

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: P648517

Luminaire Tested: **GALN-SA6B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 26439.6 lumens
Efficiency: N/A
Efficacy: 108.8 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): 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

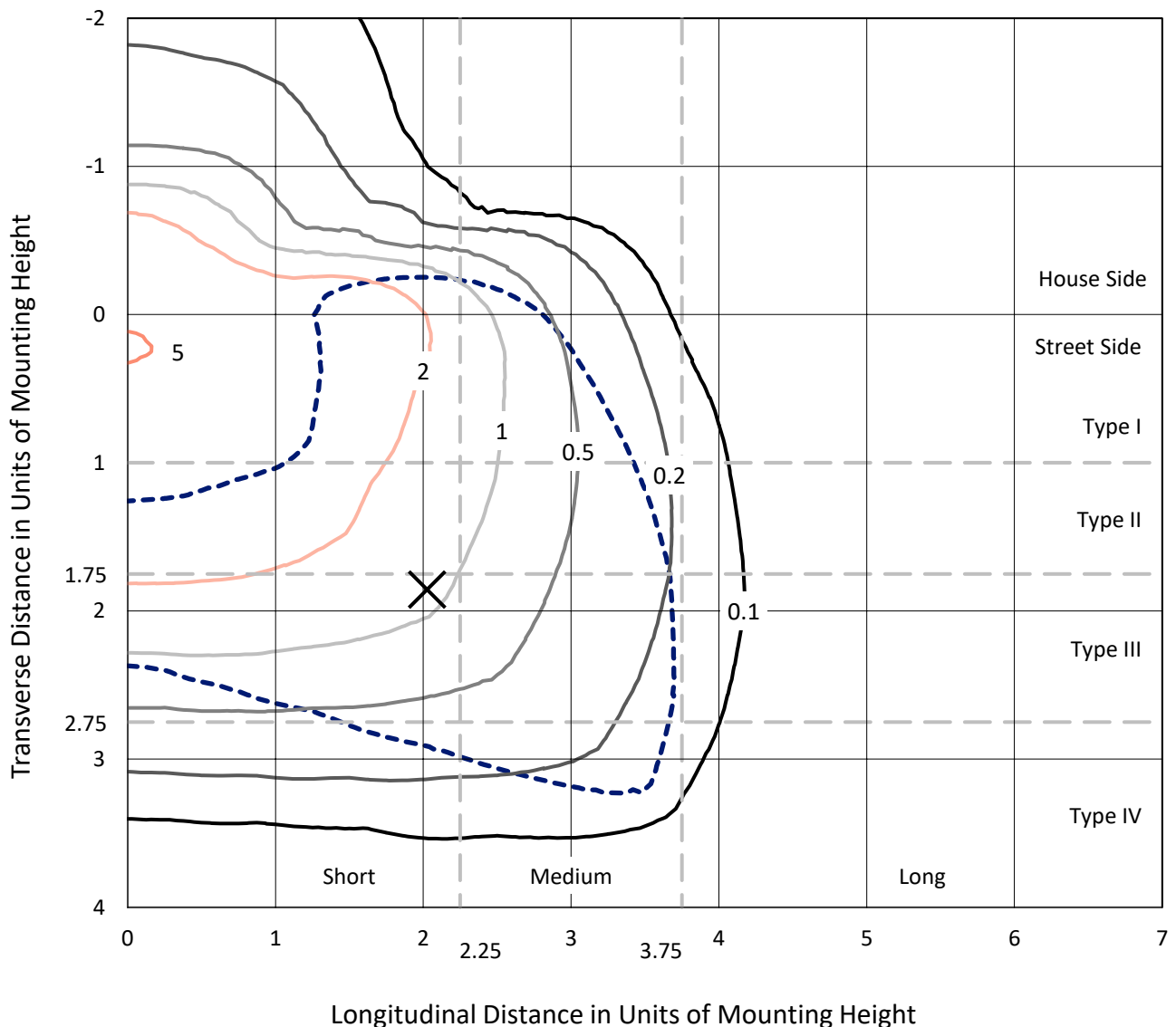




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Iso-Footcandle Lines of Horizontal Illumination

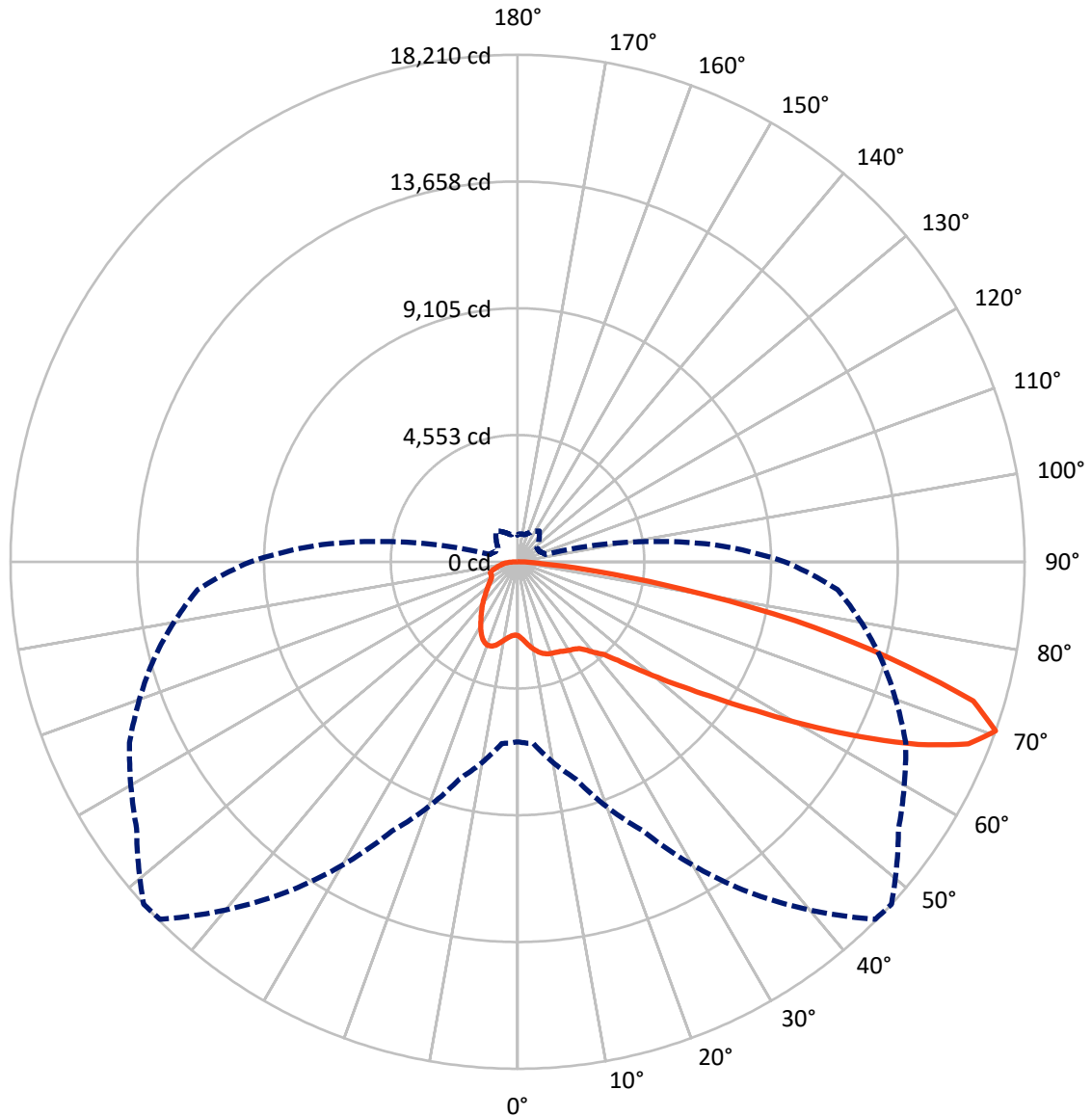
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5986.4	0.0	5986.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20453.1	0.0	20453.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	26439.6	0.0	26439.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	1.0
10°-20°	914.7	3.5
20°-30°	1521.0	5.8
30°-40°	2155.9	8.2
40°-50°	3182.5	12.0
50°-60°	5512.2	20.8
60°-70°	7786.2	29.4
70°-80°	4475.9	16.9
80°-90°	617.6	2.3
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°	26439.6	100.0
0°-180°	26439.6	100.0

Coefficient of Utilization



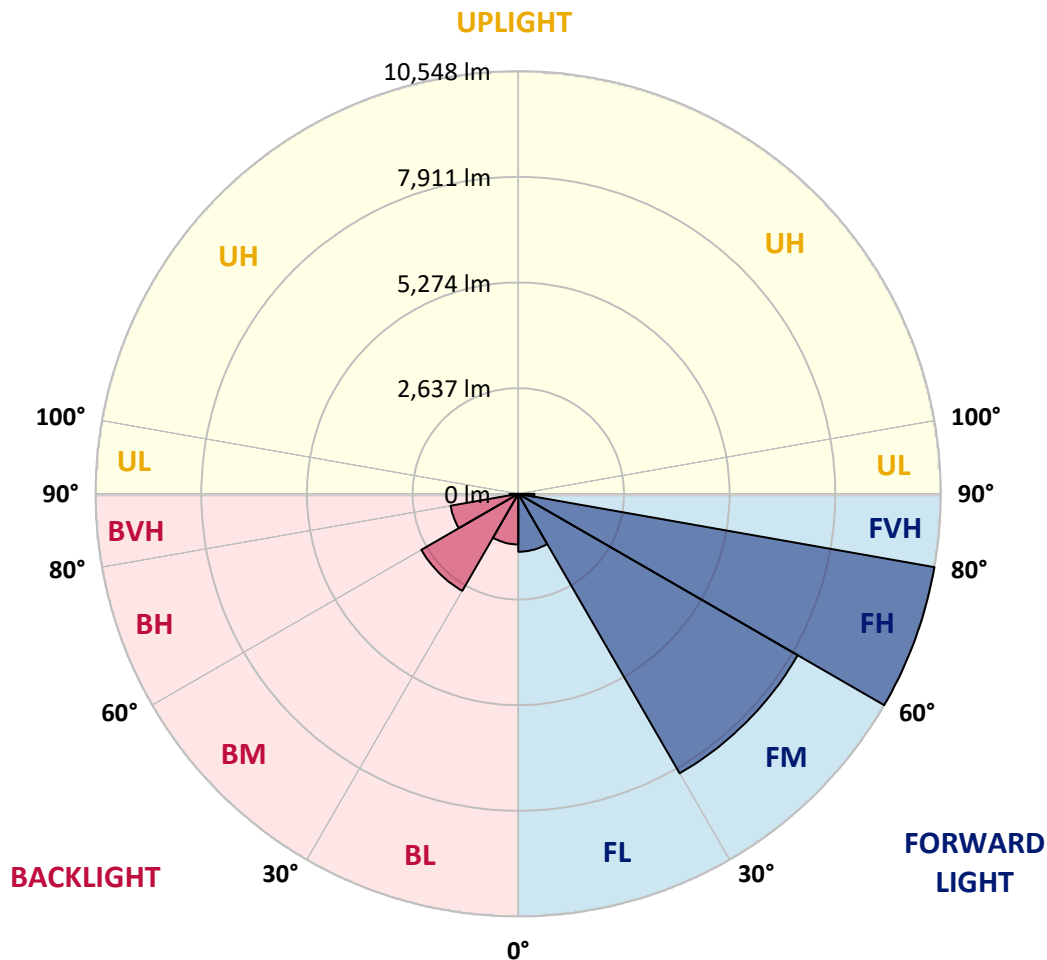
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.8	5.5			
FM (30°-60°)	8055.6	30.5			
FH (60°-80°)	10548.3	39.9			G4/12000
FVH (80°-90°)	403.4	1.5			G3/500
BL (0°-30°)	1263.5	4.8	B3/2500		
BM (30°-60°)	2795.0	10.6	B3/5000		
BH (60°-80°)	1713.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	214.2	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2
2.5°	2825.4	2815.5	2814.1	2792.9	2781.5	2760.3	2751.9	2732.0	2708.0	2683.9	2661.3
5°	3047.5	3047.5	3037.6	3007.9	2961.2	2913.2	2891.9	2853.7	2785.8	2730.6	2683.9
7.5°	3275.3	3278.2	3258.4	3214.4	3148.0	3070.1	3050.3	2993.8	2897.6	2816.9	2747.6
10°	3472.0	3472.0	3445.1	3385.7	3302.2	3217.3	3197.5	3133.8	3026.3	2925.8	2835.3
12.5°	3621.9	3621.9	3586.6	3508.8	3418.2	3341.8	3319.2	3258.4	3157.9	3046.1	2931.6
15°	3719.6	3712.5	3672.9	3585.2	3497.4	3430.9	3415.4	3364.5	3272.5	3159.3	3030.5
17.5°	3723.8	3721.0	3682.8	3609.2	3532.8	3487.6	3477.6	3443.7	3371.5	3264.0	3128.2
20°	3641.7	3647.4	3621.9	3569.6	3532.8	3513.0	3508.8	3497.4	3446.5	3346.1	3210.2
22.5°	3554.0	3564.0	3539.9	3511.6	3508.8	3528.6	3531.4	3534.2	3501.7	3404.1	3279.6
25°	3532.8	3539.9	3515.8	3490.4	3506.0	3558.3	3569.6	3580.9	3555.4	3473.4	3361.7
27.5°	3640.3	3634.7	3588.0	3532.8	3542.8	3613.5	3629.0	3641.7	3629.0	3558.3	3463.5
30°	3944.5	3926.1	3832.8	3671.5	3620.5	3670.1	3685.7	3721.0	3721.0	3668.7	3573.8
32.5°	4453.9	4418.5	4247.3	3930.4	3753.5	3723.8	3739.4	3797.4	3827.1	3786.0	3682.8
35°	5072.1	5035.4	4790.6	4364.8	3996.9	3831.4	3827.1	3892.2	3971.5	3879.5	3745.0
37.5°	5693.3	5655.1	5360.8	4882.6	4352.0	4057.7	4032.3	4054.9	4088.8	3920.5	3831.4
40°	6314.3	6269.1	6011.6	5461.2	4786.3	4357.6	4291.2	4189.3	4175.2	4054.9	3998.3
42.5°	6929.8	6888.8	6758.6	6110.6	5307.0	4650.6	4548.7	4373.2	4427.0	4354.8	4305.3
45°	7550.9	7553.8	7415.1	6839.3	5935.2	5191.0	5053.8	4779.3	4906.6	4879.7	4908.0
47.5°	8101.3	8094.2	8044.7	7546.7	6714.8	5887.1	5710.3	5391.9	5609.8	5708.9	5925.3
50°	8634.7	8630.5	8633.3	8348.9	7620.2	6714.8	6519.5	6185.6	6676.6	7020.4	7408.0
52.5°	9398.7	9422.8	9251.5	9176.5	8721.0	7692.4	7477.3	7132.1	7937.2	8479.0	9236.0
55°	10165.5	10145.7	10011.3	10089.1	9872.7	8849.7	8624.7	8350.3	9340.7	9933.5	11071.0
57.5°	10616.9	10623.9	10761.2	11141.8	11294.5	10292.8	10089.1	9876.9	10918.2	11338.4	12703.7
60°	11022.9	11055.5	11450.2	12168.9	12583.4	12065.6	11884.5	11678.0	12365.6	12532.5	14121.4
62.5°	11150.2	11250.7	11939.7	13014.9	13839.8	14066.2	13841.2	13385.7	13743.6	13678.5	15082.1
65°	10515.0	10652.2	11887.3	13331.9	14961.8	15964.9	15822.0	14976.0	14918.0	14526.0	15239.1
67.5°	8842.7	8979.9	10566.0	12666.9	15425.9	17608.9	17466.0	16136.1	15631.0	14605.2	14050.6
70°	6470.0	6556.3	8073.0	10664.9	14493.5	18160.7	18210.2	16702.0	15376.3	13528.6	11536.5
72.5°	3728.1	3919.1	4981.6	7502.8	11840.7	16765.7	17109.5	15524.9	13766.2	11286.1	8065.9
75°	1603.0	1607.3	2303.4	4138.4	8019.3	13476.2	13808.7	12869.2	10810.7	7804.2	4306.7
77.5°	762.6	776.7	1013.0	1847.8	4414.2	9311.0	10208.0	9091.6	6914.3	3749.3	1627.1
80°	495.2	505.1	619.7	916.8	2164.7	5398.9	6024.3	5244.8	3050.3	1339.9	701.7
82.5°	300.0	302.8	414.5	560.2	1191.3	2444.8	2882.0	2276.5	1301.7	802.2	413.1
85°	182.5	183.9	251.8	346.6	722.9	844.6	867.3	860.2	764.0	524.9	220.7
87.5°	87.7	90.5	130.1	164.1	284.4	261.8	247.6	287.2	360.8	283.0	94.8
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°	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2	2654.2
2.5°	2651.4	2647.2	2637.2	2633.0	2630.2	2631.6	2630.2	2630.2	2631.6	2631.6	2631.6
5°	2664.1	2657.0	2641.5	2641.5	2650.0	2669.8	2688.2	2702.3	2717.9	2716.5	2716.5
7.5°	2719.3	2706.6	2688.2	2693.8	2715.1	2746.2	2778.7	2809.9	2841.0	2843.8	2842.4
10°	2799.9	2787.2	2767.4	2774.5	2808.5	2855.1	2896.2	2941.4	2975.4	2985.3	2982.4
12.5°	2891.9	2866.4	2849.5	2869.3	2923.0	2985.3	3024.9	3058.9	3082.9	3097.1	3091.4
15°	2985.3	2961.2	2941.4	2982.4	3047.5	3105.5	3125.3	3131.0	3135.3	3149.4	3146.6
17.5°	3075.9	3043.3	3036.2	3090.0	3152.2	3177.7	3166.4	3142.3	3123.9	3135.3	3133.8
20°	3156.5	3131.0	3128.2	3182.0	3206.0	3182.0	3133.8	3091.4	3058.9	3061.7	3060.3
22.5°	3232.9	3213.0	3215.9	3238.6	3200.4	3118.3	3039.1	2981.0	2945.6	2952.8	2957.0
25°	3317.8	3298.0	3305.0	3268.2	3142.3	2999.4	2884.8	2835.3	2821.1	2835.3	2845.2
27.5°	3428.1	3415.4	3411.1	3269.7	3039.1	2824.0	2693.8	2675.4	2688.2	2719.3	2734.9
30°	3547.0	3547.0	3524.4	3245.6	2897.6	2613.2	2500.0	2502.9	2546.7	2590.6	2606.1
32.5°	3661.5	3685.7	3614.9	3180.5	2715.1	2408.0	2321.8	2324.6	2362.8	2416.5	2430.7
35°	3756.4	3825.7	3692.7	3061.7	2500.0	2235.4	2170.3	2132.1	2133.6	2174.6	2185.9
37.5°	3886.5	4015.3	3738.0	2884.8	2270.8	2088.3	2014.7	1948.2	1904.3	1887.3	1887.3
40°	4112.9	4302.5	3749.3	2623.0	2054.4	1948.2	1843.5	1764.3	1679.4	1603.0	1588.9
42.5°	4496.3	4735.4	3726.7	2321.8	1859.1	1794.0	1692.1	1594.5	1477.1	1369.5	1361.1
45°	5175.4	5298.6	3665.8	2009.0	1685.1	1645.5	1546.4	1440.3	1315.8	1219.6	1212.5
47.5°	6263.5	6089.4	3585.2	1731.8	1526.6	1515.3	1438.8	1315.8	1191.3	1124.8	1117.7
50°	7852.3	7334.4	3573.8	1530.8	1399.3	1404.9	1342.7	1229.5	1120.6	1065.3	1056.9
52.5°	9765.1	8838.4	3648.9	1389.4	1287.5	1308.7	1277.6	1172.9	1076.7	1030.0	1021.5
55°	11621.4	10191.0	3694.1	1279.0	1182.8	1222.4	1226.6	1139.0	1051.2	1004.5	998.9
57.5°	13128.2	11209.7	3493.2	1178.6	1092.2	1153.0	1184.2	1119.1	1038.5	1003.1	997.5
60°	14176.5	11690.7	2921.6	1089.4	1025.7	1097.9	1168.6	1120.6	1069.6	1073.9	1076.7
62.5°	14510.5	11477.1	2191.5	1022.9	980.5	1079.5	1194.1	1178.6	1126.2	1158.8	1164.4
65°	13957.3	10594.2	1588.9	970.6	940.9	1092.2	1270.5	1221.0	1106.4	1130.4	1130.4
67.5°	12105.3	9127.0	1236.6	922.5	895.6	1116.3	1346.9	1216.8	1059.7	1088.0	1062.5
70°	9602.4	7060.0	1030.0	868.7	847.5	1080.9	1354.0	1172.9	1004.5	1010.1	962.1
72.5°	6372.4	4642.0	885.7	817.8	773.9	972.0	1295.9	1116.3	950.8	918.2	870.1
75°	3122.5	2314.6	772.5	754.1	677.7	846.0	1216.8	1062.5	892.8	841.8	814.9
77.5°	1209.7	984.7	659.3	673.5	590.0	745.7	1112.0	986.1	816.4	747.1	725.8
80°	587.2	558.8	540.4	561.7	485.3	635.2	1015.9	919.6	745.7	669.2	638.1
82.5°	365.0	345.2	414.5	437.1	373.5	580.0	963.5	863.0	656.5	554.6	529.2
85°	185.3	198.1	277.3	298.6	267.4	461.3	793.7	648.0	473.9	393.3	396.1
87.5°	70.7	94.8	145.7	157.1	142.9	243.4	437.1	377.8	304.2	206.6	191.0
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)