

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: P647105

Luminaire Tested: **GALN-SA8C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647105
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-SA8C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 37676.4 lumens
Efficiency: N/A
Efficacy: 87.8 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

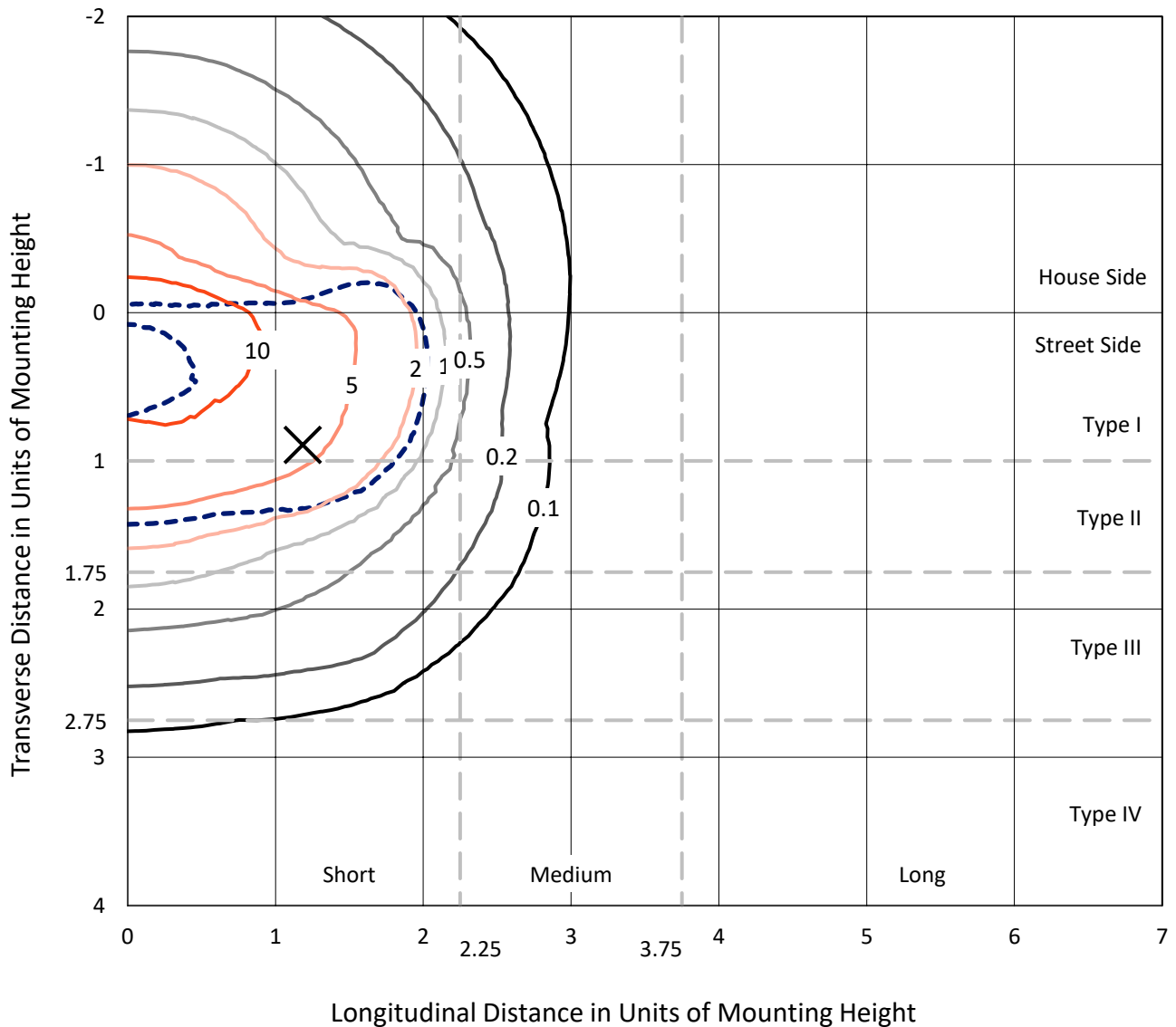
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

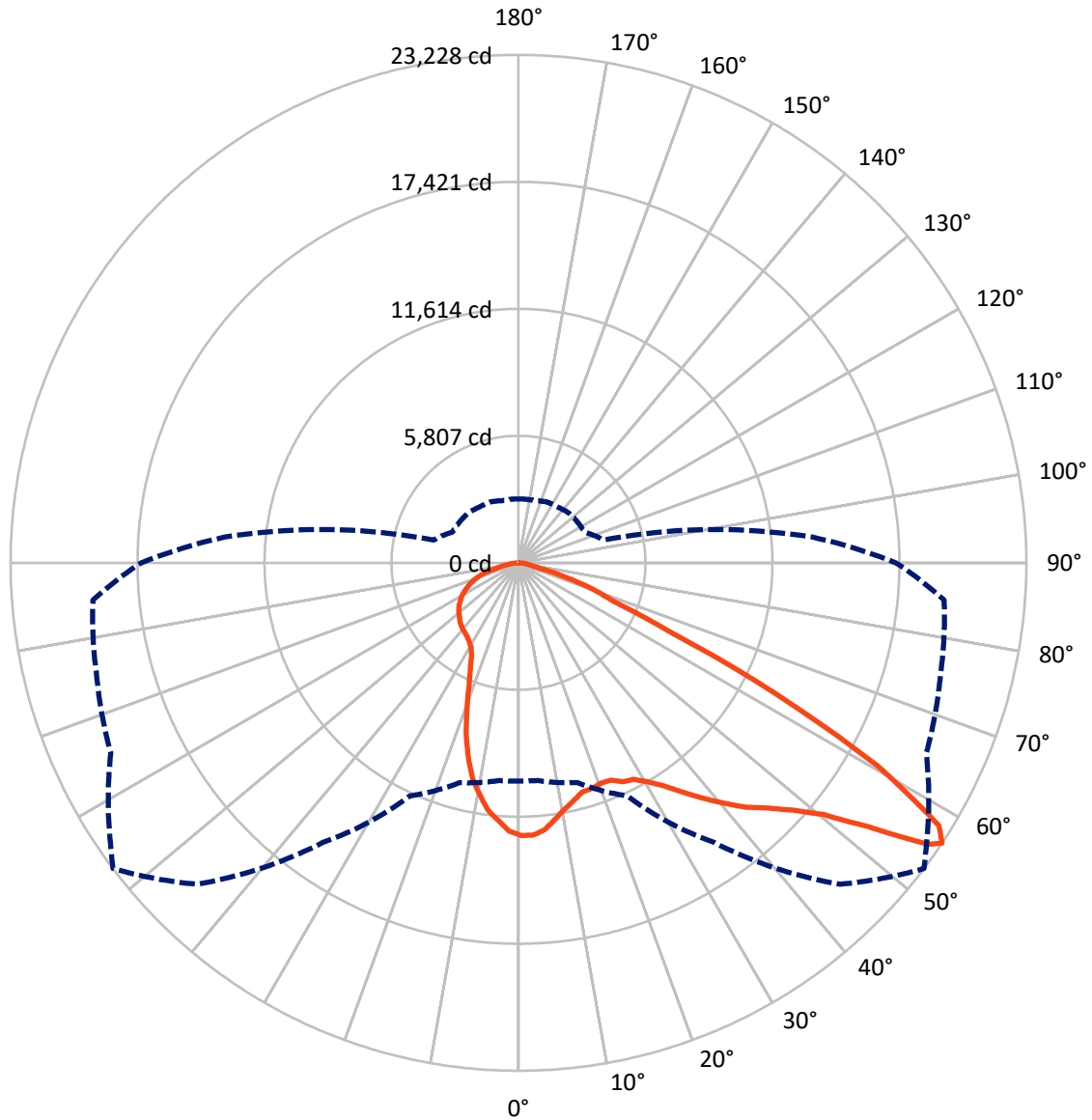
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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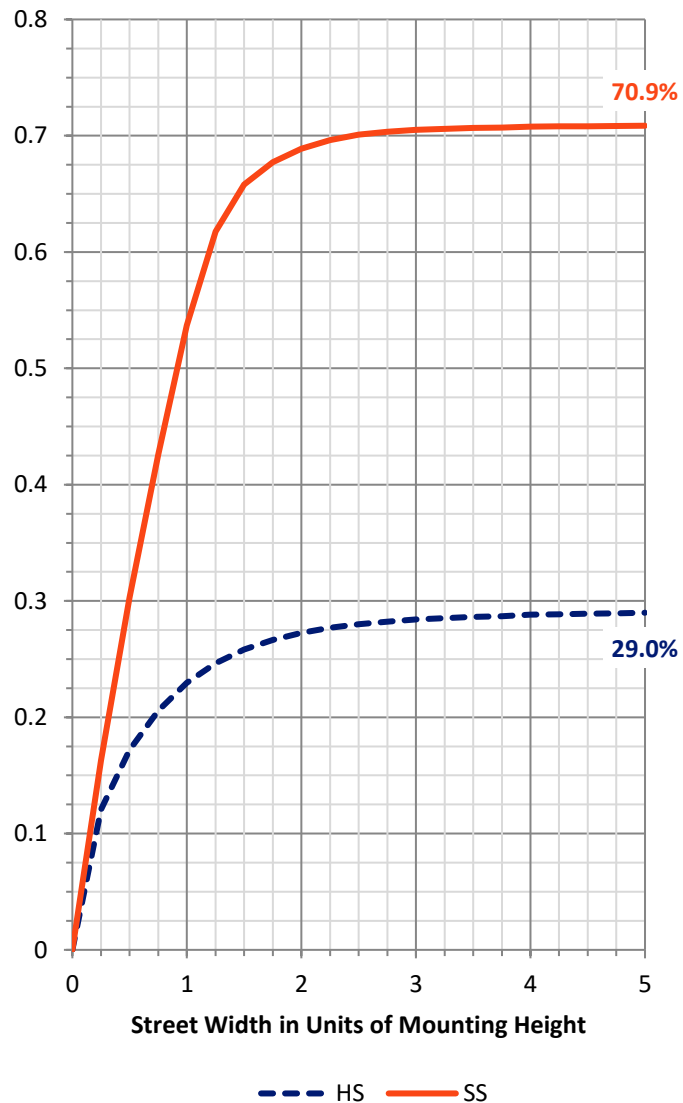
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10994.8	0.0	10994.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	26681.6	0.0	26681.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	37676.4	0.0	37676.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1103.5	2.9
10°-20°	2756.0	7.3
20°-30°	4064.0	10.8
30°-40°	5806.7	15.4
40°-50°	7992.2	21.2
50°-60°	9444.6	25.1
60°-70°	5033.3	13.4
70°-80°	1276.9	3.4
80°-90°	199.1	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°	37676.4	100.0
0°-180°	37676.4	100.0

Coefficient of Utilization



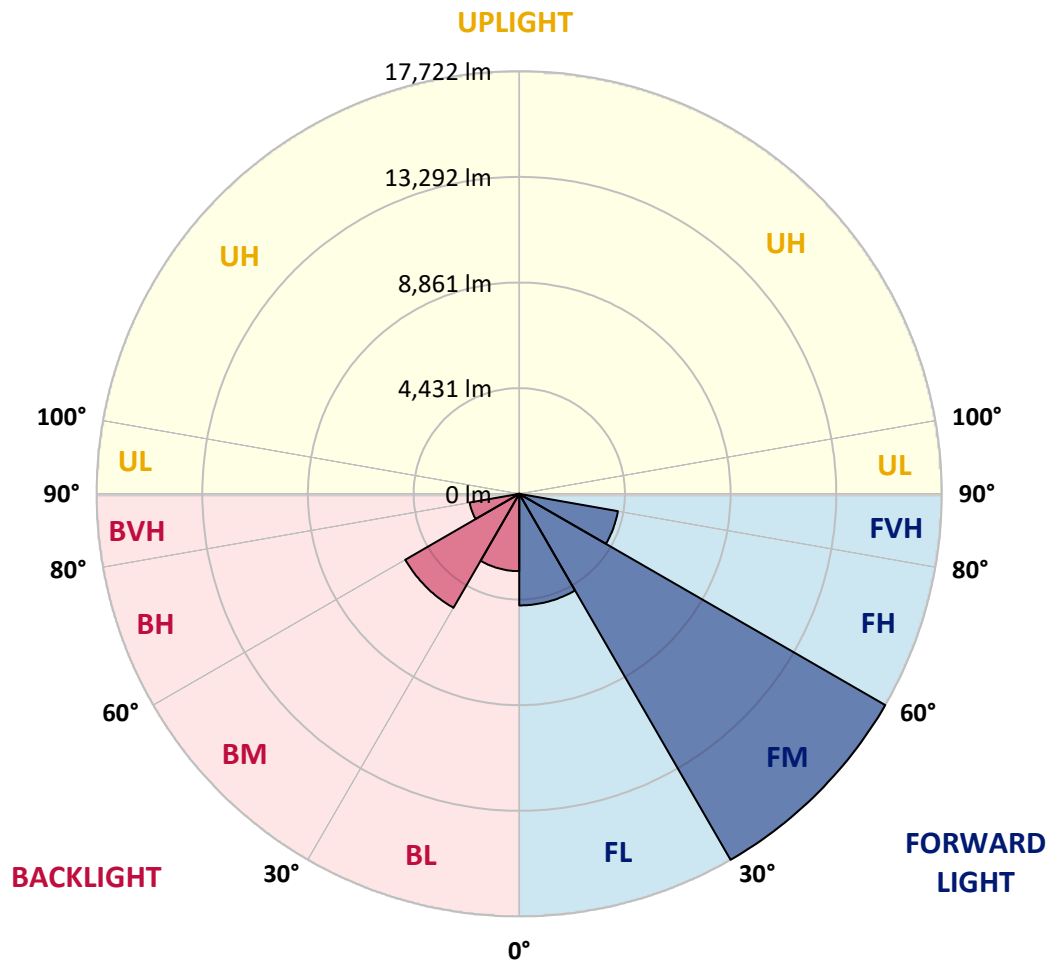
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4680.7	12.4			
FM (30°-60°)	17722.2	47.0			
FH (60°-80°)	4198.6	11.1			G2/5000
FVH (80°-90°)	80.0	0.2			G1/100
BL (0°-30°)	3242.8	8.6	B4/5000		
BM (30°-60°)	5521.2	14.7	B4/8500		
BH (60°-80°)	2111.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	119.1	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°	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8
2.5°	12310.2	12203.8	12266.7	12242.5	12440.7	12498.6	12469.7	12493.9	12605.0	12551.8	12440.7
5°	11503.1	11652.8	11681.9	11754.3	11870.4	12097.5	12276.3	12324.7	12377.8	12624.3	12600.2
7.5°	10768.4	10869.8	10816.7	11029.3	11280.7	11648.0	11865.5	11904.2	12392.3	12527.7	12629.2
10°	10304.4	10202.9	10444.6	10502.5	10787.7	11208.2	11469.2	11628.7	12073.3	12609.8	12672.7
12.5°	9874.3	9840.4	9985.4	10149.7	10468.7	10903.7	11169.6	11232.4	11918.7	12484.2	12779.0
15°	9555.3	9516.6	9661.6	9782.4	10154.6	10541.2	10879.6	11058.4	11749.5	12411.6	12687.2
17.5°	9303.9	9299.1	9381.3	9598.7	9980.6	10304.4	10850.6	10860.2	11662.6	12522.8	12764.5
20°	9289.4	9284.6	9299.1	9540.8	9888.7	10285.1	10758.7	10845.7	11662.6	12445.5	12769.3
22.5°	9410.3	9332.9	9419.9	9574.6	9825.9	10318.9	10792.6	10985.9	11942.9	12827.3	12986.8
25°	9603.6	9622.9	9671.2	9724.4	9869.4	10396.2	11092.2	11251.7	12271.5	13156.0	13286.5
27.5°	9956.4	9946.8	9966.1	9995.1	10120.7	10468.7	11213.0	11623.9	12957.8	13740.8	13610.3
30°	10473.6	10439.7	10517.0	10618.6	10502.5	10700.7	11614.2	11923.5	13595.8	14330.5	13972.8
32.5°	10942.3	11068.0	11213.0	11256.6	11116.4	11155.0	12145.8	12460.0	14127.4	15055.4	14417.5
35°	11527.2	11628.7	11822.0	11957.3	11933.2	11817.2	12870.8	13286.5	14895.9	15587.1	14886.2
37.5°	12097.5	12218.3	12537.3	12938.5	12716.2	12663.0	13644.2	13987.3	15132.7	15872.3	15229.4
40°	13015.8	13011.0	13562.0	13769.8	13967.9	13876.2	14446.4	14562.5	15258.4	15809.4	15239.1
42.5°	14093.6	14026.0	14586.6	14910.4	15166.6	15176.3	15282.6	15243.9	15316.4	15490.4	15137.6
45°	15118.2	15263.3	15828.7	16408.7	16664.9	16693.9	15988.2	15915.7	15417.9	15398.6	14944.3
47.5°	16370.1	16403.9	16867.9	17631.5	18226.0	18023.0	16901.7	16742.2	15862.6	16012.4	15268.1
50°	16442.5	16693.9	17109.6	18008.5	19835.5	19782.3	18085.9	17786.2	16577.9	16882.4	16171.9
52.5°	14924.9	14867.0	15360.0	16829.3	19714.6	21532.0	20048.2	19332.8	18114.9	17882.9	17636.4
55°	11372.5	11507.8	11942.9	13426.6	17119.2	21556.1	22720.9	22136.1	19758.1	19361.8	19076.7
56°	9975.7	9995.1	10405.9	11759.2	15620.9	20787.6	23228.4	22754.8	20575.0	19970.8	19535.9
57.5°	8269.6	8158.5	8371.1	9110.6	13185.0	19163.7	22672.5	23136.6	21532.0	20628.1	20024.0
60°	6510.3	6486.1	6399.1	6534.5	8332.5	14436.8	18873.7	19917.6	21435.3	20009.5	19178.2
62.5°	5316.5	5195.7	5369.7	5563.0	5790.2	8956.0	13262.3	13876.2	17017.7	15973.7	14407.7
65°	4122.7	4064.7	4282.2	4910.5	5045.9	5688.7	7554.3	8027.9	10048.2	9869.4	8690.1
67.5°	2837.1	2846.8	3035.2	3992.2	4678.6	4620.6	4625.4	4871.9	5244.1	3895.6	3392.9
70°	1797.9	1793.1	1894.6	2571.3	3765.1	3803.7	3610.4	3537.9	3354.2	2029.9	2150.7
72.5°	1155.2	1121.3	1174.5	1421.0	1947.8	2252.3	2320.0	2363.4	1942.9	1595.0	1730.3
75°	652.5	618.6	599.3	662.2	768.5	889.3	976.3	1005.3	1126.1	1208.3	1280.8
77.5°	198.2	178.8	217.5	290.0	381.8	512.3	623.5	642.8	758.8	855.5	928.0
80°	87.0	96.7	135.3	193.3	270.7	362.5	439.8	468.8	546.1	618.6	638.0
82.5°	53.2	58.0	91.8	130.5	188.5	256.2	314.1	323.8	401.1	459.2	473.6
85°	19.3	24.2	48.3	77.4	120.8	164.4	164.4	178.8	164.4	164.4	178.8
87.5°	0.0	0.0	4.9	9.6	9.6	14.5	19.3	19.3	24.2	29.0	33.8
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°	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8	12464.8
2.5°	12498.6	12474.5	12435.8	12295.7	12281.2	12237.7	11996.0	11957.3	11996.0	11880.0	11889.7
5°	12474.5	12547.0	12257.0	12116.8	11855.9	11667.3	11449.9	11338.7	11140.5	11014.9	11155.0
7.5°	12580.9	12551.8	12189.4	11884.8	11493.3	11014.9	10633.1	10415.5	10067.6	9970.9	10043.4
10°	12542.2	12387.5	11962.2	11561.0	10821.5	10401.1	9782.4	9183.1	8854.4	8685.3	8661.1
12.5°	12489.0	12445.5	11735.1	11043.9	10265.8	9381.3	8511.3	7945.8	7409.3	7177.3	7211.1
15°	12551.8	12184.5	11309.7	10434.9	9400.6	8240.6	7303.0	6573.1	6201.0	6051.2	6051.2
17.5°	12522.8	12058.8	11106.7	9753.4	8443.6	7071.0	6041.5	5601.7	5447.0	5447.0	5490.6
20°	12537.3	12141.0	10695.9	9071.9	7312.7	5954.5	5205.4	5045.9	5113.5	5137.7	5161.8
22.5°	12619.5	11870.4	10294.7	8322.7	6263.8	5094.2	4726.9	4731.7	4852.6	4983.0	4958.9
25°	12721.0	11764.0	9806.6	7578.5	5461.5	4673.7	4557.7	4543.2	4635.0	4702.7	4712.4
27.5°	12634.0	11580.3	9308.8	6650.5	4804.2	4393.4	4369.2	4378.8	4407.9	4543.2	4499.7
30°	12919.2	11633.5	8685.3	5872.3	4441.7	4301.6	4272.5	4258.0	4301.6	4340.2	4306.4
32.5°	13272.0	11445.0	8221.3	5123.2	4262.9	4233.9	4175.9	4156.6	4180.8	4142.1	4161.4
35°	13426.6	11411.2	7617.1	4586.7	4122.7	4098.5	4064.7	4059.9	4064.7	4030.9	4001.9
37.5°	13513.6	11570.7	6925.9	4340.2	4035.7	4059.9	3982.6	3972.9	3885.9	3905.2	3919.7
40°	13663.5	11324.2	6365.3	4103.4	3982.6	3934.3	3866.5	3852.0	3794.1	3760.2	3794.1
42.5°	13446.0	11251.7	5814.3	4001.9	3905.2	3852.0	3803.7	3721.6	3702.3	3673.2	3653.9
45°	13272.0	10836.0	5321.3	3876.2	3813.4	3784.4	3692.5	3605.6	3533.1	3562.1	3518.6
47.5°	13402.5	10691.1	4833.2	3769.9	3687.8	3653.9	3562.1	3494.4	3421.9	3388.0	3378.4
50°	13924.5	10961.7	4422.4	3692.5	3581.4	3562.1	3441.2	3363.9	3296.3	3272.1	3281.7
52.5°	15171.4	11701.2	4142.1	3533.1	3479.9	3392.9	3325.2	3228.5	3185.1	3107.7	3156.1
55°	16751.9	12904.6	4069.6	3383.3	3354.2	3276.9	3185.1	3112.6	3030.4	2967.6	2953.1
56°	17259.4	13479.8	4011.5	3325.2	3276.9	3233.4	3112.6	3069.0	2938.6	2924.1	2914.4
57.5°	17670.2	13987.3	4021.3	3214.1	3165.7	3127.1	3054.6	2948.2	2861.2	2808.1	2832.3
60°	16742.2	13093.2	3837.6	3044.9	3035.2	2962.8	2861.2	2812.9	2706.6	2643.8	2629.2
62.5°	12445.5	8888.3	3112.6	2827.4	2822.6	2745.3	2629.2	2576.1	2556.7	2469.7	2469.7
65°	7167.7	5572.7	2692.1	2648.6	2609.9	2532.6	2416.6	2373.1	2324.8	2295.8	2271.6
67.5°	3059.4	2890.3	2445.6	2440.8	2397.2	2300.6	2184.6	2116.9	2054.1	1996.1	2025.2
70°	2218.5	2252.3	2208.8	2184.6	2131.5	2010.6	1909.1	1827.0	1730.3	1691.6	1720.6
72.5°	1759.3	1831.8	1894.6	1899.5	1836.6	1696.4	1585.3	1474.2	1367.8	1314.7	1338.8
75°	1334.0	1382.3	1445.1	1459.6	1367.8	1271.1	1164.8	1048.8	966.6	903.8	913.4
77.5°	961.8	952.1	1010.1	1000.4	957.0	889.3	792.6	686.3	594.5	536.5	541.3
80°	657.3	671.8	705.6	700.8	647.6	604.2	531.7	444.7	377.0	328.6	319.0
82.5°	459.2	483.3	512.3	488.1	444.7	401.1	348.0	285.2	232.0	193.3	183.7
85°	164.4	188.5	217.5	232.0	246.5	236.9	198.2	159.5	116.0	96.7	91.8
87.5°	33.8	38.7	43.5	43.5	43.5	38.7	33.8	33.8	29.0	14.5	14.5
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)