

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: P652523

Luminaire Tested: **GALN-SA7B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24471.4 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

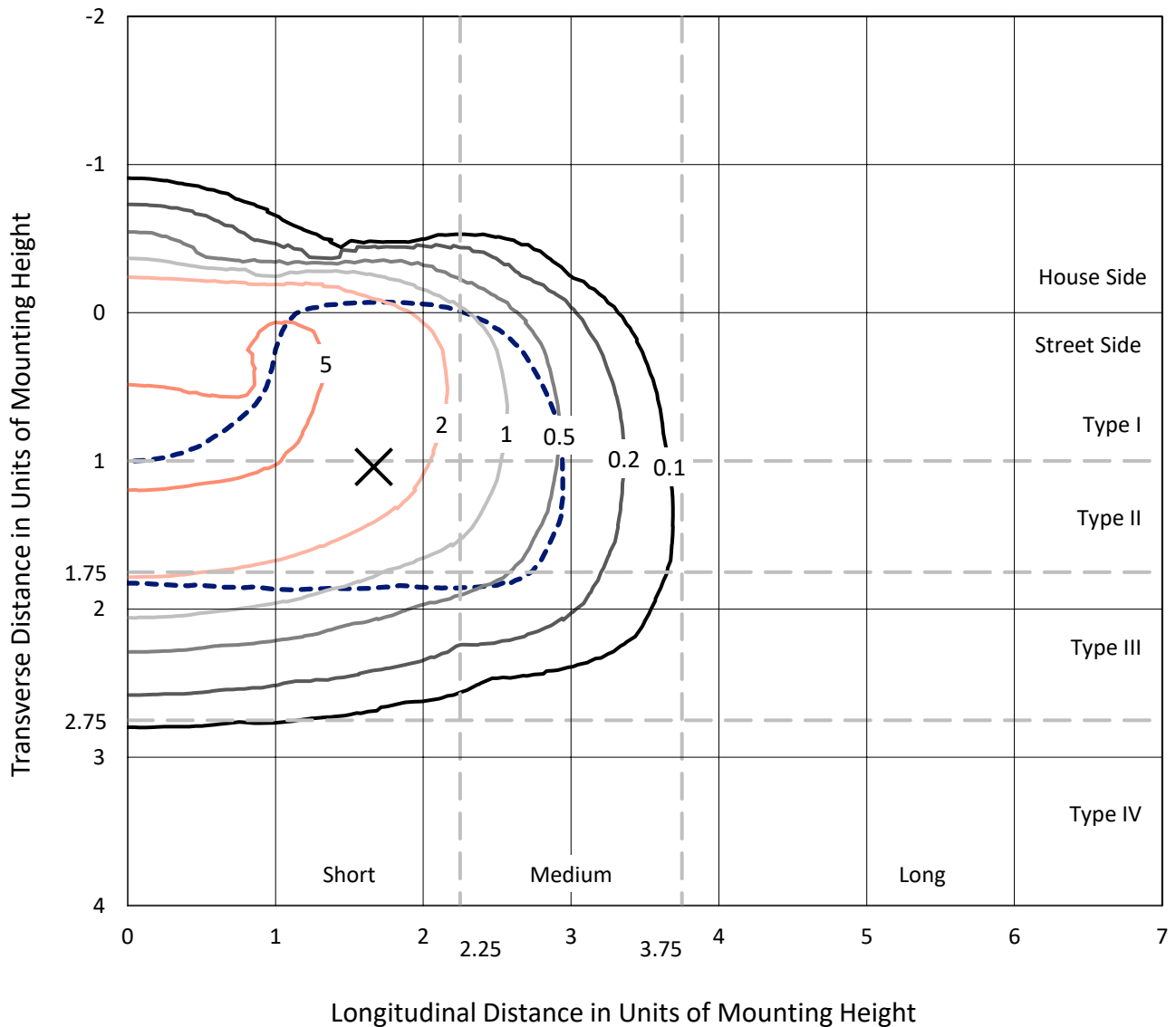
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

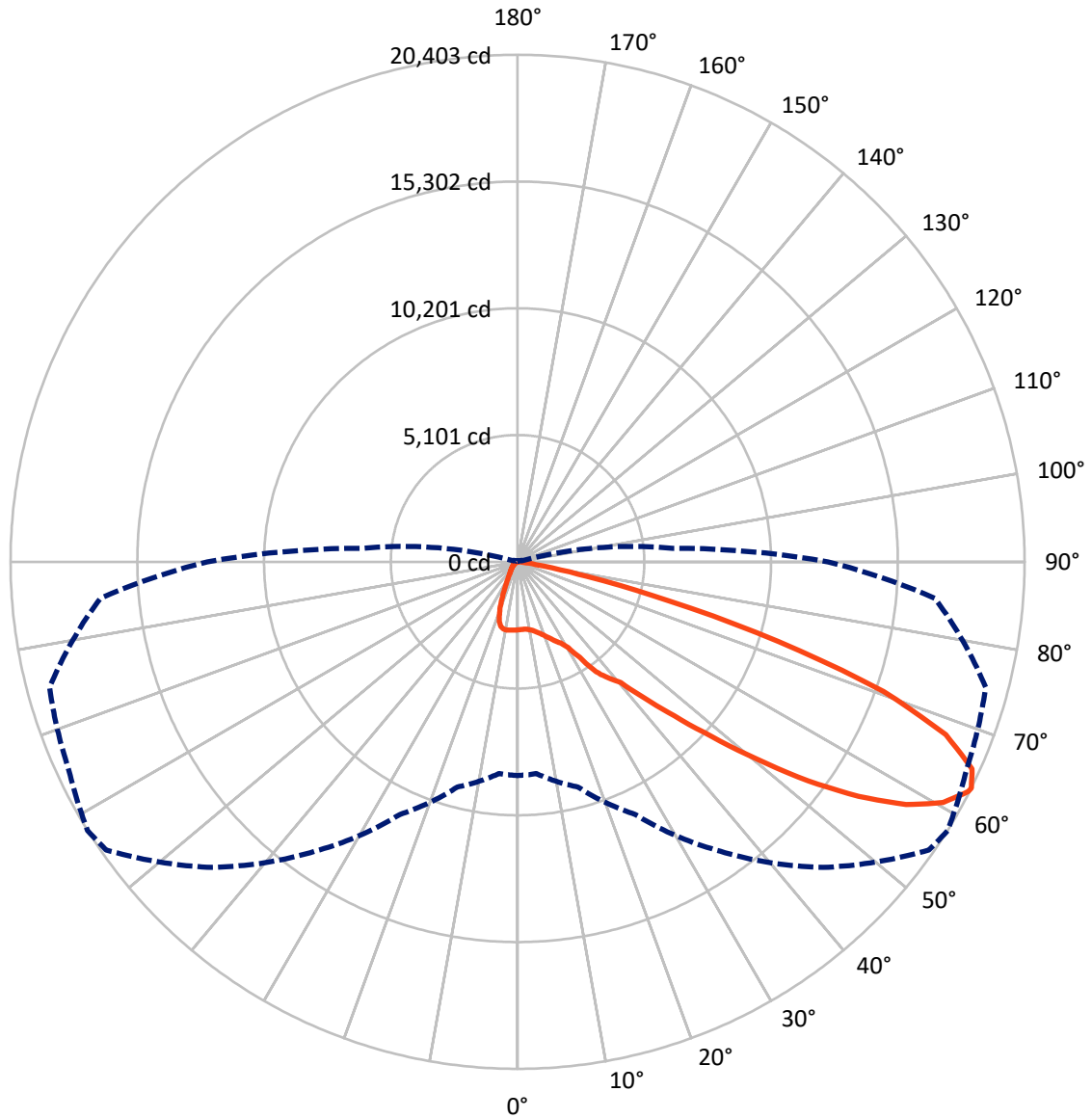
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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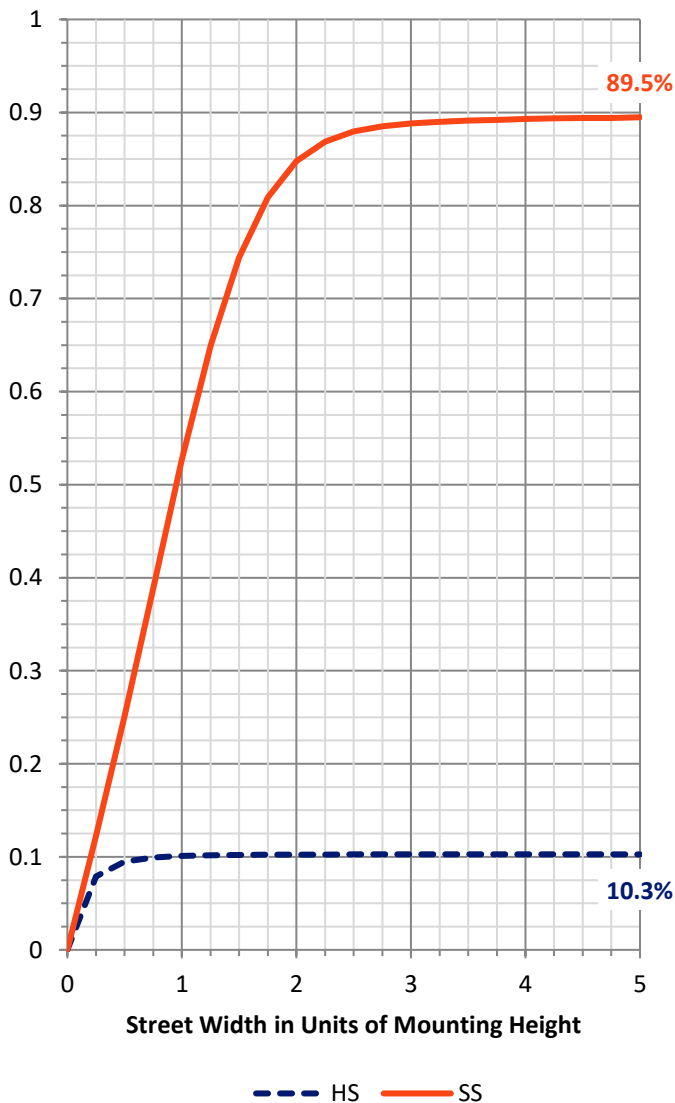
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.9	0.0	2533.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21937.6	0.0	21937.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	24471.4	0.0	24471.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.0
10°-20°	698.5	2.9
20°-30°	1212.3	5.0
30°-40°	2227.8	9.1
40°-50°	4193.8	17.1
50°-60°	7173.2	29.3
60°-70°	6868.3	28.1
70°-80°	1751.4	7.2
80°-90°	89.6	0.4
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°	24471.4	100.0
0°-180°	24471.4	100.0

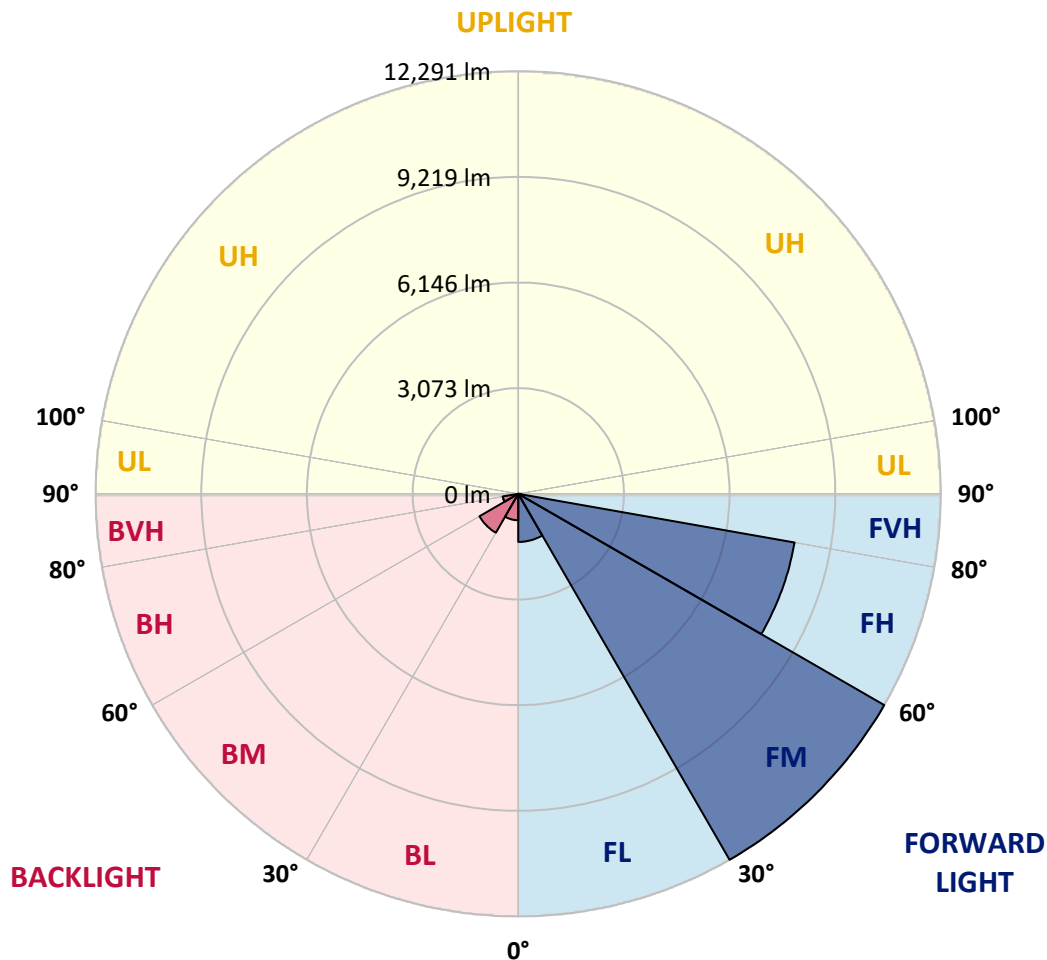


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.9	5.7			
FM (30°-60°)	12291.5	50.2			
FH (60°-80°)	8161.1	33.3			G4/12000
FVH (80°-90°)	86.1	0.4			G1/100
BL (0°-30°)	768.4	3.1	B2/1000		
BM (30°-60°)	1303.3	5.3	B2/2500		
BH (60°-80°)	458.7	1.9	B1/500		G1/500
BVH (80°-90°)	3.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2671.5	2680.7	2689.9	2693.6	2706.5	2719.4	2728.6	2726.8	2741.5	2748.9	2748.9
5°	2564.6	2564.6	2588.6	2610.7	2647.6	2684.4	2719.4	2726.8	2754.4	2780.2	2789.4
7.5°	2474.4	2479.9	2498.3	2538.8	2588.6	2653.1	2723.1	2739.6	2787.6	2844.7	2868.7
10°	2432.0	2435.7	2459.6	2502.0	2564.6	2653.1	2750.7	2782.0	2855.8	2946.0	2979.2
12.5°	2422.8	2428.3	2452.3	2500.1	2572.0	2678.8	2811.5	2844.7	2951.6	3067.6	3117.3
15°	2439.3	2443.0	2467.0	2518.5	2597.8	2724.9	2892.6	2938.6	3065.8	3200.3	3264.8
17.5°	2498.3	2494.7	2511.2	2553.6	2642.0	2782.0	2990.3	3045.5	3194.7	3379.0	3421.4
20°	2748.9	2724.9	2710.2	2673.4	2708.4	2863.1	3108.2	3189.2	3373.4	3561.4	3590.9
22.5°	3288.7	3235.2	3130.3	2986.6	2876.0	2973.7	3250.0	3344.0	3581.7	3765.9	3765.9
25°	3975.9	3907.8	3802.7	3489.6	3218.7	3156.0	3410.3	3528.2	3808.3	3994.3	3933.5
27.5°	4836.3	4782.9	4578.4	4213.6	3799.0	3474.8	3596.4	3705.1	4009.1	4233.8	4106.8
30°	5536.5	5510.7	5343.0	5016.9	4560.0	4086.5	3942.8	4014.6	4276.2	4536.0	4405.2
32.5°	6127.9	6127.9	5956.6	5652.5	5225.0	4805.1	4530.5	4582.1	4832.6	5133.0	4889.7
35°	6778.2	6756.2	6617.9	6328.7	5849.7	5479.4	5366.9	5437.0	5663.5	5886.5	5287.7
37.5°	7461.8	7454.4	7310.7	7030.7	6640.0	6173.9	5910.5	5928.9	6044.9	6181.3	5753.9
40°	8204.3	8215.3	8027.4	7854.2	7485.7	7008.6	6503.7	6387.6	6496.4	6881.4	6614.3
42.5°	9081.3	9055.5	8974.4	8738.6	8442.0	8156.4	7550.2	7507.9	7603.6	8016.3	7727.1
45°	10100.1	10137.0	9997.0	9866.1	9667.1	9429.5	8922.8	8849.1	8954.1	9595.3	9184.4
47.5°	11120.8	11085.8	11176.0	11152.2	11259.0	11082.1	10634.4	10483.3	10735.8	11343.7	10739.4
50°	11898.3	11937.0	12124.9	12399.5	12858.2	12957.7	12528.4	12476.8	12589.2	12979.8	12130.4
52.5°	12403.2	12532.1	12826.8	13532.5	14359.7	15002.8	14676.7	14649.0	14603.0	14708.0	13460.7
55°	12732.9	12863.8	13248.8	14287.9	15712.1	16756.8	16773.3	16655.4	16351.4	16275.9	14704.3
57.5°	12530.2	12556.0	13105.1	14494.3	16462.0	18007.7	18549.4	18431.5	17869.6	17584.0	15802.4
60°	11262.7	11316.1	12080.7	13713.1	16135.8	18416.8	19726.7	19673.3	19057.9	18735.5	16657.3
62.5°	9016.8	9171.5	9958.3	11778.5	14619.5	17727.7	20203.9	20355.0	19875.9	19432.0	16926.2
63°	8604.1	8554.3	9385.2	11214.7	14217.9	17386.8	20211.2	20402.9	19912.8	19498.2	16852.5
65°	6369.2	6518.4	7058.3	8843.6	11831.9	15800.5	19756.2	20095.2	19776.5	19205.3	16036.4
67.5°	3576.1	3568.8	4165.7	5787.0	8281.7	12393.9	17864.0	18580.7	18514.4	17233.9	13293.0
70°	1750.3	1778.0	2022.9	2999.4	4803.2	8550.6	14844.3	15618.1	15642.1	13536.2	9191.8
72.5°	792.2	805.2	980.2	1461.1	2468.8	4552.6	10229.1	10967.9	10831.6	8626.2	5075.9
75°	418.2	445.9	539.8	735.1	1190.2	1877.4	5564.1	6278.9	5993.4	3940.9	1868.2
77.5°	309.5	318.7	366.7	467.9	637.5	731.4	2400.6	2855.8	2675.2	1426.0	619.1
80°	226.6	234.0	272.7	331.6	401.7	372.1	904.7	1037.3	930.4	484.6	189.7
82.5°	138.2	140.0	199.0	246.9	252.4	208.2	298.5	320.6	335.3	272.7	103.2
85°	49.8	62.7	134.5	178.7	149.3	105.0	125.3	138.2	151.0	173.2	60.8
87.5°	5.6	7.4	64.5	86.6	42.4	38.7	46.1	51.6	55.3	64.5	29.5
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°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2756.3	2763.6	2758.1	2748.9	2747.0	2741.5	2730.5	2730.5	2730.5	2734.2	2730.5
5°	2796.7	2802.3	2789.4	2771.0	2750.7	2724.9	2697.3	2680.7	2678.8	2675.2	2666.0
7.5°	2874.2	2881.5	2852.1	2807.8	2752.6	2689.9	2631.0	2575.7	2549.9	2529.6	2529.6
10°	2986.6	2994.0	2935.0	2855.8	2745.2	2618.0	2478.0	2350.9	2251.4	2205.4	2194.3
12.5°	3121.0	3124.7	3027.1	2888.9	2706.5	2461.4	2163.0	1884.8	1691.3	1602.9	1593.7
15°	3268.5	3242.6	3113.7	2901.8	2596.0	2139.1	1623.1	1282.4	1081.5	1022.6	1044.7
17.5°	3417.7	3369.8	3180.0	2881.5	2347.2	1623.1	1090.7	875.1	812.5	795.9	795.9
20°	3557.7	3491.4	3227.9	2793.1	1916.1	1118.4	808.8	757.2	746.2	735.1	737.0
22.5°	3697.7	3596.4	3270.3	2596.0	1427.8	799.6	724.1	707.4	692.7	678.0	676.2
25°	3834.0	3694.0	3286.9	2231.2	972.8	687.2	661.4	639.3	609.8	593.2	589.5
27.5°	3975.9	3811.9	3275.8	1770.6	709.3	615.4	589.5	558.3	523.3	493.8	493.8
30°	4248.6	4036.7	3237.1	1273.1	596.9	541.7	508.5	458.8	420.1	390.6	388.7
32.5°	4620.8	4329.6	3104.5	895.4	530.6	477.2	427.5	372.1	331.6	309.5	309.5
35°	4952.4	4624.5	2855.8	659.6	477.2	414.5	353.7	300.3	269.0	254.2	248.8
37.5°	5457.2	5055.6	2513.1	536.1	425.6	359.3	296.6	246.9	221.1	210.0	210.0
40°	6214.5	5582.5	2093.0	469.8	375.8	305.9	246.9	208.2	188.0	175.0	175.0
42.5°	7154.1	6227.4	1667.4	421.9	329.8	263.5	206.4	176.9	158.4	149.3	147.4
45°	8336.9	6907.2	1284.1	377.7	292.9	224.8	175.0	149.3	130.8	125.3	127.2
47.5°	9571.3	7506.0	994.9	339.0	254.2	189.7	149.3	129.0	116.1	108.7	108.7
50°	10625.2	7918.7	755.4	294.8	224.8	160.3	130.8	116.1	105.0	101.3	99.5
52.5°	11505.9	8038.4	578.5	256.1	197.1	138.2	116.1	105.0	95.8	90.2	90.2
55°	12255.7	7933.4	453.2	215.5	165.8	119.8	103.2	93.9	82.9	77.4	75.5
57.5°	12694.2	7596.2	346.4	178.7	134.5	99.5	90.2	79.2	66.4	57.1	57.1
60°	12915.3	7106.2	265.3	147.4	103.2	79.2	73.7	59.0	46.1	38.7	36.8
62.5°	12650.0	6455.9	200.8	116.1	77.4	59.0	49.8	42.4	29.5	22.1	22.1
63°	12486.1	6267.9	193.4	110.5	71.8	55.3	46.1	38.7	25.8	20.3	18.4
65°	11382.4	5448.0	158.4	88.5	57.1	38.7	31.3	27.7	18.4	9.3	7.4
67.5°	9038.9	4167.6	125.3	66.4	40.5	27.7	18.4	16.6	5.6	0.0	0.0
70°	6111.3	2691.8	97.6	47.9	27.7	16.6	9.3	7.4	1.9	0.0	0.0
72.5°	3187.4	1380.0	75.5	35.0	16.6	11.0	5.6	1.9	0.0	0.0	0.0
75°	1127.5	469.8	55.3	22.1	11.0	5.6	1.9	0.0	0.0	0.0	0.0
77.5°	340.9	175.0	35.0	16.6	7.4	3.7	0.0	0.0	0.0	0.0	0.0
80°	119.8	64.5	20.3	11.0	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	59.0	31.3	12.9	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
85°	33.1	20.3	11.0	9.3	5.6	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	24.0	14.7	11.0	9.3	7.4	3.7	1.9	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)