

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: P652462

Luminaire Tested: **GALN-SA6B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24936.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

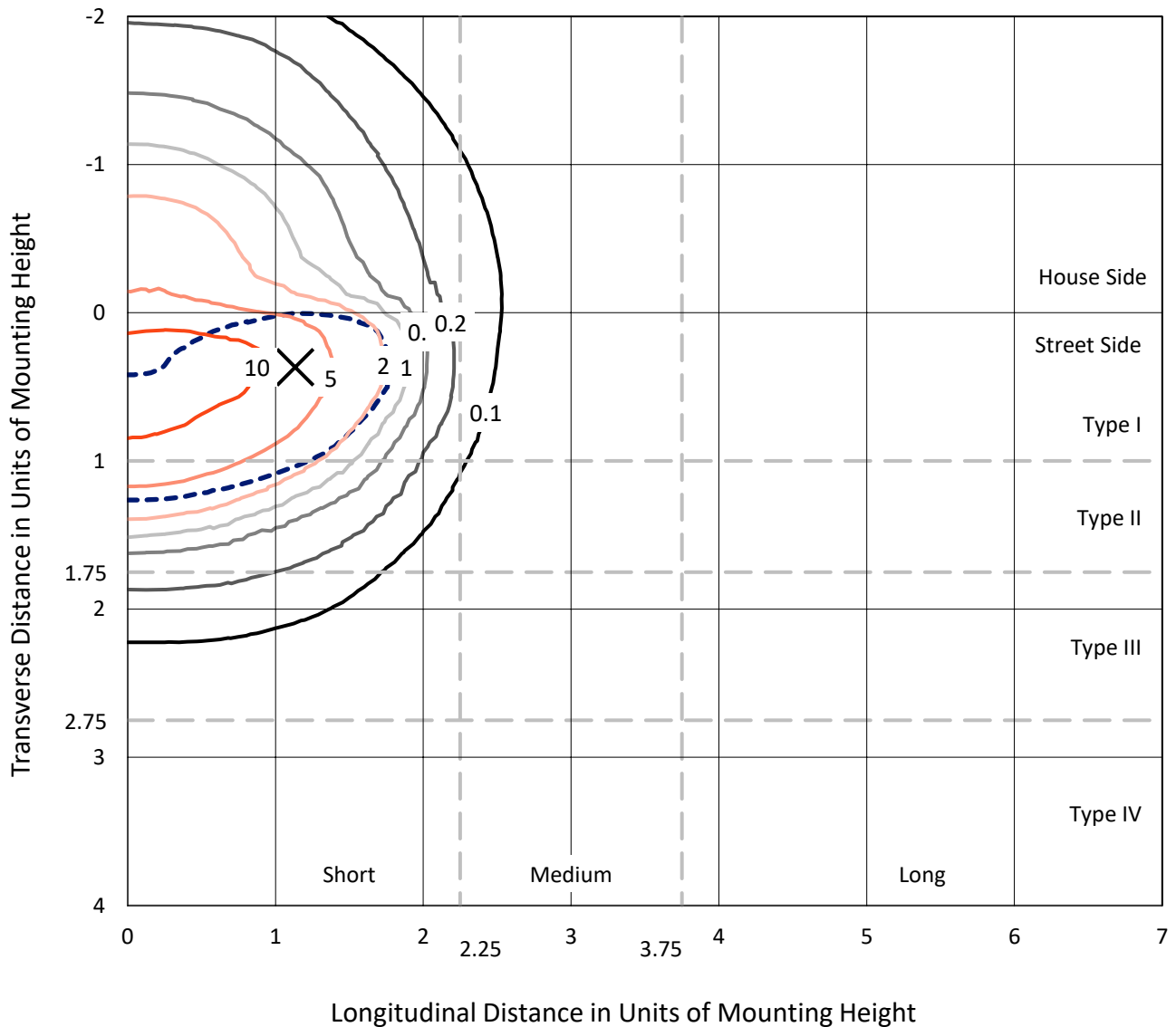
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652462
 CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

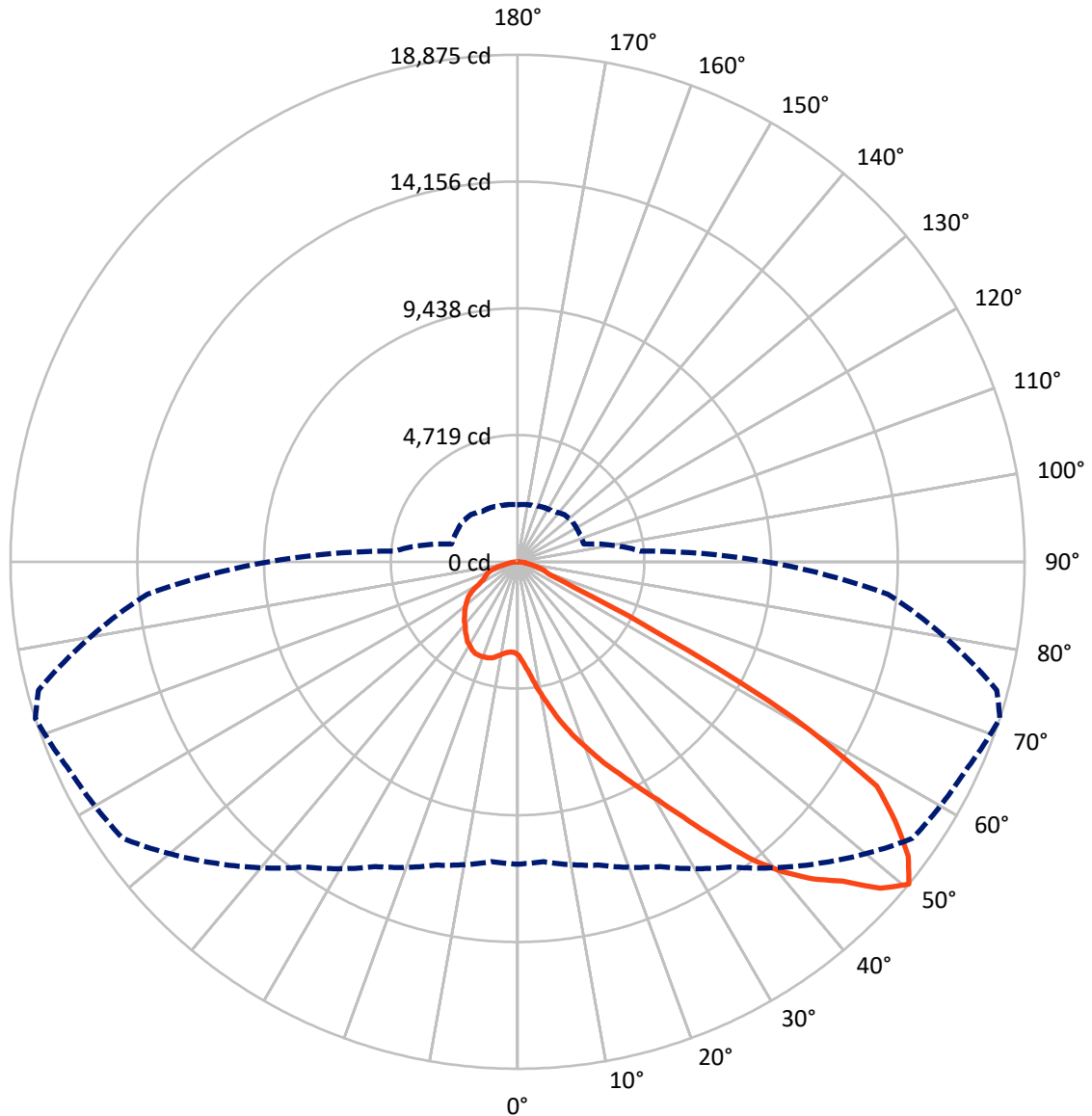
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P652462
CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652462
 CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

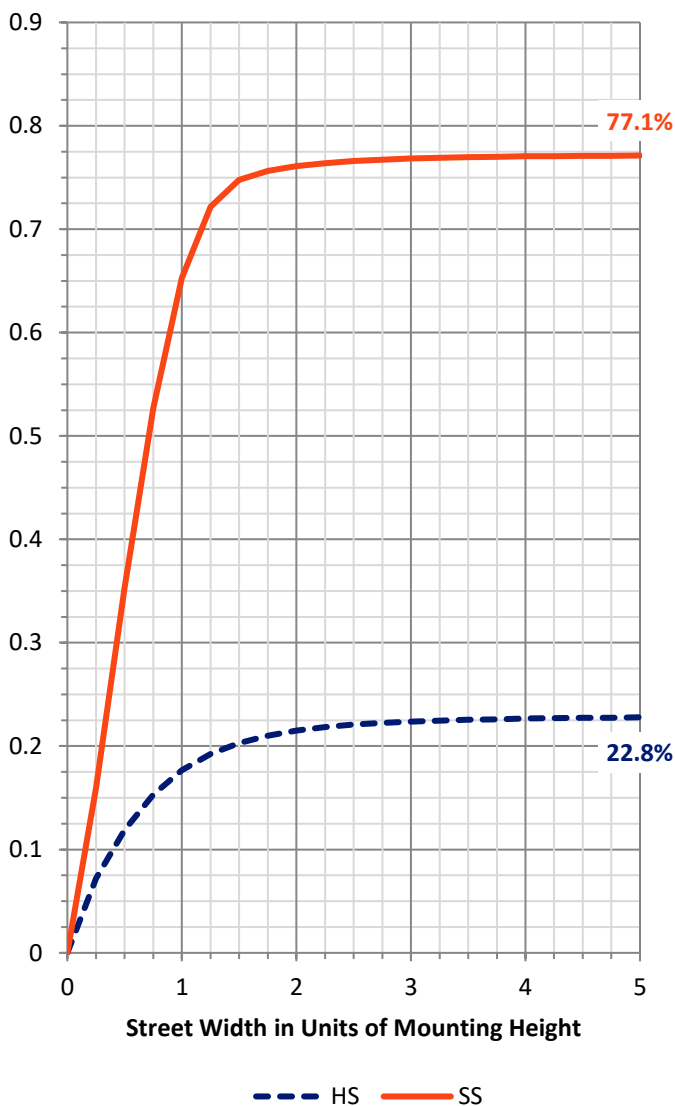
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5713.1	0.0	5713.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19223.4	0.0	19223.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	24936.5	0.0	24936.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	1.6
10°-20°	1526.4	6.1
20°-30°	2959.7	11.9
30°-40°	4903.1	19.7
40°-50°	6860.6	27.5
50°-60°	5787.8	23.2
60°-70°	1764.1	7.1
70°-80°	618.9	2.5
80°-90°	107.6	0.4
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°	24936.5	100.0
0°-180°	24936.5	100.0

Coefficient of Utilization



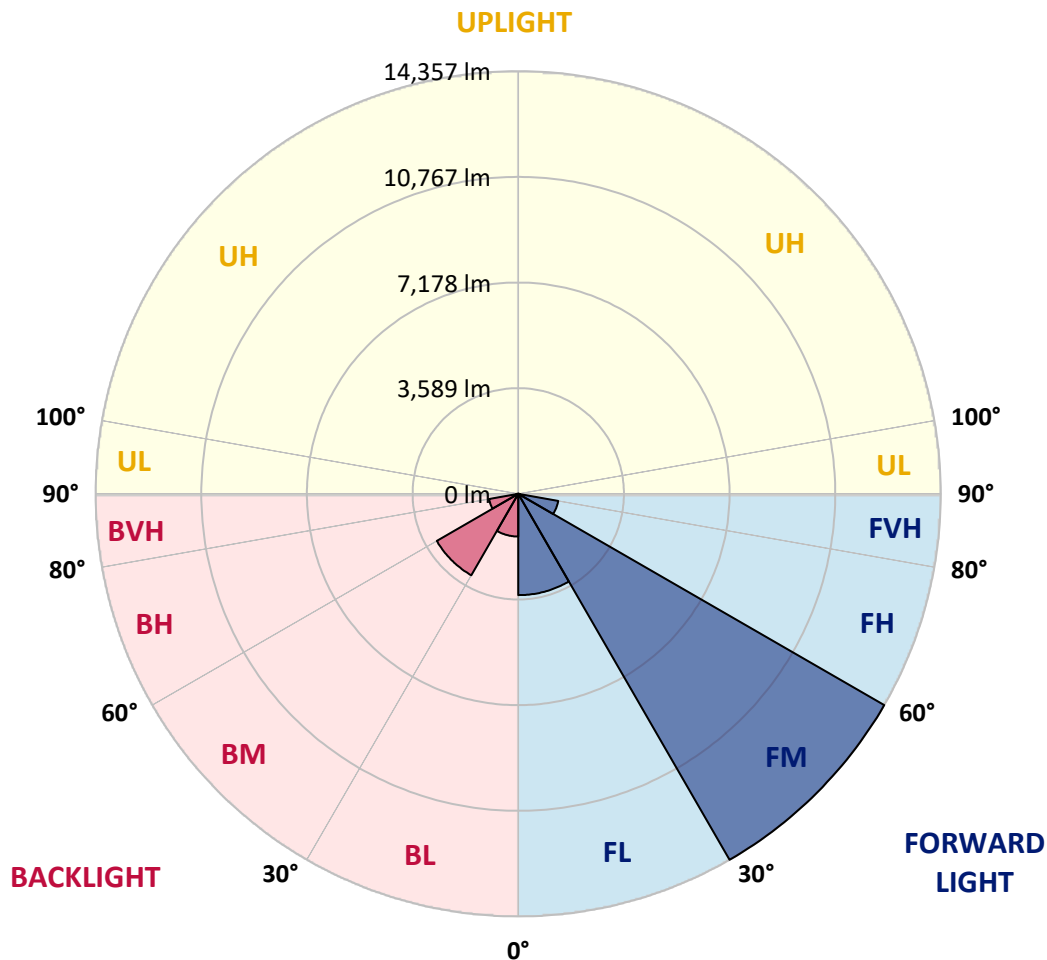
REPORT NUMBER: P652462
 CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3442.1	13.8			
FM (30°-60°)	14356.6	57.6			
FH (60°-80°)	1376.5	5.5			G1/1800
FVH (80°-90°)	48.2	0.2			G1/100
BL (0°-30°)	1452.3	5.8	B3/2500		
BM (30°-60°)	3194.9	12.8	B3/5000		
BH (60°-80°)	1006.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	59.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P652462

CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	4465.0	4437.2	4353.9	4326.1	4227.4	4048.4	3986.7	3804.6	3727.5	3656.5	3573.2
5°	5646.7	5517.1	5507.9	5350.5	5122.2	4989.5	4594.6	4329.2	4085.4	3962.0	3733.6
7.5°	6399.7	6402.8	6402.8	6273.2	6091.1	5754.8	5399.9	4921.6	4554.4	4372.4	3983.6
10°	7115.5	7053.8	7019.9	7007.5	6884.1	6557.0	6177.5	5585.1	5082.1	4869.1	4171.8
12.5°	7621.6	7569.2	7646.3	7606.2	7516.7	7303.7	6945.8	6270.1	5640.6	5353.6	4474.2
15°	7862.3	7899.3	7961.0	8072.1	8032.0	7951.7	7556.8	6973.6	6242.3	5918.3	4742.7
17.5°	8232.5	8130.7	8204.8	8343.6	8454.7	8417.7	8192.4	7482.7	6837.8	6439.8	5103.7
20°	8491.7	8433.1	8470.1	8630.6	8713.9	8923.8	8806.4	8149.2	7408.7	6989.0	5529.5
22.5°	9232.3	9145.9	9025.5	9050.3	9081.1	9229.2	9257.0	8880.5	8072.1	7627.8	5933.8
25°	10145.7	10065.4	9923.5	9778.5	9689.0	9661.2	9756.9	9454.4	8707.7	8247.9	6368.8
27.5°	11151.6	11015.8	10926.4	10627.0	10386.4	10349.3	10303.0	10139.5	9460.7	8963.9	6859.4
30°	12129.7	12021.8	11901.4	11423.1	11173.2	11133.1	10904.7	10951.0	10278.4	9726.0	7414.8
32.5°	12870.3	12879.6	12604.9	12244.0	12009.4	11796.5	11713.2	11845.9	11327.5	10883.1	8035.1
35°	13469.0	13496.7	13234.4	12907.3	12654.3	12802.5	12765.4	12827.1	12580.3	12037.1	8757.1
37.5°	14052.1	13913.3	13632.4	13475.1	13342.4	13586.2	13900.9	13953.4	13999.6	13361.0	9596.4
40°	14147.8	14160.1	13996.6	14107.7	13941.0	14308.2	15039.5	14971.7	15159.9	14601.4	10506.7
42.5°	14012.0	14039.7	14104.6	14261.9	14663.1	15104.4	16190.5	15912.7	16141.1	15644.3	11392.3
45°	13789.8	13675.7	13755.9	14354.5	15048.8	16030.0	17242.7	17026.7	16952.6	16536.1	12447.6
47.5°	12728.4	12845.6	13095.5	13833.0	14876.0	16190.5	17989.4	17940.0	18162.2	17869.1	13407.2
50°	11256.5	11210.2	11691.6	12521.6	13867.0	15875.7	17949.3	18396.7	18875.0	18467.7	13836.1
52.5°	8430.0	8676.8	9090.4	10121.0	12040.3	14160.1	17073.0	17819.7	18208.5	18122.1	13490.6
55°	5328.9	5403.0	5652.9	6878.0	8606.0	11364.5	14635.3	16366.4	17060.6	17384.6	13172.7
57.5°	2588.9	2450.0	2755.5	3739.8	4971.0	7643.2	11287.4	14255.8	15764.6	16351.0	12481.5
60°	1351.5	1404.0	1524.3	1876.1	2570.3	3968.2	7035.3	9500.8	11805.8	12706.8	9460.7
62.5°	1120.1	1138.6	1218.9	1394.7	1709.4	2283.4	3591.7	4631.6	6020.1	6831.7	5381.4
65°	950.4	959.7	1046.0	1163.3	1363.8	1607.7	1848.3	1934.7	2342.0	2403.7	1913.1
67.5°	793.0	802.3	894.8	1005.9	1135.5	1200.4	1262.0	1255.9	1302.1	1283.6	1280.6
70°	611.0	620.2	715.9	833.1	897.9	860.9	1052.2	1095.4	1113.9	1129.4	1154.0
72.5°	441.3	459.8	533.8	617.1	583.1	669.6	867.1	931.9	956.6	965.8	996.7
75°	320.9	327.1	345.6	320.9	370.3	465.9	611.0	691.2	722.1	731.3	777.6
77.5°	142.0	145.0	148.1	185.1	237.6	290.1	364.1	428.9	472.1	484.4	496.8
80°	74.1	77.1	95.6	126.5	169.7	212.9	265.3	302.4	330.2	333.3	345.6
82.5°	46.3	49.4	67.9	89.5	120.3	157.4	194.4	225.2	246.8	249.9	253.1
85°	21.6	27.8	40.1	55.5	80.2	101.8	104.9	89.5	95.6	98.7	92.6
87.5°	6.1	9.3	12.4	9.3	12.4	12.4	15.4	18.5	18.5	18.5	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652462

CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	3526.9	3499.1	3391.2	3351.0	3246.1	3264.6	3209.1	3206.0	3193.7	3190.6	3187.5
5°	3613.3	3526.9	3397.3	3298.6	3240.0	3233.8	3193.7	3193.7	3206.0	3215.2	3193.7
7.5°	3755.2	3656.5	3437.4	3344.8	3292.4	3283.2	3255.3	3233.8	3261.6	3252.3	3227.6
10°	3918.8	3746.0	3514.5	3434.3	3347.9	3326.3	3326.3	3335.6	3289.3	3304.7	3280.1
12.5°	4100.9	3869.4	3613.3	3520.8	3418.9	3406.6	3400.4	3332.5	3357.2	3344.8	3283.2
15°	4332.2	4011.4	3739.8	3582.5	3496.0	3440.5	3360.3	3347.9	3332.5	3301.7	3273.9
17.5°	4582.2	4165.6	3798.5	3601.0	3471.4	3431.3	3369.6	3304.7	3258.5	3264.6	3243.1
20°	4795.1	4307.6	3820.1	3619.5	3452.9	3375.7	3280.1	3240.0	3190.6	3187.5	3184.4
22.5°	5048.2	4498.9	3850.9	3570.1	3397.3	3317.1	3252.3	3181.3	3147.4	3104.2	3125.7
25°	5350.5	4572.9	3857.1	3542.4	3357.2	3215.2	3181.3	3104.2	3091.9	3030.1	3042.5
27.5°	5569.6	4613.1	3807.7	3455.9	3264.6	3156.6	3094.9	3039.4	3017.8	2971.5	2959.1
30°	5862.8	4674.8	3702.8	3347.9	3172.1	3051.7	3014.7	3002.4	2940.6	2891.3	2885.1
32.5°	6196.0	4714.9	3634.9	3236.8	3076.4	2983.9	3002.4	2943.8	2866.5	2823.4	2811.0
35°	6461.4	4730.3	3465.2	3110.4	3011.6	2953.0	2931.4	2919.0	2807.9	2767.8	2737.0
37.5°	6865.6	4696.4	3323.3	3020.9	2940.6	2919.0	2900.5	2817.2	2690.7	2632.1	2588.9
40°	7337.7	4687.1	3141.2	2894.4	2872.8	2897.4	2841.9	2712.3	2536.5	2471.6	2440.8
42.5°	7791.3	4751.9	3027.0	2826.4	2798.7	2807.9	2730.8	2536.5	2450.0	2413.0	2363.6
45°	8550.4	4887.7	2838.8	2721.6	2709.2	2703.1	2610.5	2406.9	2357.4	2311.2	2301.9
47.5°	9235.4	4798.2	2718.4	2613.6	2625.9	2592.0	2394.5	2329.7	2274.1	2227.8	2212.4
50°	9275.5	4585.3	2548.7	2530.2	2533.3	2474.7	2286.5	2243.3	2172.3	2141.4	2119.8
52.5°	9065.6	4236.6	2391.4	2397.5	2406.9	2311.2	2153.8	2122.9	2064.3	2021.1	2008.7
55°	8476.4	3693.5	2237.1	2261.8	2286.5	2104.4	2055.1	1977.9	1931.6	1869.9	1873.0
57.5°	7467.3	2974.6	2021.1	2061.2	2113.7	1913.1	1876.1	1780.4	1712.5	1663.2	1657.0
60°	5005.0	2116.8	1697.1	1712.5	1829.8	1749.5	1746.5	1650.8	1558.3	1515.1	1490.3
62.5°	2953.0	1616.9	1465.7	1450.2	1447.2	1493.4	1570.6	1536.7	1416.3	1333.0	1357.7
65°	1545.9	1397.8	1363.8	1311.4	1280.6	1268.2	1326.8	1342.2	1262.0	1172.5	1166.4
67.5°	1299.1	1299.1	1271.3	1252.8	1209.6	1157.1	1120.1	1070.8	1058.4	1033.7	1002.8
70°	1181.8	1212.6	1203.4	1160.2	1123.2	1064.5	968.9	888.7	811.6	783.7	802.3
72.5°	1030.6	1061.5	1061.5	1039.9	990.5	901.0	808.5	715.9	651.1	601.7	595.5
75°	793.0	808.5	845.5	820.8	756.0	700.5	604.8	509.1	447.4	401.2	391.9
77.5°	506.0	530.8	530.8	527.6	481.4	428.9	367.2	299.3	253.1	219.1	209.8
80°	336.3	351.8	364.1	351.8	320.9	280.8	234.5	188.2	154.3	126.5	120.3
82.5°	246.8	265.3	274.6	262.3	231.4	200.6	166.6	132.7	98.7	77.1	71.0
85°	95.6	98.7	111.1	132.7	129.6	126.5	101.8	74.1	55.5	40.1	37.0
87.5°	24.7	21.6	24.7	24.7	21.6	18.5	18.5	18.5	18.5	9.3	12.4
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)