

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: P530765

Luminaire Tested: **GALN-SA6A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14748 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

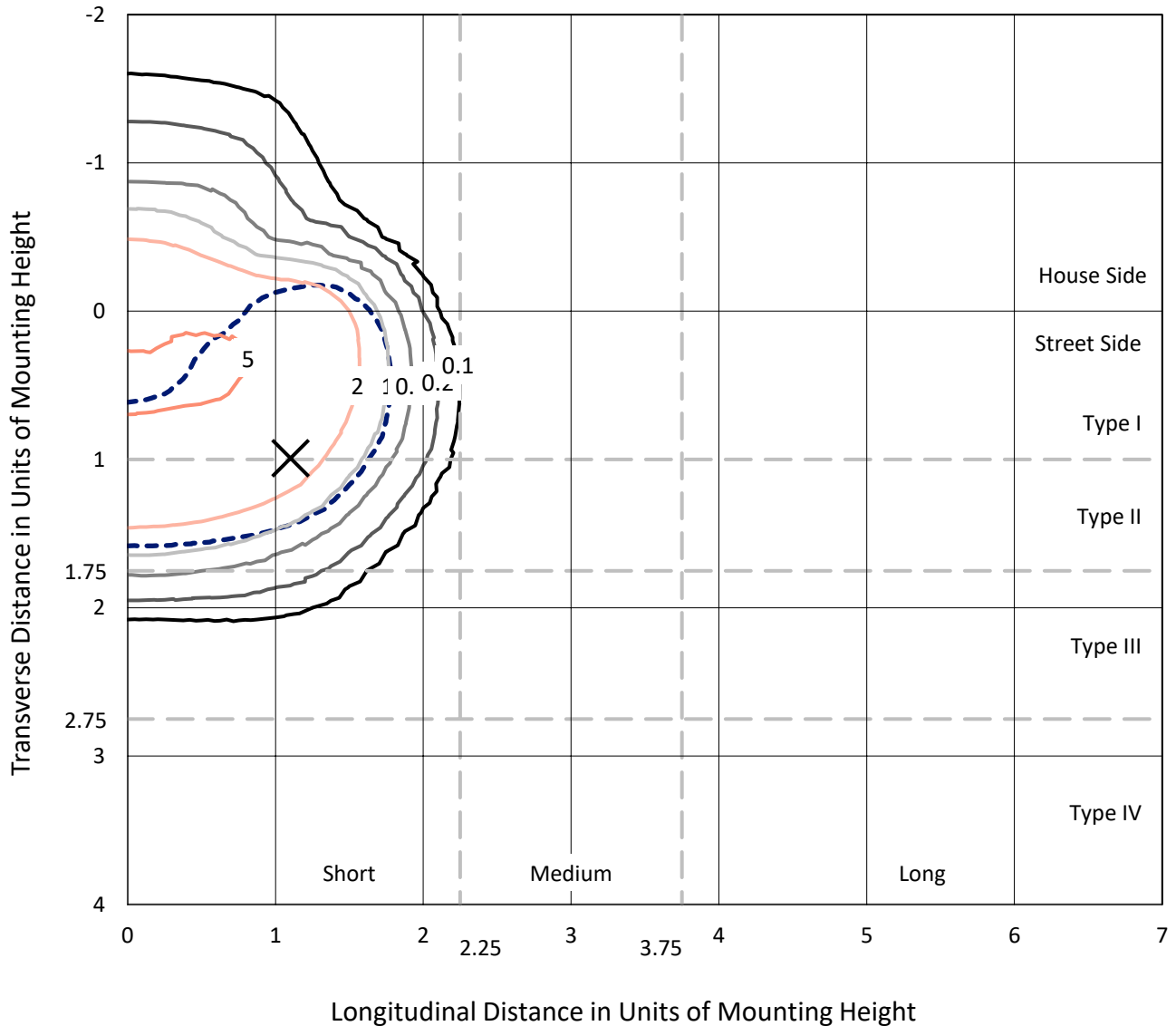
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

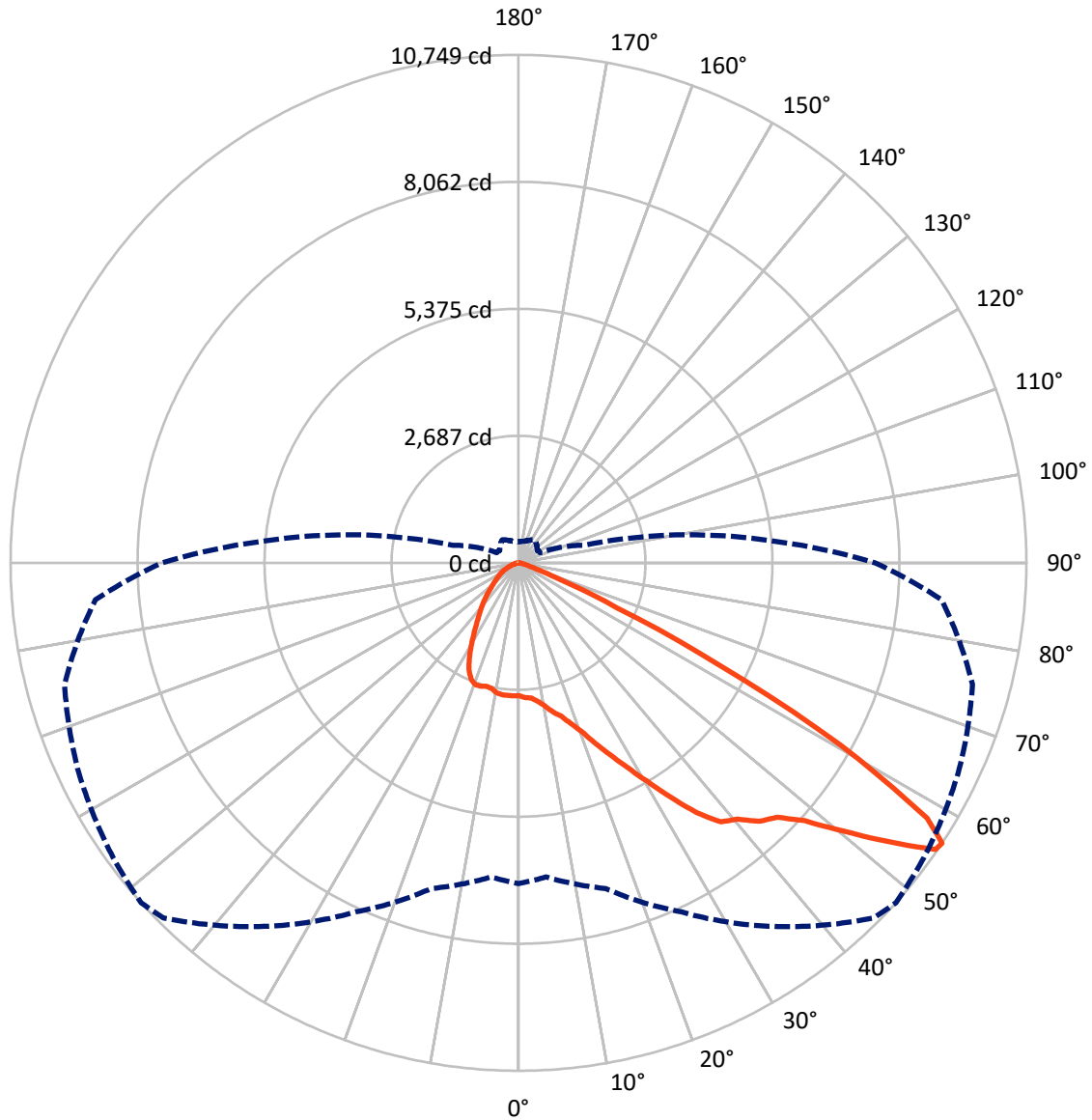
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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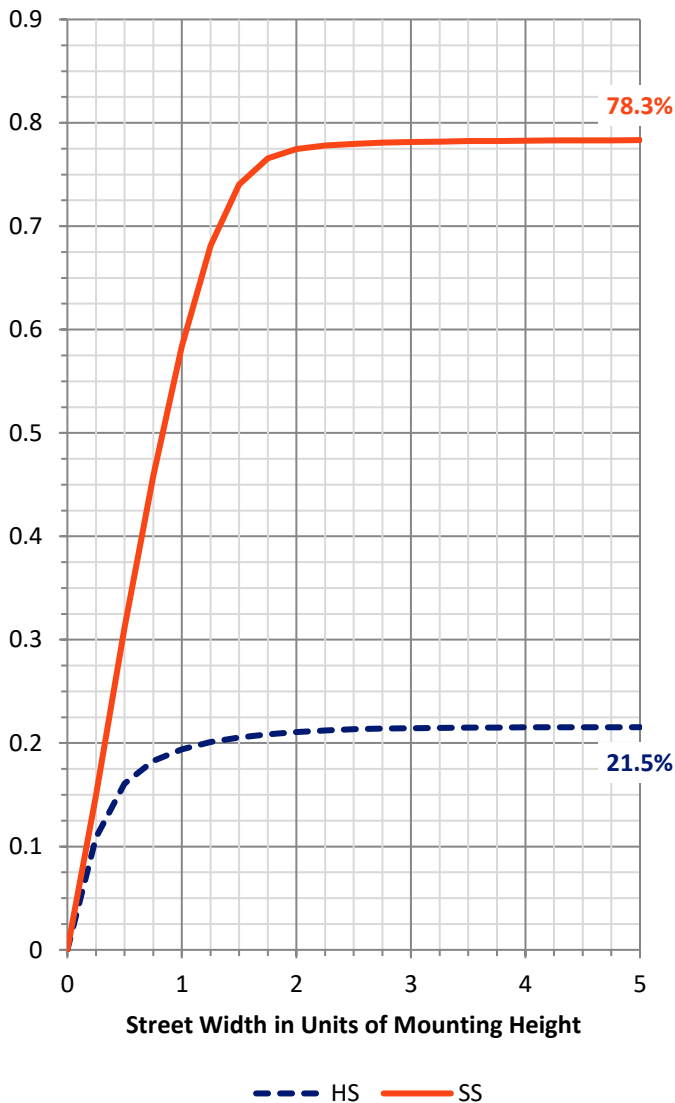
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.4	0.0	3207.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11540.6	0.0	11540.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	14748.0	0.0	14748.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.9
10°-20°	876.9	5.9
20°-30°	1590.6	10.8
30°-40°	2498.4	16.9
40°-50°	3644.8	24.7
50°-60°	4391.2	29.8
60°-70°	1285.7	8.7
70°-80°	163.1	1.1
80°-90°	22.9	0.2
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°	14748.0	100.0
0°-180°	14748.0	100.0

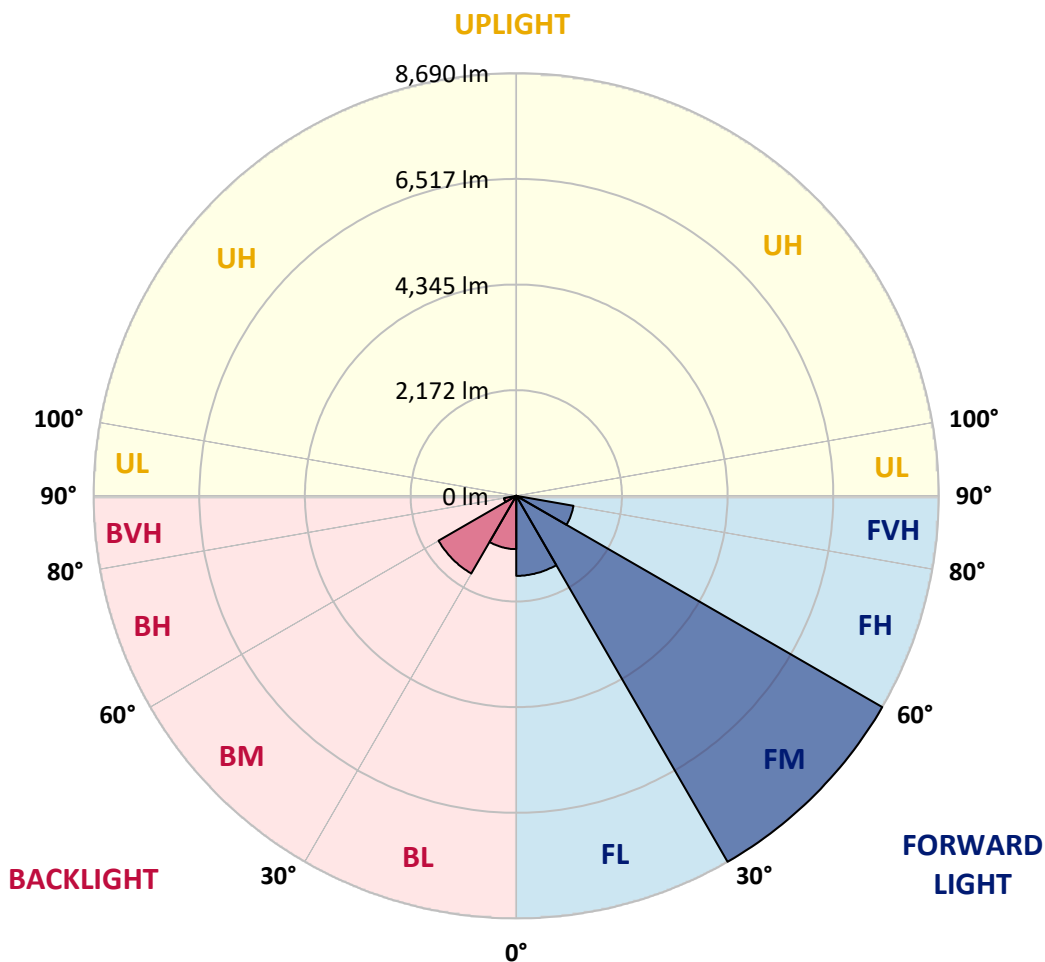


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.6	11.2			
FM (30°-60°)	8689.6	58.9			
FH (60°-80°)	1194.0	8.1			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1096.3	7.4	B3/2500		
BM (30°-60°)	1844.9	12.5	B2/2500		
BH (60°-80°)	254.9	1.7	B1/500		G1/500
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2867.9	2854.5	2854.5	2833.0	2857.2	2846.4	2854.5	2827.6	2854.5	2814.2	2846.4
5°	2881.3	2884.0	2873.3	2886.7	2886.7	2902.8	2876.0	2900.1	2913.5	2884.0	2870.6
7.5°	2951.1	2956.5	2953.8	2943.1	2964.6	2961.9	2959.2	2940.4	2945.8	2935.0	2918.9
10°	3088.1	3085.4	3098.8	3072.0	3055.9	3074.7	3080.0	3050.5	3029.0	3021.0	2969.9
12.5°	3286.8	3254.6	3235.8	3208.9	3217.0	3190.1	3238.5	3187.4	3176.7	3128.4	3077.3
15°	3447.9	3442.5	3445.2	3402.3	3353.9	3364.7	3364.7	3337.8	3321.7	3262.6	3190.1
17.5°	3778.2	3665.4	3689.6	3635.9	3595.6	3592.9	3568.8	3574.1	3531.2	3407.6	3297.5
20°	4036.0	3987.7	3950.1	3858.8	3797.0	3815.8	3805.1	3778.2	3764.8	3603.7	3447.9
22.5°	4266.9	4283.0	4221.3	4197.1	4111.2	4119.2	4140.7	4116.6	4014.5	3848.0	3617.1
25°	4591.9	4573.1	4489.8	4460.3	4379.7	4409.3	4492.5	4473.7	4409.3	4108.5	3748.7
27.5°	4975.9	4911.4	4927.5	4793.3	4715.4	4798.6	4898.0	4992.0	4809.4	4414.6	3904.4
30°	5247.1	5179.9	5174.6	5169.2	5150.4	5247.1	5362.5	5448.5	5300.8	4720.7	4162.2
32.5°	5381.3	5397.4	5443.1	5427.0	5590.8	5789.5	5910.3	6033.9	5848.6	5220.2	4503.2
35°	5738.5	5636.4	5738.5	5749.2	5918.4	6340.0	6493.0	6788.4	6742.8	5926.4	4919.5
37.5°	5947.9	5939.9	5953.3	6055.3	6219.1	6740.1	6957.6	7185.8	7099.9	6350.7	5437.7
40°	6294.3	6315.8	6313.1	6391.0	6570.9	7040.8	7129.5	7314.7	7322.8	6938.8	6200.3
42.5°	6850.2	6764.3	6707.9	6788.4	7040.8	7301.3	7478.5	7441.0	7706.8	7653.1	7180.5
45°	7349.7	7400.7	7317.4	7451.7	7543.0	7682.6	7677.3	7757.8	8096.2	8351.3	7918.9
47.5°	7816.9	7849.1	7889.4	7980.7	8179.4	8200.9	8155.2	8120.3	8587.6	8850.7	8490.9
50°	8096.2	8125.7	8313.7	8477.5	8848.0	8896.4	8923.2	8834.6	9151.5	9181.0	9030.6
52.5°	8021.0	8053.2	8316.4	8856.1	9446.9	9889.9	9809.4	9659.0	9640.2	9755.7	9530.1
55°	7355.0	7325.5	7688.0	8528.5	9634.8	10698.2	10709.0	10550.5	10247.1	10169.2	9454.9
56°	6788.4	6673.0	7134.8	8149.9	9393.2	10628.4	10749.2	10580.1	10295.4	9946.3	8990.4
57.5°	5561.2	5671.3	6130.5	6971.0	8558.0	10126.2	10196.1	10155.8	9941.0	9355.6	7910.9
60°	3066.6	3259.9	3665.4	4693.9	6092.9	7771.2	7827.6	8155.2	8195.5	7164.4	5443.1
62.5°	1302.4	1280.9	1702.5	2459.7	3469.4	4691.2	4795.9	5131.6	5193.4	4130.0	2730.9
65°	529.0	558.5	770.7	1237.9	1834.1	2137.5	2285.2	2395.3	2599.4	1705.2	1007.0
67.5°	349.1	346.4	453.8	706.2	988.2	953.3	953.3	1007.0	931.8	695.5	435.0
70°	249.7	257.8	324.9	488.7	614.9	456.5	437.7	418.9	475.3	459.2	351.8
72.5°	163.8	174.5	217.5	292.7	319.6	249.7	249.7	300.8	392.1	370.6	287.3
75°	107.4	110.1	134.3	169.2	158.4	128.9	142.3	201.4	284.6	273.9	204.1
77.5°	72.5	75.2	91.3	110.1	88.6	72.5	77.9	102.0	139.6	139.6	107.4
80°	26.9	29.5	37.6	34.9	40.3	51.0	56.4	69.8	83.2	83.2	72.5
82.5°	0.0	2.7	8.1	18.8	29.5	40.3	45.7	53.7	61.8	69.8	67.1
85°	0.0	2.7	8.1	13.4	21.5	24.2	26.9	18.8	16.1	16.1	13.4
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4	2.7	2.7
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°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2816.9	2814.2	2814.2	2806.1	2822.2	2814.2	2819.6	2816.9	2782.0	2808.8	2790.0
5°	2846.4	2865.2	2835.7	2830.3	2808.8	2816.9	2816.9	2790.0	2814.2	2811.5	2806.1
7.5°	2921.6	2889.4	2857.2	2824.9	2819.6	2811.5	2782.0	2771.2	2790.0	2768.5	2800.8
10°	2953.8	2959.2	2910.9	2867.9	2827.6	2771.2	2730.9	2706.8	2677.2	2709.5	2728.3
12.5°	3101.5	3047.8	2964.6	2897.4	2760.5	2704.1	2663.8	2653.1	2704.1	2714.8	2696.0
15°	3152.5	3144.5	3037.1	2886.7	2744.4	2677.2	2685.3	2663.8	2669.2	2642.3	2647.7
17.5°	3257.3	3166.0	3039.8	2851.8	2741.7	2725.6	2677.2	2591.3	2543.0	2521.5	2540.3
20°	3372.7	3284.1	3101.5	2865.2	2765.9	2722.9	2564.5	2459.7	2360.4	2306.7	2309.4
22.5°	3474.8	3364.7	3074.7	2870.6	2787.3	2610.1	2419.5	2212.7	2089.2	2005.9	2008.6
25°	3598.3	3442.5	3085.4	2881.3	2730.9	2430.2	2156.3	1954.9	1807.2	1750.8	1769.6
27.5°	3668.1	3490.9	3144.5	2905.5	2583.3	2175.1	1879.7	1691.7	1605.8	1579.0	1576.3
30°	3877.6	3598.3	3217.0	2857.2	2336.2	1901.2	1627.3	1511.8	1428.6	1404.4	1409.8
32.5°	4189.1	3794.3	3311.0	2730.9	2083.8	1656.8	1463.5	1377.6	1299.7	1254.0	1248.7
35°	4449.5	4130.0	3410.3	2534.9	1791.1	1468.9	1348.0	1240.6	1122.5	1071.4	1058.0
37.5°	4946.3	4508.6	3388.8	2239.5	1511.8	1329.2	1224.5	1092.9	990.9	921.1	913.0
40°	5606.9	4951.7	3284.1	1879.7	1305.1	1205.7	1092.9	966.7	840.5	781.4	776.1
42.5°	6409.8	5494.1	3093.5	1514.5	1098.3	1082.2	980.1	835.1	722.3	679.4	682.1
45°	7062.3	5958.7	2900.1	1216.4	945.2	961.3	872.7	735.8	657.9	623.0	623.0
47.5°	7642.3	6272.8	2690.7	1004.3	802.9	840.5	762.6	682.1	614.9	588.1	582.7
50°	8200.9	6592.4	2481.2	813.6	684.8	722.3	714.3	649.8	596.1	563.9	566.6
52.5°	8550.0	6643.4	2215.4	666.0	598.8	641.8	668.6	609.6	550.5	531.7	526.3
55°	8123.0	5985.5	1718.6	547.8	507.5	563.9	614.9	547.8	502.2	469.9	467.2
56°	7548.4	5351.8	1436.6	504.8	480.7	542.4	596.1	523.6	472.6	453.8	440.4
57.5°	6391.0	4379.7	1060.7	448.4	445.8	504.8	566.6	499.5	440.4	424.3	424.3
60°	3985.0	2465.1	641.8	375.9	386.7	448.4	510.2	445.8	392.1	392.1	400.1
62.5°	1815.3	1025.8	389.4	319.6	333.0	386.7	453.8	402.8	373.3	402.8	408.2
65°	617.6	443.1	282.0	255.1	263.2	319.6	389.4	408.2	405.5	424.3	435.0
67.5°	346.4	284.6	236.3	212.1	206.8	236.3	319.6	408.2	392.1	384.0	389.4
70°	292.7	241.7	209.5	188.0	179.9	190.7	247.0	308.8	276.6	268.5	263.2
72.5°	236.3	201.4	182.6	169.2	145.0	123.5	112.8	118.2	131.6	139.6	153.1
75°	166.5	153.1	153.1	137.0	104.7	77.9	61.8	51.0	34.9	24.2	26.9
77.5°	94.0	94.0	96.7	83.2	67.1	51.0	37.6	26.9	13.4	5.4	2.7
80°	64.4	69.8	75.2	67.1	56.4	45.7	32.2	18.8	8.1	0.0	0.0
82.5°	64.4	72.5	77.9	67.1	56.4	43.0	32.2	18.8	8.1	2.7	0.0
85°	13.4	16.1	18.8	21.5	32.2	32.2	24.2	16.1	8.1	2.7	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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)