

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: P648645

Luminaire Tested: **GALN-SA9B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34234.3 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

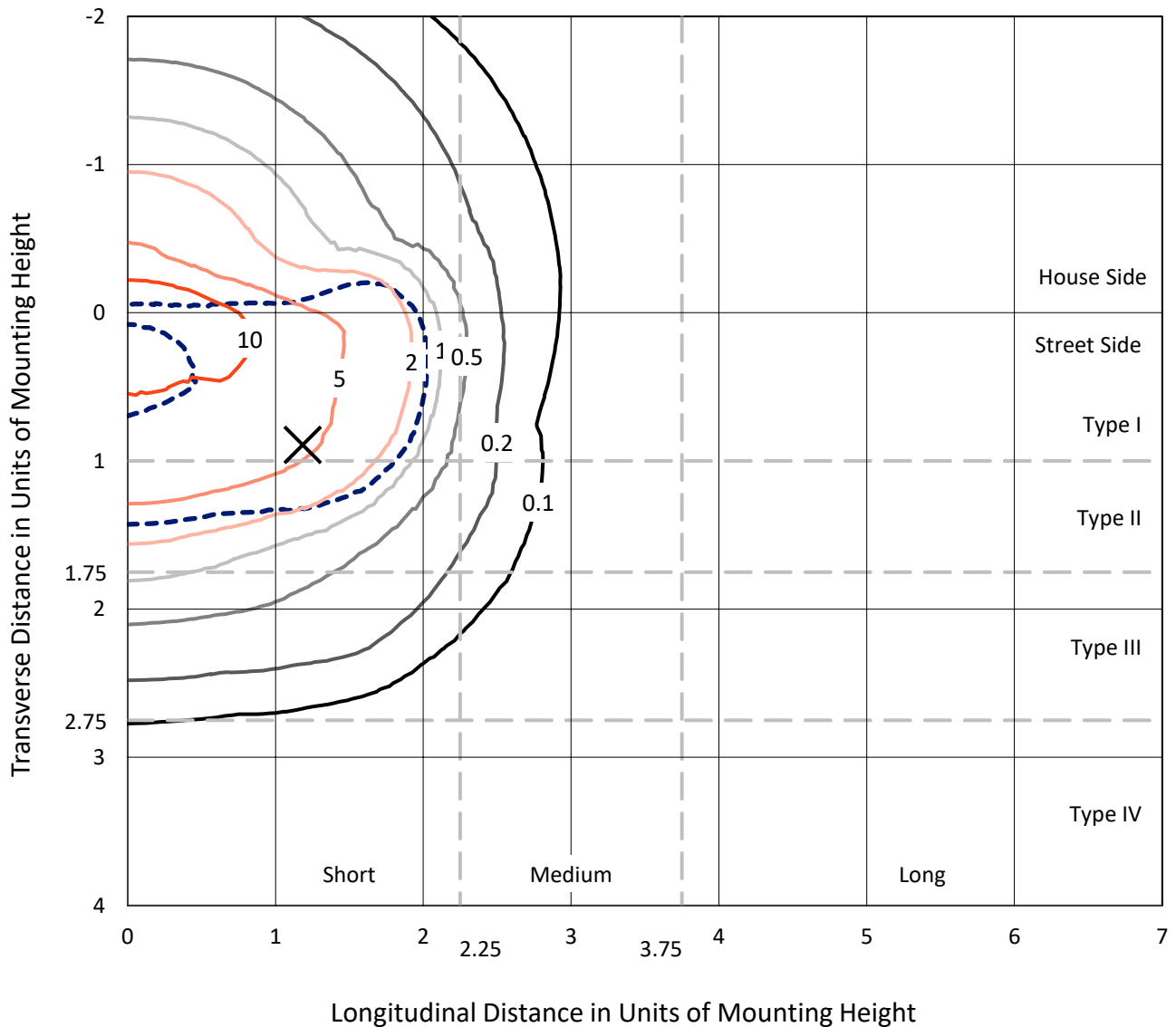
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

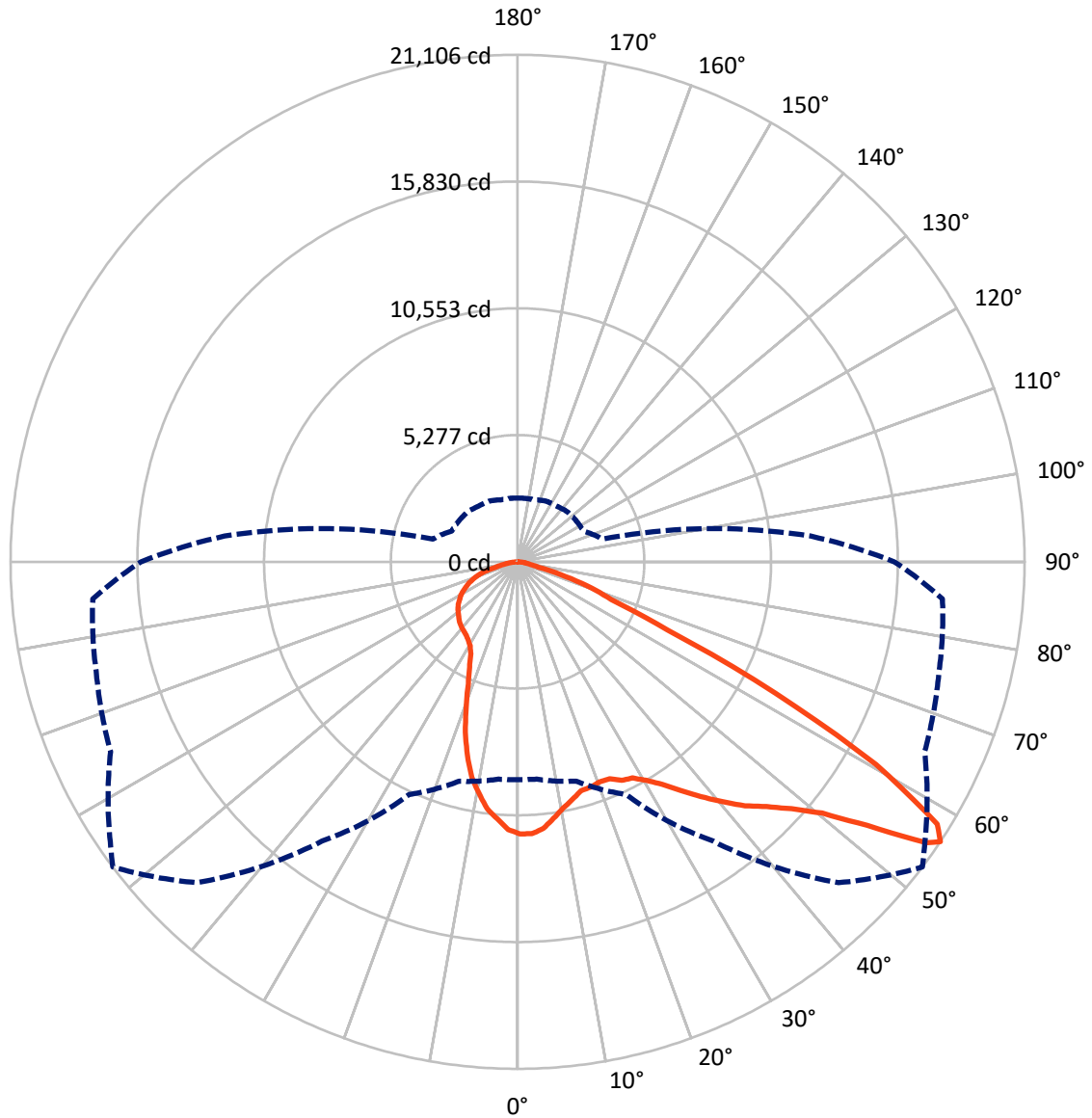
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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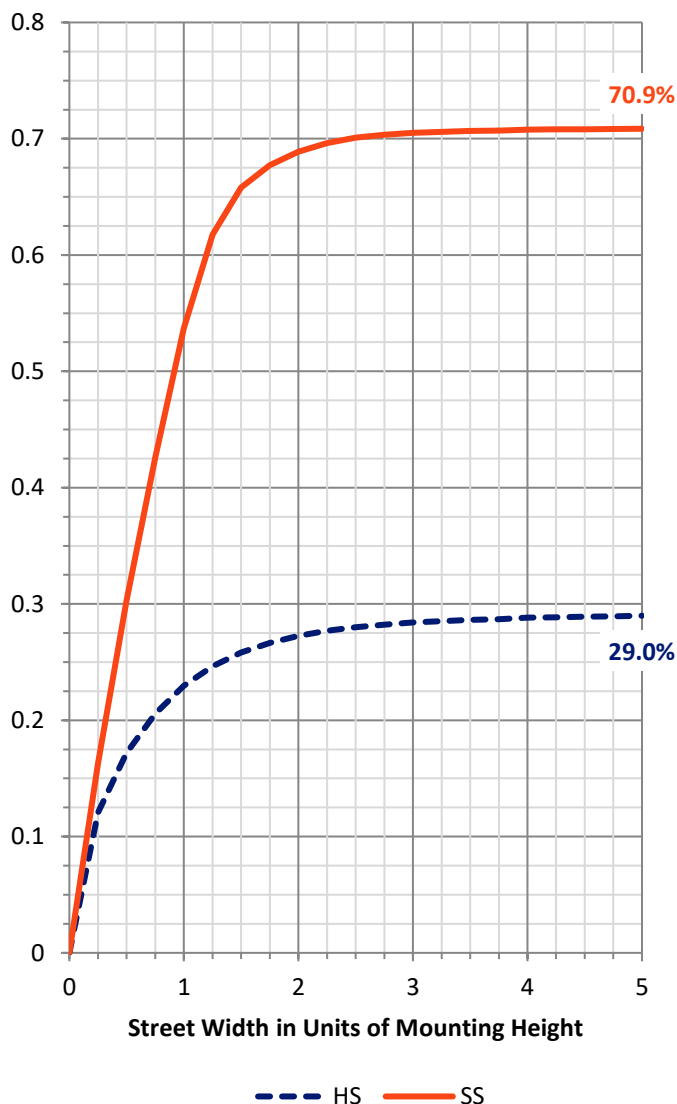
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9990.3	0.0	9990.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	24244.0	0.0	24244.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	34234.3	0.0	34234.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.7	2.9
10°-20°	2504.3	7.3
20°-30°	3692.7	10.8
30°-40°	5276.2	15.4
40°-50°	7262.0	21.2
50°-60°	8581.7	25.1
60°-70°	4573.5	13.4
70°-80°	1160.3	3.4
80°-90°	180.9	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°	34234.3	100.0
0°-180°	34234.3	100.0

Coefficient of Utilization

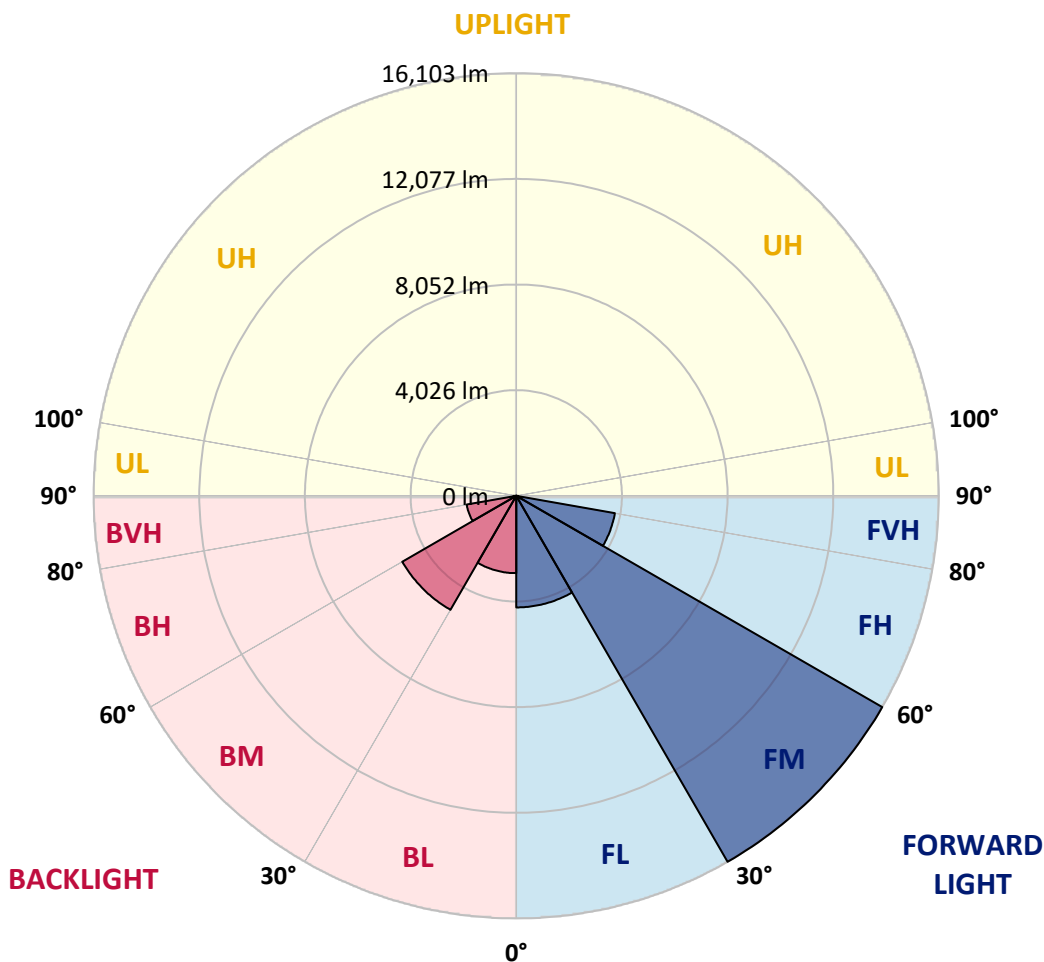


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4253.1	12.4			
FM (30°-60°)	16103.2	47.0			
FH (60°-80°)	3815.0	11.1			G2/5000
FVH (80°-90°)	72.7	0.2			G1/100
BL (0°-30°)	2946.6	8.6	B4/5000		
BM (30°-60°)	5016.8	14.7	B4/8500		
BH (60°-80°)	1918.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	108.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1
2.5°	11185.5	11088.9	11146.0	11124.1	11304.1	11356.8	11330.5	11352.4	11453.4	11405.1	11304.1
5°	10452.1	10588.3	10614.6	10680.5	10785.9	10992.3	11154.8	11198.7	11247.0	11471.0	11449.0
7.5°	9784.6	9876.8	9828.5	10021.8	10250.1	10583.9	10781.5	10816.6	11260.2	11383.2	11475.4
10°	9363.0	9270.8	9490.4	9543.0	9802.1	10184.2	10421.4	10566.3	10970.4	11457.8	11514.9
12.5°	8972.2	8941.4	9073.2	9222.5	9512.3	9907.5	10149.1	10206.2	10829.8	11343.6	11611.5
15°	8682.3	8647.1	8778.9	8888.7	9226.9	9578.2	9885.6	10048.1	10676.1	11277.8	11528.1
17.5°	8453.9	8449.5	8524.2	8721.8	9068.8	9363.0	9859.2	9868.1	10597.0	11378.8	11598.3
20°	8440.7	8436.4	8449.5	8669.1	8985.3	9345.4	9775.8	9854.8	10597.0	11308.5	11602.7
22.5°	8550.5	8480.3	8559.3	8699.8	8928.2	9376.2	9806.5	9982.2	10851.8	11655.4	11800.4
25°	8726.2	8743.8	8787.7	8836.0	8967.8	9446.4	10078.9	10223.8	11150.4	11954.1	12072.6
27.5°	9046.8	9038.0	9055.6	9081.9	9196.1	9512.3	10188.6	10561.9	11774.0	12485.5	12366.9
30°	9516.7	9486.0	9556.2	9648.4	9543.0	9723.1	10553.1	10834.2	12353.7	13021.2	12696.3
32.5°	9942.7	10056.9	10188.6	10228.2	10100.8	10135.9	11036.2	11321.7	12836.8	13679.9	13100.3
35°	10474.1	10566.3	10742.0	10864.9	10843.0	10737.6	11695.0	12072.6	13535.1	14163.1	13526.2
37.5°	10992.3	11102.1	11391.9	11756.4	11554.4	11506.1	12397.6	12709.4	13750.3	14422.2	13838.1
40°	11826.7	11822.3	12322.9	12511.8	12691.9	12608.4	13126.6	13232.1	13864.4	14365.1	13846.9
42.5°	12806.0	12744.6	13254.0	13548.2	13781.0	13789.8	13886.4	13851.3	13917.1	14075.2	13754.6
45°	13737.1	13868.8	14382.6	14909.7	15142.4	15168.7	14527.5	14461.7	14009.4	13991.8	13578.9
47.5°	14874.5	14905.3	15326.8	16020.7	16560.9	16376.4	15357.6	15212.7	14413.4	14549.5	13873.2
50°	14940.4	15168.7	15546.5	16363.3	18023.3	17975.0	16433.5	16161.3	15063.4	15340.1	14694.5
52.5°	13561.4	13508.7	13956.7	15291.8	17913.6	19564.8	18216.6	17566.6	16459.9	16249.1	16025.1
55°	10333.6	10456.5	10851.8	12200.0	15555.2	19586.7	20645.1	20113.8	17953.1	17592.9	17333.8
56°	9064.4	9081.9	9455.2	10684.9	14193.8	18888.5	21106.2	20675.9	18695.2	18146.3	17751.1
57.5°	7514.1	7413.1	7606.4	8278.3	11980.4	17412.9	20601.2	21022.8	19564.8	18743.5	18194.6
60°	5915.6	5893.6	5814.6	5937.5	7571.2	13117.8	17149.4	18097.9	19477.0	18181.4	17426.1
62.5°	4830.8	4721.0	4879.1	5054.8	5261.2	8137.7	12050.7	12608.4	15463.0	14514.4	13091.5
65°	3746.1	3693.4	3891.0	4461.9	4584.9	5169.0	6864.2	7294.5	9130.2	8967.8	7896.2
67.5°	2577.9	2586.7	2758.0	3627.5	4251.1	4198.4	4202.8	4426.8	4764.9	3539.7	3082.9
70°	1633.7	1629.3	1721.5	2336.4	3421.1	3456.2	3280.5	3214.7	3047.8	1844.5	1954.3
72.5°	1049.6	1018.8	1067.2	1291.2	1769.8	2046.5	2108.0	2147.5	1765.4	1449.3	1572.2
75°	592.9	562.1	544.6	601.7	698.3	808.1	887.1	913.4	1023.2	1097.9	1163.8
77.5°	180.1	162.5	197.6	263.5	346.9	465.5	566.5	584.1	689.5	777.3	843.2
80°	79.1	87.9	122.9	175.6	245.9	329.4	399.6	426.0	496.3	562.1	579.7
82.5°	48.3	52.7	83.5	118.5	171.2	232.8	285.5	294.3	364.5	417.2	430.4
85°	17.5	21.9	43.9	70.2	109.8	149.3	149.3	162.5	149.3	149.3	162.5
87.5°	0.0	0.0	4.4	8.8	8.8	13.2	17.5	17.5	21.9	26.4	30.8
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°	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1	11326.1
2.5°	11356.8	11334.9	11299.7	11172.4	11159.2	11119.6	10900.1	10864.9	10900.1	10794.7	10803.4
5°	11334.9	11400.7	11137.2	11009.8	10772.7	10601.4	10403.8	10302.8	10122.8	10008.5	10135.9
7.5°	11431.5	11405.1	11075.8	10799.1	10443.3	10008.5	9661.6	9464.0	9147.8	9059.9	9125.9
10°	11396.3	11255.8	10869.4	10504.8	9832.9	9450.8	8888.7	8344.1	8045.5	7891.8	7869.9
12.5°	11348.0	11308.5	10662.9	10034.9	9327.9	8524.2	7733.7	7219.9	6732.4	6521.6	6552.4
15°	11405.1	11071.4	10276.5	9481.6	8541.7	7487.8	6635.8	5972.6	5634.5	5498.4	5498.4
17.5°	11378.8	10957.1	10092.0	8862.4	7672.2	6425.0	5489.5	5089.9	4949.4	4949.4	4988.9
20°	11391.9	11031.8	9718.8	8243.1	6644.5	5410.5	4729.8	4584.9	4646.4	4668.3	4690.2
22.5°	11466.6	10785.9	9354.2	7562.4	5691.5	4628.8	4295.1	4299.5	4409.2	4527.8	4505.9
25°	11558.8	10689.3	8910.6	6886.1	4962.6	4246.8	4141.3	4128.1	4211.6	4273.1	4281.8
27.5°	11479.8	10522.4	8458.3	6042.9	4365.3	3992.0	3970.0	3978.8	4005.2	4128.1	4088.6
30°	11738.9	10570.7	7891.8	5335.8	4035.9	3908.6	3882.2	3869.0	3908.6	3943.7	3913.0
32.5°	12059.5	10399.4	7470.2	4655.2	3873.4	3847.1	3794.4	3776.8	3798.8	3763.6	3781.2
35°	12200.0	10368.7	6921.3	4167.7	3746.1	3724.1	3693.4	3688.9	3693.4	3662.6	3636.3
37.5°	12279.1	10513.6	6293.2	3943.7	3667.0	3688.9	3618.7	3609.9	3530.9	3548.5	3561.6
40°	12415.2	10289.6	5783.8	3728.5	3618.7	3574.8	3513.3	3500.2	3447.5	3416.7	3447.5
42.5°	12217.5	10223.8	5283.1	3636.3	3548.5	3500.2	3456.2	3381.5	3364.0	3337.6	3320.1
45°	12059.5	9846.1	4835.2	3522.1	3465.0	3438.6	3355.2	3276.2	3210.3	3236.6	3197.1
47.5°	12178.1	9714.4	4391.6	3425.5	3350.8	3320.1	3236.6	3175.1	3109.3	3078.5	3069.8
50°	12652.3	9960.2	4018.4	3355.2	3254.2	3236.6	3126.8	3056.6	2995.1	2973.1	2981.9
52.5°	13785.4	10632.2	3763.6	3210.3	3162.0	3082.9	3021.4	2933.6	2894.1	2823.8	2867.7
55°	15221.4	11725.7	3697.8	3074.1	3047.8	2977.5	2894.1	2828.2	2753.6	2696.5	2683.3
56°	15682.6	12248.3	3645.1	3021.4	2977.5	2938.1	2828.2	2788.7	2670.1	2657.0	2648.2
57.5°	16055.9	12709.4	3653.9	2920.4	2876.5	2841.4	2775.5	2678.9	2599.9	2551.6	2573.5
60°	15212.7	11897.0	3486.9	2766.7	2758.0	2692.1	2599.9	2555.9	2459.3	2402.2	2389.1
62.5°	11308.5	8076.3	2828.2	2569.1	2564.7	2494.5	2389.1	2340.8	2323.2	2244.2	2244.2
65°	6512.8	5063.6	2446.2	2406.6	2371.5	2301.2	2195.8	2156.3	2112.4	2086.1	2064.1
67.5°	2779.9	2626.2	2222.2	2217.8	2178.2	2090.5	1985.1	1923.5	1866.4	1813.7	1840.1
70°	2015.8	2046.5	2007.0	1985.1	1936.8	1826.9	1734.7	1660.0	1572.2	1537.1	1563.4
72.5°	1598.6	1664.4	1721.5	1725.9	1668.8	1541.5	1440.5	1339.5	1242.9	1194.5	1216.5
75°	1212.1	1256.0	1313.1	1326.2	1242.9	1155.0	1058.4	953.0	878.3	821.2	830.1
77.5°	873.9	865.1	917.8	909.1	869.5	808.1	720.2	623.6	540.2	487.5	491.9
80°	597.3	610.4	641.2	636.8	588.5	549.0	483.1	404.0	342.6	298.6	289.9
82.5°	417.2	439.2	465.5	443.6	404.0	364.5	316.2	259.1	210.8	175.6	166.9
85°	149.3	171.2	197.6	210.8	223.9	215.2	180.1	144.9	105.4	87.9	83.5
87.5°	30.8	35.2	39.5	39.5	39.5	35.2	30.8	30.8	26.4	13.2	13.2
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)