

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: P651980

Luminaire Tested: **GALN-SA6A-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22755.8 lumens
Efficiency: N/A
Efficacy: 125.0 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): 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

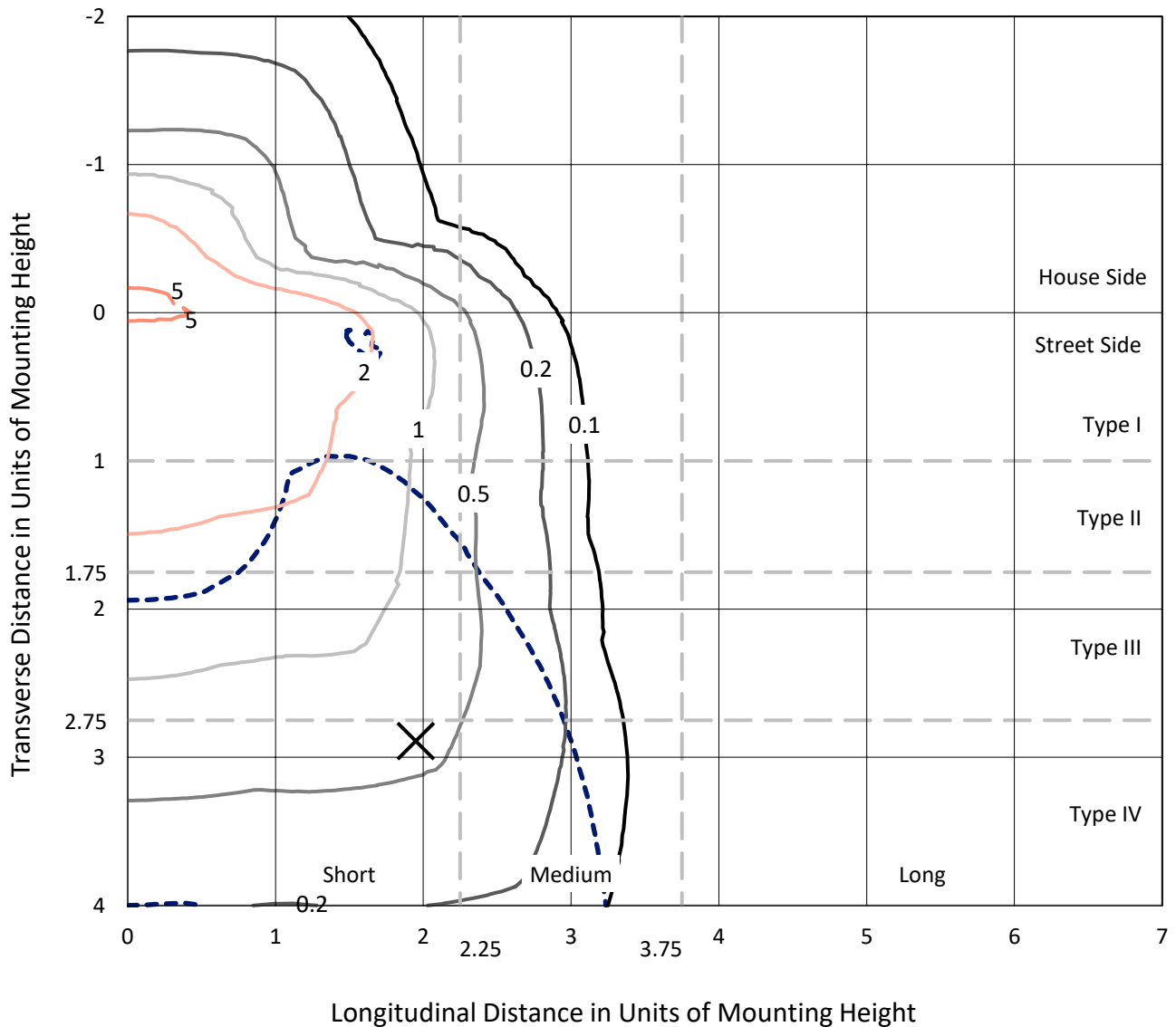




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Iso-Footcandle Lines of Horizontal Illumination

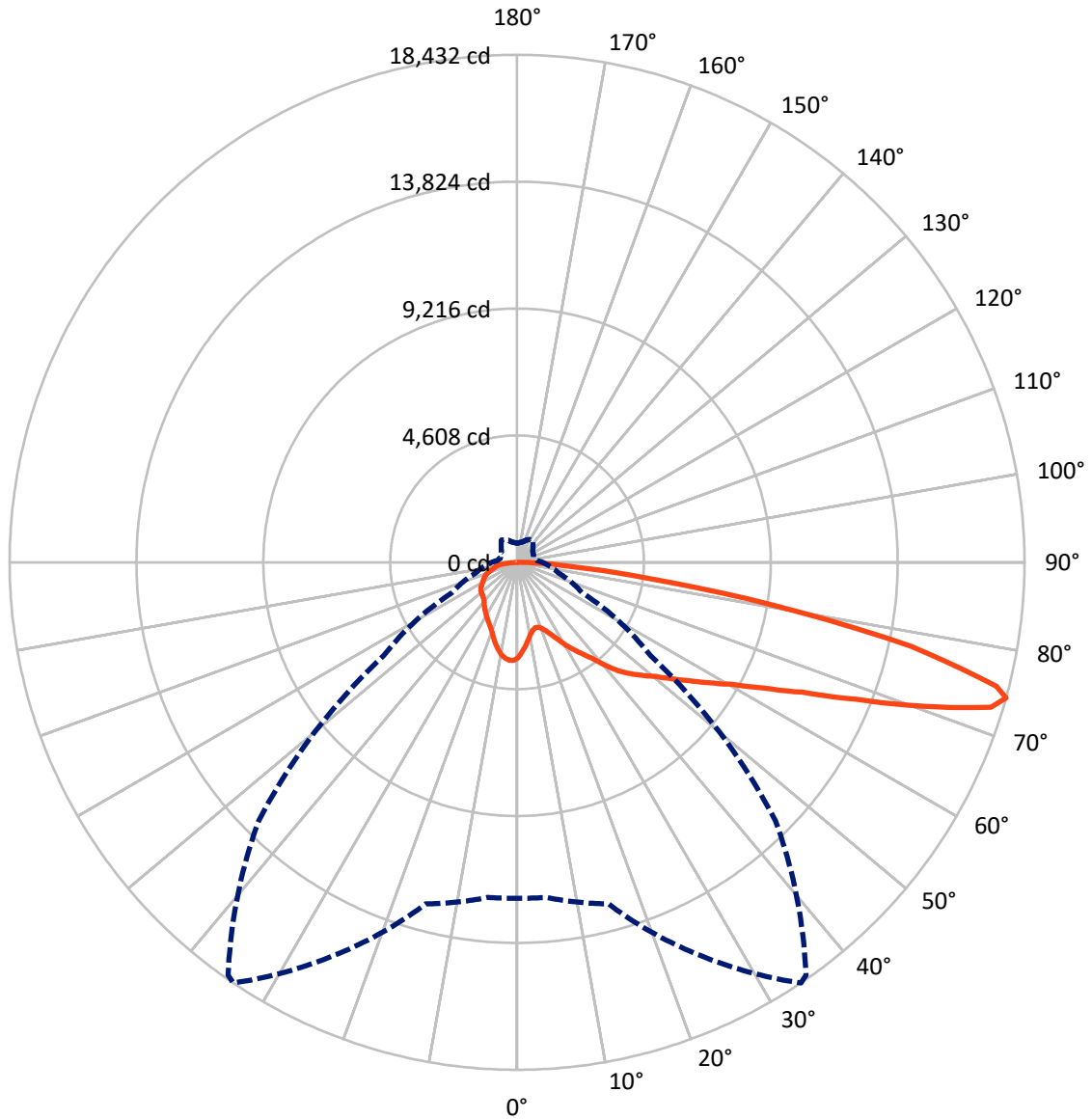
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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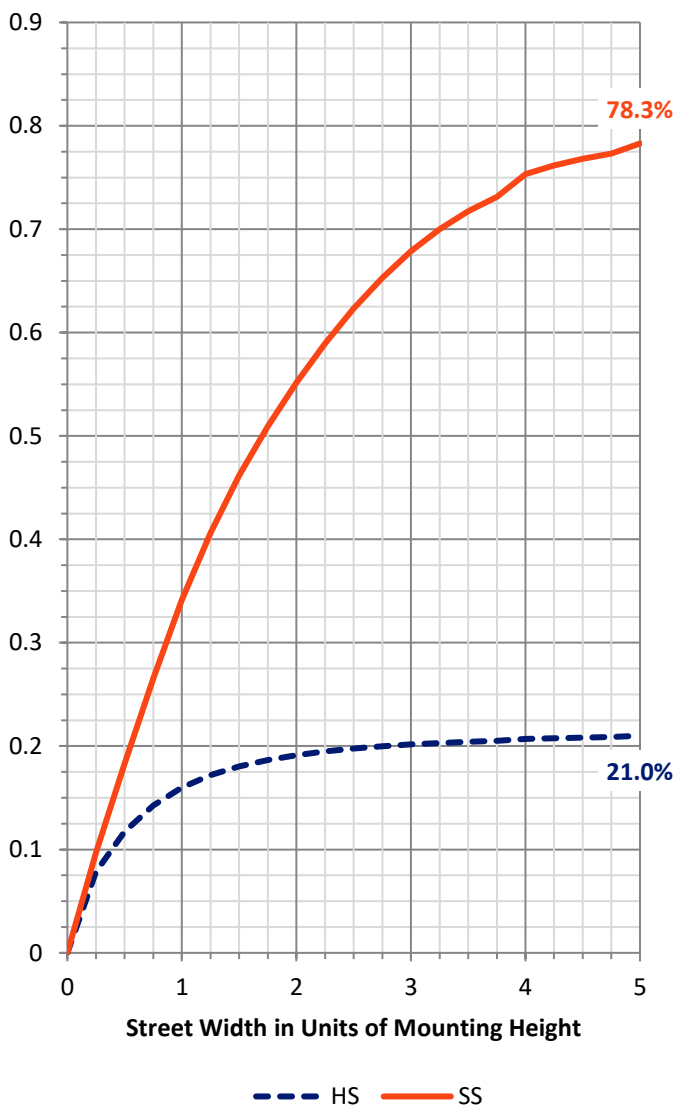
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4842.6	0.0	4842.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17913.2	0.0	17913.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	22755.8	0.0	22755.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	1.4
10°-20°	865.0	3.8
20°-30°	1426.1	6.3
30°-40°	2136.2	9.4
40°-50°	3105.4	13.6
50°-60°	4337.5	19.1
60°-70°	5430.3	23.9
70°-80°	4490.5	19.7
80°-90°	648.8	2.9
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°	22755.8	100.0
0°-180°	22755.8	100.0

Coefficient of Utilization

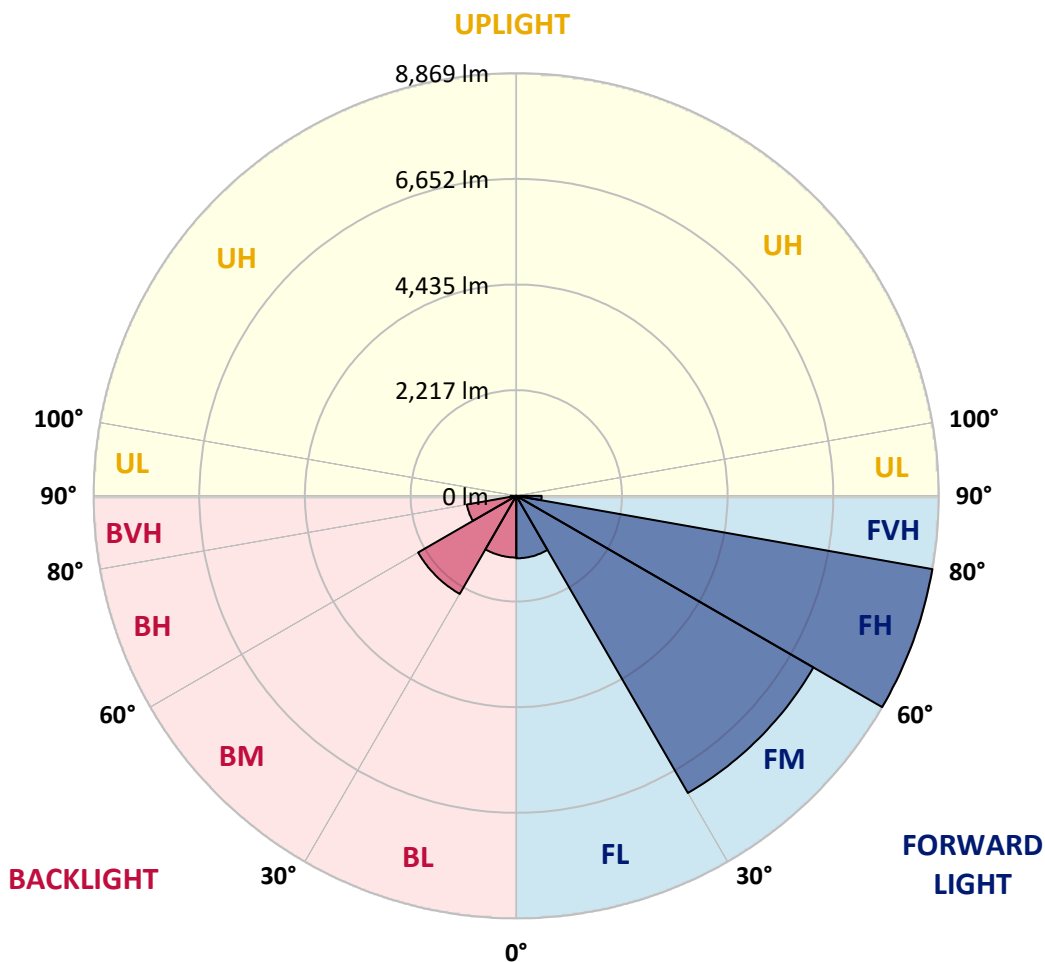


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.8	5.8			
FM (30°-60°)	7200.9	31.6			
FH (60°-80°)	8869.0	39.0			G4/12000
FVH (80°-90°)	531.6	2.3			G4/750
BL (0°-30°)	1295.3	5.7	B3/2500		
BM (30°-60°)	2378.2	10.5	B2/2500		
BH (60°-80°)	1051.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	117.3	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3
2.5°	3210.9	3227.3	3236.1	3267.6	3275.2	3285.3	3311.8	3347.0	3392.4	3432.8	3468.0
5°	2943.6	2968.8	2984.0	3011.7	3065.9	3070.9	3141.6	3222.2	3314.2	3400.0	3470.6
7.5°	2690.2	2717.9	2730.6	2781.0	2852.8	2864.2	2967.6	3094.9	3248.7	3378.5	3487.0
10°	2499.9	2513.7	2541.5	2579.3	2665.0	2672.6	2807.5	2977.6	3176.9	3368.5	3514.7
12.5°	2396.5	2404.1	2410.4	2450.7	2535.2	2546.5	2687.8	2880.6	3120.1	3376.0	3560.1
15°	2411.7	2414.2	2386.4	2394.0	2462.0	2478.4	2618.4	2816.3	3084.8	3394.9	3628.2
17.5°	2539.0	2530.1	2462.0	2426.8	2474.6	2482.2	2604.5	2791.1	3068.4	3430.3	3698.7
20°	2739.4	2726.8	2609.5	2531.4	2559.2	2565.4	2649.9	2810.0	3084.8	3488.2	3808.5
22.5°	2989.0	2984.0	2806.2	2711.6	2710.4	2710.4	2754.5	2878.1	3134.0	3567.6	3923.2
25°	3338.2	3311.8	3079.7	2957.5	2923.5	2921.0	2915.9	2990.3	3197.0	3652.1	4059.3
27.5°	3696.2	3650.9	3444.1	3256.3	3183.2	3174.4	3141.6	3149.1	3277.7	3747.9	4214.3
30°	4017.7	3988.7	3794.6	3586.5	3499.6	3479.4	3388.6	3347.0	3412.6	3920.7	4461.4
32.5°	4263.5	4245.9	4094.6	3905.5	3776.9	3773.1	3640.8	3606.7	3623.1	4129.9	4743.8
35°	4462.7	4469.0	4392.1	4228.2	4080.7	4059.3	3971.0	3928.2	3880.3	4432.5	5099.3
37.5°	4735.0	4748.9	4743.8	4602.6	4422.4	4427.4	4407.3	4336.6	4209.3	4770.3	5493.9
40°	5035.1	5045.2	5043.9	4989.7	4895.1	4900.2	4892.6	4811.9	4621.5	5200.2	5932.7
42.5°	5449.8	5401.9	5277.1	5331.3	5386.8	5410.7	5462.4	5385.5	5124.5	5659.1	6344.8
45°	5913.7	5822.9	5540.6	5565.7	5771.3	5816.6	6101.5	5995.7	5670.4	6186.1	6830.2
47.5°	6206.2	6116.7	5878.4	5873.4	6145.7	6189.8	6694.0	6655.0	6167.1	6754.6	7422.8
50°	6467.1	6454.5	6186.1	6250.3	6516.3	6581.8	7339.5	7303.0	6662.6	7425.3	8068.1
52.5°	6854.2	6752.1	6537.8	6670.1	7021.8	7107.5	7979.9	7872.8	7117.6	8017.8	8694.7
55°	7028.2	7004.2	6991.6	7106.3	7589.1	7650.9	8602.7	8356.8	7505.9	8519.5	9171.3
57.5°	7493.3	7449.2	7574.0	7652.2	8257.3	8351.8	9253.2	8862.4	7846.3	8917.9	9403.2
60°	8095.9	8071.9	8186.7	8327.8	9003.6	9147.3	9994.4	9293.6	8119.9	9118.3	9275.9
62.5°	8996.0	8993.5	8972.0	9274.6	10061.3	10193.6	10845.4	9713.3	8162.7	8968.3	8617.8
65°	10286.9	10241.5	10055.0	10385.3	11377.4	11532.5	11731.6	9947.8	7904.3	8198.0	7256.3
67.5°	11637.1	11634.6	11483.3	11911.9	13267.1	13427.2	12839.7	9896.1	7187.0	6641.1	5153.6
70°	12756.5	12702.3	12895.2	14037.4	15681.3	15866.6	13809.2	9287.2	5724.6	4385.8	3062.2
72.5°	13025.1	13027.6	13428.5	15676.2	17999.6	18028.6	14158.4	7527.4	3831.1	2419.2	1531.7
74°	12198.0	12219.5	12841.0	15758.2	18432.0	18300.9	13265.8	5916.3	2590.6	1579.6	1104.3
75°	11134.1	10999.2	11898.0	15212.3	17983.2	17842.0	12220.7	4747.6	1976.7	1261.9	966.9
77.5°	5952.8	6090.2	7476.9	11352.2	14609.7	14447.0	8286.3	2276.8	1067.7	878.7	695.8
80°	2119.2	2337.2	3285.3	5940.2	9366.6	9417.1	3954.6	1043.8	751.3	648.0	491.6
82.5°	864.8	888.8	1410.7	2636.0	4756.4	4801.9	1614.9	620.2	537.1	446.2	293.8
85°	337.8	347.9	624.0	1185.1	2029.7	2162.0	558.5	327.7	330.3	255.9	150.0
87.5°	113.5	128.6	255.9	394.6	689.5	675.7	162.6	97.1	118.5	110.9	46.7
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°	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3
2.5°	3485.7	3509.7	3526.1	3543.7	3560.1	3565.1	3561.4	3572.7	3573.9	3575.2	3576.4
5°	3505.9	3538.7	3570.1	3587.8	3595.4	3589.1	3567.6	3556.3	3546.2	3538.7	3541.2
7.5°	3533.6	3580.2	3609.2	3616.8	3596.6	3567.6	3514.7	3473.1	3446.6	3429.0	3427.7
10°	3576.4	3621.9	3645.8	3624.4	3568.9	3498.3	3415.1	3336.9	3277.7	3260.1	3258.8
12.5°	3630.7	3682.4	3681.1	3618.1	3521.0	3394.9	3260.1	3169.3	3088.6	3048.3	3064.6
15°	3701.2	3740.3	3703.8	3590.3	3436.6	3263.8	3097.4	2973.9	2883.1	2840.2	2842.7
17.5°	3783.2	3817.2	3720.2	3541.2	3318.0	3096.1	2903.3	2786.1	2714.2	2682.7	2680.2
20°	3885.3	3895.4	3720.2	3455.4	3165.5	2900.8	2716.7	2634.8	2594.4	2578.0	2583.0
22.5°	3995.0	3974.8	3700.0	3334.4	2965.0	2696.5	2573.0	2536.5	2516.3	2513.7	2516.3
25°	4118.5	4061.9	3658.4	3170.6	2755.8	2520.1	2448.2	2454.5	2458.2	2458.2	2467.1
27.5°	4269.8	4156.4	3589.1	2963.8	2511.2	2356.1	2336.0	2380.1	2400.3	2404.1	2410.4
30°	4469.0	4259.7	3474.3	2705.3	2303.2	2208.6	2244.0	2303.2	2325.9	2339.7	2337.2
32.5°	4706.0	4373.2	3319.3	2446.9	2135.6	2105.3	2148.2	2208.6	2233.9	2241.4	2231.3
35°	4984.6	4501.8	3115.1	2204.8	1989.3	2007.0	2057.4	2076.3	2099.0	2099.0	2104.0
37.5°	5284.7	4605.1	2865.5	1983.0	1875.9	1940.1	1976.7	1959.0	1948.9	1936.4	1942.6
40°	5589.7	4682.1	2541.5	1763.7	1762.4	1870.8	1880.9	1830.4	1790.2	1777.5	1771.2
42.5°	5855.7	4730.0	2249.0	1593.4	1655.3	1802.8	1810.3	1729.6	1665.3	1627.5	1614.9
45°	6169.7	4785.5	1962.8	1452.2	1555.7	1748.5	1767.4	1659.0	1564.4	1485.0	1464.9
47.5°	6599.5	4911.5	1737.2	1342.6	1483.8	1714.5	1741.0	1601.0	1476.2	1372.8	1356.4
50°	7084.8	5084.2	1562.0	1268.2	1428.4	1684.3	1717.0	1541.8	1394.3	1279.6	1267.0
52.5°	7529.9	5177.5	1410.7	1201.4	1374.1	1628.8	1685.5	1498.9	1313.6	1186.3	1175.0
55°	7773.2	5026.2	1261.9	1135.9	1299.8	1556.9	1641.4	1439.6	1235.4	1137.1	1120.7
57.5°	7806.0	4713.6	1127.0	1065.2	1221.6	1468.6	1559.5	1367.8	1185.1	1103.1	1089.2
60°	7552.6	4247.1	1022.4	1007.3	1142.2	1369.1	1467.4	1304.8	1133.3	1065.2	1051.4
62.5°	6922.3	3740.3	949.2	954.3	1061.5	1264.4	1399.3	1244.3	1084.1	1023.7	1011.1
65°	5838.1	3087.3	878.7	900.1	989.6	1182.5	1337.5	1193.8	1035.0	992.1	980.8
67.5°	4055.6	2228.8	820.6	843.4	921.6	1099.3	1265.7	1139.6	979.5	956.8	939.1
70°	2245.2	1371.6	752.6	779.1	850.9	1006.0	1185.1	1057.7	898.9	888.8	863.5
72.5°	1180.0	873.6	675.7	704.7	755.1	886.2	1061.5	968.2	819.4	776.6	743.8
74°	921.6	716.0	624.0	654.3	688.3	815.6	988.3	903.9	762.7	712.2	687.1
75°	803.1	637.9	579.9	619.0	649.3	767.7	931.7	858.5	731.2	683.3	660.6
77.5°	567.3	477.8	474.0	520.7	537.1	673.2	839.6	781.6	651.8	601.3	579.9
80°	398.4	358.0	375.7	404.7	427.4	595.0	779.1	675.7	534.5	475.2	467.7
82.5°	259.7	234.5	268.5	295.0	302.6	438.7	629.1	513.1	389.6	316.4	293.8
85°	119.8	117.2	153.8	150.0	148.8	214.3	373.2	300.1	224.4	167.7	157.6
87.5°	30.3	29.0	37.8	31.5	37.8	32.8	34.1	8.8	1.3	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)