

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: P652411

Luminaire Tested: **GALN-SA5B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652411
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-SA5B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 14311.3 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

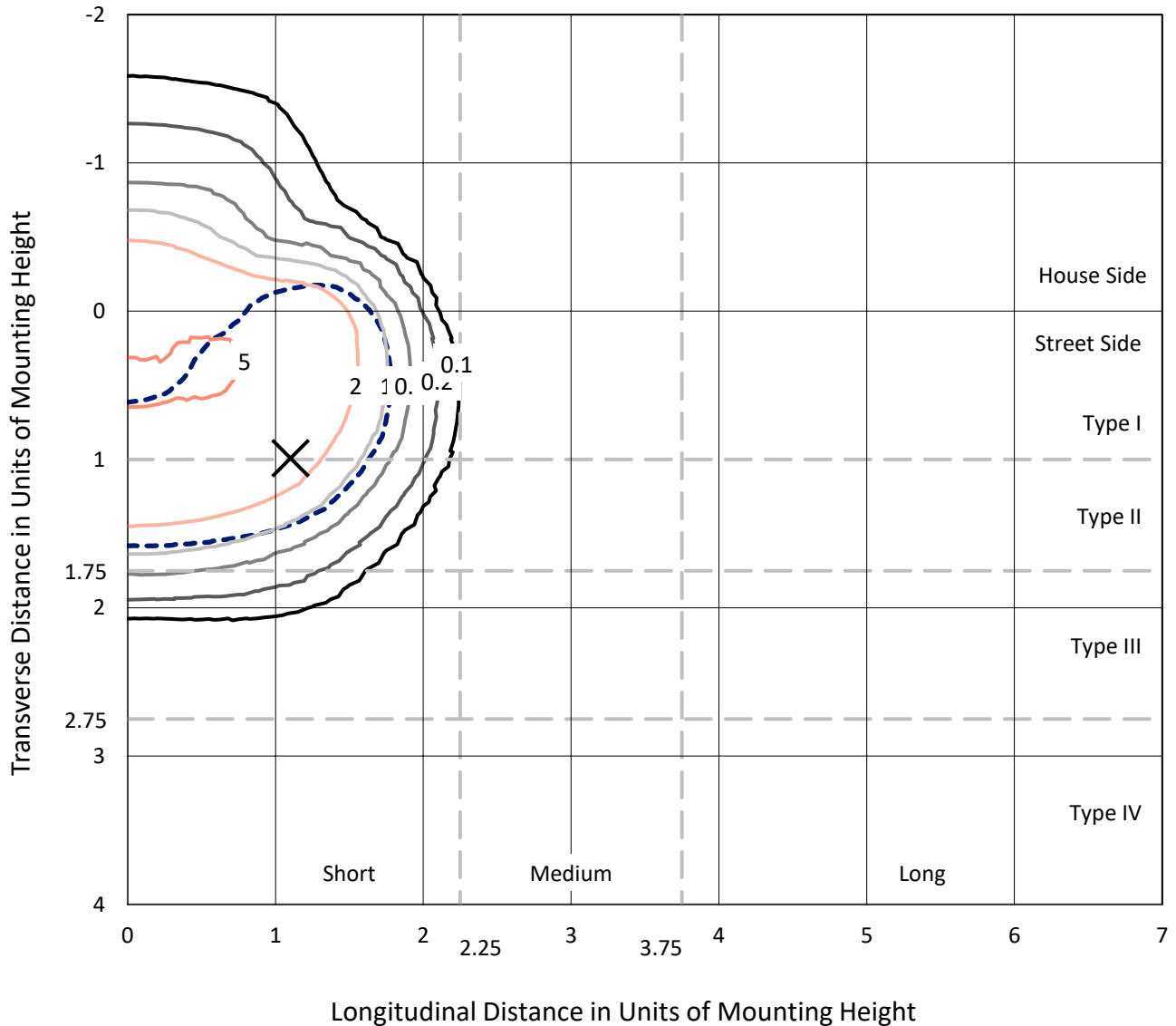
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

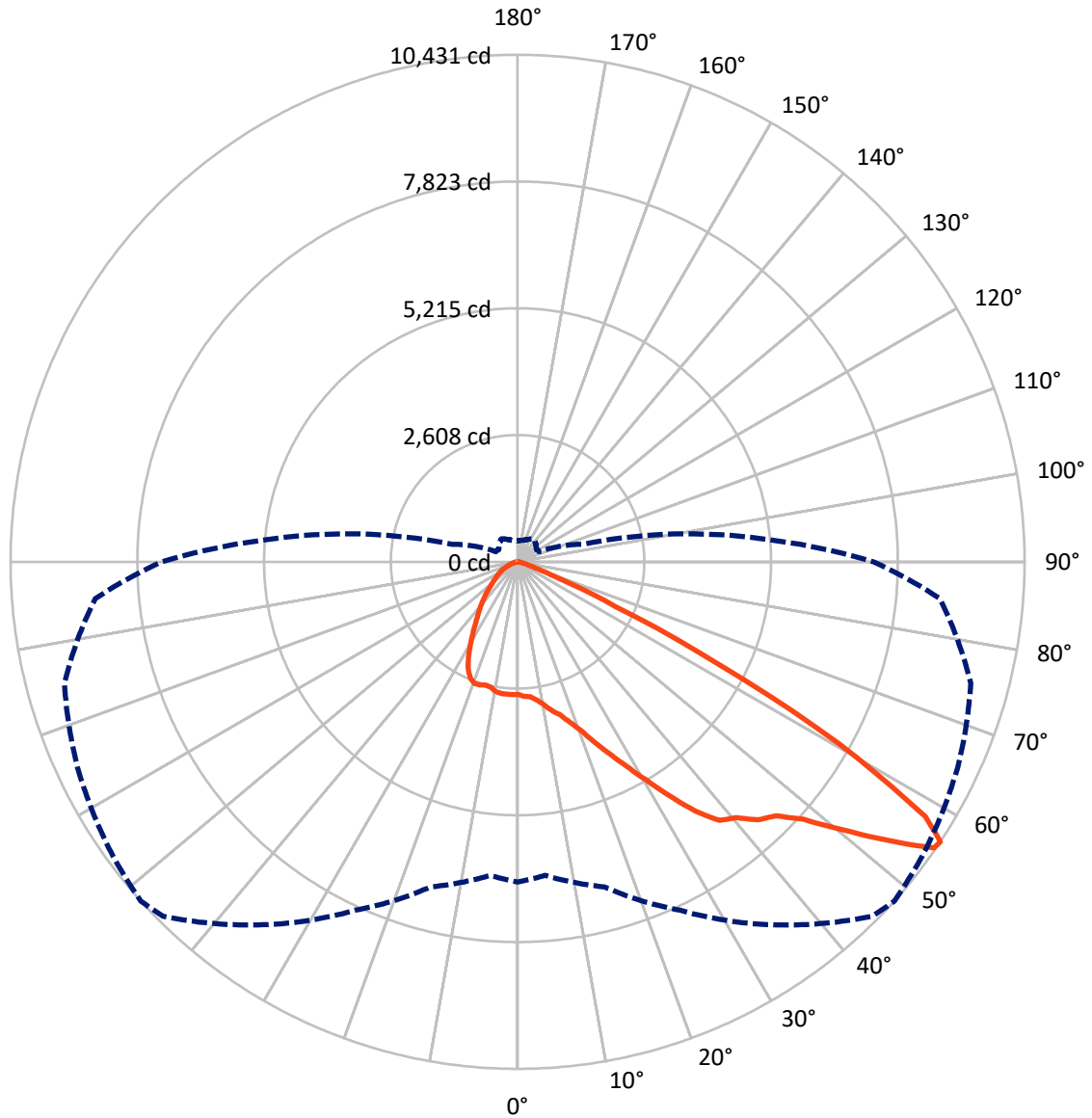
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type 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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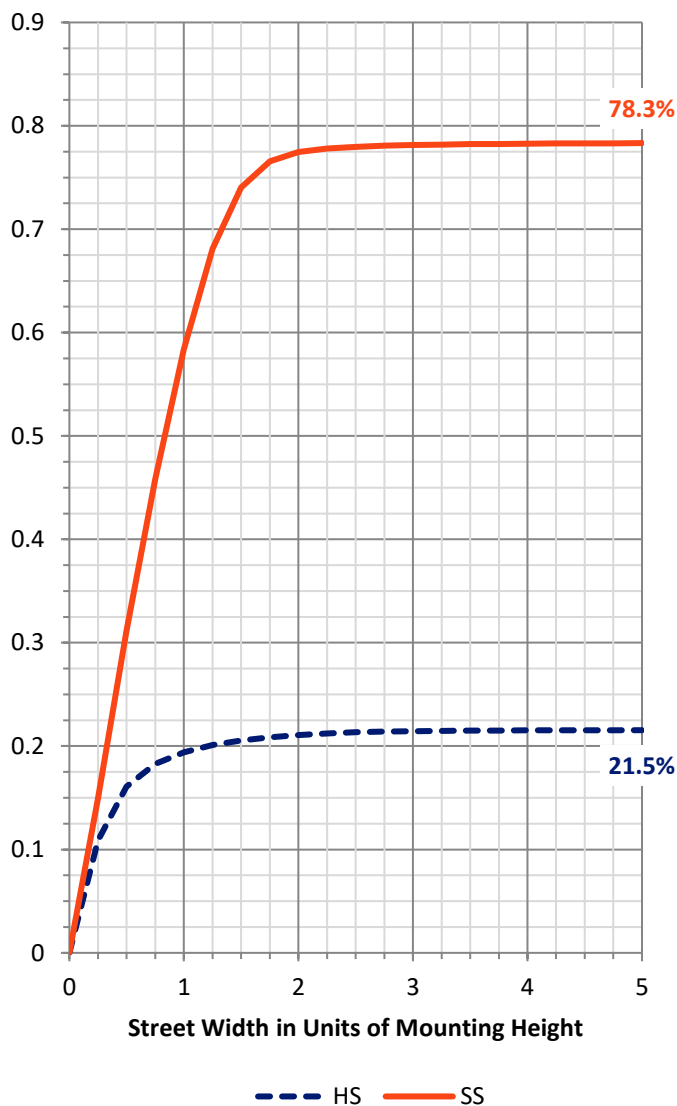
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.4	0.0	3112.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11198.9	0.0	11198.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	14311.3	0.0	14311.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	1.9
10°-20°	850.9	5.9
20°-30°	1543.5	10.8
30°-40°	2424.5	16.9
40°-50°	3536.8	24.7
50°-60°	4261.2	29.8
60°-70°	1247.6	8.7
70°-80°	158.3	1.1
80°-90°	22.2	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°	14311.3	100.0
0°-180°	14311.3	100.0

Coefficient of Utilization

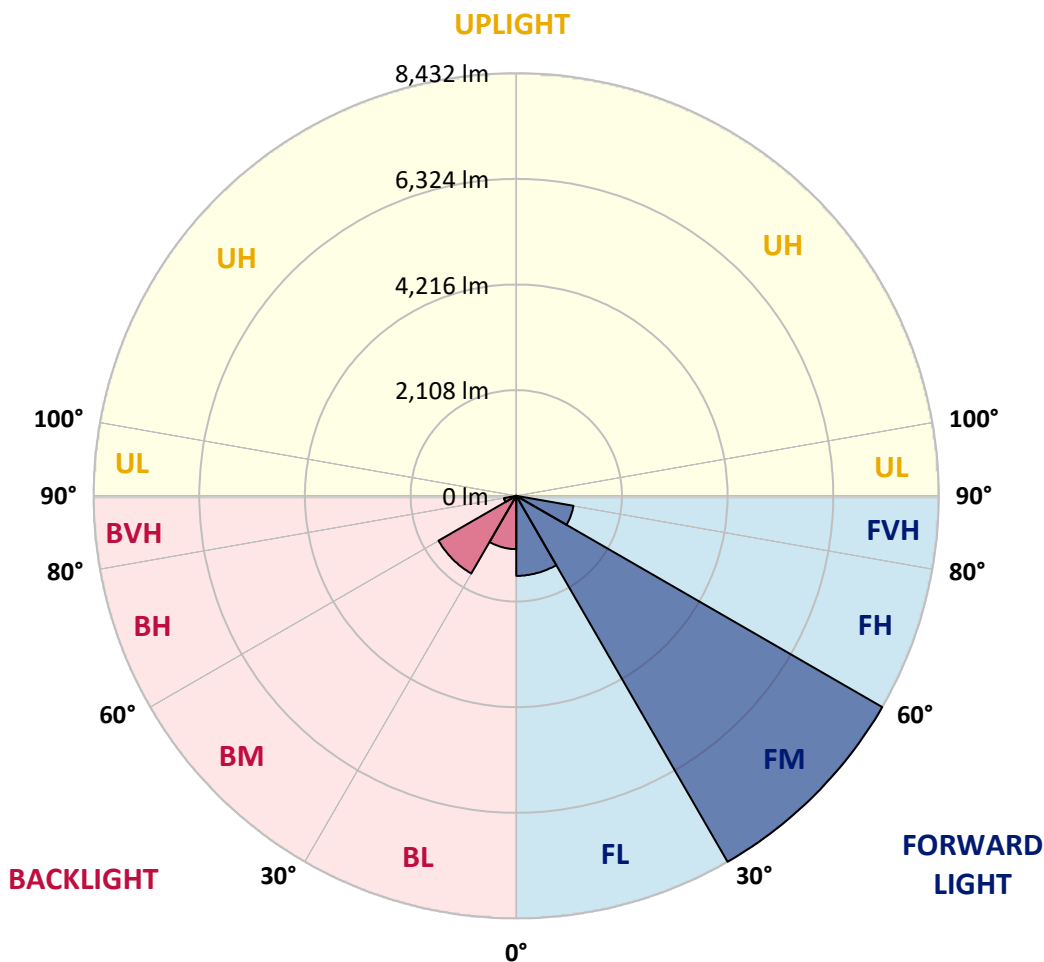


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.9	11.2			
FM (30°-60°)	8432.2	58.9			
FH (60°-80°)	1158.6	8.1			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1063.8	7.4	B3/2500		
BM (30°-60°)	1790.3	12.5	B2/2500		
BH (60°-80°)	247.3	1.7	B1/500		G1/500
BVH (80°-90°)	11.1	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°	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5
2.5°	2783.0	2769.9	2769.9	2749.1	2772.5	2762.1	2769.9	2743.8	2769.9	2730.9	2762.1
5°	2796.0	2798.6	2788.2	2801.2	2801.2	2816.8	2790.8	2814.2	2827.3	2798.6	2785.6
7.5°	2863.8	2869.0	2866.4	2856.0	2876.8	2874.2	2871.6	2853.3	2858.6	2848.1	2832.5
10°	2996.7	2994.0	3007.1	2981.0	2965.4	2983.6	2988.8	2960.2	2939.3	2931.5	2882.0
12.5°	3189.5	3158.2	3140.0	3113.9	3121.7	3095.6	3142.6	3093.0	3082.6	3035.8	2986.2
15°	3345.8	3340.6	3343.2	3301.5	3254.6	3265.0	3265.0	3239.0	3223.4	3166.0	3095.6
17.5°	3666.3	3556.9	3580.3	3528.2	3489.1	3486.5	3463.1	3468.3	3426.6	3306.7	3199.9
20°	3916.5	3869.6	3833.1	3744.5	3684.6	3702.8	3692.4	3666.3	3653.3	3497.0	3345.8
22.5°	4140.6	4156.2	4096.3	4072.8	3989.5	3997.3	4018.1	3994.7	3895.7	3734.1	3510.0
25°	4455.9	4437.6	4356.9	4328.2	4250.0	4278.7	4359.5	4341.2	4278.7	3986.8	3637.7
27.5°	4828.5	4765.9	4781.6	4651.3	4575.7	4656.5	4752.9	4844.2	4667.0	4283.9	3788.8
30°	5091.7	5026.6	5021.4	5016.1	4997.9	5091.7	5203.8	5287.1	5143.8	4580.9	4039.0
32.5°	5222.0	5237.6	5281.9	5266.3	5425.2	5618.0	5735.3	5855.2	5675.4	5065.7	4369.9
35°	5568.5	5469.5	5568.5	5578.9	5743.1	6152.3	6300.8	6587.4	6543.1	5750.9	4773.8
37.5°	5771.8	5764.0	5777.0	5876.1	6035.0	6540.5	6751.5	6973.1	6889.7	6162.7	5276.7
40°	6107.9	6128.8	6126.2	6201.8	6376.4	6832.4	6918.3	7098.1	7105.9	6733.3	6016.8
42.5°	6647.3	6563.9	6509.3	6587.4	6832.4	7085.1	7257.1	7220.7	7478.6	7426.5	6967.9
45°	7132.0	7181.6	7100.7	7231.0	7319.6	7455.1	7449.9	7528.1	7856.5	8104.0	7684.5
47.5°	7585.4	7616.7	7655.8	7744.3	7937.2	7958.0	7913.7	7879.9	8333.3	8588.6	8239.4
50°	7856.5	7885.1	8067.5	8226.4	8586.0	8632.9	8659.0	8573.0	8880.5	8909.1	8763.2
52.5°	7783.5	7814.7	8070.1	8593.8	9167.2	9597.1	9518.9	9373.0	9354.8	9466.8	9247.9
55°	7137.2	7108.6	7460.3	8275.9	9349.6	10381.5	10391.8	10238.1	9943.6	9868.1	9175.0
56°	6587.4	6475.4	6923.5	7908.5	9115.0	10313.7	10430.9	10266.8	9990.6	9651.8	8724.1
57.5°	5396.6	5503.4	5949.0	6764.6	8304.6	9826.4	9894.1	9855.1	9646.6	9078.5	7676.6
60°	2975.8	3163.4	3556.9	4554.9	5912.5	7541.2	7595.8	7913.7	7952.8	6952.2	5281.9
62.5°	1263.8	1243.0	1652.1	2386.9	3366.7	4552.3	4653.9	4979.6	5039.6	4007.7	2650.1
65°	513.3	542.0	747.8	1201.3	1779.7	2074.2	2217.5	2324.4	2522.4	1654.7	977.2
67.5°	338.8	336.1	440.3	685.3	958.9	925.0	925.0	977.2	904.2	674.9	422.1
70°	242.4	250.1	315.3	474.2	596.7	443.0	424.7	406.5	461.2	445.6	341.4
72.5°	158.9	169.4	211.1	284.0	310.1	242.4	242.4	291.8	380.5	359.6	278.8
75°	104.2	106.8	130.3	164.2	153.7	125.1	138.1	195.4	276.2	265.8	198.1
77.5°	70.4	73.0	88.6	106.8	86.0	70.4	75.6	99.0	135.5	135.5	104.2
80°	26.1	28.7	36.5	33.9	39.1	49.5	54.7	67.8	80.8	80.8	70.4
82.5°	0.0	2.6	7.8	18.2	28.7	39.1	44.3	52.1	60.0	67.8	65.2
85°	0.0	2.6	7.8	13.0	20.9	23.5	26.1	18.2	15.6	15.6	13.0
87.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.2	2.6	2.6
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°	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5	2733.5
2.5°	2733.5	2730.9	2730.9	2723.1	2738.7	2730.9	2736.1	2733.5	2699.6	2725.7	2707.4
5°	2762.1	2780.3	2751.7	2746.5	2725.7	2733.5	2733.5	2707.4	2730.9	2728.3	2723.1
7.5°	2835.1	2803.8	2772.5	2741.2	2736.1	2728.3	2699.6	2689.2	2707.4	2686.6	2717.9
10°	2866.4	2871.6	2824.7	2783.0	2743.8	2689.2	2650.1	2626.6	2597.9	2629.2	2647.5
12.5°	3009.7	2957.5	2876.8	2811.6	2678.8	2624.0	2584.9	2574.6	2624.0	2634.4	2616.2
15°	3059.2	3051.4	2947.1	2801.2	2663.1	2597.9	2605.8	2584.9	2590.1	2564.1	2569.3
17.5°	3160.8	3072.3	2949.7	2767.3	2660.5	2644.9	2597.9	2514.6	2467.7	2446.8	2465.1
20°	3272.8	3186.9	3009.7	2780.3	2684.0	2642.3	2488.5	2386.9	2290.5	2238.4	2241.0
22.5°	3371.9	3265.0	2983.6	2785.6	2704.8	2532.8	2347.8	2147.2	2027.3	1946.5	1949.1
25°	3491.7	3340.6	2994.0	2796.0	2650.1	2358.2	2092.4	1897.0	1753.7	1699.0	1717.2
27.5°	3559.5	3387.5	3051.4	2819.5	2506.8	2110.7	1824.0	1641.6	1558.3	1532.2	1529.6
30°	3762.7	3491.7	3121.7	2772.5	2267.0	1844.9	1579.1	1467.0	1386.3	1362.8	1368.1
32.5°	4065.1	3682.0	3213.0	2650.1	2022.1	1607.7	1420.1	1336.8	1261.2	1216.9	1211.7
35°	4317.8	4007.7	3309.3	2459.8	1738.1	1425.3	1308.1	1203.9	1089.2	1039.7	1026.7
37.5°	4799.8	4375.1	3288.5	2173.2	1467.0	1289.8	1188.2	1060.6	961.5	893.8	886.0
40°	5440.8	4805.1	3186.9	1824.0	1266.4	1170.0	1060.6	938.1	815.6	758.2	753.0
42.5°	6220.0	5331.4	3001.9	1469.6	1065.8	1050.2	951.1	810.4	701.0	659.3	661.9
45°	6853.2	5782.2	2814.2	1180.4	917.2	932.8	846.9	714.0	638.4	604.5	604.5
47.5°	7416.0	6087.1	2611.0	974.6	779.1	815.6	740.1	661.9	596.7	570.7	565.5
50°	7958.0	6397.2	2407.8	789.5	664.5	701.0	693.2	630.6	578.5	547.2	549.8
52.5°	8296.8	6446.7	2149.8	646.2	581.1	622.8	648.8	591.5	534.2	516.0	510.7
55°	7882.5	5808.3	1667.7	531.6	492.5	547.2	596.7	531.6	487.3	456.0	453.4
56°	7324.9	5193.3	1394.1	489.9	466.4	526.4	578.5	508.1	458.6	440.3	427.3
57.5°	6201.8	4250.0	1029.3	435.1	432.5	489.9	549.8	484.7	427.3	411.8	411.8
60°	3867.0	2392.1	622.8	364.8	375.3	435.1	495.1	432.5	380.5	380.5	388.3
62.5°	1761.5	995.4	377.9	310.1	323.1	375.3	440.3	390.9	362.2	390.9	396.1
65°	599.3	429.9	273.6	247.6	255.3	310.1	377.9	396.1	393.5	411.8	422.1
67.5°	336.1	276.2	229.3	205.9	200.7	229.3	310.1	396.1	380.5	372.6	377.9
70°	284.0	234.6	203.3	182.4	174.6	185.0	239.8	299.6	268.4	260.5	255.3
72.5°	229.3	195.4	177.2	164.2	140.7	119.8	109.4	114.6	127.7	135.5	148.5
75°	161.6	148.5	148.5	132.9	101.6	75.6	60.0	49.5	33.9	23.5	26.1
77.5°	91.2	91.2	93.8	80.8	65.2	49.5	36.5	26.1	13.0	5.2	2.6
80°	62.6	67.8	73.0	65.2	54.7	44.3	31.3	18.2	7.8	0.0	0.0
82.5°	62.6	70.4	75.6	65.2	54.7	41.7	31.3	18.2	7.8	2.6	0.0
85°	13.0	15.6	18.2	20.9	31.3	31.3	23.5	15.6	7.8	2.6	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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)