

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: P646857

Luminaire Tested: **GALN-SA3C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14010.2 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

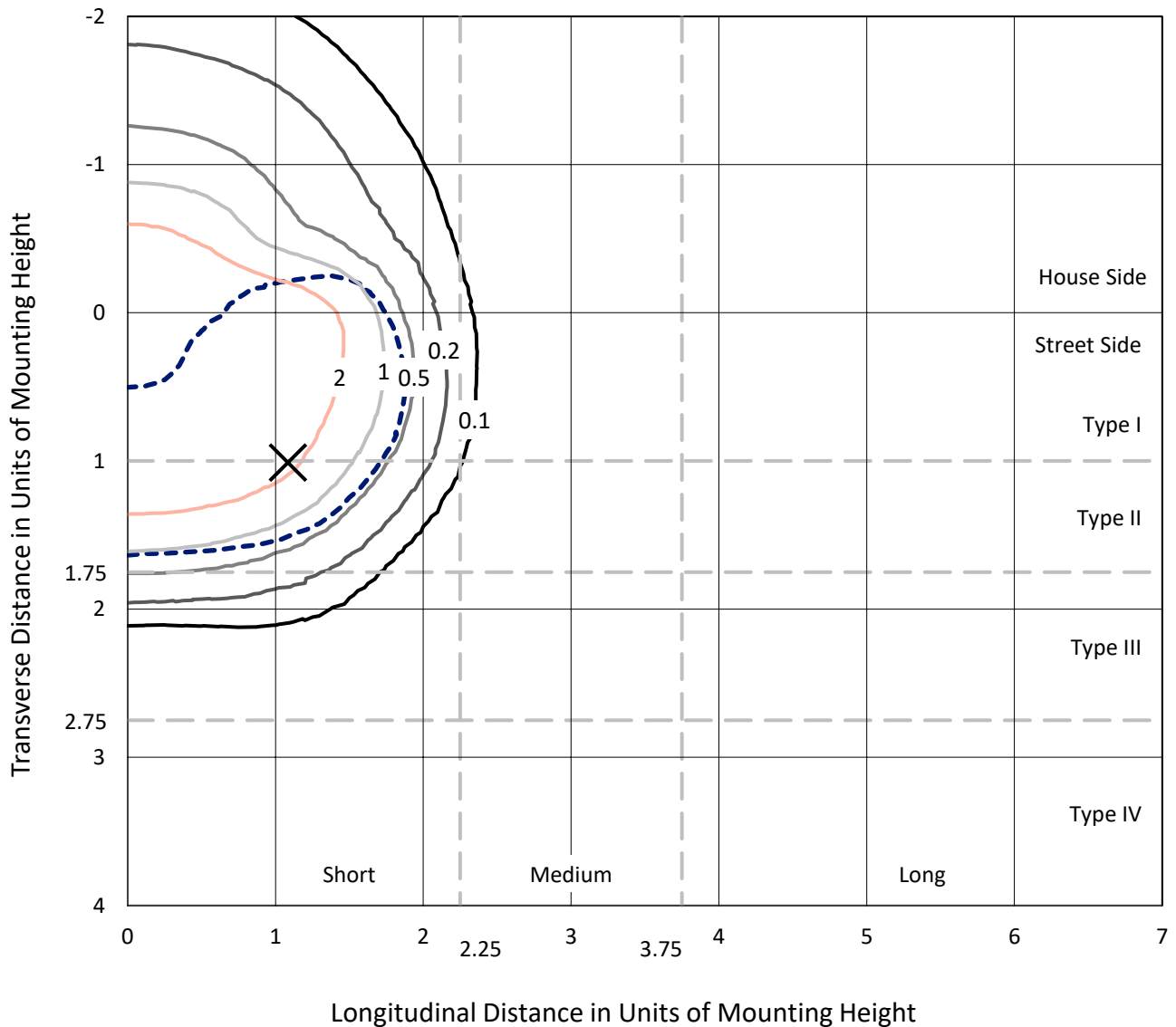
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646857
 CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

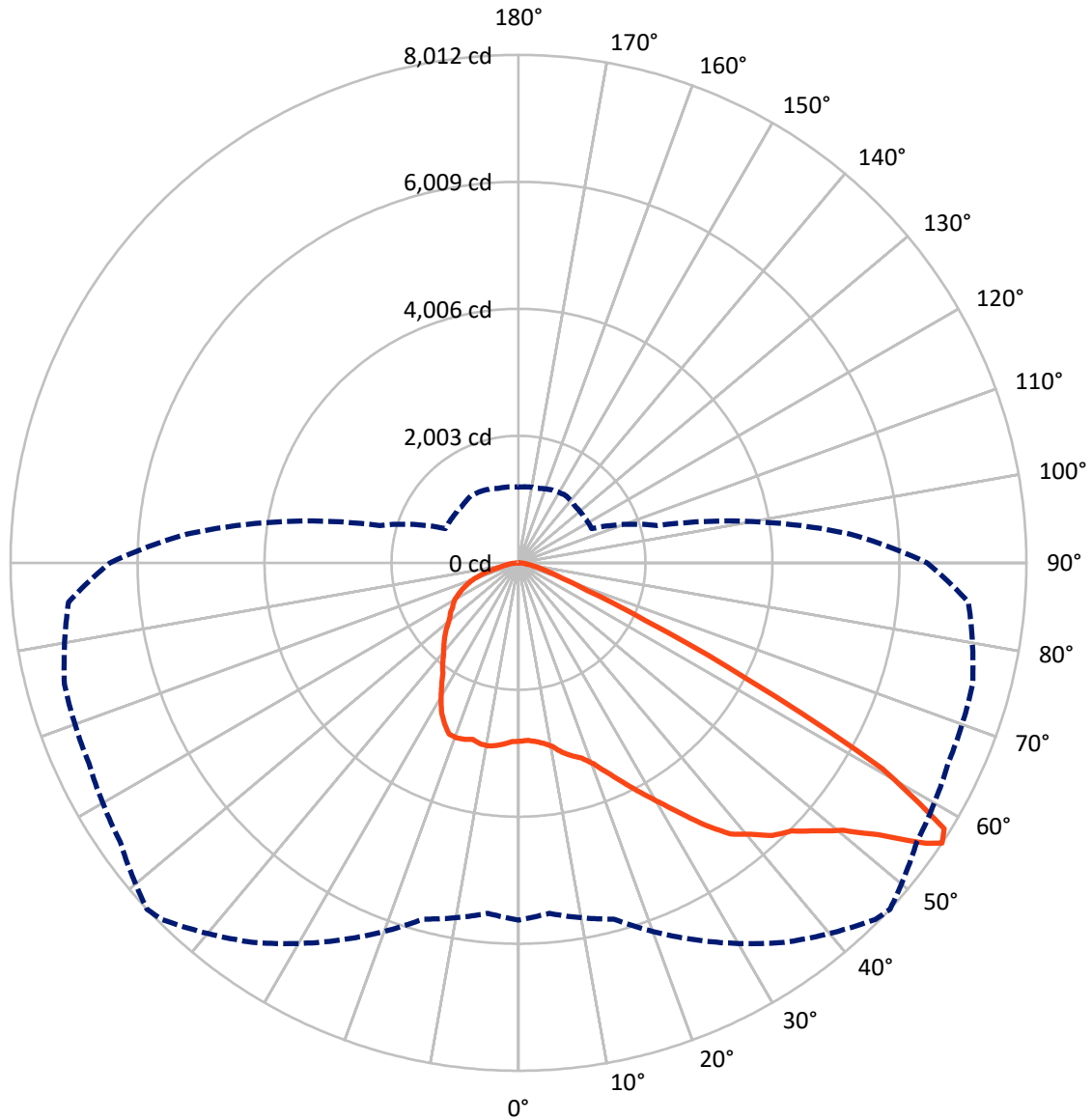
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P646857
CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P646857
 CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

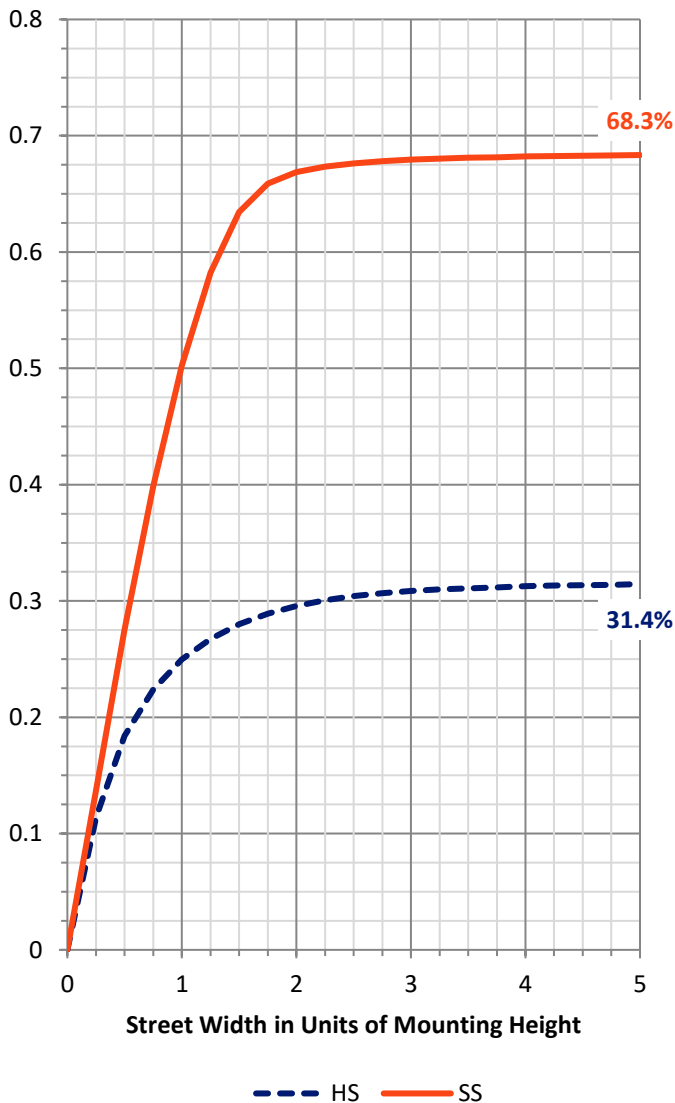
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4439.7	0.0	4439.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9570.5	0.0	9570.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	14010.2	0.0	14010.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	2.0
10°-20°	865.0	6.2
20°-30°	1529.1	10.9
30°-40°	2296.6	16.4
40°-50°	3151.9	22.5
50°-60°	3755.1	26.8
60°-70°	1607.0	11.5
70°-80°	454.8	3.2
80°-90°	76.5	0.5
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°	14010.2	100.0
0°-180°	14010.2	100.0

Coefficient of Utilization

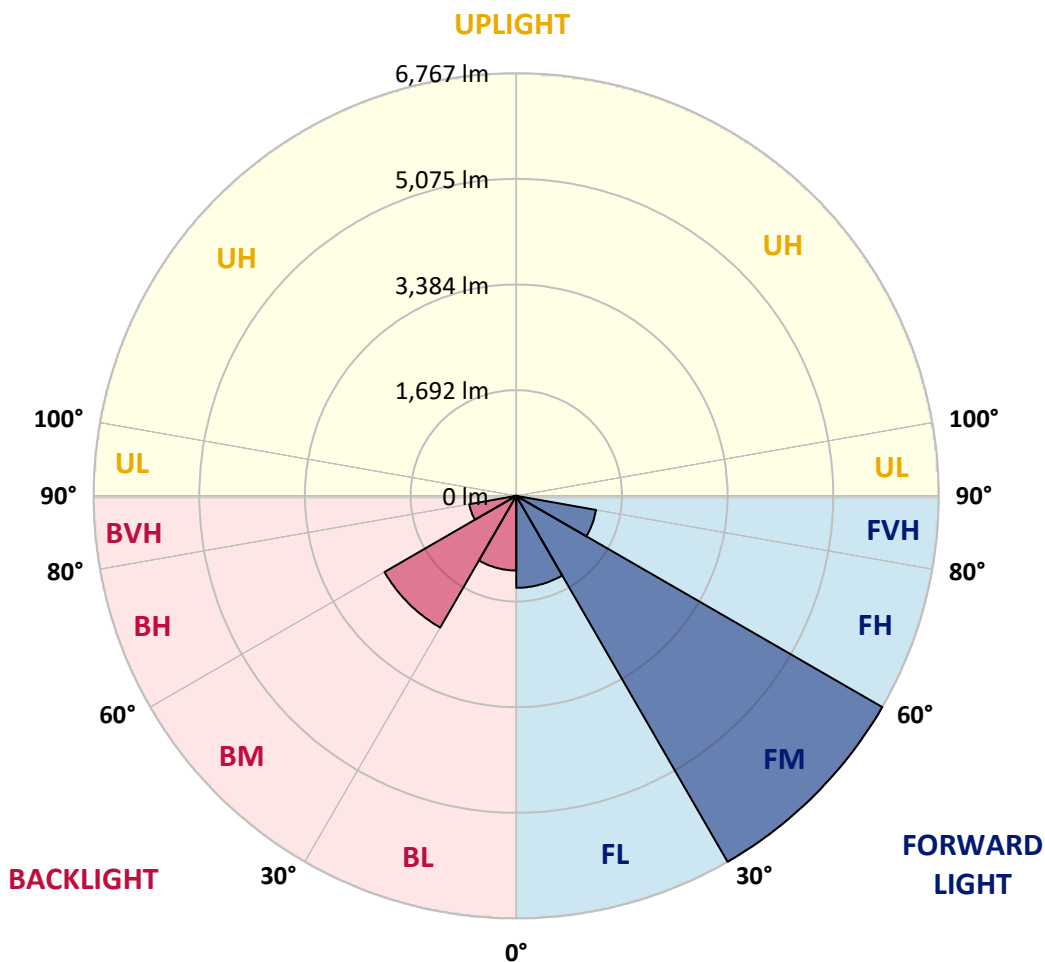


REPORT NUMBER: P646857
 CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.0	10.5			
FM (30°-60°)	6767.3	48.3			
FH (60°-80°)	1297.9	9.3			G1/1800
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	1195.3	8.5	B3/2500		
BM (30°-60°)	2436.4	17.4	B2/2500		
BH (60°-80°)	763.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	44.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P646857

CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3
2.5°	2803.5	2798.1	2794.6	2823.2	2812.5	2814.3	2803.5	2814.3	2821.4	2805.3	2828.5
5°	2798.1	2814.3	2799.9	2808.9	2832.1	2825.0	2832.1	2853.6	2848.2	2842.8	2835.6
7.5°	2848.2	2850.0	2860.7	2864.3	2871.4	2864.3	2874.9	2894.7	2889.3	2858.9	2862.5
10°	2919.7	2923.3	2925.0	2944.6	2957.2	2959.0	2946.4	2928.6	2926.8	2967.9	2939.3
12.5°	3001.9	2992.9	3014.3	3021.5	3035.8	3051.9	3068.0	3030.4	3053.6	3055.4	3021.5
15°	3121.6	3130.5	3105.5	3105.5	3110.9	3112.7	3157.3	3139.4	3135.8	3116.2	3130.5
17.5°	3300.3	3239.5	3237.7	3212.6	3209.1	3223.4	3239.5	3253.8	3302.0	3262.7	3185.9
20°	3430.7	3445.0	3393.1	3362.8	3368.2	3400.3	3384.2	3448.6	3482.5	3418.2	3343.1
22.5°	3661.2	3612.9	3625.4	3557.6	3562.9	3596.9	3595.1	3661.2	3680.8	3579.0	3470.0
25°	3816.7	3804.1	3814.9	3761.2	3768.4	3795.2	3838.0	3947.1	3914.9	3802.3	3550.4
27.5°	4043.6	4018.5	4009.6	3989.9	3982.8	4054.3	4104.3	4220.4	4197.2	4032.8	3693.3
30°	4275.8	4259.8	4268.7	4188.3	4216.8	4368.7	4383.1	4542.1	4531.4	4241.9	3852.4
32.5°	4436.6	4445.6	4461.7	4417.0	4543.8	4665.3	4713.6	4894.1	4903.0	4601.1	4159.7
35°	4695.7	4665.3	4674.3	4726.1	4785.1	5006.7	5085.3	5205.0	5280.0	4978.1	4454.5
37.5°	4858.4	4890.5	4853.0	4935.2	5088.9	5355.1	5426.6	5549.8	5628.4	5349.7	4856.6
40°	5112.1	5060.2	5087.1	5146.0	5303.3	5649.9	5630.2	5757.1	5782.1	5665.9	5231.8
42.5°	5385.5	5360.4	5322.9	5456.9	5589.1	5841.1	5880.4	5821.4	5948.3	5975.1	5767.8
45°	5712.5	5742.8	5748.2	5751.8	5867.9	6087.7	6034.0	5982.3	6128.8	6323.5	6100.2
47.5°	6016.2	5919.7	5989.4	6085.9	6250.3	6252.0	6314.6	6191.3	6346.8	6520.0	6400.3
50°	6118.0	6071.6	6164.5	6346.8	6600.5	6627.3	6634.4	6459.4	6539.7	6677.3	6504.0
52.5°	6078.7	6062.6	6300.3	6582.6	6954.3	7090.1	7125.8	6909.6	6954.3	6891.7	6732.7
55°	5891.1	5939.4	6178.8	6754.2	7324.1	7744.0	7811.9	7538.6	7254.4	7302.7	7127.6
56°	5633.8	5549.8	5817.8	6559.3	7308.1	7956.7	8012.0	7670.8	7477.8	7415.2	7124.0
57.5°	4779.7	4670.8	5022.7	5901.9	6902.5	7876.3	7917.4	7726.2	7440.3	7313.5	6604.1
60°	2798.1	2851.8	3298.5	4070.3	5324.7	6457.6	6595.1	6734.5	6543.3	5975.1	4915.5
62.5°	1350.8	1316.8	1636.7	2333.6	3244.8	4122.2	4081.1	4472.4	4686.8	4245.4	3103.7
65°	707.6	704.0	893.4	1274.0	1783.2	2165.6	2203.1	2414.0	2708.8	2187.1	1575.9
67.5°	520.0	534.2	629.0	895.2	1147.1	1170.4	1165.0	1270.4	1299.0	1098.9	968.4
70°	407.4	414.5	484.2	680.7	854.1	764.8	748.7	761.2	845.2	880.9	838.0
72.5°	294.8	302.0	361.0	459.2	534.2	521.7	532.4	602.1	705.8	743.3	698.7
75°	196.5	201.9	234.0	280.5	316.3	341.3	361.0	441.4	537.8	559.3	537.8
77.5°	135.8	141.2	162.6	198.3	201.9	218.0	225.1	262.7	321.7	348.4	334.1
80°	76.8	76.8	87.5	101.9	125.0	146.5	150.1	180.5	207.3	225.1	228.7
82.5°	35.7	37.5	46.4	62.6	82.2	101.9	105.4	125.0	144.7	162.6	168.0
85°	17.9	19.7	26.8	37.5	50.0	60.8	59.0	60.8	64.4	60.8	62.6
87.5°	5.3	5.3	7.1	8.9	7.1	8.9	8.9	10.7	12.5	14.3	16.1
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: P646857

CATALOG NUMBER: GALN-SA3C-835-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3	2814.3
2.5°	2830.3	2835.6	2799.9	2833.9	2821.4	2819.6	2844.6	2841.0	2850.0	2846.4	2825.0
5°	2832.1	2819.6	2857.1	2823.2	2839.2	2873.2	2850.0	2903.6	2876.7	2894.7	2855.3
7.5°	2887.5	2891.1	2883.9	2898.2	2891.1	2907.1	2894.7	2907.1	2885.7	2887.5	2923.3
10°	2935.7	2925.0	2937.5	2919.7	2932.2	2926.8	2898.2	2889.3	2896.4	2887.5	2910.7
12.5°	3025.0	3005.4	2996.5	2975.0	2960.8	2907.1	2862.5	2837.4	2871.4	2876.7	2866.0
15°	3116.2	3118.0	3076.9	3028.6	2939.3	2858.9	2869.6	2878.5	2878.5	2892.9	2866.0
17.5°	3173.3	3173.3	3135.8	3039.4	2948.2	2901.8	2891.1	2862.5	2837.4	2833.9	2832.1
20°	3273.4	3243.0	3157.3	3037.6	2944.6	2923.3	2842.8	2775.0	2723.1	2705.3	2703.5
22.5°	3387.8	3311.0	3191.3	3041.2	2939.3	2908.9	2758.8	2657.0	2564.1	2524.8	2530.1
25°	3493.2	3370.0	3210.9	3025.0	2919.7	2773.2	2605.2	2464.0	2367.6	2335.4	2319.2
27.5°	3566.5	3432.4	3210.9	3039.4	2846.4	2621.2	2449.7	2269.2	2185.3	2163.8	2167.4
30°	3664.8	3511.1	3266.3	3009.0	2699.9	2424.7	2219.3	2101.3	2051.2	2033.4	2045.9
32.5°	3895.3	3716.6	3343.1	2935.7	2526.6	2228.2	2062.0	1995.9	1922.6	1886.9	1874.3
35°	4145.4	3911.3	3418.2	2812.5	2331.8	2049.5	1945.8	1885.1	1797.5	1758.2	1765.4
37.5°	4499.2	4161.5	3423.5	2608.7	2120.9	1949.4	1854.7	1760.0	1688.5	1627.8	1609.9
40°	4976.3	4502.8	3411.1	2394.3	1951.2	1831.5	1761.8	1643.8	1563.5	1520.6	1529.5
42.5°	5396.2	4903.0	3359.2	2151.3	1797.5	1751.1	1672.5	1556.3	1477.7	1433.0	1429.4
45°	5750.0	5197.9	3261.0	1944.0	1668.9	1661.8	1570.6	1481.3	1418.7	1377.6	1395.5
47.5°	6076.9	5435.5	3112.7	1736.8	1551.0	1565.2	1477.7	1422.3	1383.0	1345.5	1343.7
50°	6194.9	5431.9	2982.2	1565.2	1456.2	1449.1	1445.5	1386.5	1345.5	1313.3	1327.6
52.5°	6391.4	5492.7	2841.0	1447.3	1370.5	1372.3	1384.8	1341.9	1295.5	1275.8	1293.7
55°	6673.7	5501.6	2530.1	1309.7	1299.0	1311.5	1311.5	1282.9	1243.6	1227.5	1218.6
56°	6443.2	5235.4	2269.2	1274.0	1263.3	1263.3	1297.2	1265.1	1216.8	1204.3	1193.6
57.5°	5943.0	4586.7	1899.4	1231.1	1215.1	1240.0	1257.9	1224.0	1179.3	1161.4	1172.2
60°	4098.9	3103.7	1427.6	1138.2	1138.2	1179.3	1193.6	1143.6	1123.9	1122.1	1107.8
62.5°	2392.5	1808.3	1116.8	1054.2	1057.8	1091.7	1102.5	1073.9	1048.8	1079.2	1093.5
65°	1268.6	1079.2	957.8	964.9	966.7	993.5	1039.9	1038.1	1036.4	1045.3	1047.1
67.5°	918.5	897.0	870.1	863.0	866.6	886.3	932.7	968.4	966.7	945.2	929.1
70°	818.4	788.0	771.9	773.7	759.4	782.6	820.1	843.4	802.3	777.3	766.6
72.5°	680.7	671.8	661.1	662.9	634.3	629.0	586.1	586.1	575.3	568.2	580.8
75°	520.0	516.4	521.7	512.8	482.4	450.3	425.2	402.1	366.3	352.0	344.8
77.5°	328.8	339.5	352.0	332.4	319.9	296.6	271.6	248.4	219.8	203.7	203.7
80°	223.4	232.3	241.2	237.6	223.4	201.9	182.3	157.2	137.6	125.0	123.3
82.5°	169.8	176.9	189.4	175.1	160.8	143.0	126.8	109.0	91.1	76.8	76.8
85°	60.8	69.7	76.8	84.0	89.3	91.1	78.6	64.4	51.8	41.1	39.3
87.5°	16.1	17.9	19.7	17.9	17.9	17.9	19.7	17.9	16.1	12.5	12.5
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)