

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: P652089

Luminaire Tested: **GALN-SA8A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22363 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

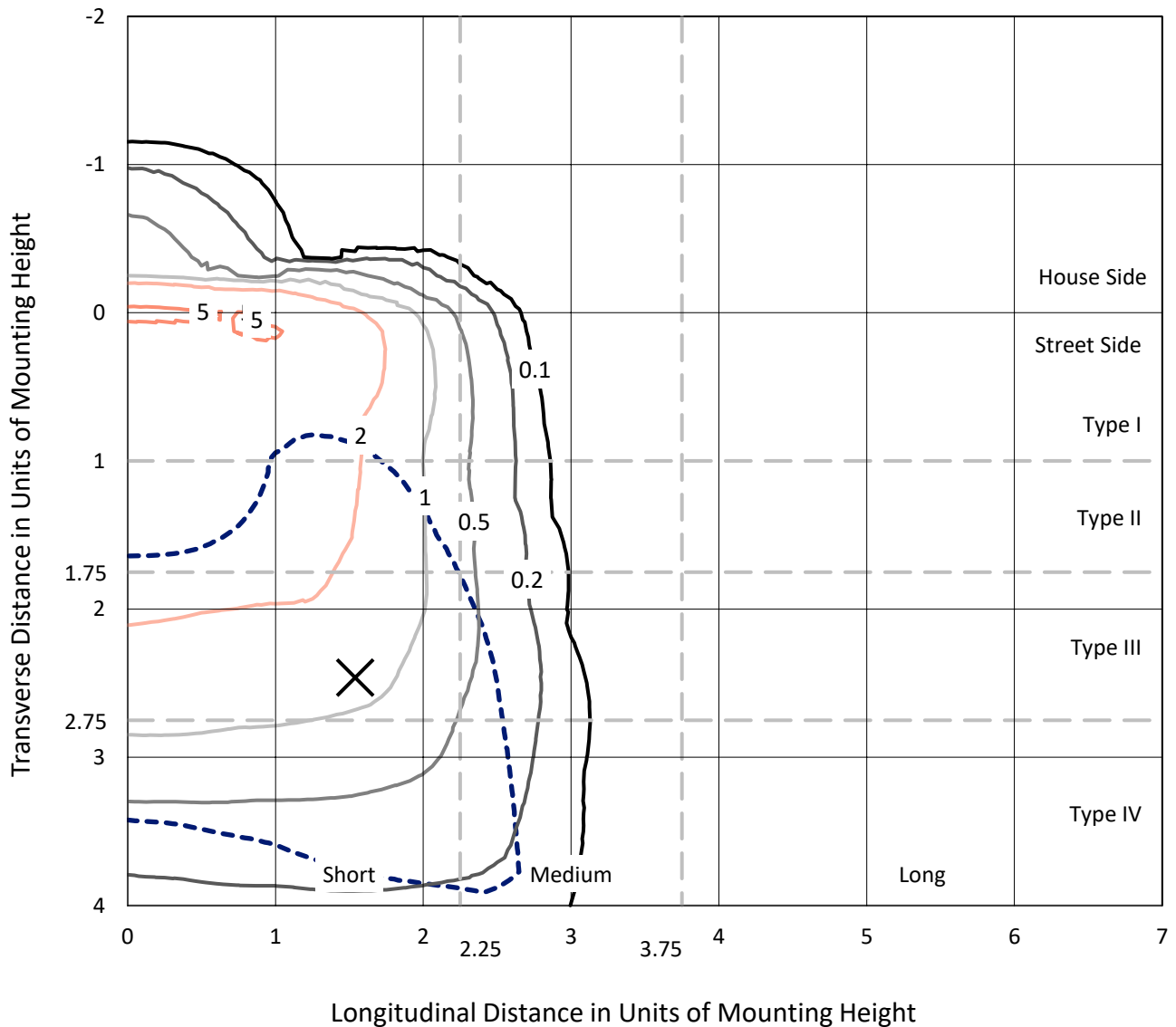
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

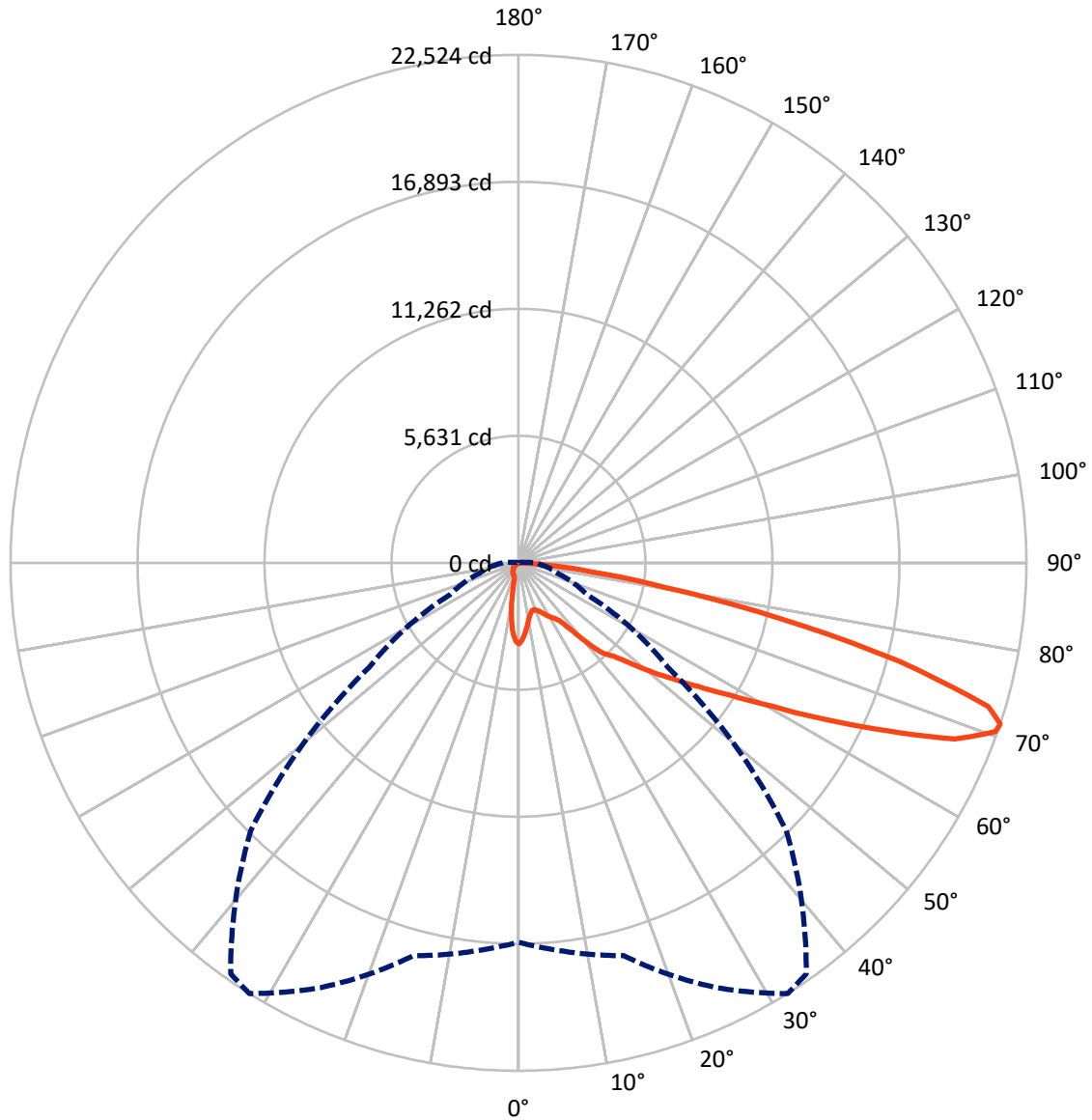
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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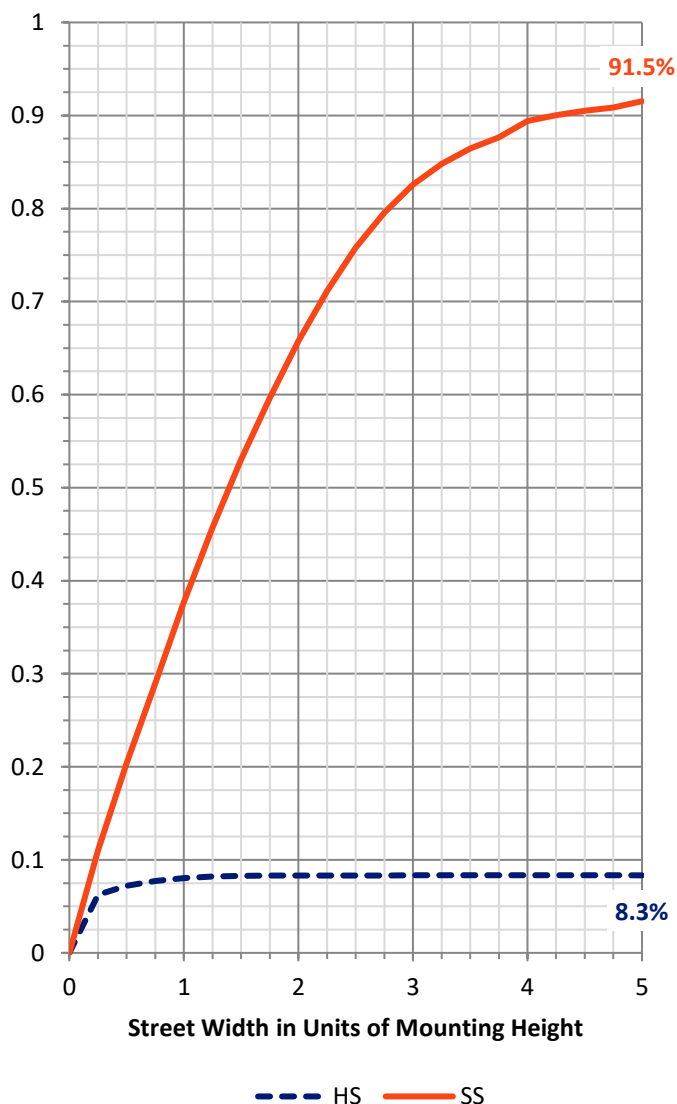
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.1	0.0	1873.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20489.9	0.0	20489.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	22363.0	0.0	22363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.3
10°-20°	634.7	2.8
20°-30°	987.3	4.4
30°-40°	1644.9	7.4
40°-50°	3059.8	13.7
50°-60°	4912.6	22.0
60°-70°	6607.7	29.5
70°-80°	3920.5	17.5
80°-90°	303.0	1.4
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°	22363.0	100.0
0°-180°	22363.0	100.0

Coefficient of Utilization

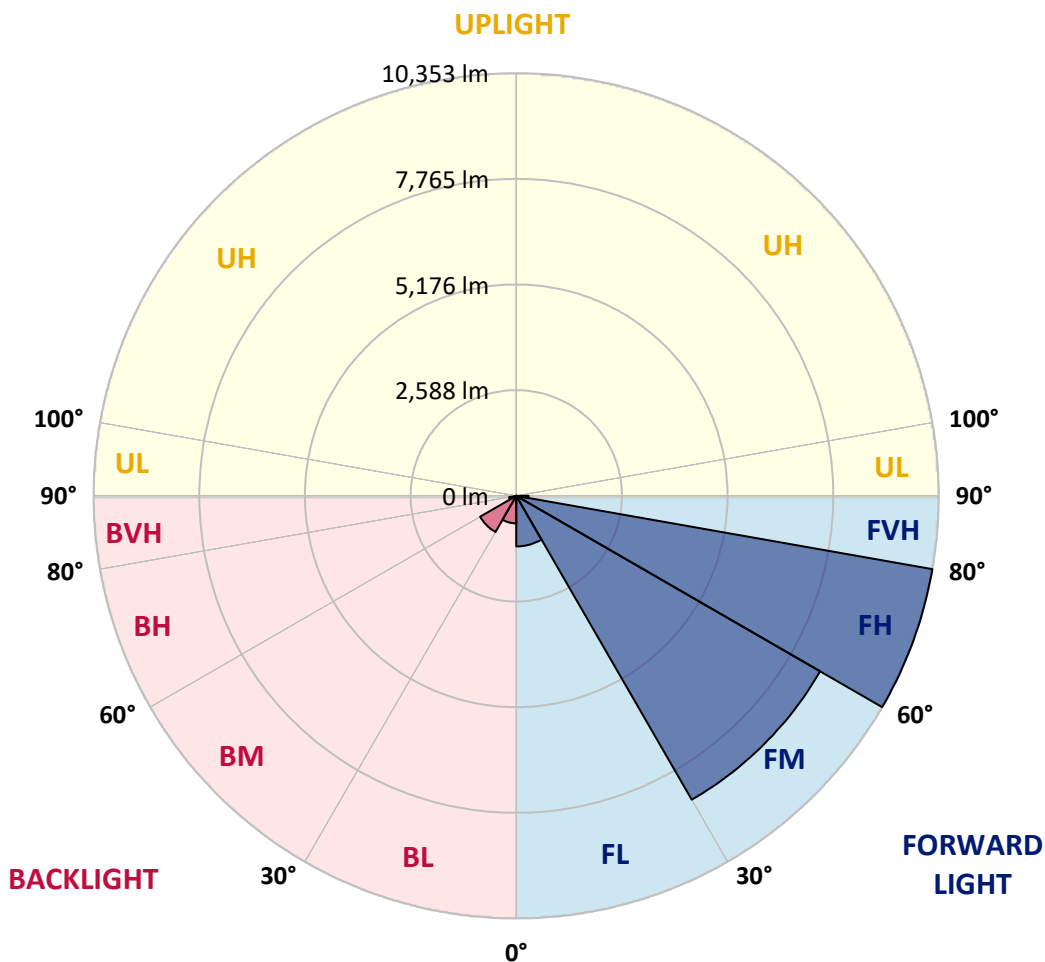


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.5	5.5			
FM (30°-60°)	8595.5	38.4			
FH (60°-80°)	10353.0	46.3			G4/12000
FVH (80°-90°)	301.9	1.3			G3/500
BL (0°-30°)	674.9	3.0	B2/1000		
BM (30°-60°)	1021.8	4.6	B2/2500		
BH (60°-80°)	175.2	0.8	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3
2.5°	3335.4	3369.7	3364.6	3376.6	3405.8	3417.8	3450.4	3486.4	3536.2	3570.5	3592.9
5°	2986.9	3012.7	3016.1	3076.2	3105.4	3138.0	3234.1	3338.9	3455.6	3548.3	3610.1
7.5°	2614.4	2628.1	2655.6	2734.6	2808.4	2841.0	2986.9	3168.9	3352.6	3526.0	3637.5
10°	2307.1	2322.6	2372.4	2456.5	2525.2	2568.1	2770.6	2998.9	3256.4	3514.0	3677.0
12.5°	2132.0	2140.6	2159.5	2235.0	2322.6	2368.9	2586.9	2847.9	3179.1	3519.1	3744.0
15°	2120.0	2116.6	2094.3	2125.2	2204.2	2252.2	2465.1	2744.9	3110.5	3536.2	3822.9
17.5°	2183.6	2175.0	2121.8	2121.8	2186.9	2226.5	2413.6	2689.9	3076.2	3575.8	3934.5
20°	2281.4	2267.7	2180.1	2173.2	2236.7	2277.9	2444.5	2693.4	3083.0	3649.5	4083.8
22.5°	2405.0	2389.5	2257.3	2260.8	2329.5	2370.7	2533.8	2755.2	3126.0	3740.5	4243.5
25°	2566.3	2549.2	2393.0	2386.1	2458.2	2494.2	2665.9	2865.0	3186.0	3853.8	4452.9
27.5°	2780.9	2744.9	2557.7	2547.5	2624.7	2671.1	2825.6	3012.7	3292.5	4010.1	4734.4
30°	2957.7	2918.3	2739.7	2712.2	2794.6	2830.7	2990.3	3211.8	3501.9	4283.0	5124.1
32.5°	3189.5	3131.1	2921.7	2849.6	2937.1	2983.5	3228.9	3582.6	3812.6	4571.3	5587.6
35°	3711.3	3675.3	3419.5	3167.2	3162.0	3220.4	3580.9	3956.8	4131.9	5021.1	6219.4
37.5°	4458.1	4432.3	4161.1	3822.9	3725.0	3697.6	4008.3	4368.8	4641.7	5639.1	6954.1
40°	5325.0	5264.9	5016.0	4729.3	4602.3	4521.6	4513.0	4981.7	5307.8	6478.6	7719.6
42.5°	5946.4	5836.5	5534.4	5513.8	5486.3	5402.2	5158.4	5877.7	6167.8	7381.5	8538.5
45°	6598.7	6432.2	5982.5	5905.2	5894.9	5889.7	6133.5	6938.6	7105.1	8360.0	9379.6
47.5°	7105.1	6972.9	6603.9	6569.6	6612.4	6729.2	7422.7	8064.7	8030.4	9232.0	10085.2
50°	7779.8	7680.2	7269.9	7335.1	7556.6	7747.1	8876.7	9292.0	8790.8	9918.7	10598.5
52.5°	8576.3	8392.6	8011.5	8188.3	8528.2	8845.7	10419.9	10366.7	9324.7	10435.4	10981.3
55°	9266.3	9135.9	9005.4	9189.1	9697.2	10093.8	11813.8	11171.8	9712.6	10850.8	11149.5
57.5°	10433.6	10402.7	10268.9	10456.0	11072.2	11484.2	13061.8	11796.6	9961.6	11067.1	10952.1
60°	12160.5	12110.7	11861.9	12100.5	12903.9	13551.0	14211.9	12358.0	10018.2	10983.0	10383.8
62.5°	14237.7	14067.7	13854.9	14206.8	15308.8	15593.8	15295.1	12691.0	9807.1	10313.4	9014.0
65°	16177.5	16002.4	16007.5	16749.1	17949.0	18143.0	16558.5	12641.2	9189.1	8636.3	6648.4
67.5°	17662.3	17633.2	17842.6	19289.7	20858.7	20724.8	17688.1	11896.2	7357.4	5597.9	3532.8
70°	17737.9	17794.6	18395.4	20838.0	22431.1	22218.2	17592.0	9669.7	4586.8	2575.0	1392.2
71°	16824.6	17205.7	18036.6	20790.0	22523.8	22247.4	16781.7	8099.0	3364.6	1795.6	1004.2
72.5°	14337.2	14538.1	16333.6	19566.0	21790.8	21200.3	14726.9	5676.8	2154.4	1098.6	576.8
75°	7896.5	8390.8	10938.3	15350.0	17428.9	16910.5	9597.7	2696.8	1074.6	600.8	238.6
77.5°	3759.4	3663.3	5337.0	9129.0	11817.2	11789.7	4835.8	1198.2	626.5	406.9	120.2
80°	1074.6	1208.5	2042.8	4339.6	6560.9	6633.1	1857.3	578.5	434.3	317.6	61.8
82.5°	324.5	331.3	750.2	1919.2	3263.3	3076.2	696.9	295.3	312.4	252.4	36.1
85°	56.7	70.4	221.4	676.3	1244.5	944.1	175.1	140.8	206.0	166.5	20.6
87.5°	3.4	5.1	73.8	77.3	109.8	63.5	30.9	20.6	44.7	44.7	12.0
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°	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3	3596.3
2.5°	3608.3	3618.7	3611.8	3596.3	3570.5	3539.7	3498.5	3464.2	3435.0	3419.5	3438.4
5°	3630.7	3644.4	3610.1	3532.8	3416.1	3289.1	3144.8	3033.2	2945.7	2918.3	2907.9
7.5°	3665.0	3673.6	3580.9	3409.2	3162.0	2861.6	2598.9	2377.5	2205.9	2154.4	2078.9
10°	3709.7	3704.4	3529.3	3210.1	2775.8	2324.3	1917.5	1615.3	1387.1	1304.6	1297.7
12.5°	3778.3	3750.9	3464.2	2938.9	2315.7	1725.2	1222.2	956.1	812.0	763.9	753.6
15°	3864.1	3798.9	3361.1	2621.3	1773.2	1114.1	753.6	672.9	654.0	650.6	647.1
17.5°	3965.4	3862.4	3225.6	2231.6	1246.3	722.7	630.0	628.3	630.0	626.5	624.9
20°	4102.7	3929.3	3064.2	1769.8	824.0	609.4	600.8	600.8	602.6	600.8	600.8
22.5°	4248.6	4008.3	2865.0	1351.0	621.4	578.5	576.8	580.2	583.7	582.0	582.0
25°	4428.9	4111.3	2602.4	925.3	556.2	552.8	554.5	561.4	568.2	569.9	568.2
27.5°	4689.8	4238.3	2320.9	636.9	509.8	513.3	530.4	547.6	557.9	559.6	559.6
30°	4983.3	4379.1	1953.5	516.7	472.1	472.1	492.7	525.3	547.6	551.0	552.8
32.5°	5361.0	4542.2	1546.7	465.2	436.1	432.6	451.4	491.0	532.2	544.2	544.2
35°	5828.0	4734.4	1150.2	432.6	410.2	401.7	412.0	444.6	497.8	532.2	535.5
37.5°	6375.5	4916.4	841.2	403.4	386.3	374.2	381.1	406.9	449.8	501.2	515.0
40°	6881.9	5077.8	628.3	379.4	362.2	353.6	358.8	370.8	406.9	454.9	463.5
42.5°	7434.7	5203.1	499.6	353.6	338.2	334.7	334.7	339.9	363.9	391.4	393.1
45°	7985.7	5247.8	418.8	322.7	312.4	315.9	314.1	310.7	321.0	317.6	317.6
47.5°	8378.8	5194.5	346.7	293.5	293.5	298.7	290.1	278.1	272.9	252.4	254.1
50°	8648.3	5000.5	284.9	259.2	272.9	279.8	262.6	243.7	224.9	202.6	197.4
52.5°	8759.9	4655.4	233.5	214.5	242.0	250.6	230.0	207.7	178.5	159.6	154.5
55°	8687.9	4229.7	194.0	175.1	204.3	214.5	194.0	168.2	135.7	115.0	111.6
57.5°	8370.2	3721.7	164.8	139.0	163.1	170.0	156.2	128.8	96.1	75.5	75.5
60°	7821.0	3196.4	133.9	109.8	121.9	132.2	118.4	92.7	65.3	46.3	42.9
62.5°	6706.8	2595.5	108.2	85.9	85.9	94.4	82.4	66.9	41.2	24.1	22.3
65°	4842.6	1780.1	85.9	63.5	61.8	61.8	51.5	44.7	24.1	10.3	6.9
67.5°	2631.6	1004.2	68.6	48.1	42.9	41.2	32.6	25.7	10.3	1.7	0.0
70°	1035.1	386.3	53.2	32.6	27.5	25.7	17.2	12.0	6.9	0.0	0.0
71°	702.1	266.1	46.3	27.5	22.3	18.9	13.7	10.3	5.1	0.0	0.0
72.5°	401.7	164.8	36.1	20.6	17.2	13.7	10.3	6.9	5.1	0.0	0.0
75°	175.1	84.1	22.3	15.5	12.0	8.6	6.9	5.1	1.7	0.0	0.0
77.5°	89.2	46.3	15.5	12.0	6.9	5.1	3.4	1.7	0.0	0.0	0.0
80°	49.8	24.1	10.3	6.9	5.1	3.4	1.7	1.7	0.0	0.0	0.0
82.5°	27.5	13.7	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.2	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	3.4	0.0	0.0	0.0	0.0	1.7	1.7	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)