

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: P648608

Luminaire Tested: **GALN-SA8B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21222.4 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

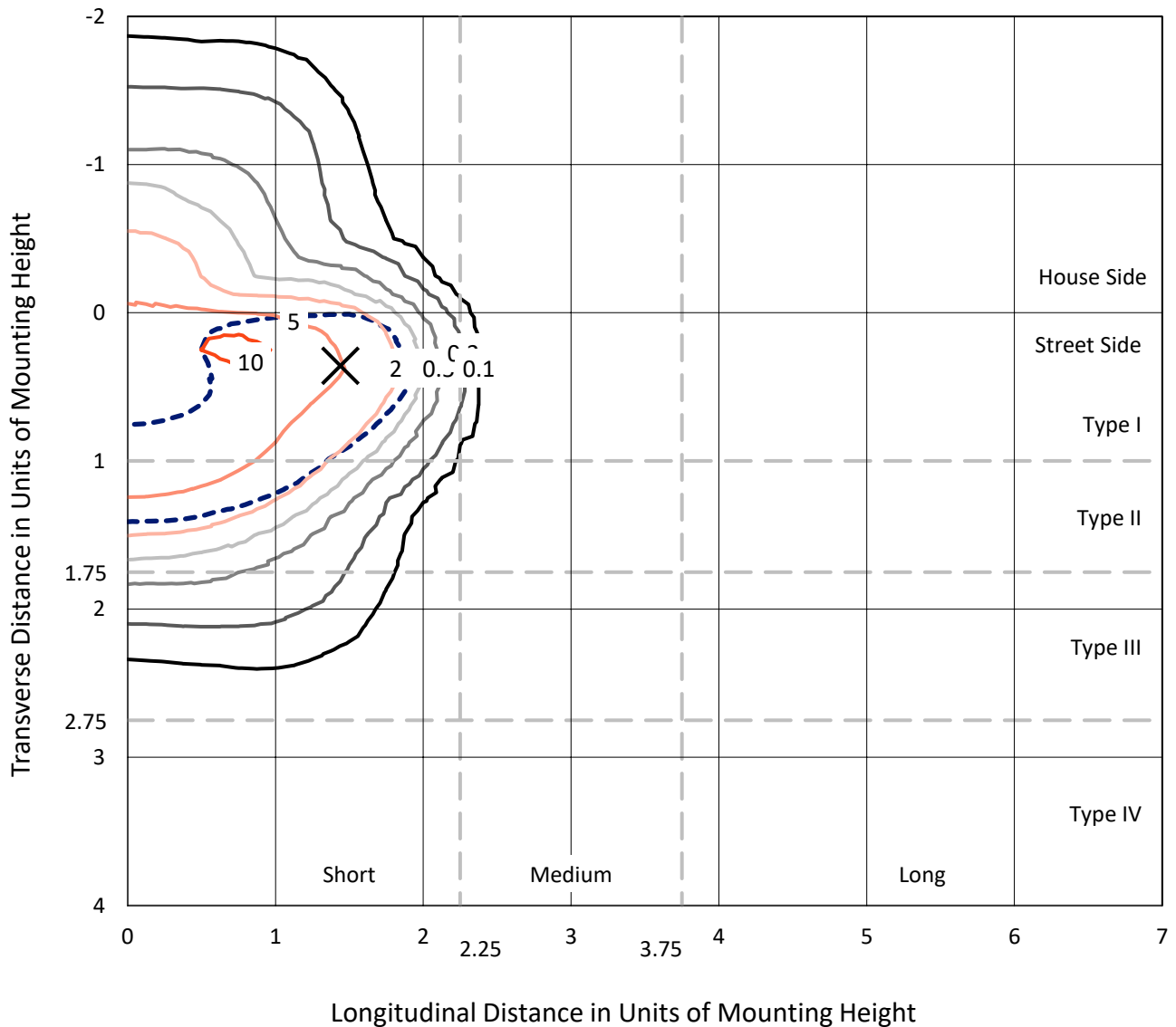
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

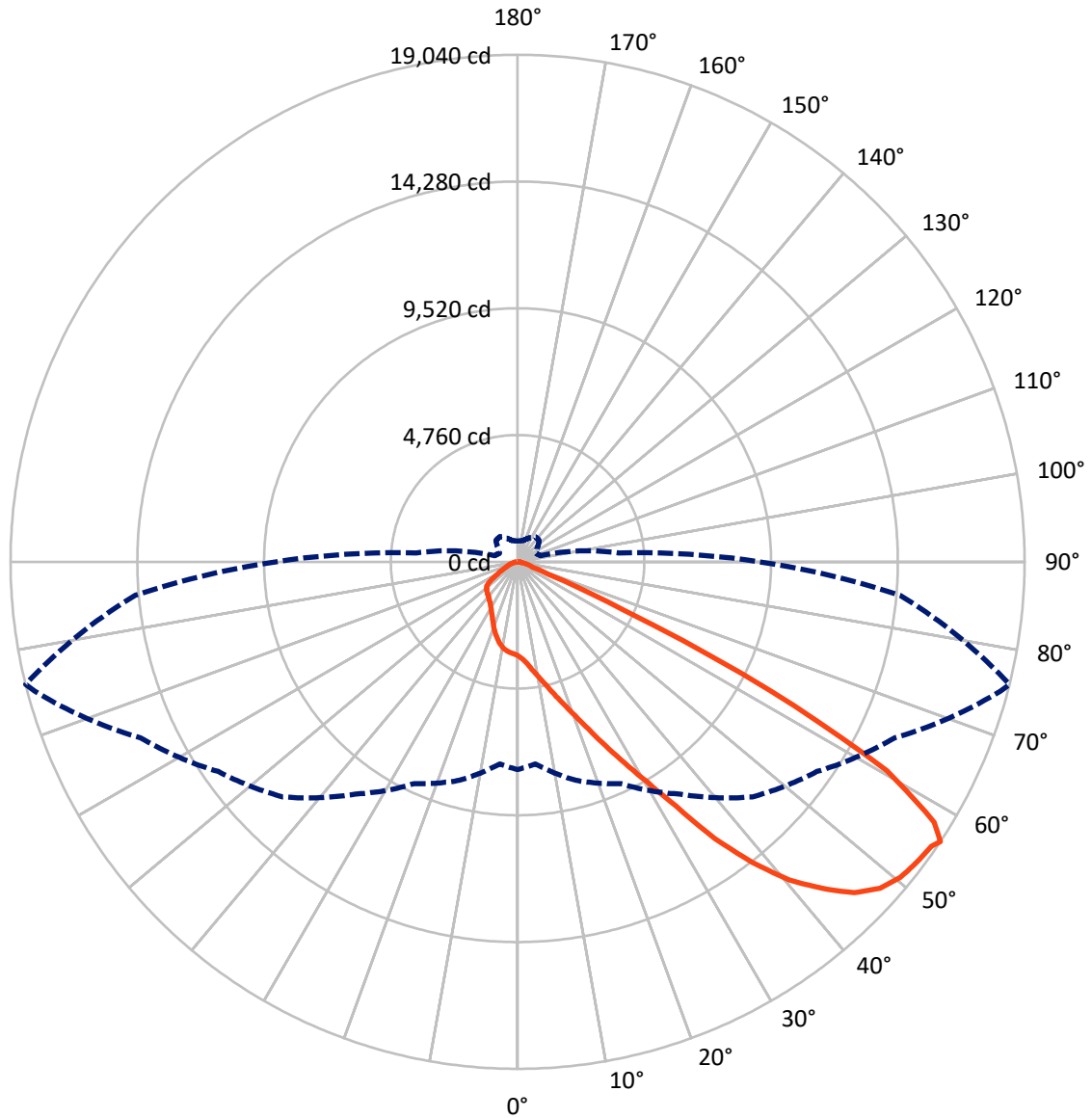
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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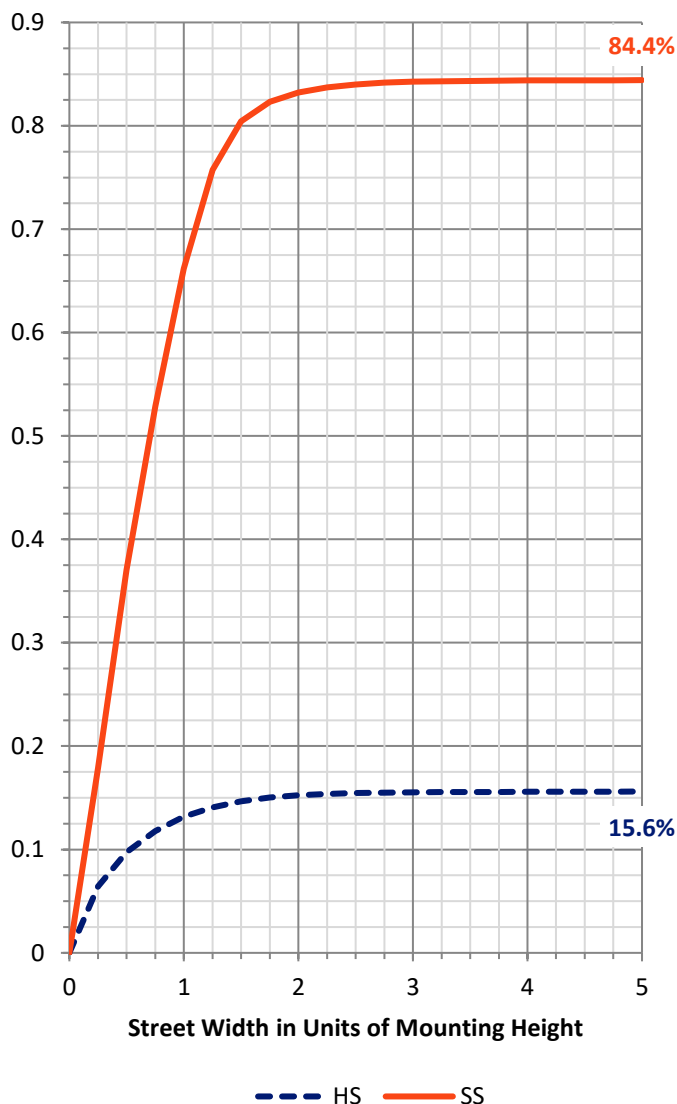
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.9	0.0	3333.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17888.5	0.0	17888.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	21222.4	0.0	21222.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.7
10°-20°	1143.2	5.4
20°-30°	2073.0	9.8
30°-40°	3574.9	16.8
40°-50°	5807.6	27.4
50°-60°	6121.4	28.8
60°-70°	1870.3	8.8
70°-80°	239.8	1.1
80°-90°	36.4	0.2
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°	21222.4	100.0
0°-180°	21222.4	100.0

Coefficient of Utilization



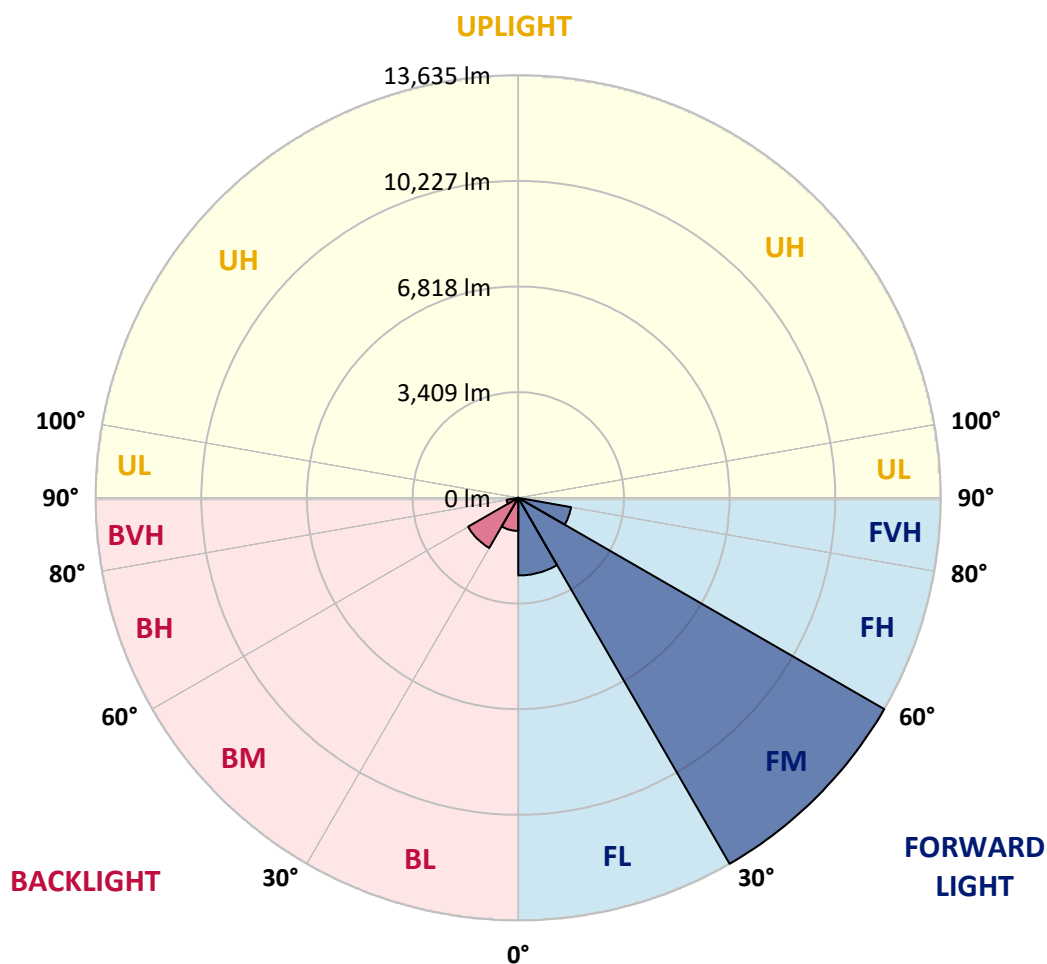
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2505.5	11.8			
FM (30°-60°)	13635.4	64.2			
FH (60°-80°)	1729.8	8.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1066.5	5.0	B3/2500		
BM (30°-60°)	1868.5	8.8	B2/2500		
BH (60°-80°)	380.3	1.8	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5
2.5°	4068.5	3974.6	3978.5	3970.7	3958.9	3915.9	3786.7	3767.2	3681.2	3657.7	3579.5
5°	4557.5	4475.3	4522.2	4451.8	4385.3	4346.2	4134.9	4037.1	3900.2	3849.4	3739.8
7.5°	4862.6	4823.4	4807.8	4811.7	4749.1	4651.3	4557.5	4342.3	4158.4	4119.3	3888.5
10°	5011.2	4987.8	5011.2	4999.5	5026.9	5038.6	4874.3	4745.2	4475.3	4408.8	4048.9
12.5°	5046.4	5093.4	5112.9	5163.8	5230.3	5343.7	5332.0	5156.0	4796.1	4753.0	4295.3
15°	5132.5	5171.6	5152.1	5234.2	5359.4	5551.1	5652.8	5625.4	5238.1	5159.9	4580.9
17.5°	5210.7	5140.3	5206.8	5371.1	5496.3	5789.7	6036.1	6149.6	5719.3	5629.3	4843.0
20°	5316.3	5296.8	5285.1	5367.2	5590.2	5981.4	6470.4	6677.7	6259.1	6165.3	5218.5
22.5°	5637.1	5641.0	5633.2	5511.9	5672.4	6114.4	6849.8	7362.3	6904.7	6826.4	5645.0
25°	6059.6	6008.7	5969.7	5871.9	5852.3	6235.7	7233.2	8199.5	7679.2	7624.4	6106.6
27.5°	6505.6	6505.6	6388.3	6298.3	6173.1	6536.9	7585.3	9013.2	8614.2	8539.8	6509.5
30°	6990.7	7018.0	7002.4	6810.8	6732.5	6865.5	7945.2	10053.7	9686.0	9592.1	7174.6
32.5°	7706.6	7647.9	7714.4	7554.0	7323.2	7440.5	8512.5	10984.8	11078.7	10945.7	8046.9
35°	8653.2	8618.1	8575.0	8313.0	8039.1	8132.9	9314.4	12131.0	12827.3	12760.9	8927.1
37.5°	9502.2	9482.6	9447.4	9267.4	8950.6	9064.0	10225.9	13324.2	14532.9	14313.9	10171.1
40°	10394.1	10499.7	10386.3	10225.9	9936.4	10186.8	11297.8	14032.2	15968.7	15702.6	11121.7
42.5°	11602.9	11520.7	11571.6	11278.2	11121.7	11395.5	12373.5	14740.3	17083.6	16766.7	12131.0
45°	12889.9	12893.8	12756.9	12663.1	12256.2	12553.5	13034.7	15131.5	17971.6	17725.1	12893.8
47.5°	13715.3	13711.4	13860.1	14008.7	13590.1	13296.7	13484.5	15503.1	18429.2	18315.9	13171.6
50°	13586.2	13625.4	13817.1	14372.6	14591.6	14196.5	13907.0	15393.6	18636.6	18624.9	13410.2
52.5°	11818.1	11947.2	12268.0	13069.9	14173.1	14662.1	14349.1	15597.0	18738.3	18757.9	13766.2
55°	8997.5	9067.9	9678.2	10652.3	11872.8	13547.2	14173.1	15757.4	18816.6	18851.7	14196.5
56°	7804.4	7616.6	8496.8	9189.2	10648.4	12479.1	13727.1	15632.2	18769.6	19039.5	14411.7
57.5°	5891.4	5766.2	6478.2	7342.7	8747.1	10679.7	12342.3	15041.5	18452.7	18448.8	14102.6
60°	3583.4	3458.2	4005.8	4514.4	5300.8	6576.0	8340.3	11978.4	15600.9	15929.5	11419.0
62.5°	2132.0	2210.3	2750.1	3059.2	3313.4	3446.5	4314.9	7119.7	10409.8	10644.5	7084.6
65°	1420.0	1447.5	1854.3	2362.9	2476.2	1971.6	1756.5	2883.1	4514.4	4369.7	2922.2
67.5°	876.3	938.9	1244.0	1776.0	1967.8	1439.6	833.3	1075.8	1244.0	1244.0	845.0
70°	532.0	563.3	829.4	1208.8	1349.7	927.2	606.4	606.4	598.5	586.8	504.6
72.5°	254.2	273.8	422.5	622.0	633.8	489.0	469.4	512.5	500.7	496.8	418.6
75°	109.5	117.4	148.7	195.6	223.0	207.3	285.6	367.7	379.4	367.7	301.2
77.5°	35.2	39.2	54.7	70.4	74.3	90.0	121.3	152.5	176.0	164.3	148.7
80°	3.9	7.8	15.7	35.2	54.7	70.4	90.0	101.7	113.5	113.5	105.6
82.5°	3.9	3.9	15.7	31.3	50.8	66.5	86.1	97.8	113.5	117.4	109.5
85°	0.0	3.9	11.7	27.4	43.1	43.1	39.2	39.2	27.4	27.4	27.4
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5
2.5°	3563.8	3556.0	3450.4	3383.8	3348.7	3278.3	3235.2	3203.9	3180.5	3153.1	3157.0
5°	3610.7	3583.4	3407.3	3286.0	3141.3	3063.1	2996.5	2941.8	2906.6	2898.7	2883.1
7.5°	3743.8	3599.0	3333.0	3113.9	2930.1	2851.8	2793.1	2758.0	2773.6	2738.4	2765.8
10°	3845.5	3630.3	3243.0	2926.1	2742.3	2683.6	2652.3	2679.7	2718.8	2703.2	2683.6
12.5°	3970.7	3661.6	3098.3	2746.2	2574.1	2531.0	2585.8	2636.7	2714.9	2746.2	2707.1
15°	4111.5	3696.8	2914.4	2538.9	2429.3	2464.6	2558.5	2648.4	2726.6	2765.8	2789.2
17.5°	4283.6	3685.1	2734.5	2374.5	2292.4	2394.1	2507.6	2589.7	2707.1	2765.8	2750.1
20°	4444.0	3646.0	2535.0	2210.3	2214.2	2308.0	2401.9	2535.0	2597.5	2675.8	2648.4
22.5°	4596.5	3575.6	2327.6	2096.8	2096.8	2241.6	2288.5	2374.5	2429.3	2468.5	2464.6
25°	4811.7	3442.5	2155.5	1987.3	2034.2	2128.1	2167.3	2194.6	2171.1	2202.4	2206.3
27.5°	4964.3	3305.6	2014.7	1889.5	1975.5	2046.0	2034.2	2018.6	1963.8	1920.8	1948.2
30°	5128.6	3145.2	1893.4	1823.0	1869.9	1932.5	1885.5	1838.6	1752.6	1682.1	1686.0
32.5°	5363.3	3070.9	1787.7	1744.8	1807.3	1815.2	1764.3	1693.9	1607.8	1541.3	1537.4
35°	5801.5	3023.9	1697.8	1693.9	1705.6	1709.5	1658.7	1572.6	1537.4	1482.6	1502.2
37.5°	6239.6	3000.5	1635.2	1619.6	1615.6	1619.6	1560.9	1478.7	1545.3	1541.3	1549.2
40°	6799.0	3106.1	1545.3	1525.7	1529.6	1529.6	1455.3	1431.8	1549.2	1560.9	1564.8
42.5°	7366.2	3239.1	1486.5	1424.0	1439.6	1439.6	1400.5	1373.1	1455.3	1377.0	1365.2
45°	7859.1	3434.7	1424.0	1322.3	1361.4	1380.9	1369.2	1322.3	1271.4	1138.4	1138.4
47.5°	8019.6	3606.8	1349.7	1224.5	1255.8	1341.8	1306.6	1208.8	1118.8	1009.3	1001.5
50°	8301.2	3794.6	1290.9	1111.0	1177.5	1283.1	1247.9	1150.1	1048.4	970.1	974.1
52.5°	8590.7	4009.7	1181.4	978.0	1060.2	1236.2	1236.2	1126.7	970.1	915.4	907.6
55°	9024.9	4001.9	985.8	801.9	946.7	1165.7	1185.3	1009.3	868.4	825.4	825.4
56°	9087.5	3822.0	888.0	751.1	895.8	1146.2	1150.1	978.0	829.4	782.4	782.4
57.5°	8618.1	3450.4	778.5	688.5	833.3	1111.0	1114.9	950.6	798.0	731.6	723.7
60°	6630.8	2335.5	649.4	614.2	755.0	1001.5	1021.0	864.5	700.2	649.4	645.5
62.5°	3743.8	1294.8	571.1	555.5	649.4	852.8	911.5	755.0	594.6	567.2	575.0
65°	1709.5	712.0	481.2	449.9	524.2	657.2	735.5	622.0	489.0	457.7	457.7
67.5°	625.9	485.1	410.8	356.0	367.7	426.4	477.2	402.9	324.7	277.7	289.5
70°	446.0	406.8	359.9	309.1	285.6	277.7	273.8	226.9	160.4	125.2	133.0
72.5°	359.9	336.5	301.2	262.1	223.0	187.8	160.4	117.4	74.3	50.8	47.0
75°	258.2	246.5	219.1	187.8	156.4	133.0	109.5	74.3	39.2	19.6	19.6
77.5°	133.0	133.0	129.1	117.4	97.8	78.2	62.6	43.1	23.5	7.8	7.8
80°	101.7	109.5	113.5	101.7	90.0	70.4	50.8	31.3	15.7	3.9	3.9
82.5°	97.8	113.5	121.3	105.6	90.0	66.5	50.8	31.3	15.7	3.9	3.9
85°	23.5	23.5	35.2	39.2	50.8	54.7	43.1	27.4	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0
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)