

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: P652416

Luminaire Tested: **GALN-SA5B-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18762.7 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

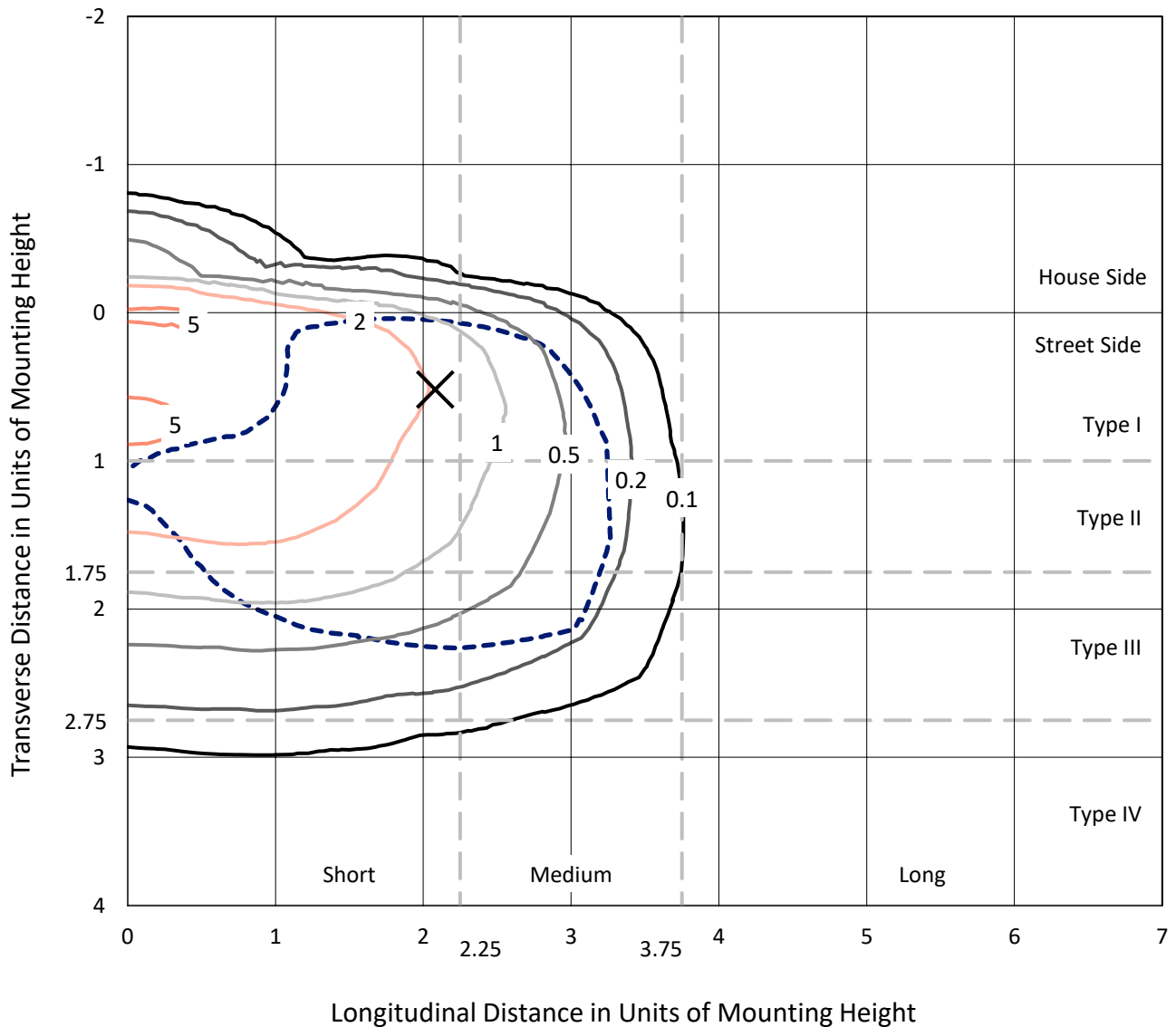
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

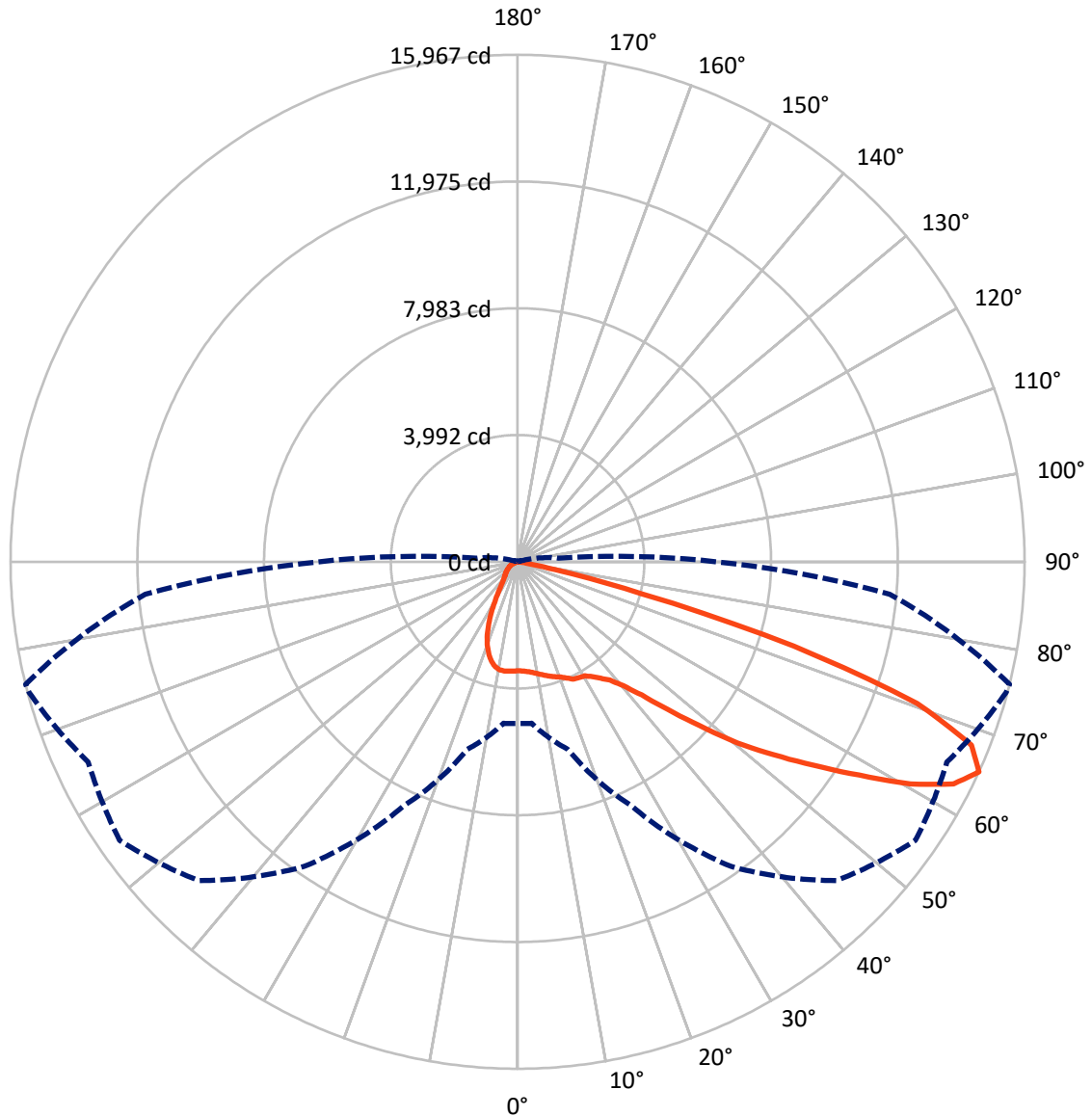
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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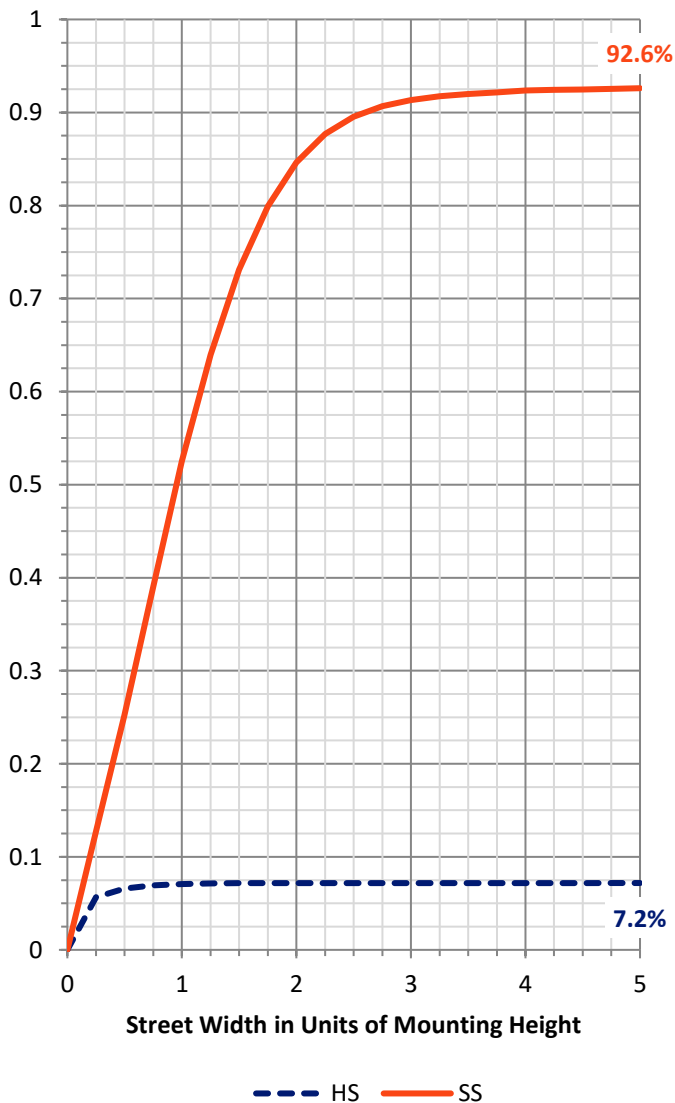
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1355.0	0.0	1355.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17407.7	0.0	17407.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18762.7	0.0	18762.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	1.5
10°-20°	629.5	3.4
20°-30°	1014.5	5.4
30°-40°	1763.9	9.4
40°-50°	2914.7	15.5
50°-60°	4502.6	24.0
60°-70°	5498.4	29.3
70°-80°	2086.8	11.1
80°-90°	69.6	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°	18762.7	100.0
0°-180°	18762.7	100.0

**Coefficient of Utilization**



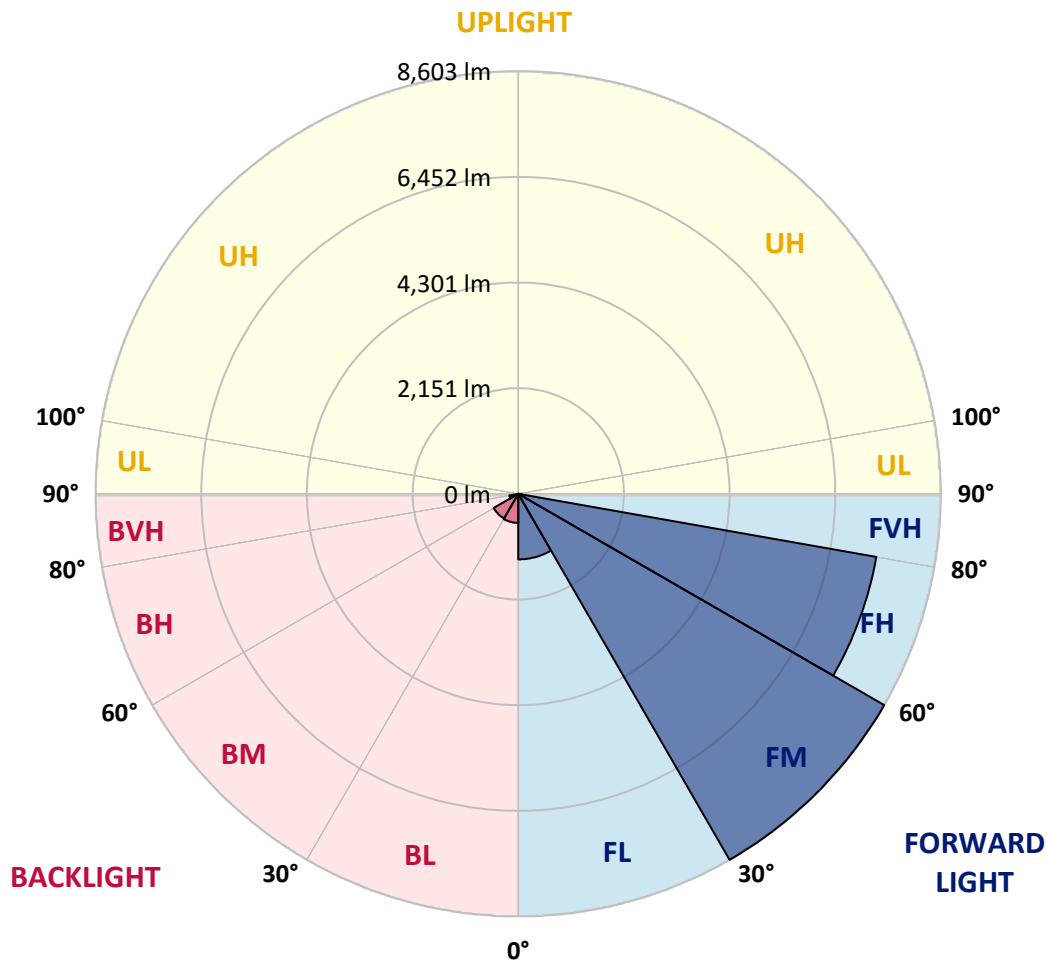
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.7	7.1			
FM (30°-60°)	8603.0	45.9			
FH (60°-80°)	7401.3	39.4			G3/7500
FVH (80°-90°)	68.7	0.4			G1/100
BL (0°-30°)	592.0	3.2	B2/1000		
BM (30°-60°)	578.2	3.1	B1/1000		
BH (60°-80°)	183.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3
2.5°	3280.0	3281.2	3289.2	3309.1	3339.6	3364.8	3386.0	3420.3	3444.2	3446.8	3454.8
5°	3053.4	3037.5	3053.4	3105.1	3151.5	3221.7	3307.7	3393.9	3470.7	3476.0	3513.1
7.5°	2799.1	2812.3	2837.5	2890.5	2977.9	3085.2	3209.8	3363.4	3509.2	3522.4	3595.3
10°	2540.7	2569.9	2611.0	2691.8	2813.6	2952.8	3122.3	3342.2	3570.0	3588.6	3714.4
12.5°	2302.3	2315.6	2365.9	2474.6	2625.5	2821.6	3056.1	3330.3	3637.7	3660.1	3841.6
15°	2119.5	2136.7	2180.5	2278.5	2446.7	2698.4	3001.8	3326.3	3703.8	3735.6	3968.8
17.5°	2085.1	2095.7	2114.2	2180.5	2327.5	2600.4	2952.8	3325.0	3767.4	3805.9	4086.7
20°	2226.8	2217.5	2199.0	2192.4	2273.2	2524.9	2917.0	3335.6	3828.4	3872.1	4211.2
22.5°	2581.9	2593.7	2485.2	2356.7	2330.2	2513.0	2911.7	3386.0	3925.1	3976.8	4350.3
25°	3335.6	3244.2	3074.6	2767.3	2535.4	2585.8	2971.3	3505.1	4037.7	4094.7	4476.1
27.5°	4168.8	4141.0	3877.4	3371.4	2939.5	2739.5	3077.3	3596.5	4074.8	4133.1	4547.7
30°	4987.5	5020.6	4718.6	4159.6	3526.3	3024.3	3176.6	3631.0	4107.9	4168.8	4639.1
32.5°	5746.6	5786.3	5521.3	4967.6	4217.9	3517.1	3347.5	3764.8	4247.0	4309.3	4791.4
35°	6344.0	6349.3	6149.2	5708.1	4972.9	4115.9	3717.1	3999.3	4435.1	4507.9	4953.1
37.5°	6892.4	6884.4	6650.0	6269.8	5602.2	4710.6	4182.0	4269.5	4649.7	4725.2	5186.2
40°	7299.1	7304.4	7228.9	6871.2	6189.0	5260.4	4550.3	4522.6	5010.0	5127.9	5525.3
42.5°	7570.7	7619.7	7656.8	7475.3	6926.9	5937.3	5116.0	5064.3	5635.3	5733.3	6004.9
45°	7790.6	7878.0	8063.4	8054.2	7635.6	6767.9	5892.3	5786.3	6521.5	6626.2	6615.6
47.5°	7950.8	8039.6	8346.9	8532.4	8301.9	7573.3	6868.5	6777.2	7579.9	7693.9	7289.8
50°	8033.0	8138.9	8531.1	8890.0	8822.5	8349.6	7981.3	7986.6	8858.3	8968.3	8071.4
52.5°	7840.9	7978.7	8629.1	9275.6	9406.7	9092.7	9023.8	9198.7	9996.2	10090.2	8777.4
55°	7227.6	7401.1	8495.3	9604.1	10083.6	9969.7	10208.1	10474.4	11240.0	11301.0	9502.0
57.5°	6839.4	7023.5	8100.5	9883.6	10897.0	11071.8	11449.4	11644.1	12523.8	12678.7	10334.0
60°	6512.2	6656.6	7776.0	9943.2	11723.6	12420.4	12787.3	12988.7	14108.0	14208.7	11249.4
62.5°	5967.7	6133.3	7227.6	9527.3	12139.6	13500.0	14260.4	14170.3	15333.4	15403.6	11811.0
65°	5092.2	5106.7	6114.8	8482.1	11710.3	14200.8	15295.0	14917.5	15919.0	15966.6	11767.3
67.5°	3800.6	3941.0	4704.0	6667.2	9891.5	13602.0	15630.2	14937.3	15549.3	15416.9	10833.4
70°	2448.1	2555.4	3188.6	4623.2	7132.2	11351.4	14518.7	13913.3	13647.1	13353.0	8867.5
72.5°	1130.0	1267.7	1894.4	2641.4	4229.8	8086.0	11785.9	11303.6	9822.6	9096.7	5636.6
75°	492.8	527.2	935.3	1393.6	1983.1	4276.1	7770.7	7017.0	4436.4	4052.3	2256.0
77.5°	300.7	323.2	490.1	747.1	778.9	1629.4	4186.1	3061.4	1371.1	1209.4	612.0
80°	204.0	229.2	356.3	390.8	266.3	454.4	1571.1	817.4	276.9	264.9	131.1
82.5°	99.3	125.8	263.7	218.6	115.2	145.7	457.0	174.8	80.8	75.5	46.3
85°	14.5	25.1	148.4	143.1	51.6	34.5	80.8	43.7	27.8	26.5	21.2
87.5°	0.0	0.0	50.4	22.5	5.3	5.3	9.3	9.3	10.6	9.3	10.6
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°	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3	3432.3
2.5°	3458.8	3465.4	3440.3	3404.5	3366.1	3327.7	3273.3	3224.3	3195.2	3212.4	3170.0
5°	3521.0	3515.7	3449.5	3340.9	3196.5	3023.0	2850.7	2703.7	2656.0	2584.5	2576.6
7.5°	3607.1	3592.6	3452.1	3203.1	2877.2	2551.3	2233.4	2022.9	1902.3	1800.2	1802.9
10°	3727.7	3685.3	3421.7	2960.7	2424.2	1932.7	1527.3	1249.2	1128.6	1090.2	1059.7
12.5°	3852.2	3770.1	3336.9	2633.5	1887.7	1320.7	928.6	759.1	684.9	661.0	658.3
15°	3963.5	3833.7	3188.6	2240.1	1372.4	843.9	633.2	577.6	568.3	569.6	568.3
17.5°	4073.5	3884.0	2983.2	1822.8	932.6	605.4	544.5	531.2	535.2	540.5	539.2
20°	4164.9	3894.6	2721.0	1390.9	659.7	531.2	511.3	508.7	512.7	516.6	516.6
22.5°	4264.2	3902.6	2409.6	963.0	539.2	494.1	483.5	483.5	488.8	494.1	495.4
25°	4338.4	3858.8	2037.4	691.5	475.6	458.3	453.0	454.4	459.7	462.3	461.0
27.5°	4350.3	3735.6	1642.6	529.9	431.9	414.6	409.3	414.6	408.0	412.0	409.3
30°	4360.9	3579.4	1242.6	446.4	392.1	365.6	357.7	349.7	344.4	337.8	336.5
32.5°	4394.1	3395.2	907.4	401.4	355.0	325.9	307.3	284.8	267.6	262.3	261.0
35°	4408.6	3174.0	666.3	365.6	321.9	290.1	257.0	225.2	200.0	190.7	197.4
37.5°	4464.3	2959.4	516.6	339.1	292.8	253.1	210.6	170.9	147.0	141.7	144.4
40°	4578.2	2726.3	433.2	316.6	267.6	218.6	166.9	128.5	112.6	107.3	106.0
42.5°	4761.0	2494.4	385.5	295.4	242.5	184.1	131.1	100.7	87.5	83.4	83.4
45°	4983.5	2271.9	352.4	272.9	215.9	148.4	103.4	80.8	72.8	70.2	70.2
47.5°	5276.3	2077.1	324.5	250.4	186.8	117.9	83.4	70.2	64.9	66.3	67.5
50°	5573.1	1932.7	294.1	225.2	153.7	96.7	71.6	62.2	61.0	62.2	62.2
52.5°	5796.9	1847.9	253.1	190.7	120.5	80.8	63.6	58.3	56.9	54.3	54.3
55°	6098.9	1829.4	201.3	155.0	95.4	67.5	56.9	53.0	49.0	46.3	45.1
57.5°	6487.1	1850.6	155.0	120.5	74.2	55.7	50.4	43.7	38.4	33.1	33.1
60°	6728.2	1802.9	120.5	92.8	54.3	45.1	38.4	31.8	25.1	21.2	19.8
62.5°	6651.3	1601.6	95.4	68.9	38.4	33.1	25.1	21.2	14.5	10.6	9.3
65°	6255.3	1292.9	76.9	47.7	27.8	19.8	13.3	13.3	6.6	1.3	0.0
67.5°	5475.0	957.7	61.0	31.8	15.9	9.3	6.6	4.0	0.0	0.0	0.0
70°	4456.3	691.5	47.7	19.8	9.3	6.6	2.7	1.3	0.0	0.0	0.0
72.5°	2829.5	396.1	37.1	11.9	6.6	2.7	0.0	0.0	0.0	0.0	0.0
75°	1094.2	155.0	25.1	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	310.0	72.8	14.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.8	31.8	8.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.4	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.5	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	1.3	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)