

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: P652030

Luminaire Tested: **GALN-SA7A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23384.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

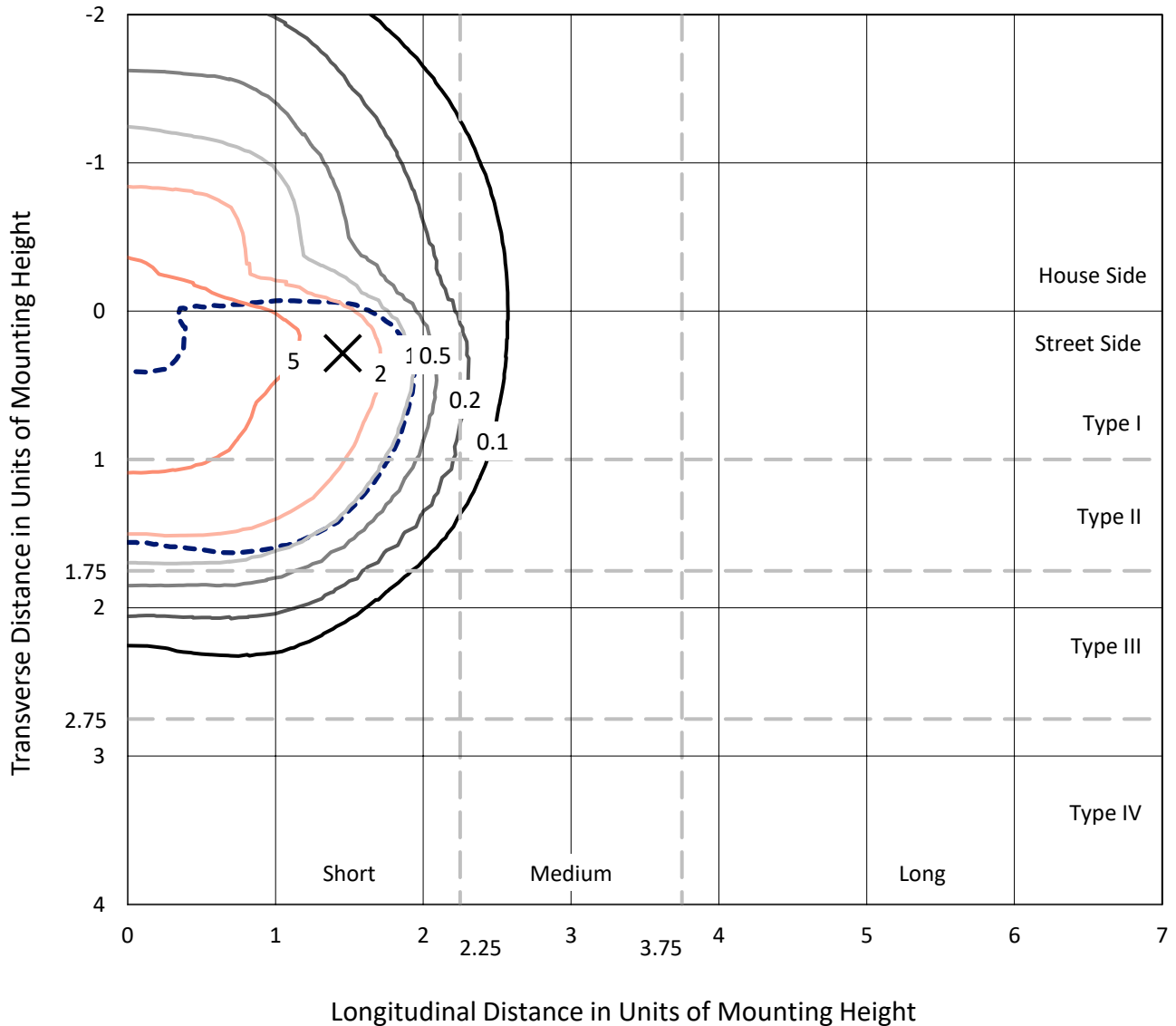
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

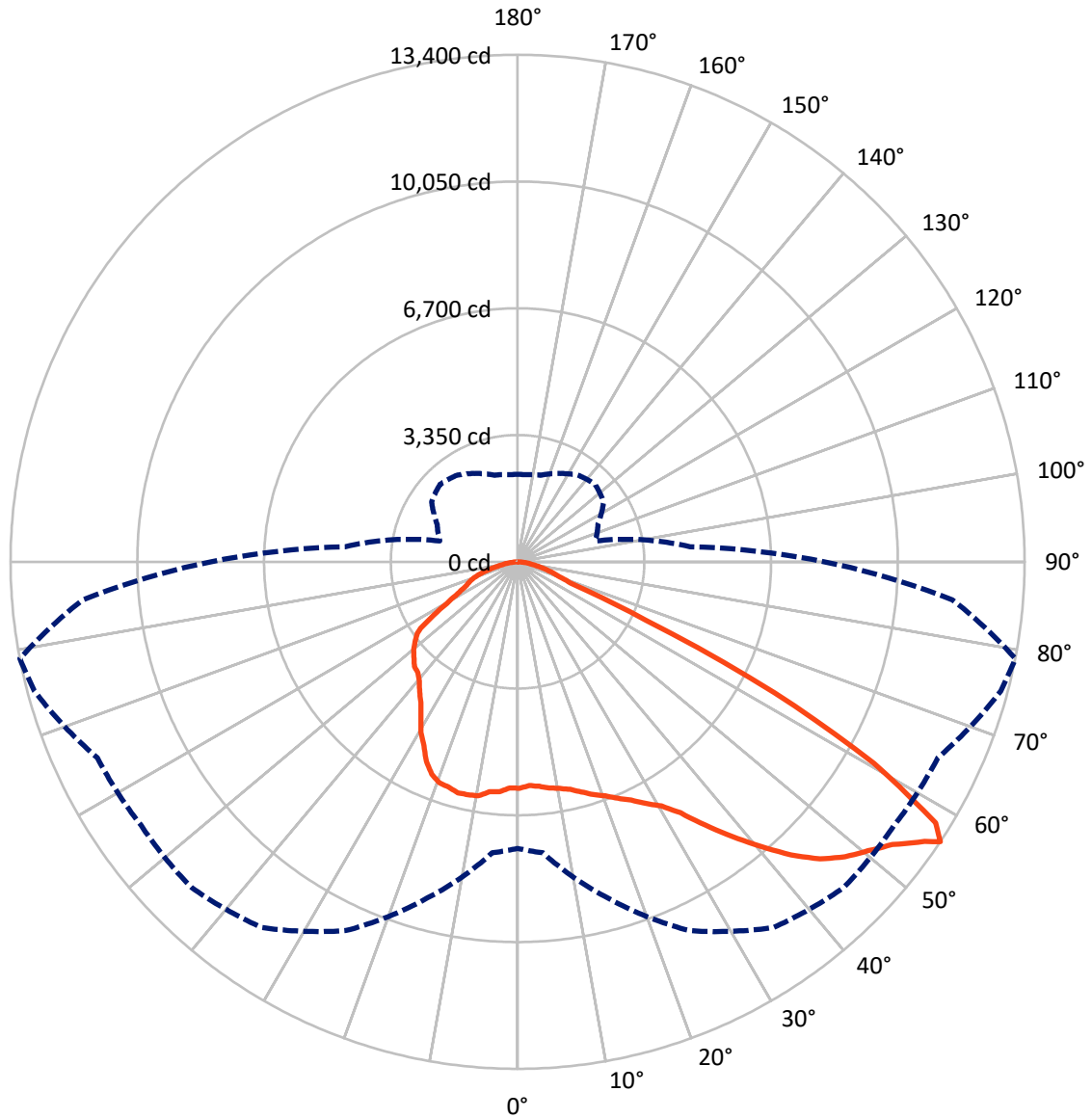
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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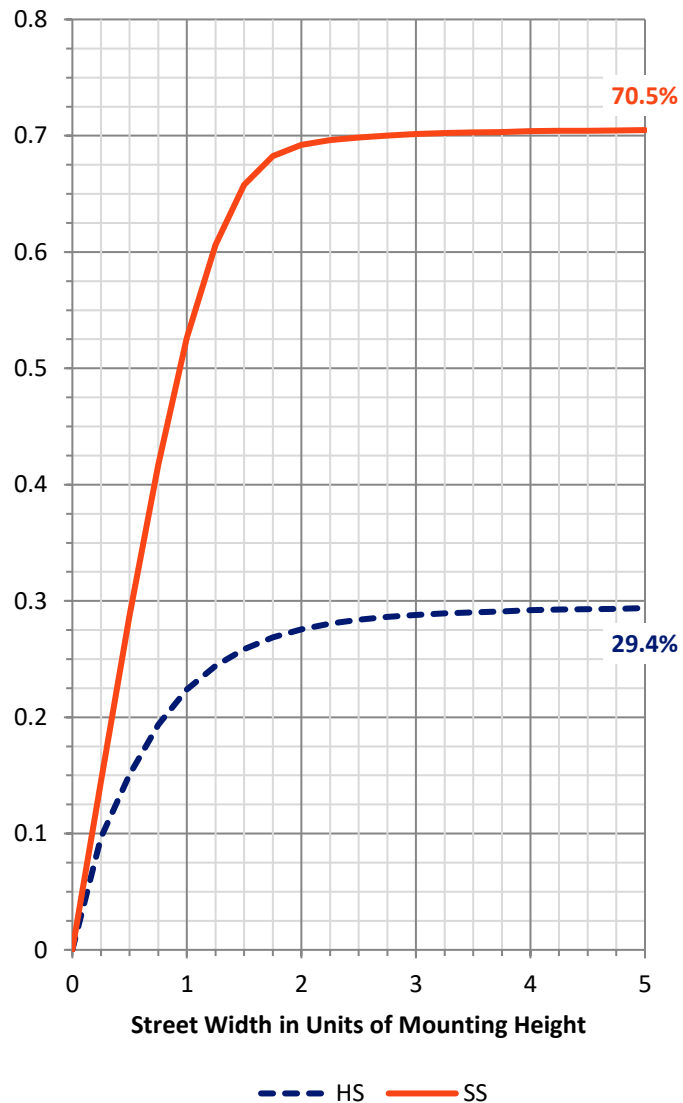
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6906.0	0.0	6906.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16478.8	0.0	16478.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	23384.8	0.0	23384.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	2.3
10°-20°	1488.8	6.4
20°-30°	2547.0	10.9
30°-40°	3903.6	16.7
40°-50°	5275.6	22.6
50°-60°	6059.2	25.9
60°-70°	2762.0	11.8
70°-80°	681.0	2.9
80°-90°	123.8	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°	23384.8	100.0
0°-180°	23384.8	100.0

Coefficient of Utilization

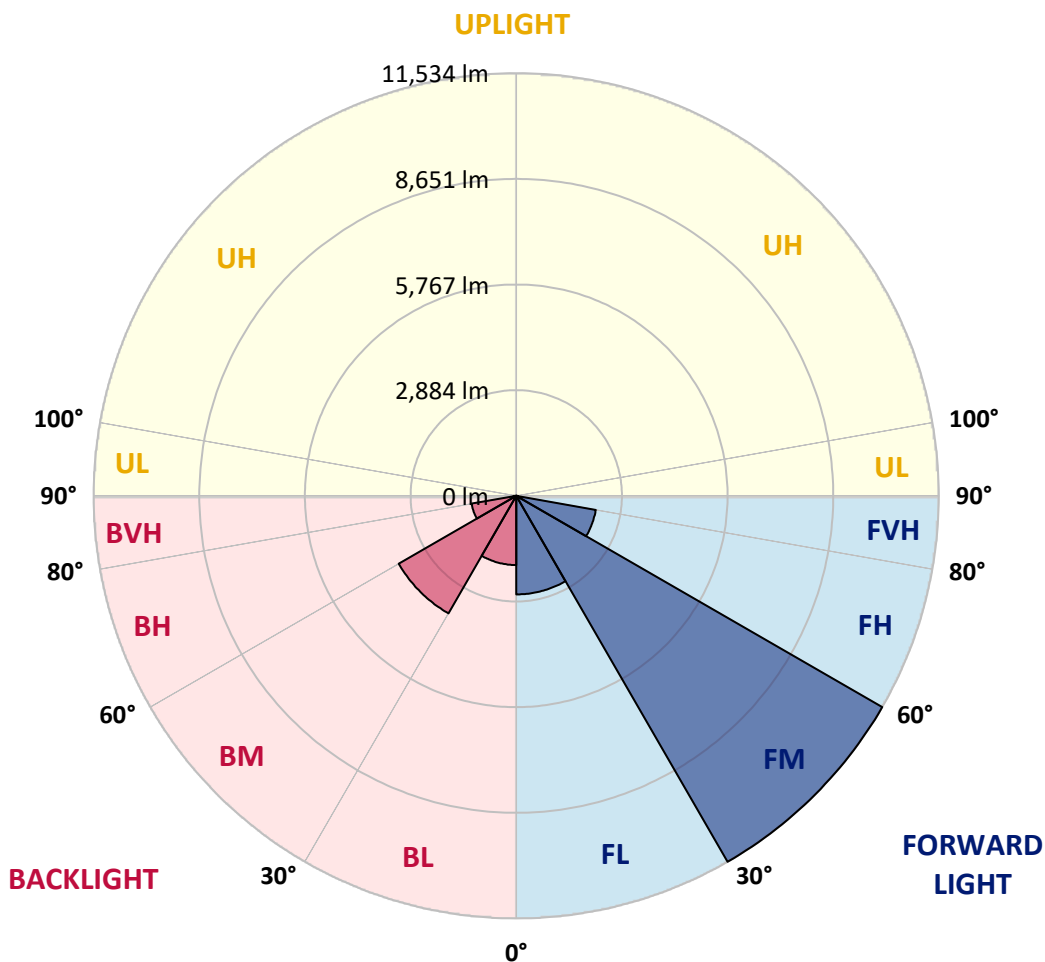


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.6	11.5			
FM (30°-60°)	11534.1	49.3			
FH (60°-80°)	2204.7	9.4			G2/5000
FVH (80°-90°)	49.4	0.2			G1/100
BL (0°-30°)	1889.1	8.1	B3/2500		
BM (30°-60°)	3704.3	15.8	B3/5000		
BH (60°-80°)	1238.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3
2.5°	5692.0	5677.4	5712.3	5738.6	5770.6	5811.4	5831.7	5843.4	5945.4	5919.2	5997.8
5°	5569.6	5531.8	5558.0	5578.4	5633.7	5683.2	5738.6	5825.9	5919.2	5959.9	6056.0
7.5°	5461.9	5441.4	5435.6	5450.2	5526.0	5590.0	5686.2	5814.3	5965.8	6032.7	6088.1
10°	5284.2	5255.0	5298.7	5394.8	5415.2	5549.3	5659.9	5843.4	5974.5	6091.0	6254.2
12.5°	5205.5	5176.4	5185.1	5240.4	5383.2	5511.3	5642.4	5849.2	6126.0	6172.6	6391.1
15°	5330.8	5301.6	5310.3	5295.8	5432.7	5499.7	5706.5	5965.8	6230.9	6309.5	6542.6
17.5°	5616.2	5619.1	5581.3	5549.3	5517.2	5659.9	5802.6	6035.7	6271.7	6469.7	6644.5
20°	6160.9	6064.8	5989.1	5808.5	5758.9	5820.1	6000.7	6225.0	6437.7	6600.8	6798.9
22.5°	6580.4	6589.2	6481.3	6184.3	6076.5	6102.7	6257.0	6440.6	6673.7	6790.1	7017.4
25°	7189.2	7128.1	7011.5	6775.6	6533.8	6554.2	6667.8	6833.9	6898.0	6979.5	7227.1
27.5°	7745.6	7763.1	7532.9	7311.6	7011.5	6953.3	7157.2	7186.3	7078.5	7232.9	7317.4
30°	8310.8	8296.1	8144.7	7885.5	7591.2	7602.9	7693.2	7550.4	7401.9	7486.3	7544.6
32.5°	8896.3	8730.2	8724.4	8491.3	8267.0	8159.2	8048.5	8118.5	7888.3	7905.8	7850.5
35°	9365.2	9388.5	9254.5	9088.5	8977.8	8788.4	8485.5	8610.7	8567.1	8546.7	8307.8
37.5°	9706.1	9615.7	9682.8	9627.4	9522.6	9286.6	8972.0	9091.4	9111.8	9210.8	8934.1
40°	9985.7	9947.9	10125.5	10154.7	10081.8	9572.0	9006.9	9362.3	9668.1	9883.8	9554.6
42.5°	10119.7	10201.2	10387.7	10612.0	10448.8	9904.1	9187.5	9569.2	10250.8	10591.6	10143.0
45°	10300.3	10195.4	10472.1	10882.9	10885.8	10183.8	9362.3	9848.8	10705.2	11200.4	10545.0
47.5°	10116.8	10169.2	10454.6	10976.1	11110.1	10478.0	9834.2	10245.0	11206.2	11646.1	10917.9
50°	9706.1	9810.9	10332.4	10874.1	11279.1	10789.7	10376.0	10673.1	11669.4	12004.3	10979.0
52.5°	9277.8	9336.1	10151.7	10952.8	11354.8	11191.7	11101.4	11264.5	12234.5	12409.3	11054.8
55°	8112.6	8389.4	9554.6	10917.9	11724.7	11917.0	11847.1	12085.9	12875.4	13050.1	11468.4
56°	7573.7	7719.4	9196.3	10754.7	11797.5	12182.1	12147.2	12254.9	13216.1	13399.7	11532.5
57.5°	6577.5	6589.2	7841.7	10032.3	11523.7	12260.7	12225.8	12310.2	13149.2	13023.9	10970.3
60°	4116.0	4296.7	5336.6	7716.5	9799.2	11375.2	11573.3	10894.6	11086.8	10821.7	8535.1
62.5°	2132.3	2106.1	2796.5	4512.2	6504.7	8144.7	8328.2	8296.1	7999.0	7611.6	5575.4
65°	1063.3	1069.1	1462.3	2234.3	3332.5	4264.6	4777.3	4832.6	4043.2	3719.9	2644.9
67.5°	772.0	801.1	1051.6	1366.2	1570.1	1756.5	2152.7	2111.9	1599.2	1520.6	1409.9
70°	600.1	626.3	853.5	1042.8	946.7	946.7	1031.2	1066.1	1139.0	1171.0	1208.9
72.5°	437.0	457.3	652.5	719.5	620.5	667.1	772.0	853.5	929.2	940.9	984.6
75°	300.1	317.5	428.2	396.2	372.9	460.3	565.2	640.8	696.2	725.4	751.5
77.5°	195.2	201.0	244.7	206.8	238.8	297.1	367.0	431.1	486.4	509.7	515.6
80°	87.4	96.1	104.9	131.1	166.0	212.7	262.1	314.6	349.5	358.3	375.8
82.5°	49.5	49.5	64.1	93.2	122.4	154.4	189.3	227.2	268.0	276.8	273.8
85°	26.2	26.2	37.8	55.3	75.8	90.3	87.4	90.3	96.1	110.7	107.8
87.5°	8.7	8.7	11.7	11.7	14.5	17.5	14.5	20.4	26.2	26.2	26.2
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°	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3
2.5°	5974.5	6000.7	5965.8	6041.5	6041.5	6026.9	5954.1	5977.4	5994.9	5994.9	6009.4
5°	6088.1	6079.4	6102.7	6012.4	5957.1	5936.6	5817.2	5758.9	5709.5	5706.5	5662.8
7.5°	6152.2	6128.9	6120.1	6053.2	5808.5	5659.9	5403.6	5255.0	5222.9	5109.3	5153.1
10°	6254.2	6297.8	6254.2	5890.0	5549.3	5208.4	4957.9	4727.8	4637.4	4564.6	4521.0
12.5°	6463.9	6443.5	6190.1	5697.8	5220.1	4815.1	4442.3	4200.5	4110.2	4046.1	4040.3
15°	6641.6	6539.6	6152.2	5394.8	4707.4	4276.2	3970.4	3798.5	3757.8	3763.6	3789.8
17.5°	6702.8	6632.9	5954.1	5080.2	4325.8	3818.9	3676.2	3649.9	3687.9	3731.5	3743.2
20°	6798.9	6688.2	5872.5	4652.0	3853.9	3533.5	3524.7	3617.9	3687.9	3752.0	3760.6
22.5°	6999.9	6720.3	5607.5	4247.1	3530.5	3448.9	3533.5	3612.1	3719.9	3772.3	3725.7
25°	7058.2	6650.3	5234.6	3760.6	3326.7	3396.5	3486.9	3594.6	3670.4	3699.5	3719.9
27.5°	7107.6	6542.6	4730.7	3437.3	3262.6	3393.6	3486.9	3577.1	3617.9	3644.1	3667.4
30°	7247.5	6510.5	4293.7	3221.8	3221.8	3335.3	3454.8	3478.1	3533.5	3565.5	3606.3
32.5°	7317.4	6289.1	3845.1	3084.9	3181.0	3364.5	3373.3	3416.9	3419.8	3446.1	3402.3
35°	7500.9	6131.8	3428.6	2985.8	3198.5	3335.3	3379.1	3352.8	3210.1	3140.2	3154.8
37.5°	7634.9	6053.2	3128.5	2974.1	3201.4	3367.4	3390.7	3192.6	3044.1	2927.5	2956.7
40°	7996.1	5858.0	2901.4	2953.8	3227.6	3402.3	3338.3	3122.7	2854.7	2735.3	2714.9
42.5°	8272.8	5718.2	2758.6	2930.5	3247.9	3451.9	3312.0	2982.9	2709.0	2598.4	2627.5
45°	8593.3	5686.2	2682.9	2936.3	3282.9	3478.1	3280.0	2875.1	2583.8	2540.2	2531.4
47.5°	8706.9	5456.0	2601.3	2886.7	3274.2	3469.4	3172.3	2793.5	2537.2	2543.0	2566.3
50°	8517.6	5220.1	2540.2	2784.8	3215.9	3390.7	3003.3	2685.7	2511.0	2583.8	2624.6
52.5°	8275.8	4978.3	2414.8	2647.9	3096.5	3268.4	2924.7	2679.9	2484.7	2461.4	2470.2
55°	8348.6	4780.2	2240.1	2461.4	2904.2	3041.1	2837.3	2624.6	2420.7	2333.3	2362.5
56°	8112.6	4576.3	2126.5	2345.0	2773.1	2895.5	2793.5	2575.1	2368.3	2310.0	2310.0
57.5°	7445.5	3891.7	1977.9	2158.5	2496.4	2642.1	2709.0	2546.0	2310.0	2208.0	2211.0
60°	5491.0	2767.3	1774.0	1902.2	2068.2	2184.7	2496.4	2464.4	2164.3	2094.4	2068.2
62.5°	3384.9	2021.6	1628.3	1677.9	1762.3	1858.4	2178.9	2231.3	2010.0	1934.2	1916.7
65°	1896.4	1546.8	1517.7	1538.0	1578.8	1628.3	1809.0	1925.5	1774.0	1657.4	1651.6
67.5°	1386.6	1383.7	1407.0	1424.5	1441.9	1441.9	1485.6	1532.2	1511.9	1418.6	1409.9
70°	1232.1	1240.9	1258.4	1261.3	1267.1	1246.8	1211.8	1197.2	1220.5	1162.3	1150.7
72.5°	1016.6	1045.8	1066.1	1069.1	1037.0	1010.8	964.2	914.7	897.2	885.6	882.6
75°	780.7	801.1	809.8	806.9	795.2	757.4	702.1	652.5	620.5	585.5	603.0
77.5°	527.2	556.4	571.0	571.0	553.5	495.2	469.0	431.1	399.1	361.2	367.0
80°	370.0	390.3	413.6	410.7	381.6	352.5	314.6	279.6	253.4	224.3	221.4
82.5°	276.8	288.4	300.1	294.2	273.8	244.7	218.5	186.4	157.3	136.9	136.9
85°	99.1	107.8	131.1	136.9	148.5	148.5	125.2	104.9	84.4	69.9	69.9
87.5°	29.1	29.1	32.0	32.0	29.1	32.0	26.2	29.1	32.0	20.4	20.4
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)