

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: P647603

Luminaire Tested: **GALN-SA8D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647603  
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-SA8D-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA 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: 28603.8 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

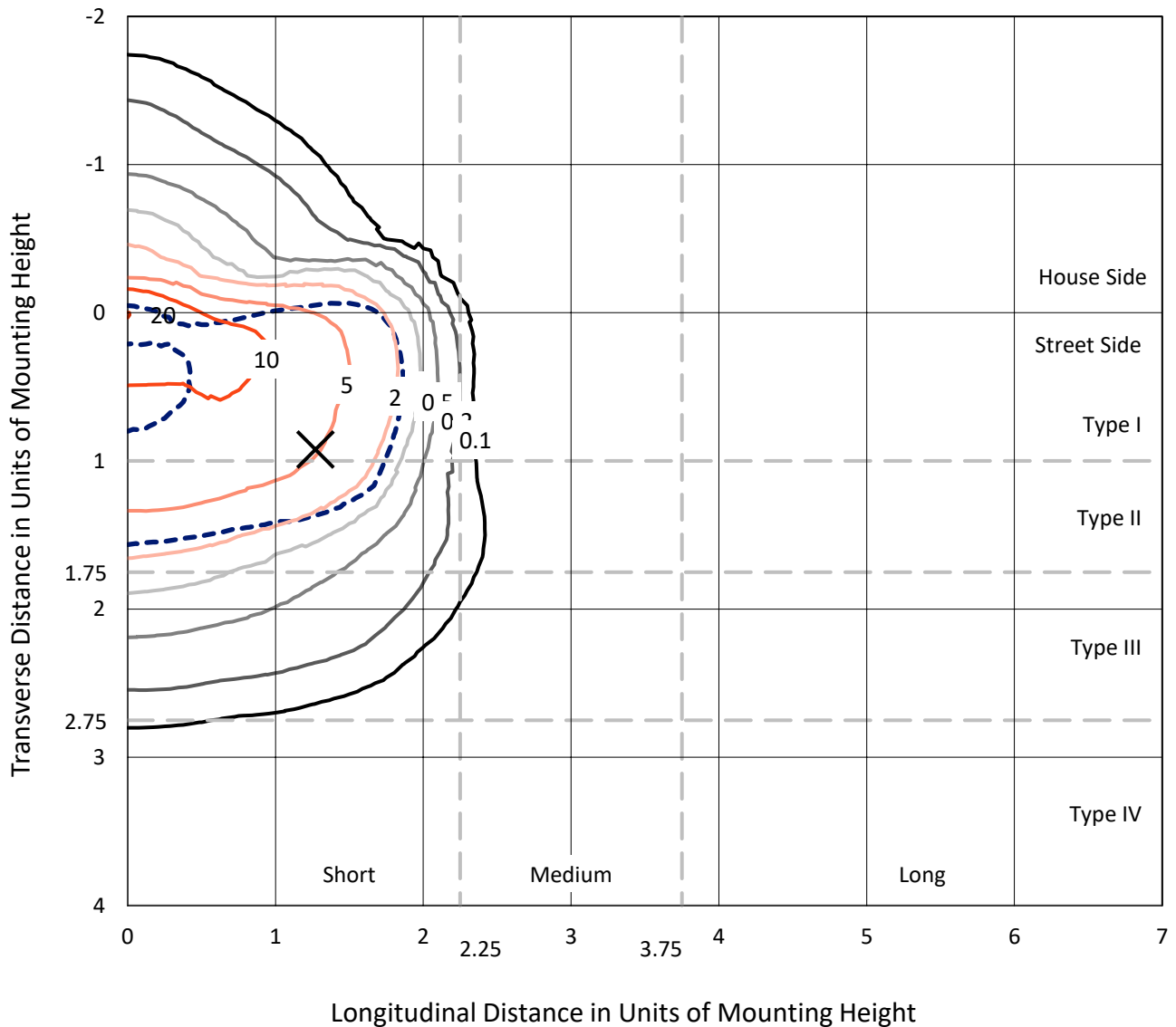
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

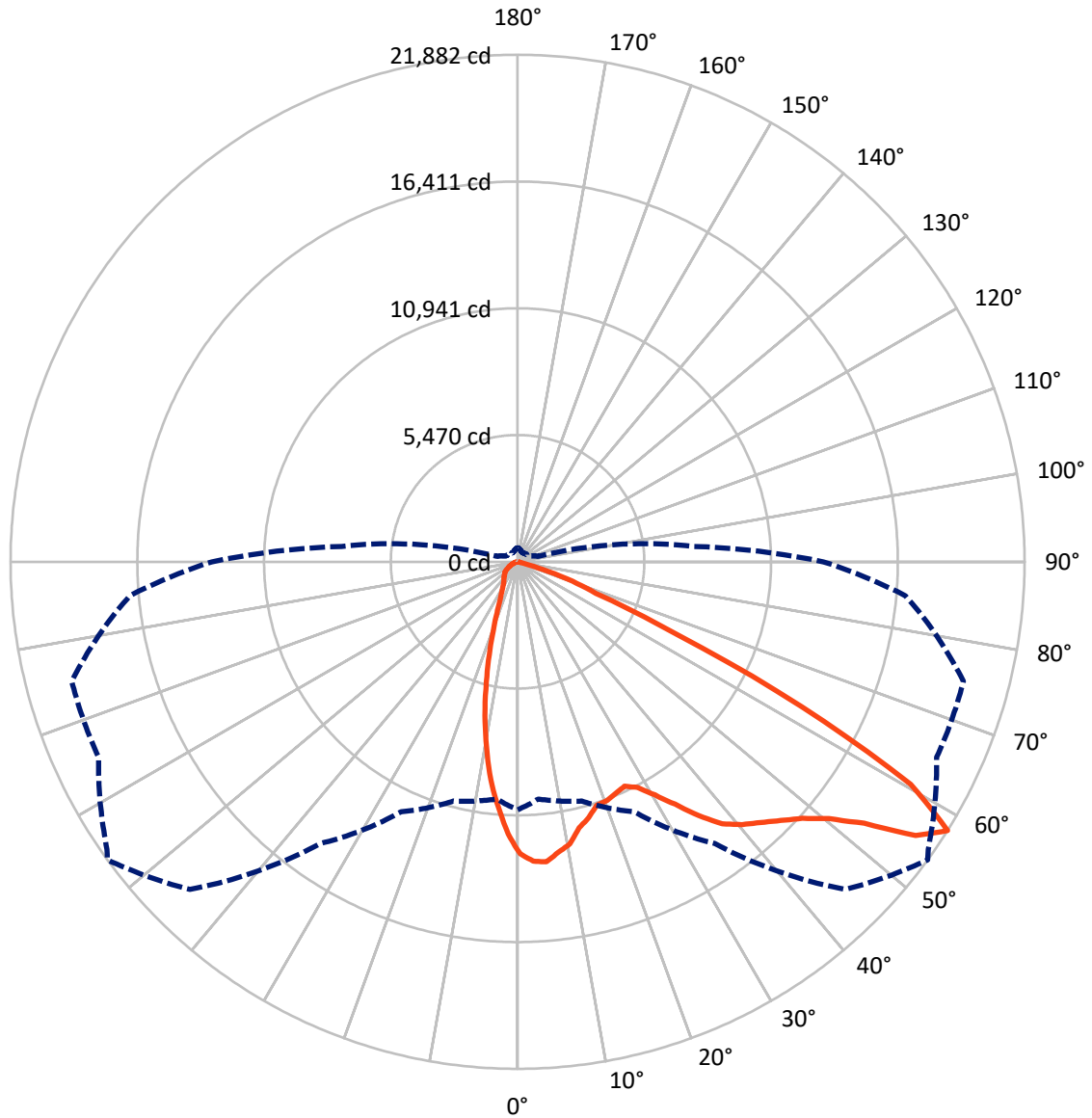
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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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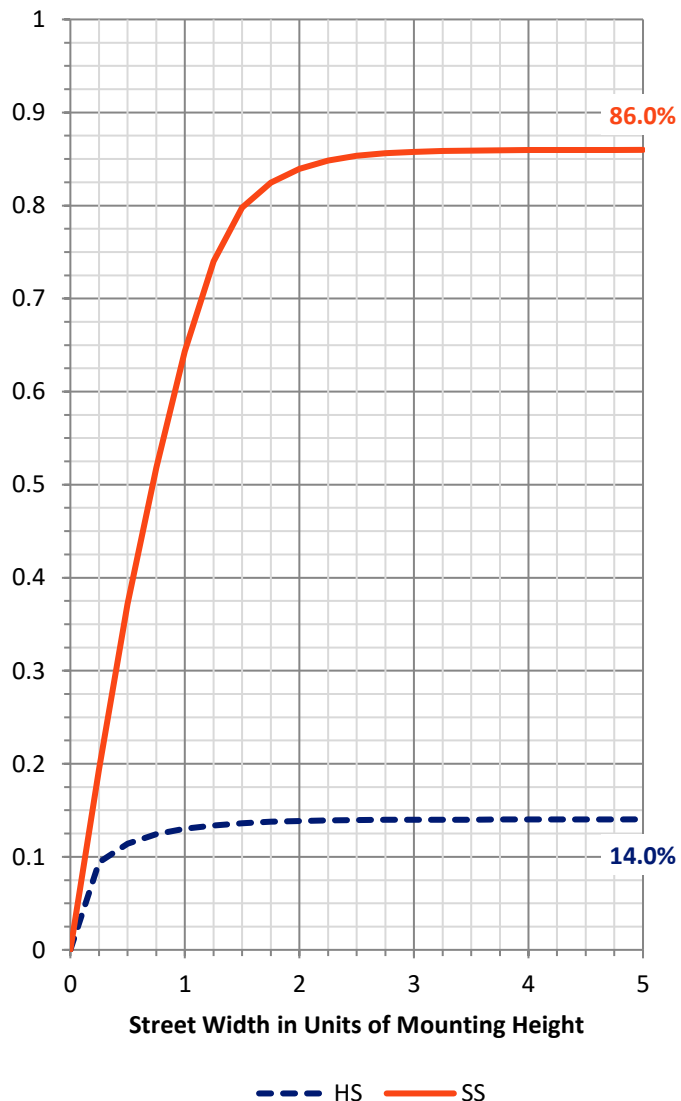
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4042.2	0.0	4042.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	24561.6	0.0	24561.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	28603.8	0.0	28603.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.4	3.7
10°-20°	2251.2	7.9
20°-30°	2983.2	10.4
30°-40°	4335.5	15.2
40°-50°	6429.0	22.5
50°-60°	8039.1	28.1
60°-70°	3171.1	11.1
70°-80°	315.7	1.1
80°-90°	24.6	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°	28603.8	100.0
0°-180°	28603.8	100.0

**Coefficient of Utilization**

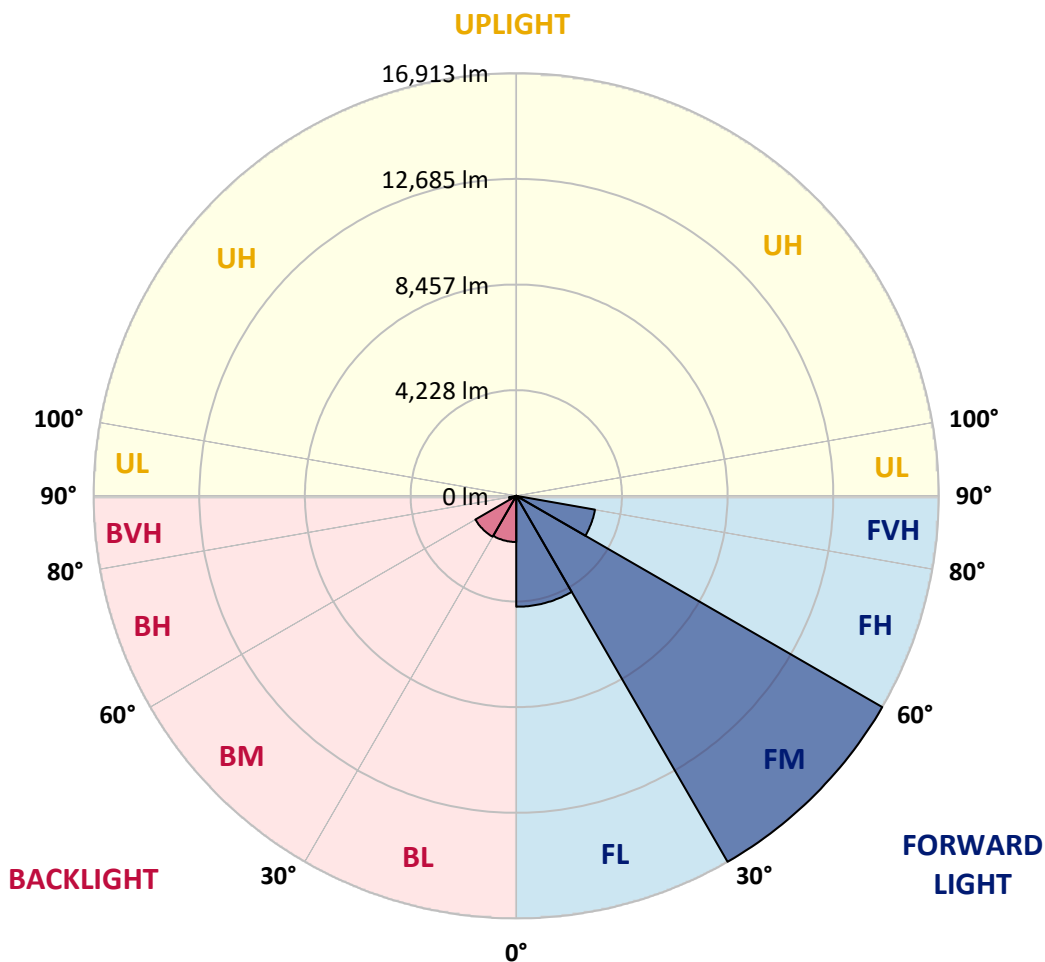


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4440.1	15.5			
FM (30°-60°)	16913.3	59.1			
FH (60°-80°)	3196.9	11.2			G2/5000
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	1848.7	6.5	B3/2500		
BM (30°-60°)	1890.2	6.6	B2/2500		
BH (60°-80°)	289.9	1.0	B1/500		G1/500
BVH (80°-90°)	13.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3
2.5°	13334.3	13196.1	13206.7	13158.9	13095.0	13142.9	12935.5	12983.3	12978.0	12696.1	12509.9
5°	12999.3	13148.2	12994.0	13121.6	12999.3	13132.2	13004.6	12908.9	12754.6	12547.2	12201.4
7.5°	12430.1	12286.5	12329.1	12488.6	12515.2	12813.1	12653.5	12775.9	12712.0	12302.5	11829.1
10°	11286.6	11254.7	11467.4	11680.2	11940.8	12260.0	12382.3	12313.1	12265.2	12111.0	11478.1
12.5°	10409.0	10499.4	10494.1	10845.1	11286.6	11467.4	11786.6	11775.9	12041.8	11754.6	11148.3
15°	9573.9	9621.8	9845.2	10063.3	10552.6	11068.5	11462.1	11515.3	11834.4	11632.3	10893.0
17.5°	9063.3	8994.2	9169.7	9430.3	9930.3	10605.8	11041.9	11169.6	11605.7	11563.2	10600.5
20°	8558.0	8558.0	8701.6	9010.1	9467.6	10228.2	11004.7	10967.5	11605.7	11483.4	10286.7
22.5°	8387.8	8472.9	8510.2	8744.2	9286.7	9940.9	10845.1	10914.2	11696.1	11446.1	10148.4
25°	8621.8	8510.2	8520.8	8707.0	9217.6	9802.6	10728.1	10882.4	11861.0	11632.3	10036.7
27.5°	8659.1	8770.8	8802.7	8930.3	9270.7	9845.2	11020.6	11334.5	12270.5	12068.5	10068.6
30°	8983.5	9095.2	9089.9	9308.0	9542.0	10190.9	11674.8	11738.7	13116.3	12616.3	10265.4
32.5°	9377.1	9494.1	9531.4	9786.6	9972.8	10823.9	12472.7	12637.5	13930.0	13477.9	10781.3
35°	9866.4	9823.9	9994.1	10249.4	10648.3	11749.3	13446.1	13722.6	14807.7	14594.9	11313.2
37.5°	10478.1	10424.9	10589.8	11004.7	11547.2	12845.0	14345.0	14525.7	15445.9	15632.1	12297.2
40°	10909.0	10930.2	11430.2	11988.7	12563.1	13887.5	14914.0	15089.6	15892.7	16600.1	13041.8
42.5°	11627.0	11760.0	12361.0	13041.8	13642.8	14669.3	15376.8	15547.0	16100.1	17376.6	14047.1
45°	12669.5	12611.0	13275.8	14036.4	14701.3	15483.2	15924.7	15866.1	16222.5	18147.9	14680.0
47.5°	14009.8	14020.5	14461.9	15110.8	15802.3	16190.6	16536.3	16328.8	16477.8	18961.7	15525.7
50°	14924.7	15004.5	15360.8	16025.7	16371.4	16967.1	17408.6	17281.0	17233.0	19451.1	16057.6
52.5°	15158.7	15398.1	15589.5	16419.3	17227.7	18169.2	18733.0	19004.3	18153.2	19615.9	16733.1
55°	13392.8	13605.6	14281.1	15419.3	17552.2	20073.3	20849.9	20855.2	19355.3	20349.9	17206.5
57.5°	10706.8	10276.0	10690.8	11898.2	14839.6	19993.5	21881.7	21631.8	19956.3	19919.1	16796.9
60°	7403.8	7297.5	7324.0	7802.8	10270.7	15903.4	19498.9	19823.4	18376.6	17265.0	13297.1
62.5°	5866.7	5776.3	5659.3	5606.0	6377.3	9909.0	13754.6	14211.9	12850.4	11196.2	7882.5
65°	4595.5	4542.3	4558.2	4771.0	4765.7	5622.0	7520.9	7334.7	5872.0	4340.2	2478.6
67.5°	3100.9	3180.7	3244.5	3888.1	4217.9	3914.7	3632.8	3526.4	1909.5	803.1	547.9
70°	1744.6	1755.3	1824.4	2430.7	3201.9	3037.1	2505.2	2505.2	952.0	292.5	313.8
72.5°	952.0	920.2	856.4	1047.8	1425.5	1446.7	1116.9	973.3	281.9	191.4	175.5
75°	462.8	457.4	393.6	324.5	308.5	255.3	196.8	180.9	127.6	122.3	106.4
77.5°	95.8	90.4	47.8	47.8	53.2	58.5	74.5	74.5	90.4	90.4	74.5
80°	0.0	0.0	5.3	21.3	37.3	53.2	63.8	63.8	74.5	74.5	58.5
82.5°	0.0	0.0	5.3	16.0	31.9	47.8	58.5	63.8	74.5	79.8	63.8
85°	0.0	0.0	0.0	10.6	26.6	37.3	31.9	31.9	26.6	21.3	10.6
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°	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3	12600.3
2.5°	12414.2	12403.6	12158.9	12020.6	11770.6	11552.5	11377.0	11249.4	11249.4	11169.6	11095.1
5°	12063.1	11972.7	11451.5	11116.4	10643.0	10292.0	10052.6	9866.4	9573.9	9653.7	9339.9
7.5°	11627.0	11398.3	10706.8	10196.2	9542.0	9042.0	8531.4	8079.3	7643.2	7446.4	7552.7
10°	11158.9	10760.1	9829.2	9020.8	8207.0	7292.2	6696.5	5973.0	5526.3	5499.7	5382.7
12.5°	10664.3	10212.2	9079.3	7962.3	6893.2	5792.2	4882.7	4207.2	3904.0	3568.9	3632.8
15°	10292.0	9621.8	8244.2	6898.5	5478.4	4366.8	3451.9	2930.7	2643.5	2563.7	2537.1
17.5°	9887.7	9169.7	7393.2	5765.6	4297.7	3143.4	2483.9	2233.9	2122.2	2122.2	2106.3
20°	9467.6	8659.1	6547.5	4712.5	3223.2	2345.6	1989.2	1909.5	1904.2	1898.9	1898.9
22.5°	9190.9	8074.0	5781.6	3744.5	2430.7	1877.6	1728.6	1696.7	1718.0	1781.8	1781.8
25°	8898.4	7510.2	4935.9	2888.1	1882.9	1611.6	1526.5	1547.8	1601.0	1659.5	1638.2
27.5°	8600.6	7143.2	4138.1	2265.8	1542.4	1409.5	1377.6	1425.5	1483.9	1537.2	1521.2
30°	8531.4	6749.6	3382.8	1718.0	1324.4	1228.7	1249.9	1292.5	1351.0	1372.3	1393.5
32.5°	8637.8	6441.1	2771.1	1409.5	1154.2	1127.6	1127.6	1148.9	1186.1	1234.0	1218.0
35°	8941.0	6265.6	2191.4	1223.4	1058.5	1031.8	1026.5	1047.8	1069.1	1085.1	1069.1
37.5°	9403.8	6127.3	1792.4	1085.1	994.6	952.0	941.4	936.2	957.4	962.7	973.3
40°	9994.1	6201.8	1521.2	1000.0	930.8	882.9	851.0	851.0	851.0	866.9	872.3
42.5°	10632.4	6302.8	1313.7	952.0	872.3	813.8	781.9	771.3	781.9	803.1	797.8
45°	11302.5	6499.6	1180.8	877.6	819.1	744.6	702.1	691.5	718.0	760.6	755.3
47.5°	11930.2	6781.6	1079.8	829.7	765.9	696.8	643.5	633.0	680.8	739.3	744.6
50°	12557.8	7270.9	1042.5	792.5	728.7	648.9	601.0	590.4	643.5	718.0	734.0
52.5°	13281.2	7797.4	1015.9	744.6	686.1	611.7	558.5	547.9	606.4	702.1	707.4
55°	13754.6	8244.2	994.6	659.5	606.4	553.2	510.6	505.3	569.1	654.2	675.5
57.5°	13201.4	7621.9	920.2	574.4	515.9	489.3	452.1	452.1	505.3	585.1	601.0
60°	10010.1	5015.7	654.2	462.8	436.1	420.2	404.3	404.3	446.8	505.3	510.6
62.5°	5861.4	2702.0	420.2	372.3	372.3	356.3	329.8	329.8	372.3	404.3	409.6
65°	1739.3	866.9	340.4	319.2	313.8	287.2	260.7	255.3	287.2	303.2	297.9
67.5°	499.9	398.9	281.9	265.9	260.7	218.1	202.1	196.8	202.1	191.4	186.2
70°	297.9	271.2	218.1	223.4	196.8	159.6	143.6	138.3	127.6	111.7	101.1
72.5°	164.9	164.9	159.6	170.2	138.3	106.4	90.4	74.5	58.5	47.8	42.5
75°	101.1	106.4	111.7	117.0	90.4	69.1	58.5	37.3	21.3	10.6	10.6
77.5°	69.1	74.5	79.8	85.1	74.5	63.8	47.8	26.6	5.3	0.0	0.0
80°	53.2	58.5	69.1	74.5	79.8	85.1	63.8	26.6	5.3	0.0	0.0
82.5°	58.5	63.8	79.8	74.5	74.5	74.5	58.5	26.6	5.3	0.0	0.0
85°	10.6	16.0	26.6	26.6	37.3	47.8	37.3	10.6	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)