

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: P319160

Luminaire Tested: **GLEON-SA6B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24950 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

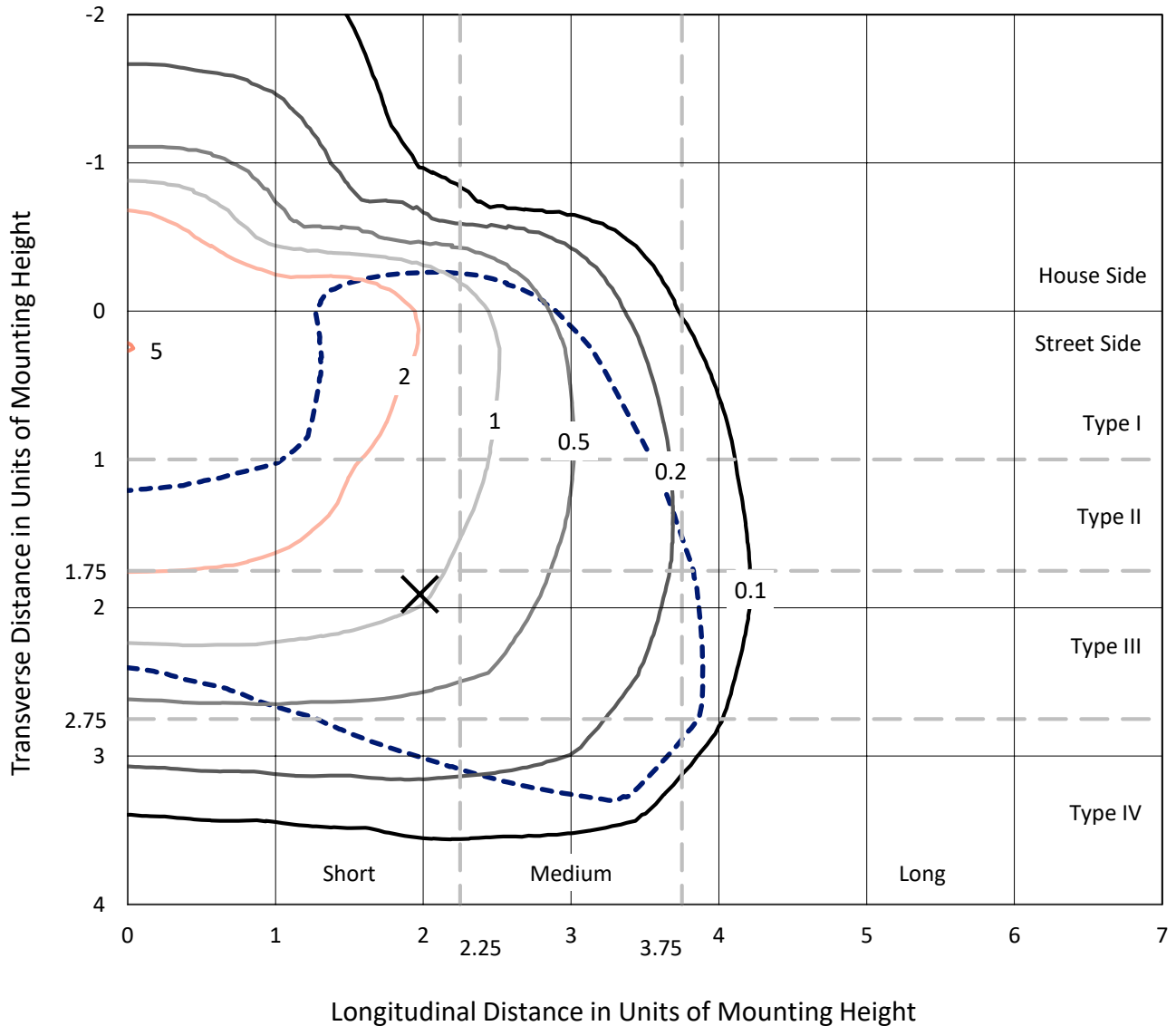
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

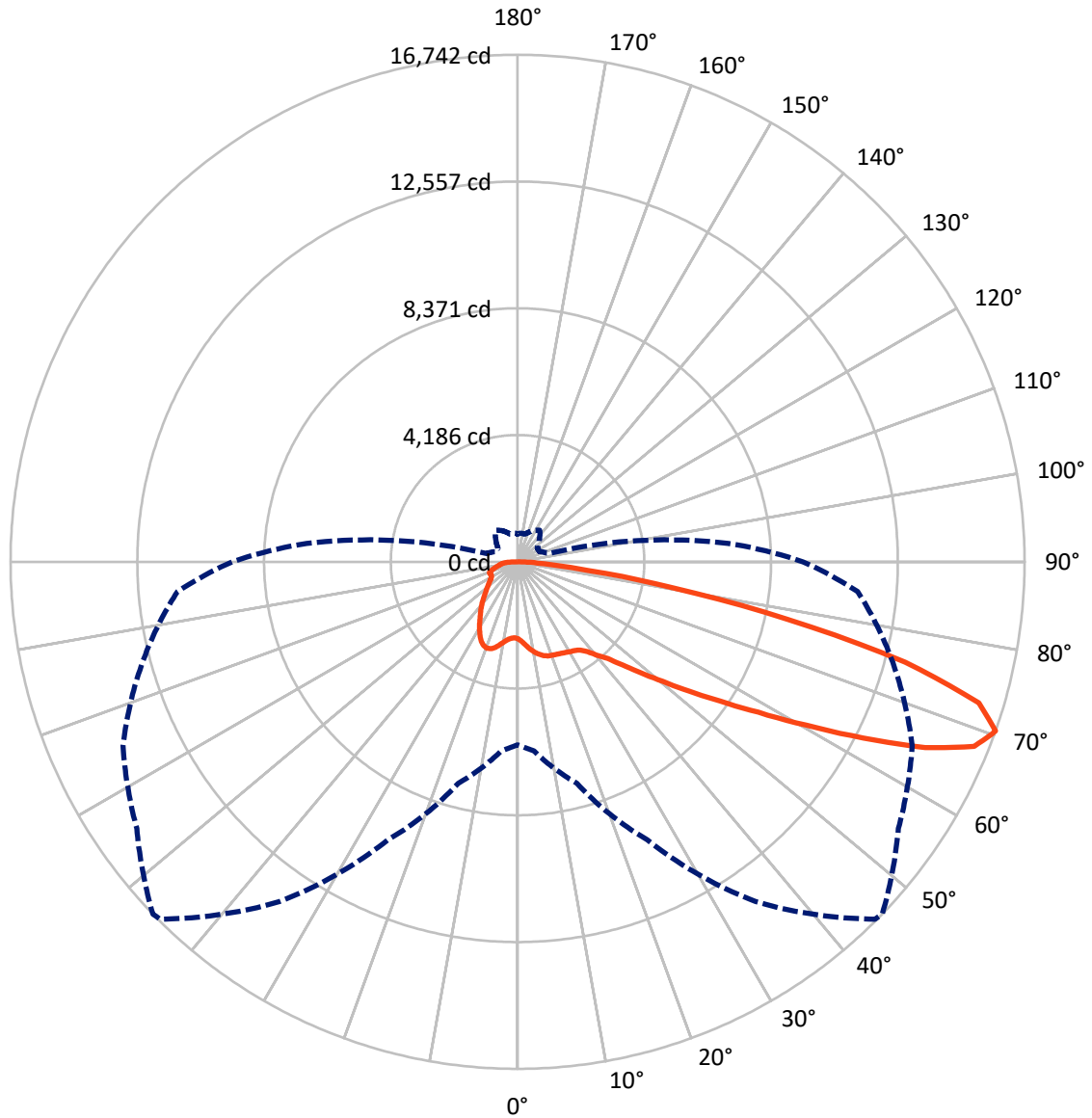
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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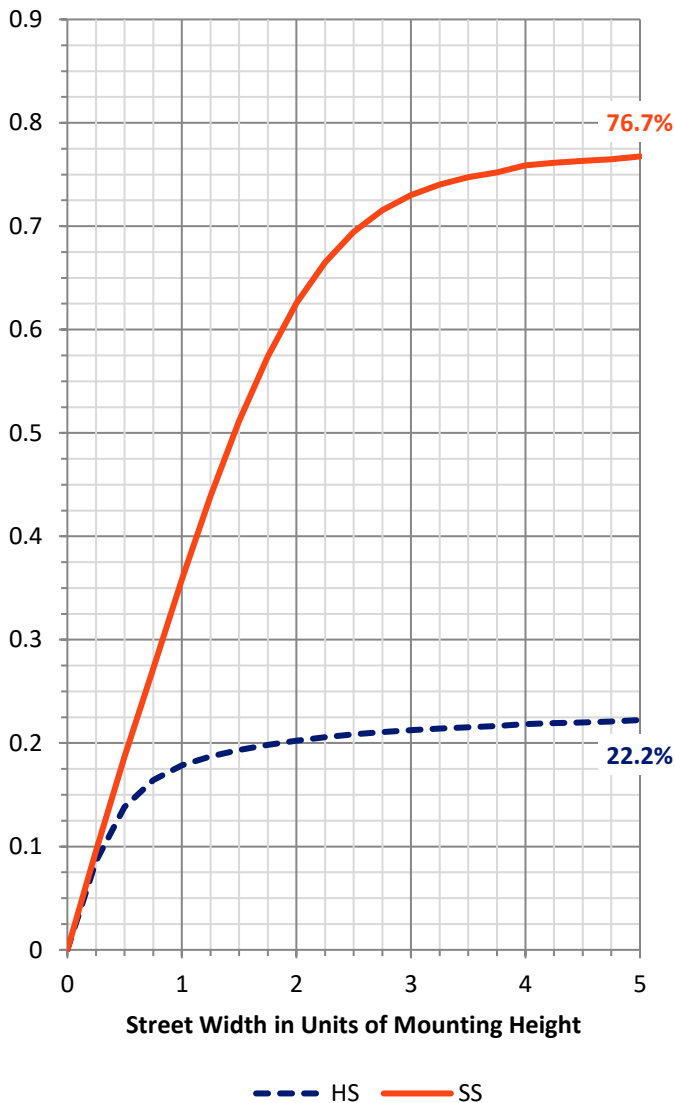
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5718.5	0.0	5718.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19231.5	0.0	19231.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	24950.0	0.0	24950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.0
10°-20°	863.3	3.5
20°-30°	1439.5	5.8
30°-40°	2042.8	8.2
40°-50°	3004.8	12.0
50°-60°	5088.6	20.4
60°-70°	7223.2	29.0
70°-80°	4388.2	17.6
80°-90°	640.4	2.6
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°	24950.0	100.0
0°-180°	24950.0	100.0

Coefficient of Utilization



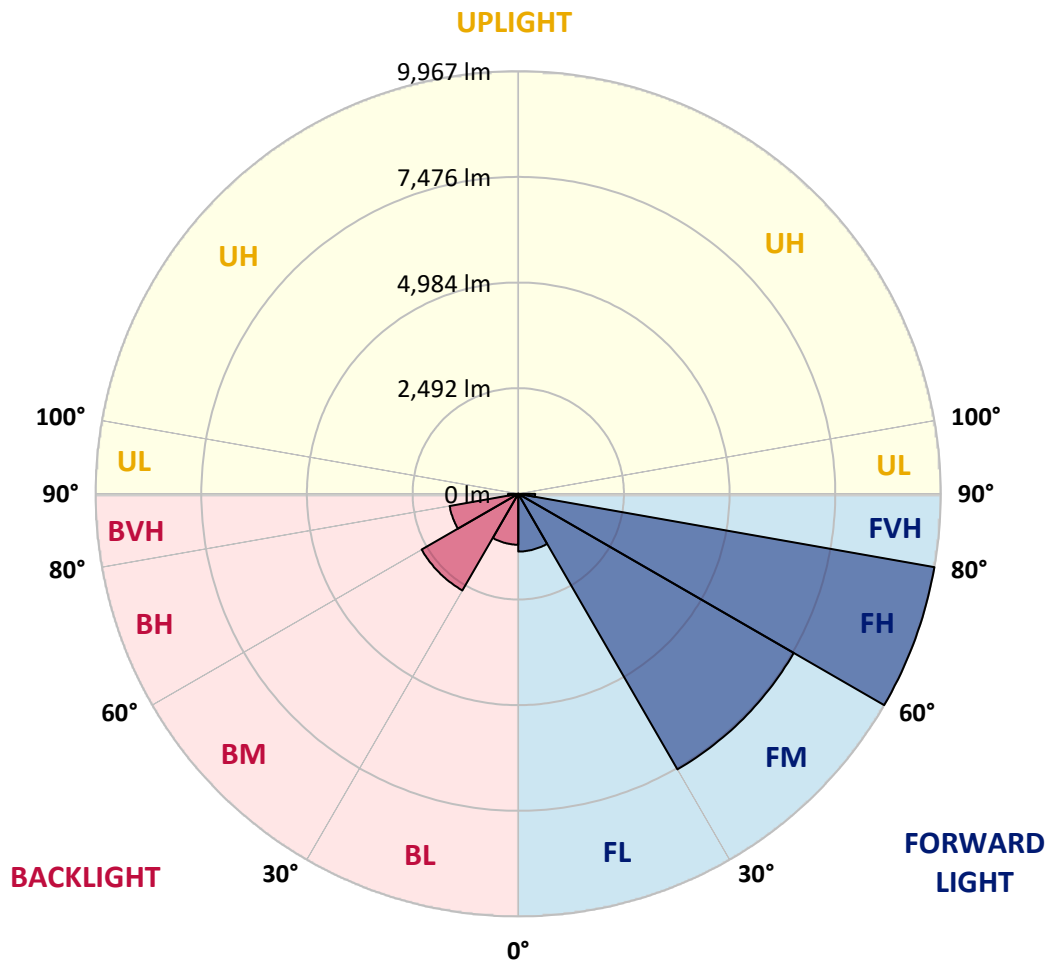
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.4	5.5			
FM (30°-60°)	7503.8	30.1			
FH (60°-80°)	9967.4	39.9			G4/12000
FVH (80°-90°)	398.9	1.6			G3/500
BL (0°-30°)	1200.6	4.8	B3/2500		
BM (30°-60°)	2632.4	10.6	B3/5000		
BH (60°-80°)	1644.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	241.5	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9
2.5°	2669.1	2670.8	2674.3	2665.7	2641.8	2635.0	2632.4	2607.7	2591.4	2567.5	2547.0
5°	2882.6	2884.3	2879.2	2855.3	2802.3	2763.1	2759.6	2703.3	2652.1	2597.4	2556.4
7.5°	3105.5	3108.0	3091.8	3046.5	2972.3	2903.9	2899.7	2822.8	2745.1	2662.3	2600.8
10°	3302.7	3292.5	3266.0	3202.8	3114.9	3031.2	3027.8	2947.5	2857.8	2757.9	2676.0
12.5°	3434.2	3425.7	3391.5	3314.7	3218.2	3141.3	3134.5	3060.2	2973.1	2863.8	2765.6
15°	3506.8	3512.7	3466.6	3379.5	3285.6	3220.7	3214.8	3161.8	3084.1	2974.0	2861.3
17.5°	3516.2	3521.3	3476.9	3390.6	3313.8	3269.4	3266.8	3231.8	3175.5	3069.6	2951.8
20°	3461.5	3464.9	3428.2	3357.3	3307.0	3293.3	3292.5	3277.1	3235.2	3141.3	3026.9
22.5°	3382.1	3384.7	3358.2	3307.0	3289.9	3311.2	3317.2	3311.2	3281.4	3193.4	3085.8
25°	3362.5	3360.8	3333.4	3281.4	3295.9	3341.1	3348.8	3351.4	3330.9	3254.0	3161.0
27.5°	3457.2	3451.3	3399.2	3315.5	3324.9	3379.5	3389.8	3414.6	3401.7	3334.3	3246.3
30°	3731.3	3721.1	3614.4	3445.3	3399.2	3427.4	3440.2	3479.4	3482.0	3425.7	3359.9
32.5°	4194.1	4181.3	3990.0	3687.8	3524.7	3476.0	3488.0	3546.9	3578.5	3534.9	3464.1
35°	4779.0	4764.5	4513.5	4100.2	3734.7	3569.1	3577.6	3624.6	3687.8	3626.3	3532.4
37.5°	5388.7	5353.7	5112.0	4585.2	4068.6	3768.0	3768.0	3774.0	3803.9	3675.8	3612.6
40°	5994.9	5959.9	5741.3	5155.6	4500.7	4081.4	4061.8	3929.4	3905.5	3795.4	3774.0
42.5°	6558.4	6548.2	6419.3	5800.2	5007.8	4389.7	4362.3	4137.8	4142.9	4074.6	4075.4
45°	7157.8	7157.8	7052.8	6450.8	5598.7	4884.9	4857.6	4527.1	4578.4	4546.8	4622.8
47.5°	7647.1	7662.5	7648.0	7128.8	6286.1	5514.2	5464.7	5066.8	5210.2	5318.6	5539.8
50°	8146.6	8170.5	8173.1	7872.5	7116.9	6262.1	6205.8	5783.1	6103.3	6414.1	6848.7
52.5°	8871.5	8925.3	8711.0	8614.5	8134.6	7150.2	7094.7	6704.4	7239.0	7675.3	8424.1
55°	9543.5	9496.5	9343.7	9403.5	9224.2	8161.1	8119.3	7776.9	8504.4	9071.3	10043.9
57.5°	9907.2	9903.8	10057.5	10313.7	10399.1	9407.7	9372.7	9039.7	9931.1	10357.2	11564.6
60°	10334.2	10340.1	10721.0	11302.4	11654.2	10960.0	10944.7	10691.9	11317.0	11557.7	12757.4
62.5°	10393.9	10501.5	11157.3	12158.0	12829.1	12773.6	12807.8	12180.2	12556.7	12515.8	13648.0
65°	9706.6	9848.3	11035.2	12416.7	13997.2	14757.1	14788.7	13677.0	13534.4	13334.6	13966.5
67.5°	8297.7	8507.8	9797.1	11854.0	14382.3	16223.2	16267.6	14837.4	14345.6	13612.1	13199.7
70°	6038.4	6271.5	7569.4	10124.1	13695.8	16691.9	16742.3	15350.5	14376.3	12822.3	11268.3
72.5°	3647.7	3830.4	4900.3	7453.3	11559.4	15838.1	15927.8	14699.9	13125.4	10861.0	8320.8
75°	1601.8	1721.4	2369.4	4294.9	8275.5	13104.1	13215.9	12582.4	10664.6	7893.0	4918.2
77.5°	682.2	716.4	971.7	1865.7	4678.3	8954.3	9108.0	9193.4	7235.5	4294.9	2078.3
80°	425.2	438.9	549.9	844.5	2189.3	5029.2	5194.8	5409.2	3593.0	1578.8	725.8
82.5°	258.7	274.1	365.4	510.6	1139.9	2279.8	2359.2	2510.3	1394.3	682.2	375.7
85°	155.4	166.5	223.7	322.8	648.9	896.5	895.7	990.5	656.6	438.9	198.1
87.5°	74.3	82.8	119.5	167.4	327.0	336.4	315.1	356.9	398.7	287.7	99.9
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°	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9
2.5°	2540.2	2536.8	2525.7	2517.2	2515.4	2510.3	2506.1	2508.6	2512.0	2512.9	2512.9
5°	2539.4	2530.0	2515.4	2509.5	2517.2	2527.4	2540.2	2557.3	2567.5	2575.2	2580.3
7.5°	2580.3	2562.4	2546.2	2542.8	2558.1	2585.5	2614.5	2650.4	2675.1	2692.2	2695.6
10°	2648.6	2626.4	2610.2	2613.6	2641.0	2680.2	2721.2	2767.3	2804.9	2828.0	2829.7
12.5°	2727.2	2705.9	2690.5	2705.0	2750.3	2798.1	2840.8	2880.9	2915.0	2938.1	2938.1
15°	2817.7	2802.3	2784.4	2817.7	2879.2	2921.9	2939.8	2959.5	2978.2	2995.3	2991.9
17.5°	2904.8	2890.3	2880.9	2920.2	2984.2	3003.9	2991.9	2977.4	2977.4	2986.8	2988.5
20°	2979.9	2967.1	2973.1	3011.5	3044.8	3024.3	2979.9	2933.8	2915.0	2920.2	2925.3
22.5°	3045.7	3039.7	3057.6	3075.6	3051.7	2979.9	2898.0	2835.6	2812.6	2810.9	2812.6
25°	3122.5	3121.7	3143.9	3111.4	3005.6	2873.2	2763.1	2702.4	2689.6	2699.9	2717.0
27.5°	3218.2	3227.6	3238.7	3120.0	2911.6	2711.8	2600.0	2558.1	2570.9	2595.7	2611.9
30°	3340.3	3365.9	3342.0	3098.6	2776.7	2527.4	2420.7	2408.7	2443.7	2478.7	2495.8
32.5°	3459.0	3499.1	3441.0	3043.1	2602.5	2331.9	2249.0	2245.6	2288.3	2322.5	2346.4
35°	3554.6	3634.0	3515.3	2933.0	2401.0	2151.7	2091.1	2068.0	2083.4	2123.5	2150.9
37.5°	3679.2	3811.6	3566.5	2764.8	2182.4	2003.1	1932.3	1879.3	1865.7	1881.9	1895.6
40°	3907.2	4082.3	3590.4	2530.0	1969.0	1854.6	1782.8	1705.1	1651.3	1612.1	1612.9
42.5°	4279.5	4434.9	3575.1	2244.8	1771.7	1709.4	1628.3	1538.6	1451.5	1362.7	1355.9
45°	4884.0	4959.2	3529.0	1942.5	1598.4	1557.4	1481.4	1391.8	1275.7	1174.9	1165.5
47.5°	5851.4	5684.9	3457.2	1678.7	1445.6	1428.5	1358.5	1255.2	1132.2	1051.1	1044.3
50°	7170.6	6732.6	3422.2	1468.6	1310.7	1315.8	1258.6	1149.3	1033.2	973.4	966.6
52.5°	8748.6	7952.8	3489.7	1306.4	1202.2	1220.2	1177.5	1075.0	977.7	930.7	923.9
55°	10385.4	9216.5	3562.3	1188.6	1099.8	1134.8	1120.3	1035.7	947.8	904.2	898.3
57.5°	11786.6	10160.0	3417.1	1092.9	1008.4	1063.0	1075.9	1011.0	932.4	893.1	886.3
60°	12668.6	10539.9	3036.3	1003.3	935.8	1005.8	1050.2	1004.1	938.4	935.0	929.8
62.5°	13087.0	10506.6	2465.1	932.4	890.6	981.1	1069.0	1042.6	1006.7	1037.4	1040.0
65°	12899.1	10004.6	1835.8	885.4	858.1	990.5	1125.4	1115.1	1026.3	1057.1	1061.3
67.5°	11662.8	8806.6	1359.3	844.5	822.3	1016.9	1227.8	1139.0	987.9	1010.1	996.4
70°	9426.5	6981.9	1048.5	798.4	785.5	1013.5	1273.9	1124.5	946.1	951.2	914.5
72.5°	6500.4	4761.1	853.0	755.7	732.6	923.9	1241.5	1088.7	911.1	871.8	823.1
75°	3534.9	2555.6	724.9	711.3	639.5	811.2	1181.7	1063.0	879.5	827.4	800.1
77.5°	1390.9	1060.5	629.3	650.6	559.3	716.4	1115.1	1014.4	835.9	767.6	754.0
80°	567.8	541.3	521.7	562.7	480.7	626.7	1034.9	957.2	783.8	712.1	684.8
82.5°	321.9	336.4	405.6	444.0	390.2	577.2	996.4	911.1	721.5	637.8	605.4
85°	164.8	197.2	282.6	318.5	286.9	491.0	917.9	797.5	578.9	488.4	491.0
87.5°	79.4	110.1	178.5	199.8	186.1	355.2	685.6	578.1	450.8	356.9	345.8
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)