

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: P652583

Luminaire Tested: **GALN-SA8B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38320.2 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

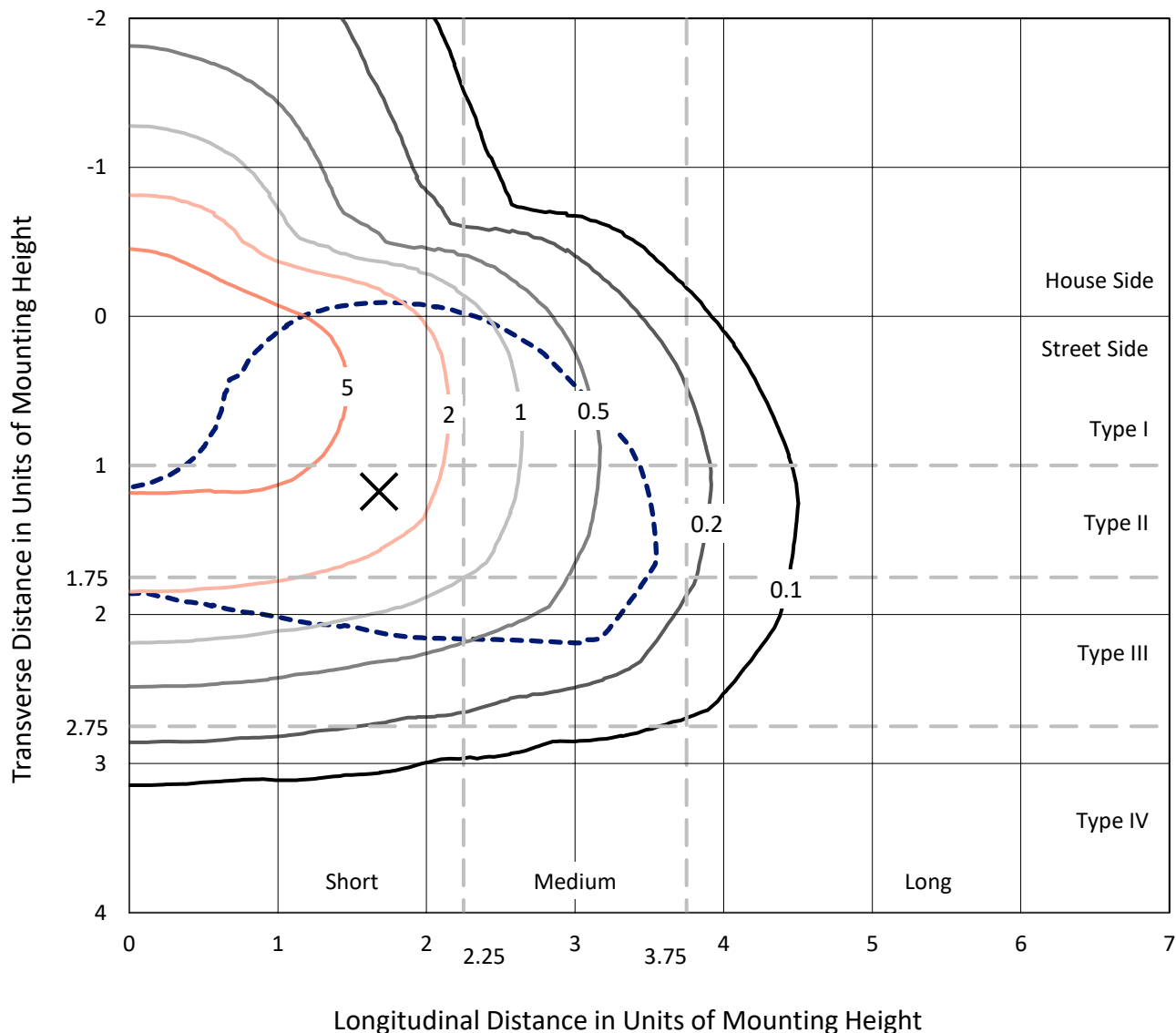
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

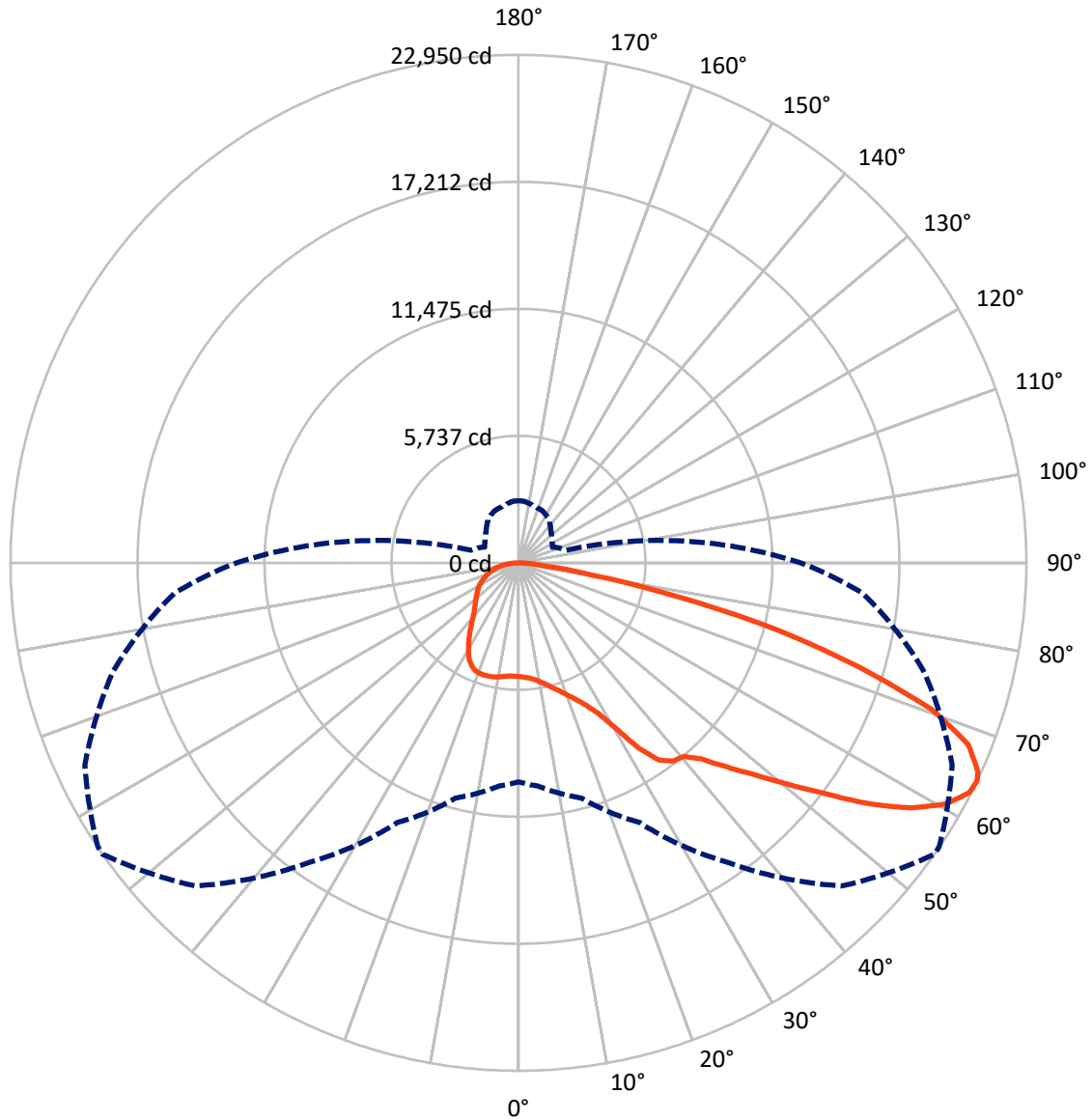
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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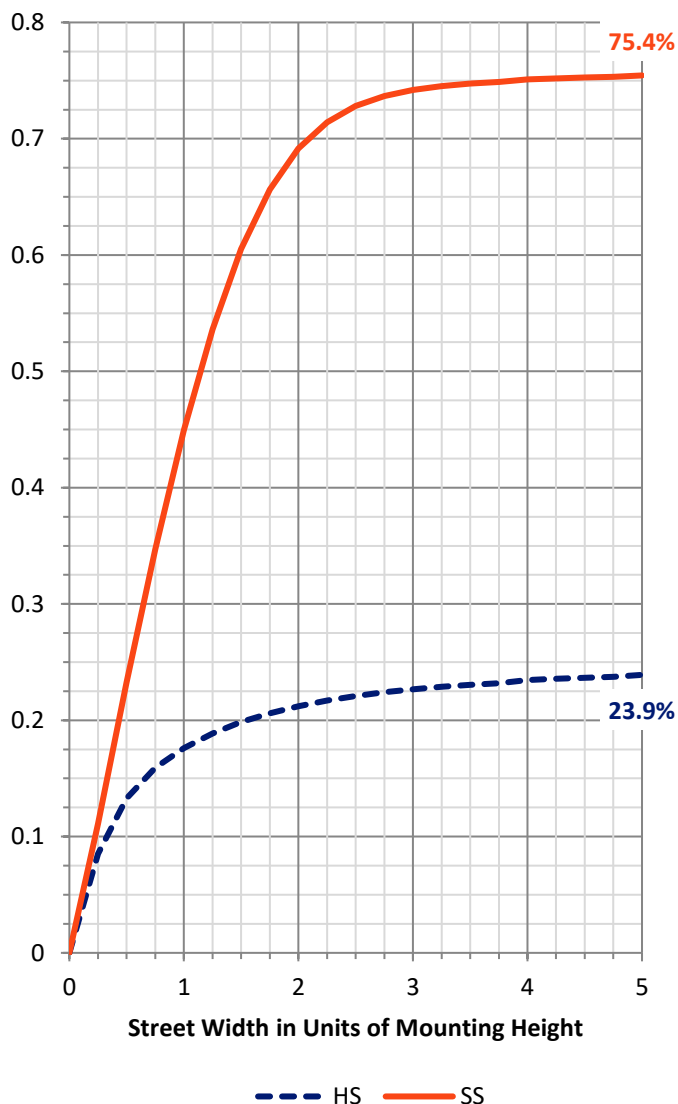
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9308.7	0.0	9308.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	29011.4	0.0	29011.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	38320.2	0.0	38320.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.1	1.3
10°-20°	1578.0	4.1
20°-30°	2809.3	7.3
30°-40°	4322.4	11.3
40°-50°	6127.4	16.0
50°-60°	8869.3	23.1
60°-70°	9178.8	24.0
70°-80°	4298.4	11.2
80°-90°	636.3	1.7
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°	38320.2	100.0
0°-180°	38320.2	100.0

Coefficient of Utilization



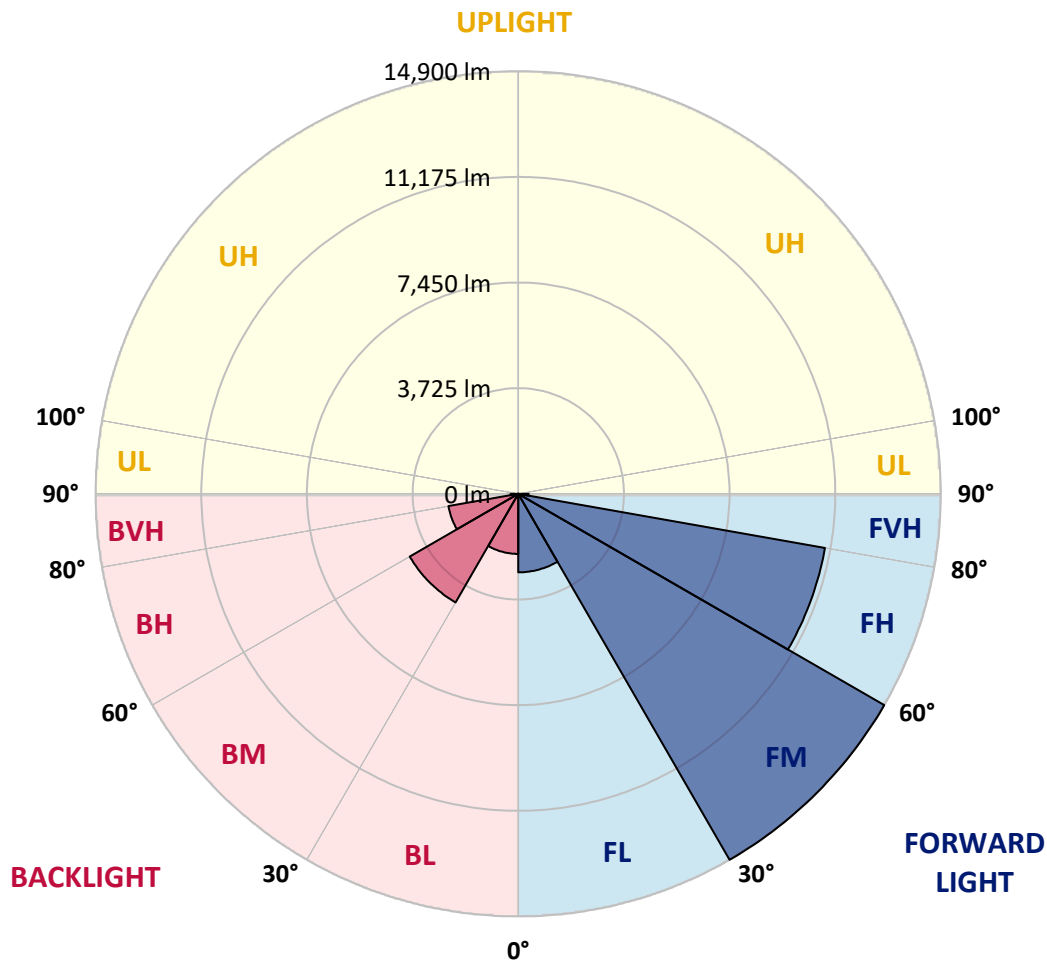
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2767.3	7.2			
FM (30°-60°)	14899.9	38.9			
FH (60°-80°)	10979.9	28.7			G4/12000
FVH (80°-90°)	364.3	1.0			G3/500
BL (0°-30°)	2120.2	5.5	B3/2500		
BM (30°-60°)	4419.2	11.5	B3/5000		
BH (60°-80°)	2497.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	272.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4
2.5°	5199.1	5197.0	5203.4	5197.0	5201.2	5186.3	5179.9	5184.1	5177.7	5167.0	5147.8
5°	5263.1	5261.0	5263.1	5254.7	5258.9	5250.4	5235.4	5239.7	5229.0	5205.5	5177.7
7.5°	5372.1	5363.6	5363.6	5361.5	5352.9	5340.1	5329.4	5325.1	5314.4	5284.5	5241.8
10°	5513.1	5513.1	5515.2	5498.1	5508.8	5485.3	5474.7	5472.5	5436.1	5397.7	5337.9
12.5°	5699.0	5709.6	5703.2	5694.7	5690.4	5681.8	5645.5	5654.0	5613.5	5547.2	5474.7
15°	5929.6	5946.7	5936.0	5931.7	5921.1	5889.0	5874.0	5867.7	5814.3	5718.1	5622.0
17.5°	6235.1	6213.7	6205.2	6194.5	6149.6	6126.1	6100.4	6096.2	6049.2	5936.0	5786.5
20°	6502.0	6532.0	6514.9	6504.2	6459.3	6414.5	6395.2	6388.8	6348.3	6224.4	5985.1
22.5°	6820.3	6826.7	6833.1	6807.5	6786.1	6752.0	6717.8	6707.1	6692.2	6564.0	6271.3
25°	7159.9	7185.6	7164.2	7138.6	7112.9	7110.8	7142.9	7138.6	7132.2	7008.3	6651.6
27.5°	7713.1	7736.7	7743.1	7715.3	7617.0	7625.6	7698.3	7721.7	7820.0	7614.9	7140.8
30°	8025.1	8048.5	8101.9	8206.6	8362.6	8499.2	8674.4	8727.8	8821.8	8435.1	7721.7
32.5°	8217.2	8225.8	8321.9	8516.3	8984.2	9494.6	9971.0	9990.2	10050.0	9507.4	8253.6
35°	8520.6	8527.0	8603.9	8817.5	9366.5	10216.6	10953.5	10977.1	10927.9	9840.6	8501.4
37.5°	8894.4	8911.5	8960.6	9137.9	9793.7	10821.1	11361.5	11344.4	10908.7	10105.5	8939.2
40°	9439.0	9439.0	9381.4	9620.6	10244.4	11167.1	11504.6	11474.7	11359.4	10872.4	9605.7
42.5°	9919.7	9911.2	10047.8	10210.2	10808.3	11701.2	12104.8	12154.0	12344.1	11835.7	10364.0
45°	10545.6	10584.0	10660.9	10955.7	11767.4	12613.2	13134.4	13181.4	13450.5	12969.9	11250.5
47.5°	11177.8	11190.6	11432.0	11825.0	12955.0	13850.0	14277.2	14354.1	14599.8	14296.4	12205.3
50°	11626.4	11748.1	12134.8	12754.2	14178.9	15358.0	15691.2	15783.0	16216.7	15740.3	13318.1
52.5°	12100.6	12220.2	12692.3	13636.4	15584.4	16900.2	17310.3	17372.3	17823.0	17201.4	14456.6
55°	12506.4	12617.5	13153.7	14418.2	16703.7	18474.5	19217.8	19145.2	19360.9	18327.1	15334.5
57.5°	12572.6	12662.3	13337.3	14918.0	17545.3	19824.5	20890.3	20933.0	20683.1	19168.7	16058.6
60°	12060.0	12243.7	13019.1	14864.6	17923.4	20764.3	22137.7	22167.7	21458.5	19600.2	16347.0
62.5°	11152.2	11133.0	12070.7	14005.9	17393.6	20977.9	22872.5	22840.5	21761.8	19393.0	16067.1
64°	9898.3	10129.0	11004.8	12950.7	16539.3	20648.9	22949.5	22932.4	21616.6	18961.5	15590.9
65°	9133.6	9120.8	9985.9	12087.8	15689.1	20153.4	22812.7	22789.2	21313.2	18574.8	15221.3
67.5°	6593.9	6623.8	7478.3	9328.0	12754.2	18216.0	21922.0	21834.5	20117.1	17293.2	13815.8
70°	3994.3	4011.5	4682.2	6188.1	9155.0	14725.7	19760.4	19764.6	18286.5	15379.4	11758.8
72.5°	2104.0	2148.8	2418.0	3513.8	5560.1	10331.9	16030.9	16411.1	15699.8	13125.9	9289.6
75°	1170.5	1177.0	1367.0	1732.3	2836.6	5782.2	12049.3	12158.3	12429.6	10564.8	6869.5
77.5°	892.9	905.7	965.5	1119.3	1544.3	2680.7	7292.4	7839.2	8759.9	7448.3	3919.6
80°	724.1	737.0	788.2	880.0	1027.4	1270.9	3387.7	3682.5	4688.6	3306.6	1529.4
82.5°	563.9	555.4	621.6	681.4	747.6	751.9	1390.6	1537.9	1909.6	1422.6	662.2
85°	418.6	418.6	472.1	459.3	482.7	440.0	613.0	677.1	764.7	604.5	307.6
87.5°	166.6	183.7	309.7	277.7	215.7	173.0	226.4	239.3	264.8	237.1	128.2
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°	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4
2.5°	5149.9	5156.3	5141.4	5130.7	5126.5	5120.0	5113.6	5115.8	5124.3	5132.9	5130.7
5°	5175.6	5177.7	5152.1	5139.3	5130.7	5122.2	5122.2	5128.6	5145.7	5158.5	5158.5
7.5°	5239.7	5239.7	5203.4	5179.9	5167.0	5152.1	5147.8	5149.9	5162.7	5179.9	5182.0
10°	5340.1	5331.5	5284.5	5248.2	5224.7	5188.4	5156.3	5139.3	5145.7	5156.3	5156.3
12.5°	5461.8	5438.3	5378.5	5329.4	5271.7	5203.4	5137.2	5102.9	5100.8	5111.5	5107.2
15°	5592.1	5566.5	5483.2	5393.5	5293.1	5192.7	5113.6	5064.5	5026.1	5015.4	5038.9
17.5°	5743.8	5690.4	5575.0	5451.1	5301.6	5171.3	5047.4	4947.0	4878.6	4859.5	4865.9
20°	5927.5	5857.0	5701.1	5506.7	5295.2	5094.4	4902.2	4767.6	4656.5	4622.4	4626.6
22.5°	6181.7	6059.9	5831.3	5534.5	5241.8	4949.2	4682.2	4507.0	4372.4	4319.0	4351.1
25°	6470.0	6337.6	5955.2	5528.1	5102.9	4716.3	4421.6	4193.0	4071.3	3992.2	4009.3
27.5°	6867.4	6632.4	6087.7	5470.4	4904.3	4432.2	4090.5	3874.7	3763.6	3723.1	3742.3
30°	7375.7	7014.7	6230.8	5314.4	4590.3	4073.4	3757.3	3616.3	3550.1	3498.8	3515.9
32.5°	7743.1	7283.8	6262.8	5051.7	4250.7	3746.6	3530.9	3426.1	3353.6	3304.5	3315.1
35°	8005.8	7512.4	6247.9	4729.2	3896.1	3477.5	3351.4	3265.9	3148.5	3041.7	3022.5
37.5°	8358.3	7798.6	6139.0	4376.7	3545.8	3295.9	3206.1	3048.1	2879.3	2736.3	2729.8
40°	8898.7	8134.0	5906.1	3962.3	3246.8	3161.3	3052.4	2847.3	2665.7	2550.4	2541.8
42.5°	9456.2	8443.7	5590.0	3526.6	3001.1	3020.4	2887.9	2685.0	2573.9	2499.1	2490.6
45°	10137.6	8779.0	5248.2	3148.5	2819.5	2887.9	2744.8	2627.3	2561.1	2512.0	2499.1
47.5°	10874.5	9123.0	4863.8	2808.9	2665.7	2766.1	2685.0	2631.6	2595.2	2561.1	2546.1
50°	11669.1	9507.4	4502.7	2535.4	2527.0	2640.2	2678.6	2659.3	2638.0	2627.3	2614.5
52.5°	12540.6	9900.5	4199.4	2343.2	2405.2	2550.4	2680.7	2695.7	2695.7	2689.3	2680.7
55°	13130.1	10173.9	3891.8	2187.3	2281.3	2477.8	2676.4	2734.1	2755.5	2747.0	2738.4
57.5°	13565.9	10323.4	3505.2	2052.7	2176.6	2407.3	2652.9	2738.4	2759.7	2770.4	2766.1
60°	13655.6	10184.6	2999.0	1911.8	2063.4	2304.8	2567.5	2674.3	2702.0	2768.3	2774.7
62.5°	13251.9	9757.4	2494.9	1772.9	1924.5	2148.8	2452.2	2601.7	2657.2	2759.7	2770.4
64°	12756.4	9278.9	2215.0	1685.4	1834.8	2061.3	2394.5	2582.5	2655.0	2791.8	2800.4
65°	12393.2	8930.7	2039.9	1629.8	1777.2	2003.6	2362.5	2588.9	2674.3	2840.9	2853.8
67.5°	11056.0	7732.4	1687.5	1499.5	1640.5	1905.4	2368.8	2642.3	2670.0	2860.2	2858.0
70°	9148.6	6156.0	1414.1	1379.9	1508.0	1826.3	2343.2	2556.8	2559.0	2685.0	2655.0
72.5°	6850.2	4549.7	1226.1	1255.9	1360.7	1638.4	2212.9	2441.5	2405.2	2422.2	2392.3
75°	4705.6	3009.7	1055.2	1123.6	1206.8	1448.2	2029.2	2217.2	2159.5	2138.2	2116.8
77.5°	2512.0	1664.0	877.9	993.2	1048.8	1251.7	1770.7	1952.3	1892.5	1809.2	1781.4
80°	1016.8	783.9	707.0	822.3	854.4	1008.2	1473.9	1587.1	1542.2	1397.0	1350.0
82.5°	510.5	470.0	555.4	647.2	649.3	719.8	1095.7	1202.5	1102.2	924.9	884.3
85°	267.0	275.5	382.3	455.0	401.6	388.8	657.9	728.4	668.6	581.0	523.4
87.5°	96.1	111.1	200.7	198.6	141.0	74.8	145.2	70.5	38.4	23.5	29.9
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)