

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: P648671

Luminaire Tested: **GALN-SA9B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24120.3 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

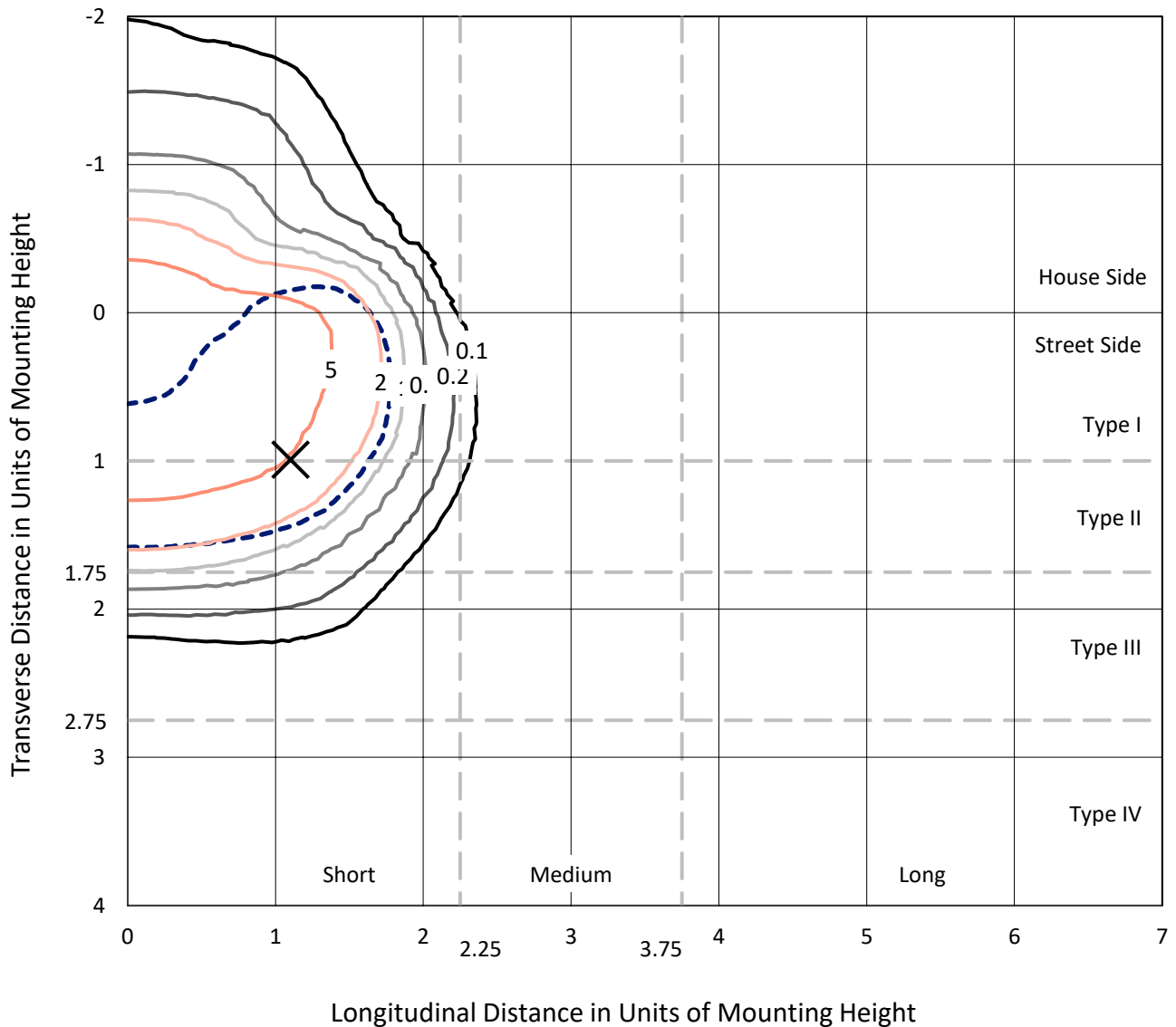
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

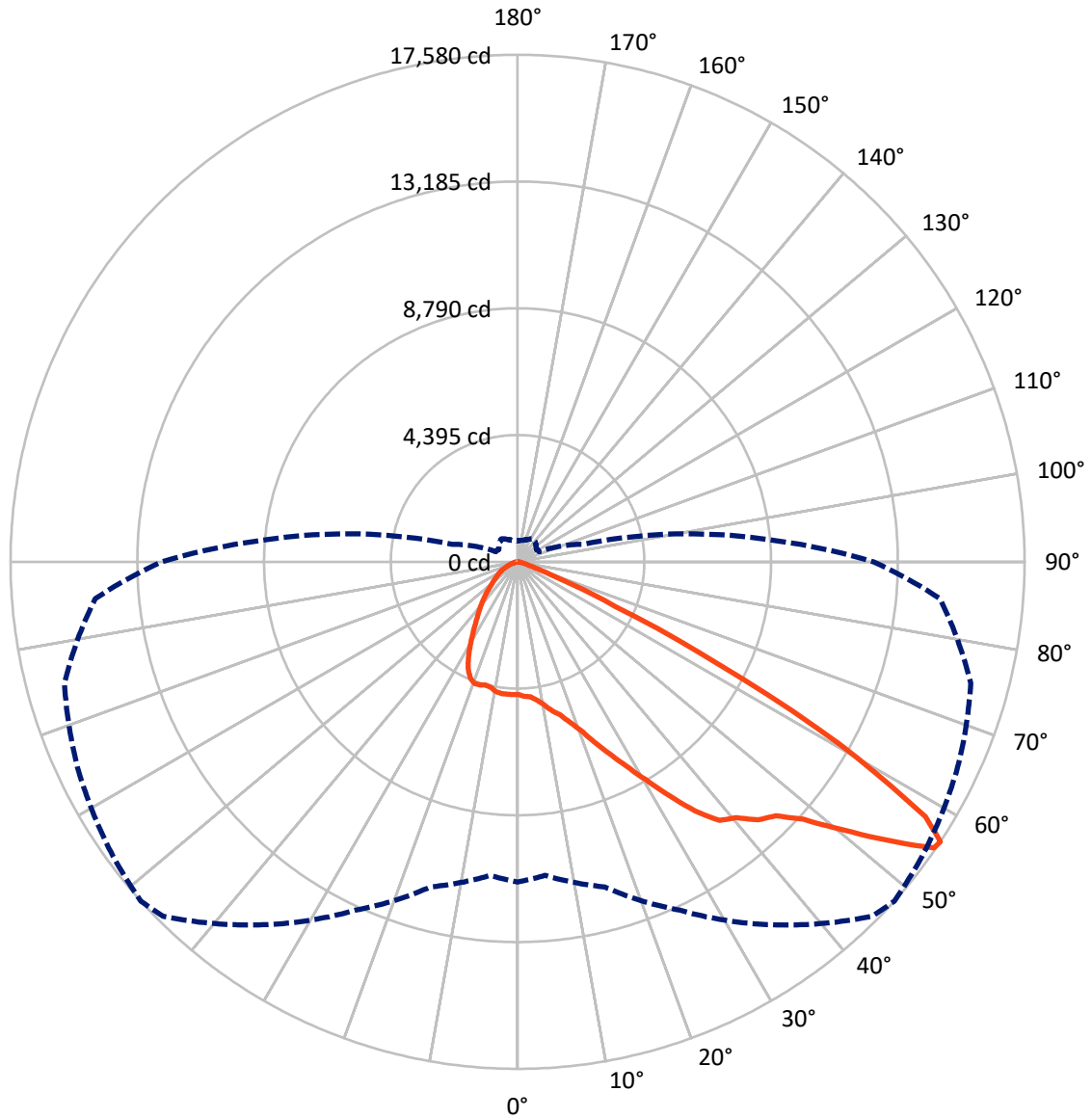
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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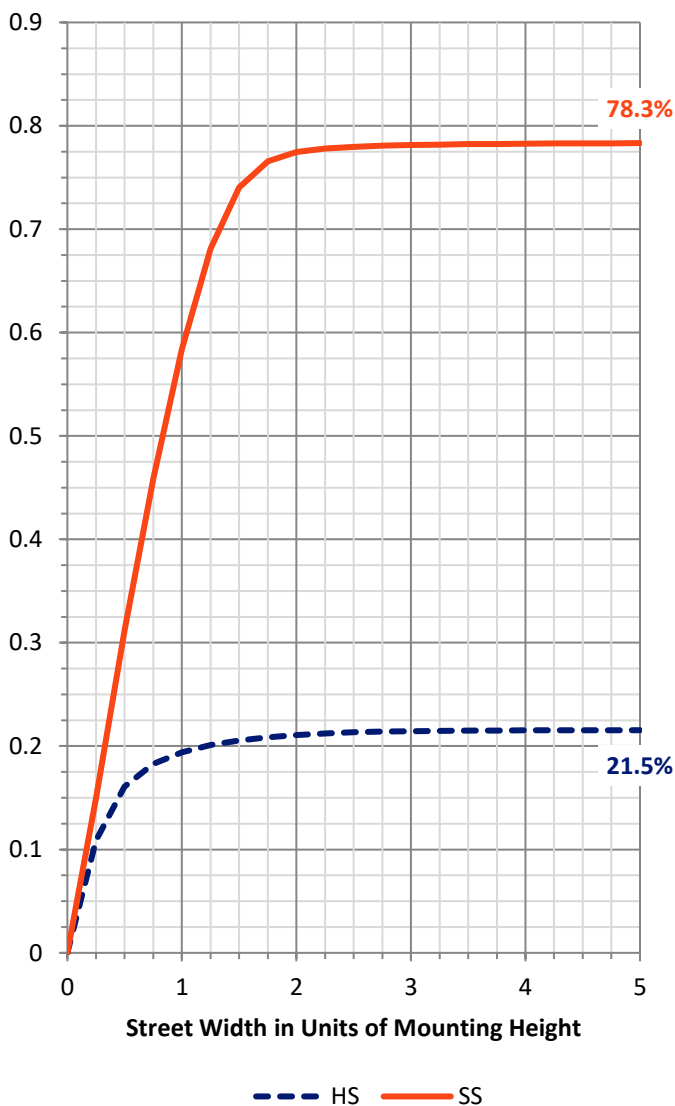
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.7	0.0	5245.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18874.6	0.0	18874.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	24120.3	0.0	24120.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	1.9
10°-20°	1434.2	5.9
20°-30°	2601.3	10.8
30°-40°	4086.2	16.9
40°-50°	5961.0	24.7
50°-60°	7181.9	29.8
60°-70°	2102.8	8.7
70°-80°	266.8	1.1
80°-90°	37.4	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°	24120.3	100.0
0°-180°	24120.3	100.0

Coefficient of Utilization

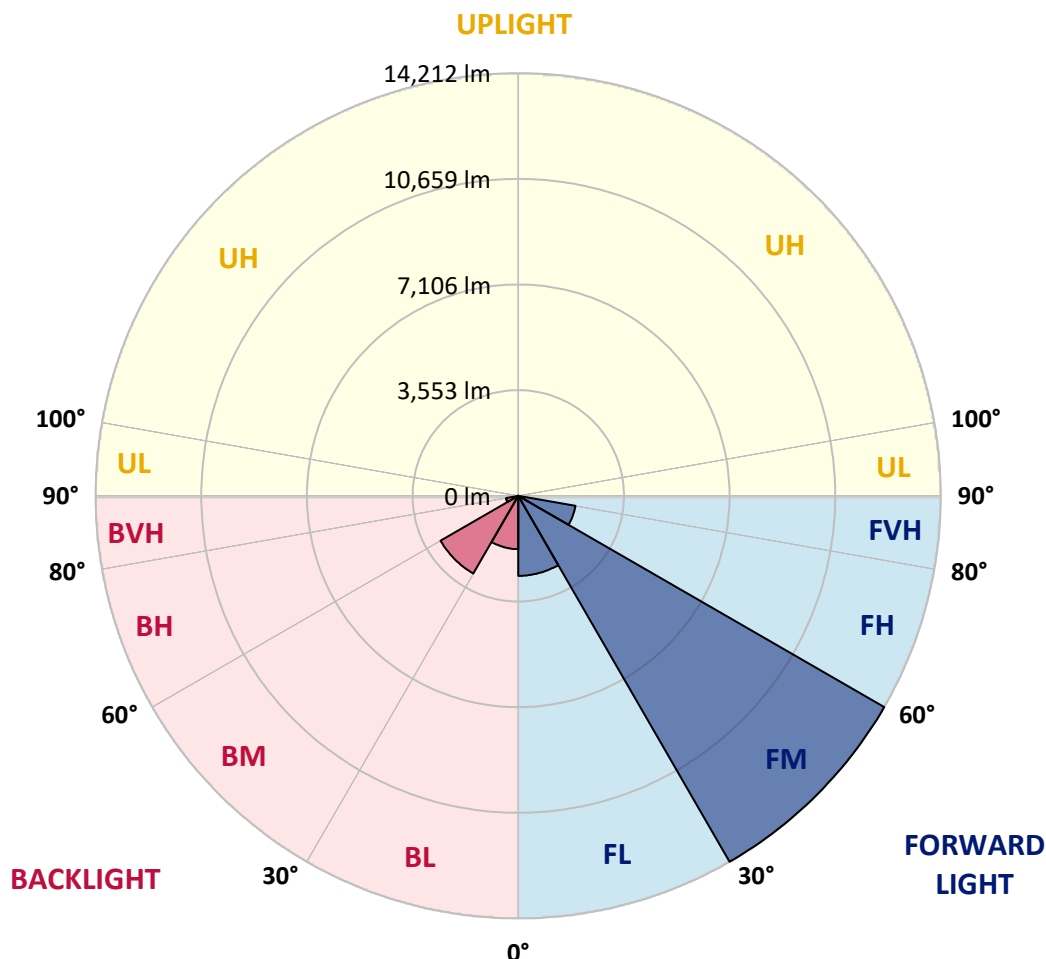


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.3	11.2			
FM (30°-60°)	14211.8	58.9			
FH (60°-80°)	1952.7	8.1			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1793.0	7.4	B3/2500		
BM (30°-60°)	3017.3	12.5	B3/5000		
BH (60°-80°)	416.8	1.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0
2.5°	4690.4	4668.5	4668.5	4633.3	4672.9	4655.3	4668.5	4624.6	4668.5	4602.6	4655.3
5°	4712.4	4716.8	4699.3	4721.2	4721.2	4747.6	4703.6	4743.1	4765.1	4716.8	4694.8
7.5°	4826.6	4835.3	4831.0	4813.4	4848.6	4844.2	4839.7	4809.0	4817.8	4800.3	4773.9
10°	5050.6	5046.2	5068.1	5024.2	4997.9	5028.6	5037.4	4989.0	4954.0	4940.7	4857.3
12.5°	5375.5	5322.8	5292.1	5248.2	5261.4	5217.4	5296.5	5213.1	5195.5	5116.4	5033.0
15°	5639.1	5630.2	5634.7	5564.4	5485.4	5502.9	5502.9	5459.0	5432.6	5336.1	5217.4
17.5°	6179.3	5994.8	6034.3	5946.5	5880.6	5876.2	5836.7	5845.5	5775.2	5573.2	5393.1
20°	6600.8	6521.8	6460.3	6311.0	6210.0	6240.7	6223.2	6179.3	6157.3	5893.8	5639.1
22.5°	6978.6	7004.9	6903.9	6864.4	6723.9	6737.0	6772.2	6732.6	6565.8	6293.4	5915.7
25°	7510.0	7479.2	7343.1	7294.7	7163.0	7211.4	7347.4	7316.7	7211.4	6719.5	6131.0
27.5°	8138.0	8032.6	8058.9	7839.3	7712.0	7848.2	8010.6	8164.3	7865.7	7220.1	6385.7
30°	8581.6	8471.7	8463.0	8454.2	8423.4	8581.6	8770.4	8910.9	8669.4	7720.8	6807.2
32.5°	8801.2	8827.5	8902.2	8875.8	9143.7	9468.7	9666.4	9868.4	9565.4	8537.7	7365.1
35°	9385.3	9218.3	9385.3	9402.8	9679.5	10369.0	10619.4	11102.5	11027.8	9692.7	8045.8
37.5°	9727.8	9714.7	9736.6	9903.5	10171.4	11023.4	11379.1	11752.4	11611.9	10386.6	8893.4
40°	10294.3	10329.5	10325.1	10452.5	10746.8	11515.3	11660.2	11963.2	11976.5	11348.4	10140.6
42.5°	11203.5	11062.9	10970.7	11102.5	11515.3	11941.3	12231.2	12169.6	12604.4	12516.6	11743.7
45°	12020.3	12103.8	11967.6	12187.2	12336.6	12565.0	12556.1	12687.9	13241.2	13658.5	12951.4
47.5°	12784.5	12837.2	12903.1	13052.4	13377.4	13412.6	13337.9	13280.8	14045.0	14475.3	13886.8
50°	13241.2	13289.5	13597.0	13864.9	14470.9	14550.0	14593.9	14449.0	14967.2	15015.5	14769.6
52.5°	13118.3	13171.0	13601.4	14484.2	15450.3	16175.0	16043.2	15797.3	15766.6	15955.3	15586.5
55°	12029.2	11980.8	12573.7	13948.4	15757.7	17496.9	17514.5	17255.4	16759.1	16631.7	15463.5
56°	11102.5	10913.6	11669.0	13329.1	15362.5	17382.7	17580.3	17303.7	16838.1	16267.2	14703.7
57.5°	9095.4	9275.5	10026.5	11401.1	13996.7	16561.5	16675.6	16609.8	16258.4	15301.0	12938.2
60°	5015.4	5331.6	5994.8	7676.8	9965.0	12709.8	12802.1	13337.9	13403.8	11717.3	8902.2
62.5°	2130.0	2094.9	2784.4	4022.9	5674.2	7672.5	7843.8	8392.7	8493.7	6754.5	4466.5
65°	865.2	913.5	1260.5	2024.6	2999.6	3495.9	3737.4	3917.5	4251.2	2788.8	1646.9
67.5°	571.0	566.6	742.2	1155.0	1616.2	1559.1	1559.1	1646.9	1524.0	1137.5	711.4
70°	408.4	421.6	531.4	799.3	1005.7	746.6	715.9	685.1	777.4	751.0	575.3
72.5°	267.9	285.5	355.7	478.7	522.7	408.4	408.4	491.9	641.2	606.0	470.0
75°	175.7	180.1	219.6	276.7	259.1	210.8	232.8	329.4	465.5	448.0	333.8
77.5°	118.5	123.0	149.3	180.1	144.9	118.5	127.4	166.9	228.4	228.4	175.7
80°	43.9	48.3	61.5	57.1	65.9	83.5	92.2	114.2	136.2	136.2	118.5
82.5°	0.0	4.4	13.2	30.8	48.3	65.9	74.7	87.9	101.0	114.2	109.8
85°	0.0	4.4	13.2	21.9	35.2	39.5	43.9	30.8	26.4	26.4	21.9
87.5°	0.0	0.0	4.4	4.4	4.4	4.4	4.4	4.4	8.8	4.4	4.4
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°	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0
2.5°	4607.0	4602.6	4602.6	4589.4	4615.8	4602.6	4611.4	4607.0	4549.9	4593.8	4563.1
5°	4655.3	4686.0	4637.7	4628.9	4593.8	4607.0	4607.0	4563.1	4602.6	4598.2	4589.4
7.5°	4778.3	4725.6	4672.9	4620.2	4611.4	4598.2	4549.9	4532.3	4563.1	4527.9	4580.6
10°	4831.0	4839.7	4760.7	4690.4	4624.6	4532.3	4466.5	4426.9	4378.6	4431.3	4462.1
12.5°	5072.5	4984.7	4848.6	4738.7	4514.8	4422.5	4356.7	4339.1	4422.5	4440.1	4409.4
15°	5156.0	5142.8	4967.1	4721.2	4488.4	4378.6	4391.8	4356.7	4365.5	4321.5	4330.3
17.5°	5327.2	5177.9	4971.5	4664.1	4484.0	4457.7	4378.6	4238.1	4159.1	4123.9	4154.6
20°	5516.1	5371.1	5072.5	4686.0	4523.5	4453.3	4194.1	4022.9	3860.4	3772.6	3777.0
22.5°	5683.0	5502.9	5028.6	4694.8	4558.7	4268.8	3957.0	3618.9	3416.8	3280.7	3285.1
25°	5885.0	5630.2	5046.2	4712.4	4466.5	3974.6	3526.6	3197.2	2955.7	2863.4	2894.2
27.5°	5999.2	5709.3	5142.8	4751.9	4224.9	3557.3	3074.3	2766.8	2626.3	2582.4	2577.9
30°	6341.8	5885.0	5261.4	4672.9	3820.9	3109.4	2661.4	2472.6	2336.5	2296.9	2305.7
32.5°	6851.2	6205.6	5415.1	4466.5	3408.0	2709.7	2393.6	2253.0	2125.6	2051.0	2042.2
35°	7277.2	6754.5	5577.5	4145.8	2929.4	2402.3	2204.7	2029.0	1835.7	1752.4	1730.4
37.5°	8089.7	7373.8	5542.5	3662.7	2472.6	2173.9	2002.7	1787.4	1620.6	1506.4	1493.2
40°	9170.0	8098.5	5371.1	3074.3	2134.4	1971.9	1787.4	1581.0	1374.6	1278.0	1269.2
42.5°	10483.2	8985.6	5059.4	2476.9	1796.3	1769.9	1603.0	1365.9	1181.4	1111.2	1115.5
45°	11550.4	9745.4	4743.1	1989.4	1545.9	1572.3	1427.3	1203.3	1076.0	1018.9	1018.9
47.5°	12499.0	10259.3	4400.5	1642.5	1313.2	1374.6	1247.2	1115.5	1005.7	961.8	953.0
50°	13412.6	10781.8	4058.1	1330.7	1119.9	1181.4	1168.2	1062.8	975.0	922.3	926.7
52.5°	13983.4	10865.3	3623.3	1089.2	979.4	1049.6	1093.5	996.9	900.3	869.6	860.8
55°	13285.2	9789.3	2810.7	895.9	830.1	922.3	1005.7	895.9	821.3	768.6	764.2
56°	12345.3	8752.8	2349.6	825.7	786.1	887.1	975.0	856.4	773.0	742.2	720.3
57.5°	10452.5	7163.0	1734.7	733.4	729.1	825.7	926.7	816.9	720.3	693.9	693.9
60°	6517.5	4031.7	1049.6	614.9	632.4	733.4	834.4	729.1	641.2	641.2	654.4
62.5°	2968.8	1677.7	636.8	522.7	544.6	632.4	742.2	658.7	610.4	658.7	667.6
65°	1010.1	724.7	461.1	417.2	430.4	522.7	636.8	667.6	663.1	693.9	711.4
67.5°	566.6	465.5	386.5	346.9	338.2	386.5	522.7	667.6	641.2	628.0	636.8
70°	478.7	395.3	342.6	307.4	294.3	311.8	404.0	505.0	452.3	439.2	430.4
72.5°	386.5	329.4	298.6	276.7	237.2	202.0	184.5	193.2	215.2	228.4	250.3
75°	272.3	250.3	250.3	224.0	171.2	127.4	101.0	83.5	57.1	39.5	43.9
77.5°	153.7	153.7	158.1	136.2	109.8	83.5	61.5	43.9	21.9	8.8	4.4
80°	105.4	114.2	123.0	109.8	92.2	74.7	52.7	30.8	13.2	0.0	0.0
82.5°	105.4	118.5	127.4	109.8	92.2	70.2	52.7	30.8	13.2	4.4	0.0
85°	21.9	26.4	30.8	35.2	52.7	52.7	39.5	26.4	13.2	4.4	0.0
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	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)