

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: P647406

Luminaire Tested: **GALN-SA4D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647406
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-SA4D-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 14309.3 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

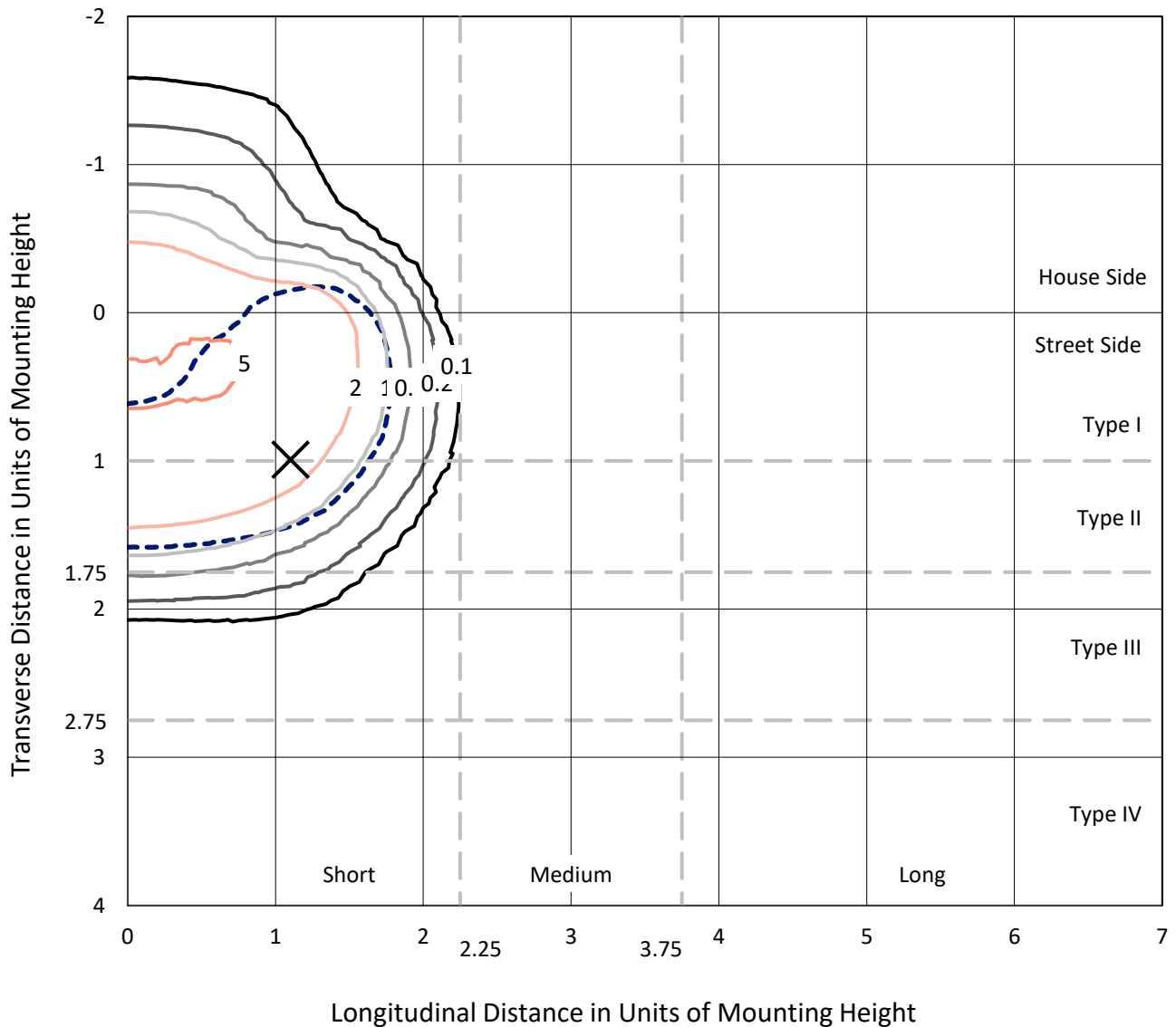
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

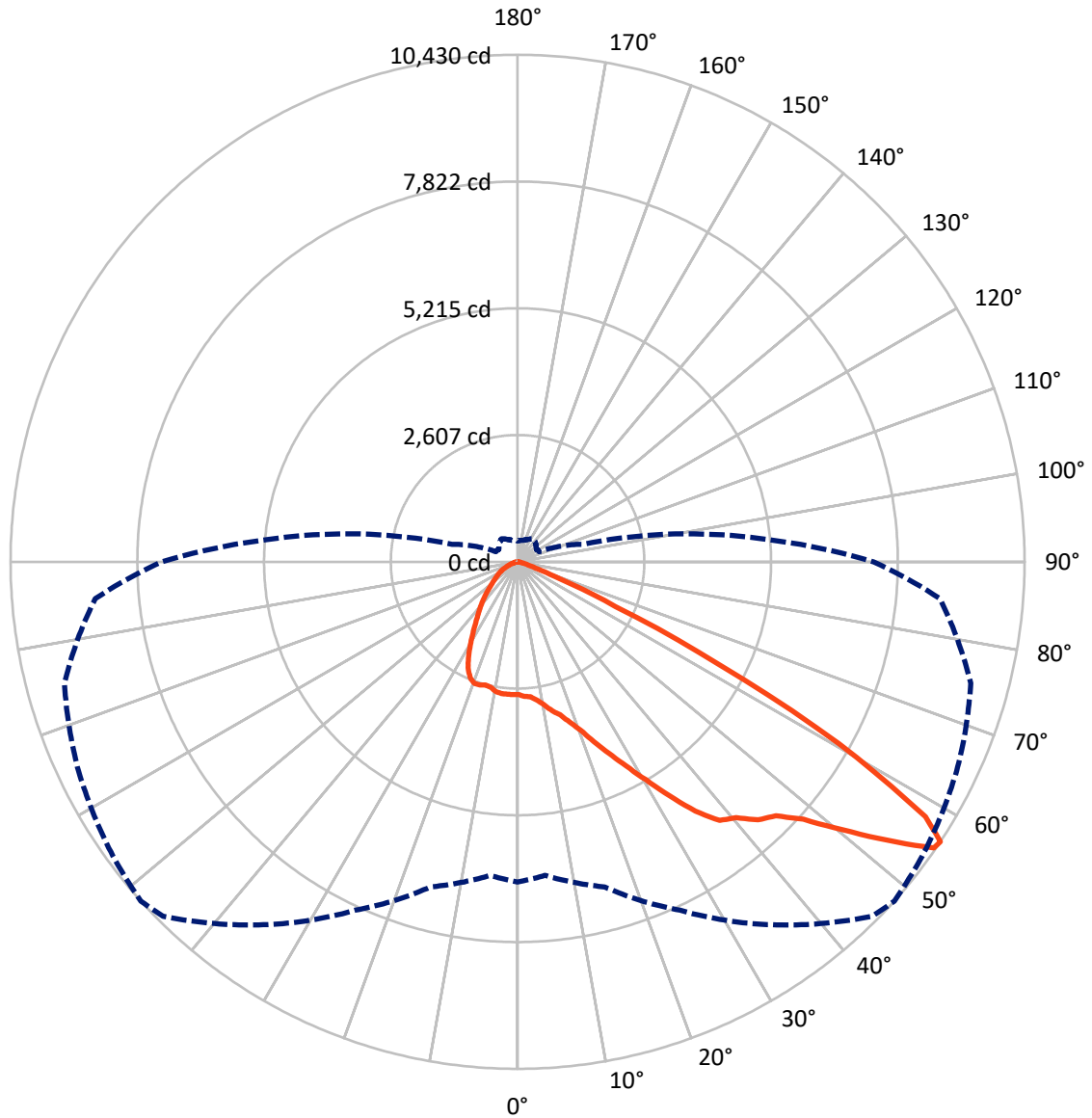
× Max cd
 - - - 1/2 Max cd



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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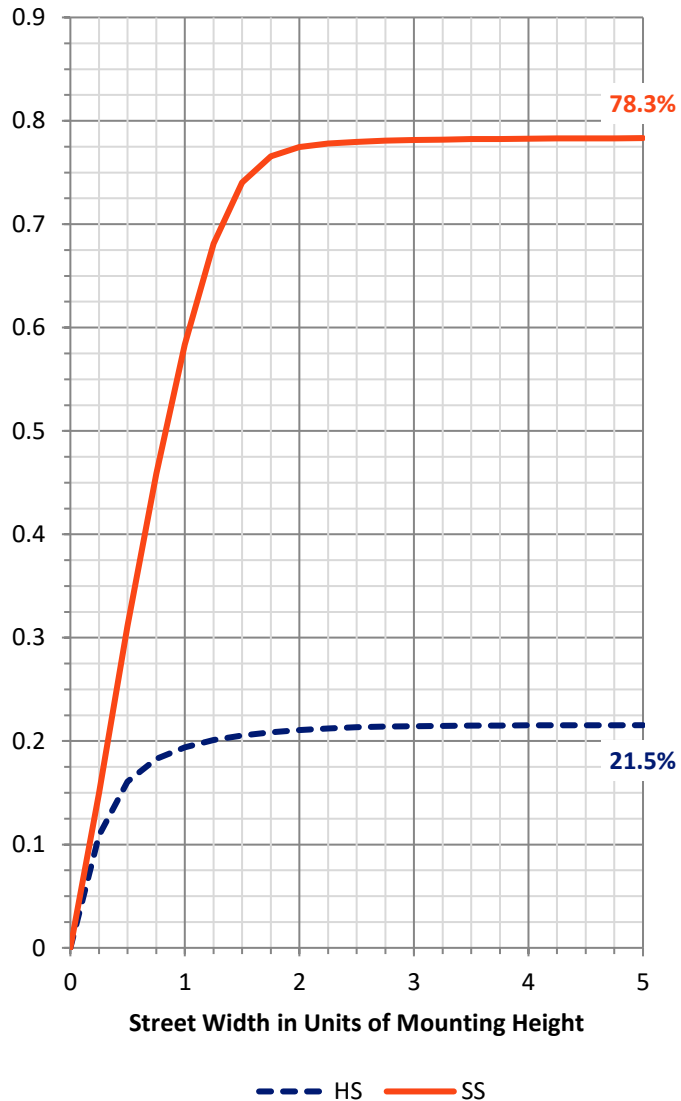
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.0	0.0	3112.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11197.3	0.0	11197.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	14309.3	0.0	14309.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	1.9
10°-20°	850.8	5.9
20°-30°	1543.2	10.8
30°-40°	2424.1	16.9
40°-50°	3536.4	24.7
50°-60°	4260.6	29.8
60°-70°	1247.5	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°	14309.3	100.0
0°-180°	14309.3	100.0

Coefficient of Utilization



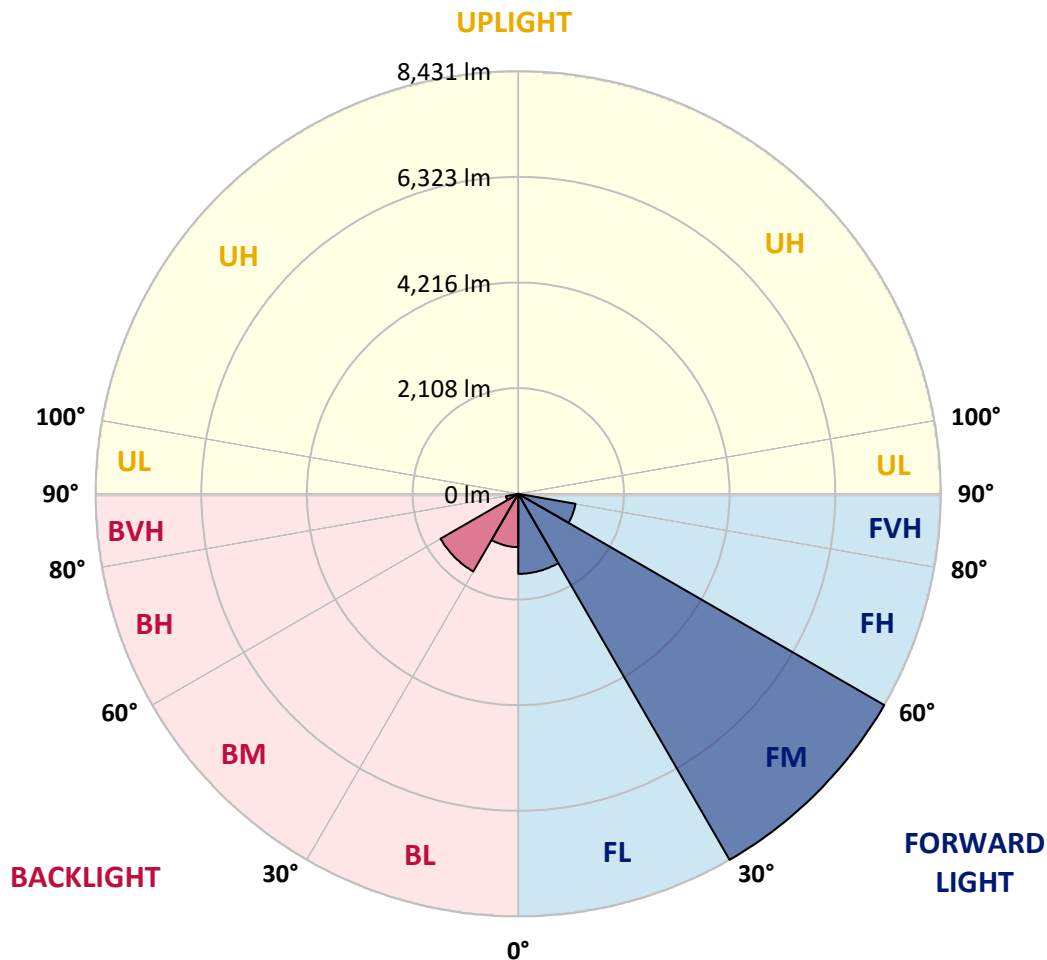
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.6	11.2			
FM (30°-60°)	8431.1	58.9			
FH (60°-80°)	1158.5	8.1			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1063.7	7.4	B3/2500		
BM (30°-60°)	1790.0	12.5	B2/2500		
BH (60°-80°)	247.3	1.7	B1/500		G1/500
BVH (80°-90°)	11.0	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°	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1
2.5°	2782.6	2769.5	2769.5	2748.7	2772.1	2761.7	2769.5	2743.5	2769.5	2730.5	2761.7
5°	2795.6	2798.2	2787.8	2800.8	2800.8	2816.5	2790.4	2813.9	2826.9	2798.2	2785.2
7.5°	2863.4	2868.6	2865.9	2855.5	2876.4	2873.8	2871.2	2852.9	2858.2	2847.7	2832.1
10°	2996.2	2993.6	3006.6	2980.6	2965.0	2983.2	2988.4	2959.7	2938.9	2931.1	2881.6
12.5°	3189.0	3157.8	3139.5	3113.4	3121.3	3095.3	3142.1	3092.6	3082.2	3035.3	2985.8
15°	3345.4	3340.1	3342.8	3301.0	3254.1	3264.6	3264.6	3238.6	3222.9	3165.6	3095.3
17.5°	3665.8	3556.4	3579.9	3527.7	3488.7	3486.1	3462.6	3467.8	3426.1	3306.3	3199.5
20°	3915.9	3869.0	3832.6	3744.0	3684.1	3702.3	3691.8	3665.8	3652.8	3496.5	3345.4
22.5°	4140.0	4155.6	4095.7	4072.3	3988.9	3996.7	4017.6	3994.1	3895.1	3733.6	3509.5
25°	4455.3	4437.0	4356.3	4327.6	4249.4	4278.1	4358.9	4340.6	4278.1	3986.3	3637.2
27.5°	4827.8	4765.3	4780.9	4650.7	4575.1	4655.9	4752.3	4843.5	4666.3	4283.3	3788.3
30°	5091.0	5025.8	5020.7	5015.4	4997.2	5091.0	5203.0	5286.4	5143.1	4580.3	4038.4
32.5°	5221.3	5236.9	5281.2	5265.5	5424.5	5617.3	5734.5	5854.4	5674.6	5064.9	4369.3
35°	5567.8	5468.8	5567.8	5578.2	5742.4	6151.4	6299.9	6586.5	6542.2	5750.2	4773.2
37.5°	5771.0	5763.2	5776.2	5875.2	6034.2	6539.6	6750.6	6972.1	6888.8	6161.8	5276.0
40°	6107.1	6127.9	6125.3	6200.9	6375.5	6831.4	6917.4	7097.2	7105.0	6732.4	6015.9
42.5°	6646.4	6563.0	6508.4	6586.5	6831.4	7084.1	7256.1	7219.7	7477.6	7425.4	6966.9
45°	7131.0	7180.6	7099.8	7230.1	7318.6	7454.1	7448.9	7527.1	7855.4	8102.9	7683.4
47.5°	7584.4	7615.6	7654.8	7743.3	7936.1	7956.9	7912.7	7878.8	8332.1	8587.5	8238.3
50°	7855.4	7884.0	8066.4	8225.3	8584.9	8631.8	8657.8	8571.8	8879.3	8908.0	8762.0
52.5°	7782.4	7813.6	8069.0	8592.6	9165.9	9595.7	9517.6	9371.7	9353.5	9465.5	9246.6
55°	7136.3	7107.6	7459.3	8274.8	9348.2	10380.0	10390.4	10236.7	9942.3	9866.7	9173.7
56°	6586.5	6474.5	6922.6	7907.4	9113.7	10312.3	10429.5	10265.4	9989.2	9650.5	8722.9
57.5°	5395.8	5502.7	5948.2	6763.7	8303.5	9825.1	9892.8	9853.7	9645.3	9077.3	7675.6
60°	2975.4	3163.0	3556.4	4554.2	5911.7	7540.1	7594.8	7912.7	7951.8	6951.2	5281.2
62.5°	1263.6	1242.8	1651.8	2386.6	3366.2	4551.7	4653.3	4978.9	5038.9	4007.2	2649.8
65°	513.3	541.9	747.8	1201.1	1779.5	2073.9	2217.2	2324.0	2522.0	1654.5	977.0
67.5°	338.7	336.1	440.3	685.2	958.8	925.0	925.0	977.0	904.1	674.8	422.1
70°	242.3	250.1	315.2	474.2	596.6	442.9	424.7	406.5	461.2	445.5	341.3
72.5°	158.9	169.4	211.0	284.0	310.1	242.3	242.3	291.8	380.4	359.6	278.7
75°	104.2	106.8	130.3	164.1	153.7	125.0	138.1	195.4	276.2	265.8	198.0
77.5°	70.3	73.0	88.6	106.8	86.0	70.3	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	67.7	80.8	80.8	70.3
82.5°	0.0	2.6	7.8	18.2	28.7	39.1	44.3	52.1	59.9	67.7	65.1
85°	0.0	2.6	7.8	13.0	20.8	23.4	26.1	18.2	15.7	15.7	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°	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1	2733.1
2.5°	2733.1	2730.5	2730.5	2722.6	2738.3	2730.5	2735.7	2733.1	2699.2	2725.3	2707.1
5°	2761.7	2780.0	2751.3	2746.1	2725.3	2733.1	2733.1	2707.1	2730.5	2727.9	2722.6
7.5°	2834.7	2803.5	2772.1	2740.9	2735.7	2727.9	2699.2	2688.8	2707.1	2686.2	2717.5
10°	2865.9	2871.2	2824.3	2782.6	2743.5	2688.8	2649.8	2626.3	2597.6	2628.8	2647.1
12.5°	3009.2	2957.2	2876.4	2811.3	2678.4	2623.7	2584.6	2574.2	2623.7	2634.1	2615.8
15°	3058.8	3051.0	2946.7	2800.8	2662.7	2597.6	2605.4	2584.6	2589.8	2563.7	2568.9
17.5°	3160.3	3071.8	2949.3	2767.0	2660.2	2644.5	2597.6	2514.2	2467.3	2446.5	2464.7
20°	3272.4	3186.4	3009.2	2780.0	2683.6	2641.9	2488.1	2386.6	2290.2	2238.0	2240.6
22.5°	3371.4	3264.6	2983.2	2785.2	2704.4	2532.5	2347.5	2146.8	2027.0	1946.2	1948.9
25°	3491.2	3340.1	2993.6	2795.6	2649.8	2357.9	2092.2	1896.7	1753.5	1698.7	1717.0
27.5°	3559.0	3387.0	3051.0	2819.0	2506.4	2110.4	1823.8	1641.4	1558.0	1532.0	1529.4
30°	3762.2	3491.2	3121.3	2772.1	2266.7	1844.7	1578.9	1466.9	1386.1	1362.7	1367.8
32.5°	4064.5	3681.4	3212.5	2649.8	2021.8	1607.6	1420.0	1336.6	1261.0	1216.7	1211.5
35°	4317.1	4007.2	3308.9	2459.5	1737.8	1425.1	1307.9	1203.7	1089.1	1039.6	1026.5
37.5°	4799.2	4374.5	3288.1	2172.9	1466.9	1289.7	1188.0	1060.4	961.4	893.6	885.8
40°	5440.1	4804.4	3186.4	1823.8	1266.3	1169.8	1060.4	938.0	815.5	758.2	752.9
42.5°	6219.1	5330.7	3001.5	1469.5	1065.6	1050.0	951.0	810.2	700.9	659.2	661.8
45°	6852.3	5781.4	2813.9	1180.3	917.1	932.7	846.7	713.9	638.3	604.5	604.5
47.5°	7415.0	6086.3	2610.6	974.4	779.0	815.5	739.9	661.8	596.6	570.6	565.4
50°	7956.9	6396.3	2407.4	789.4	664.4	700.9	693.0	630.5	578.4	547.2	549.7
52.5°	8295.7	6445.8	2149.5	646.1	581.0	622.7	648.7	591.4	534.1	515.8	510.7
55°	7881.4	5807.5	1667.5	531.5	492.4	547.2	596.6	531.5	487.2	455.9	453.4
56°	7323.9	5192.6	1393.9	489.8	466.4	526.3	578.4	508.1	458.5	440.3	427.3
57.5°	6200.9	4249.4	1029.2	435.1	432.5	489.8	549.7	484.6	427.3	411.6	411.6
60°	3866.5	2391.8	622.7	364.7	375.2	435.1	495.0	432.5	380.4	380.4	388.2
62.5°	1761.3	995.3	377.8	310.1	323.1	375.2	440.3	390.8	362.1	390.8	396.0
65°	599.2	429.9	273.6	247.5	255.3	310.1	377.8	396.0	393.5	411.6	422.1
67.5°	336.1	276.2	229.3	205.9	200.6	229.3	310.1	396.0	380.4	372.6	377.8
70°	284.0	234.5	203.2	182.4	174.5	185.0	239.7	299.7	268.3	260.5	255.3
72.5°	229.3	195.4	177.2	164.1	140.7	119.9	109.5	114.6	127.6	135.5	148.5
75°	161.5	148.5	148.5	132.9	101.6	75.6	59.9	49.5	33.9	23.4	26.1
77.5°	91.2	91.2	93.8	80.8	65.1	49.5	36.5	26.1	13.0	5.2	2.6
80°	62.6	67.7	73.0	65.1	54.7	44.3	31.2	18.2	7.8	0.0	0.0
82.5°	62.6	70.3	75.6	65.1	54.7	41.7	31.2	18.2	7.8	2.6	0.0
85°	13.0	15.7	18.2	20.8	31.2	31.2	23.4	15.7	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)