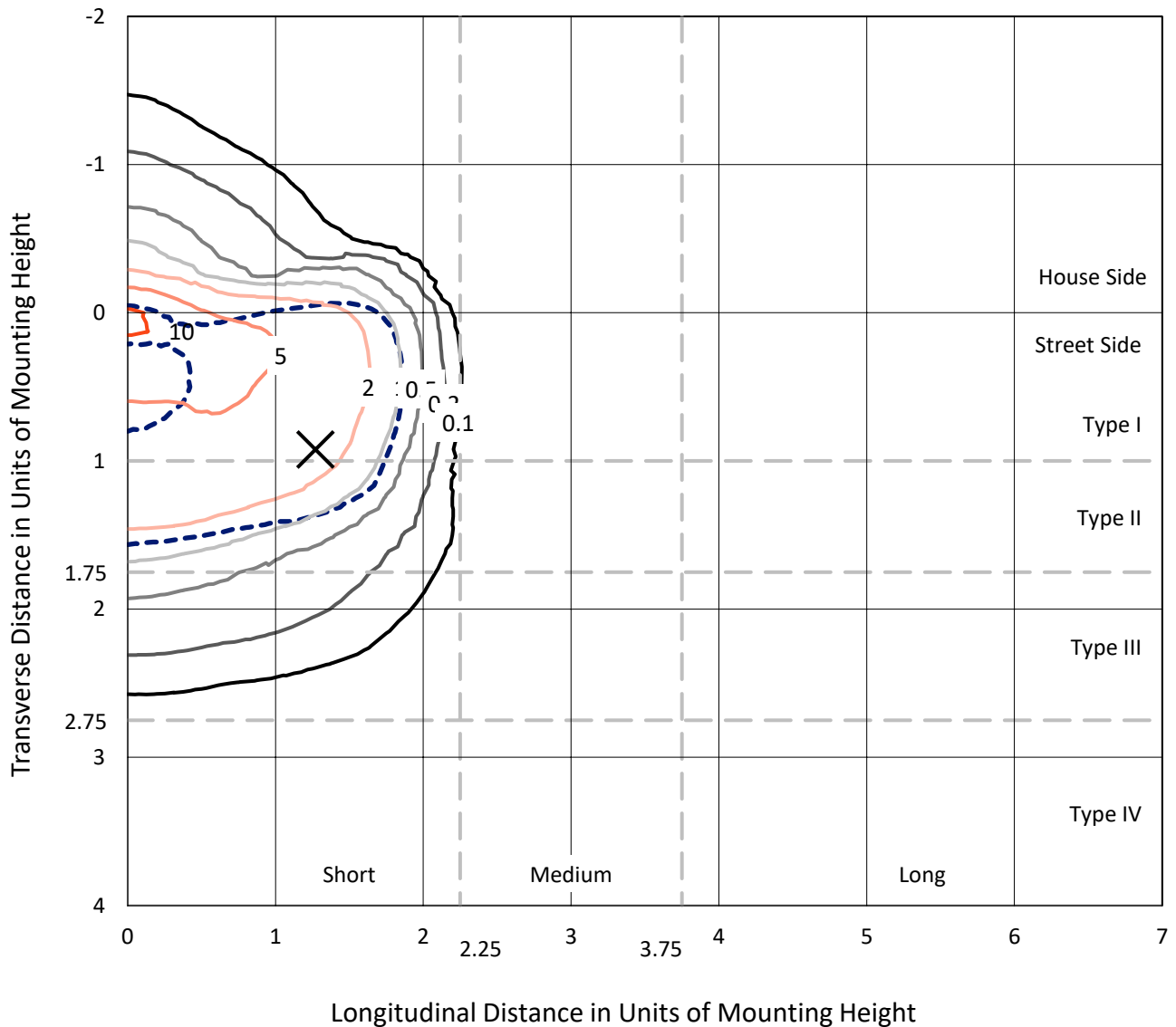
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

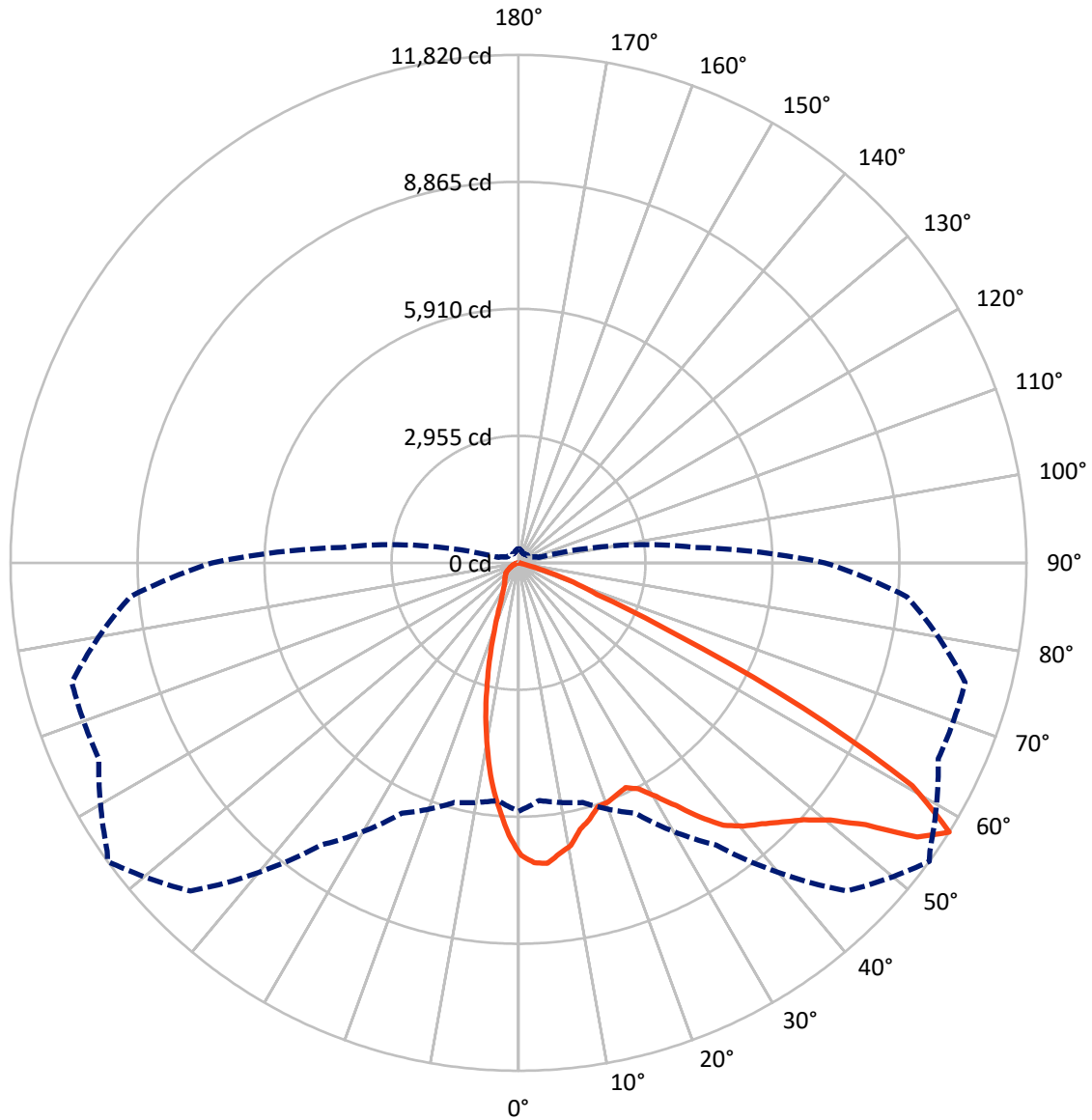
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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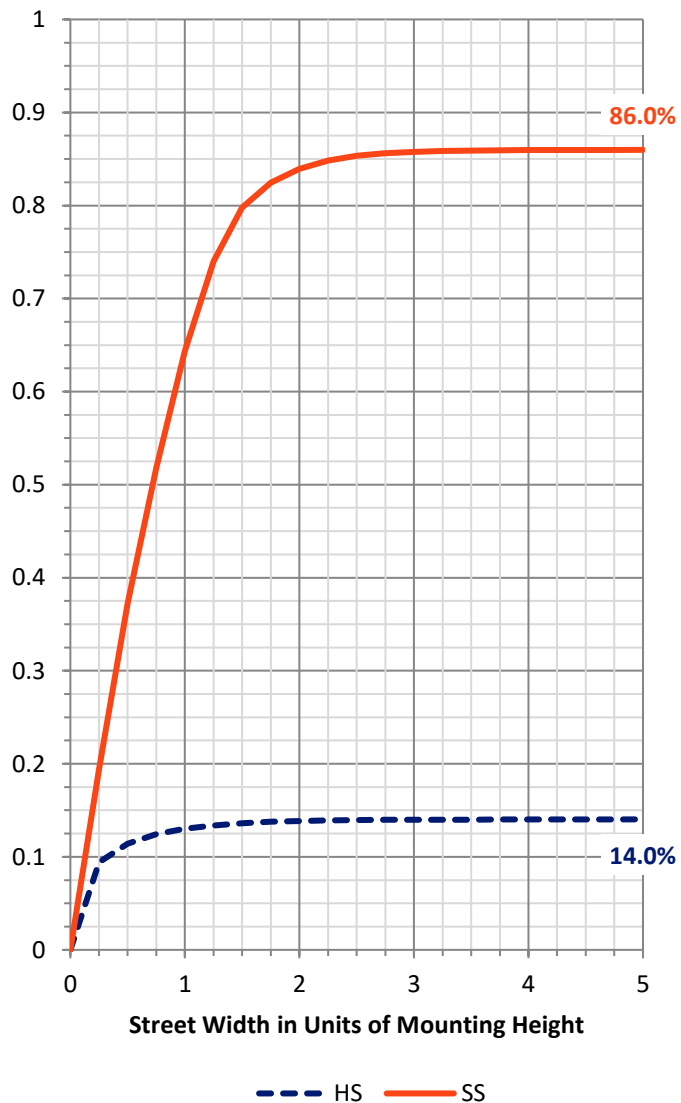
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2183.5	0.0	2183.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13267.5	0.0	13267.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	15450.9	0.0	15450.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.6	3.7
10°-20°	1216.0	7.9
20°-30°	1611.5	10.4
30°-40°	2341.9	15.2
40°-50°	3472.7	22.5
50°-60°	4342.5	28.1
60°-70°	1712.9	11.1
70°-80°	170.5	1.1
80°-90°	13.2	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°	15450.9	100.0
0°-180°	15450.9	100.0

**Coefficient of Utilization**

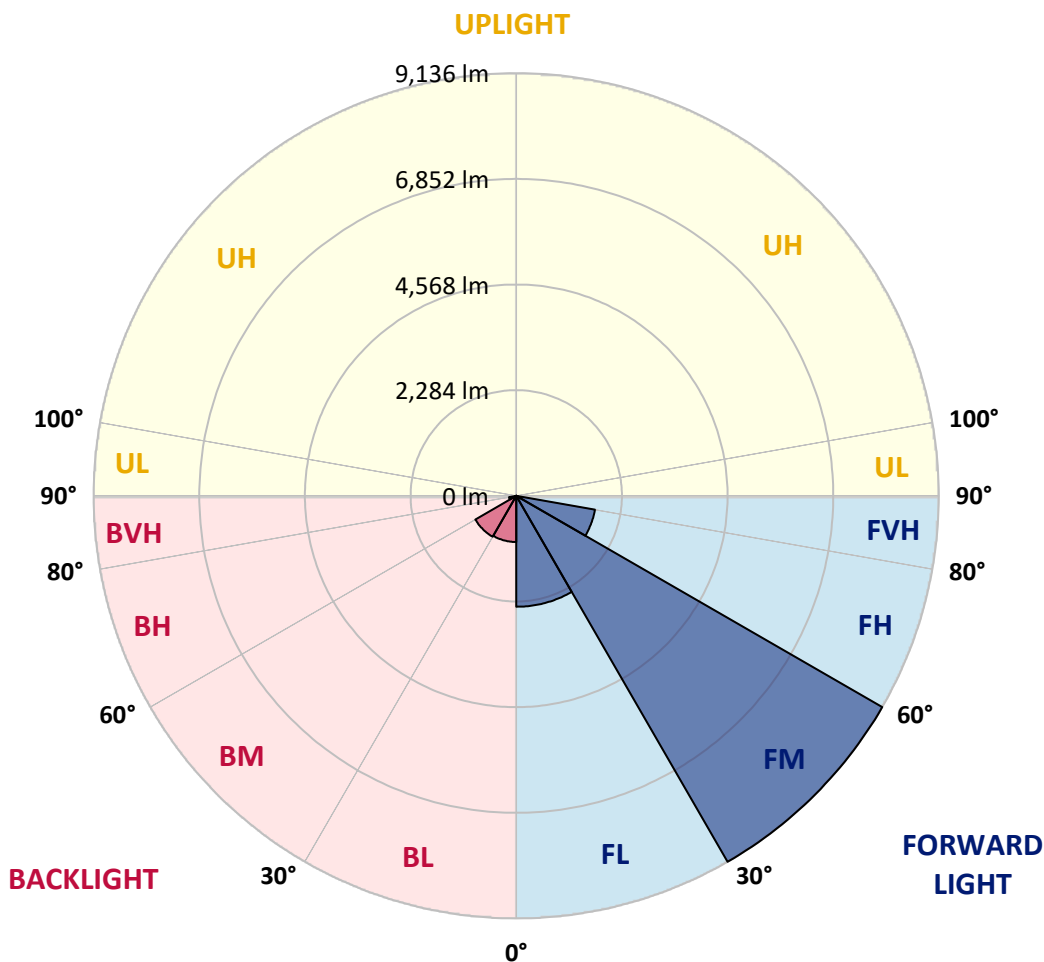


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.4	15.5			
FM (30°-60°)	9136.1	59.1			
FH (60°-80°)	1726.9	11.2			G1/1800
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	998.6	6.5	B2/1000		
BM (30°-60°)	1021.1	6.6	B2/2500		
BH (60°-80°)	156.6	1.0	B1/500		G1/500
BVH (80°-90°)	7.2	0.0			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°	54°	55°	65°	75°	85°
0°	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4
2.5°	7202.8	7128.1	7133.9	7108.0	7073.5	7099.4	6987.3	7013.2	7010.4	6858.1	6757.5
5°	7021.9	7102.3	7019.0	7087.9	7021.9	7093.7	7024.7	6973.0	6889.7	6777.6	6590.9
7.5°	6714.4	6636.9	6659.8	6746.0	6760.3	6921.3	6835.0	6901.1	6866.7	6645.5	6389.7
10°	6096.7	6079.4	6194.4	6309.3	6450.1	6622.5	6688.5	6651.2	6625.4	6542.0	6200.1
12.5°	5622.6	5671.5	5668.6	5858.2	6096.7	6194.4	6366.7	6361.0	6504.7	6349.5	6022.0
15°	5171.6	5197.4	5318.1	5435.9	5700.2	5978.9	6191.5	6220.2	6392.6	6283.4	5884.1
17.5°	4895.7	4858.4	4953.2	5094.0	5364.0	5729.0	5964.5	6033.5	6269.1	6246.1	5726.1
20°	4622.8	4622.8	4700.3	4867.0	5114.1	5524.9	5944.5	5924.3	6269.1	6203.0	5556.6
22.5°	4530.8	4576.8	4596.9	4723.4	5016.4	5369.8	5858.2	5895.6	6317.9	6182.9	5481.9
25°	4657.3	4596.9	4602.7	4703.2	4979.1	5295.1	5795.0	5878.4	6407.0	6283.4	5421.5
27.5°	4677.4	4737.7	4754.9	4823.9	5007.8	5318.1	5953.1	6122.6	6628.3	6519.0	5438.7
30°	4852.6	4913.0	4910.1	5027.9	5154.3	5504.8	6306.4	6340.9	7085.1	6815.0	5545.0
32.5°	5065.2	5128.5	5148.5	5286.5	5387.0	5846.7	6737.4	6826.4	7524.6	7280.4	5823.7
35°	5329.6	5306.6	5398.6	5536.4	5751.9	6346.7	7263.2	7412.6	7998.7	7883.8	6111.1
37.5°	5660.0	5631.3	5720.3	5944.5	6237.5	6938.5	7748.7	7846.4	8343.4	8444.0	6642.6
40°	5892.7	5904.2	6174.3	6476.0	6786.3	7501.6	8056.1	8151.0	8584.8	8966.9	7044.8
42.5°	6280.6	6352.4	6677.0	7044.8	7369.4	7924.0	8306.1	8398.1	8696.9	9386.4	7587.8
45°	6843.7	6812.1	7171.3	7582.1	7941.2	8363.5	8602.0	8570.4	8762.9	9803.0	7929.8
47.5°	7567.7	7573.5	7811.9	8162.5	8536.0	8745.7	8932.5	8820.4	8900.8	10242.6	8386.6
50°	8061.9	8105.0	8297.5	8656.6	8843.4	9165.2	9403.6	9334.7	9308.8	10506.9	8673.8
52.5°	8188.3	8317.6	8421.0	8869.2	9306.0	9814.4	10119.0	10265.5	9805.8	10595.9	9038.7
55°	7234.5	7349.4	7714.3	8329.1	9481.2	10843.1	11262.5	11265.4	10455.2	10992.5	9294.4
57.5°	5783.6	5550.8	5774.9	6427.1	8015.9	10799.9	11819.9	11684.9	10779.8	10759.8	9073.2
60°	3999.3	3941.9	3956.3	4214.8	5547.9	8590.5	10532.8	10708.0	9926.5	9326.1	7182.7
62.5°	3169.0	3120.2	3057.0	3028.3	3444.8	5352.6	7429.8	7676.9	6941.4	6047.8	4258.0
65°	2482.3	2453.6	2462.2	2577.2	2574.3	3036.9	4062.5	3962.0	3171.9	2344.5	1338.9
67.5°	1675.0	1718.1	1752.6	2100.2	2278.4	2114.6	1962.4	1904.9	1031.4	433.9	295.9
70°	942.3	948.1	985.5	1313.0	1729.6	1640.5	1353.3	1353.3	514.3	158.0	169.5
72.5°	514.3	497.0	462.6	566.0	770.0	781.5	603.4	525.8	152.3	103.4	94.8
75°	249.9	247.1	212.6	175.2	166.6	137.9	106.3	97.7	69.0	66.1	57.5
77.5°	51.7	48.9	25.8	25.8	28.7	31.6	40.2	40.2	48.9	48.9	40.2
80°	0.0	0.0	2.9	11.5	20.1	28.7	34.5	34.5	40.2	40.2	31.6
82.5°	0.0	0.0	2.9	8.6	17.2	25.8	31.6	34.5	40.2	43.1	34.5
85°	0.0	0.0	0.0	5.7	14.3	20.1	17.2	17.2	14.3	11.5	5.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4	6806.4
2.5°	6705.8	6700.1	6567.9	6493.2	6358.1	6240.4	6145.5	6076.5	6076.5	6033.5	5993.2
5°	6516.1	6467.3	6185.8	6004.7	5749.0	5559.5	5430.1	5329.6	5171.6	5214.6	5045.2
7.5°	6280.6	6157.0	5783.6	5507.7	5154.3	4884.3	4608.4	4364.2	4128.6	4022.3	4079.8
10°	6027.8	5812.3	5309.4	4872.8	4433.2	3939.0	3617.2	3226.5	2985.1	2970.8	2907.6
12.5°	5760.5	5516.3	4904.4	4301.0	3723.6	3128.8	2637.5	2272.6	2108.9	1927.8	1962.4
15°	5559.5	5197.4	4453.3	3726.4	2959.3	2358.8	1864.6	1583.1	1428.0	1384.8	1370.5
17.5°	5341.1	4953.2	3993.6	3114.5	2321.4	1698.0	1341.7	1206.7	1146.4	1146.4	1137.8
20°	5114.1	4677.4	3536.8	2545.5	1741.1	1267.1	1074.5	1031.4	1028.5	1025.7	1025.7
22.5°	4964.7	4361.3	3123.1	2022.6	1313.0	1014.2	933.7	916.5	928.0	962.5	962.5
25°	4806.7	4056.8	2666.2	1560.0	1017.0	870.5	824.6	836.1	864.8	896.4	884.9
27.5°	4645.8	3858.5	2235.2	1223.9	833.2	761.4	744.2	770.0	801.6	830.3	821.7
30°	4608.4	3646.0	1827.3	928.0	715.4	663.7	675.2	698.1	729.8	741.3	752.8
32.5°	4665.9	3479.3	1496.9	761.4	623.4	609.1	609.1	620.6	640.7	666.6	658.0
35°	4829.7	3384.5	1183.7	660.8	571.7	557.4	554.5	566.0	577.5	586.1	577.5
37.5°	5079.6	3309.8	968.3	586.1	537.3	514.3	508.6	505.7	517.2	520.0	525.8
40°	5398.6	3350.0	821.7	540.1	502.8	476.9	459.7	459.7	459.7	468.3	471.2
42.5°	5743.3	3404.6	709.6	514.3	471.2	439.6	422.4	416.6	422.4	433.9	431.0
45°	6105.3	3510.9	637.8	474.0	442.5	402.2	379.3	373.5	387.9	410.8	407.9
47.5°	6444.3	3663.2	583.3	448.2	413.7	376.4	347.7	341.9	367.8	399.3	402.2
50°	6783.4	3927.5	563.1	428.1	393.6	350.5	324.6	318.9	347.7	387.9	396.5
52.5°	7174.1	4211.9	548.7	402.2	370.6	330.4	301.7	295.9	327.5	379.3	382.1
55°	7429.8	4453.3	537.3	356.3	327.5	298.8	275.9	273.0	307.4	353.4	364.9
57.5°	7131.0	4117.2	497.0	310.3	278.7	264.3	244.2	244.2	273.0	316.0	324.6
60°	5407.2	2709.3	353.4	249.9	235.6	227.0	218.4	218.4	241.3	273.0	275.9
62.5°	3166.1	1459.5	227.0	201.2	201.2	192.5	178.1	178.1	201.2	218.4	221.2
65°	939.5	468.3	183.8	172.4	169.5	155.1	140.8	137.9	155.1	163.8	160.9
67.5°	270.1	215.5	152.3	143.7	140.8	117.8	109.2	106.3	109.2	103.4	100.5
70°	160.9	146.5	117.8	120.7	106.3	86.2	77.6	74.7	69.0	60.4	54.6
72.5°	89.0	89.0	86.2	91.9	74.7	57.5	48.9	40.2	31.6	25.8	23.0
75°	54.6	57.5	60.4	63.2	48.9	37.3	31.6	20.1	11.5	5.7	5.7
77.5°	37.3	40.2	43.1	46.0	40.2	34.5	25.8	14.3	2.9	0.0	0.0
80°	28.7	31.6	37.3	40.2	43.1	46.0	34.5	14.3	2.9	0.0	0.0
82.5°	31.6	34.5	43.1	40.2	40.2	40.2	31.6	14.3	2.9	0.0	0.0
85°	5.7	8.6	14.3	14.3	20.1	25.8	20.1	5.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)