

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: P652019

Luminaire Tested: **GALN-SA7A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22469.8 lumens
Efficiency: N/A
Efficacy: 104.5 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

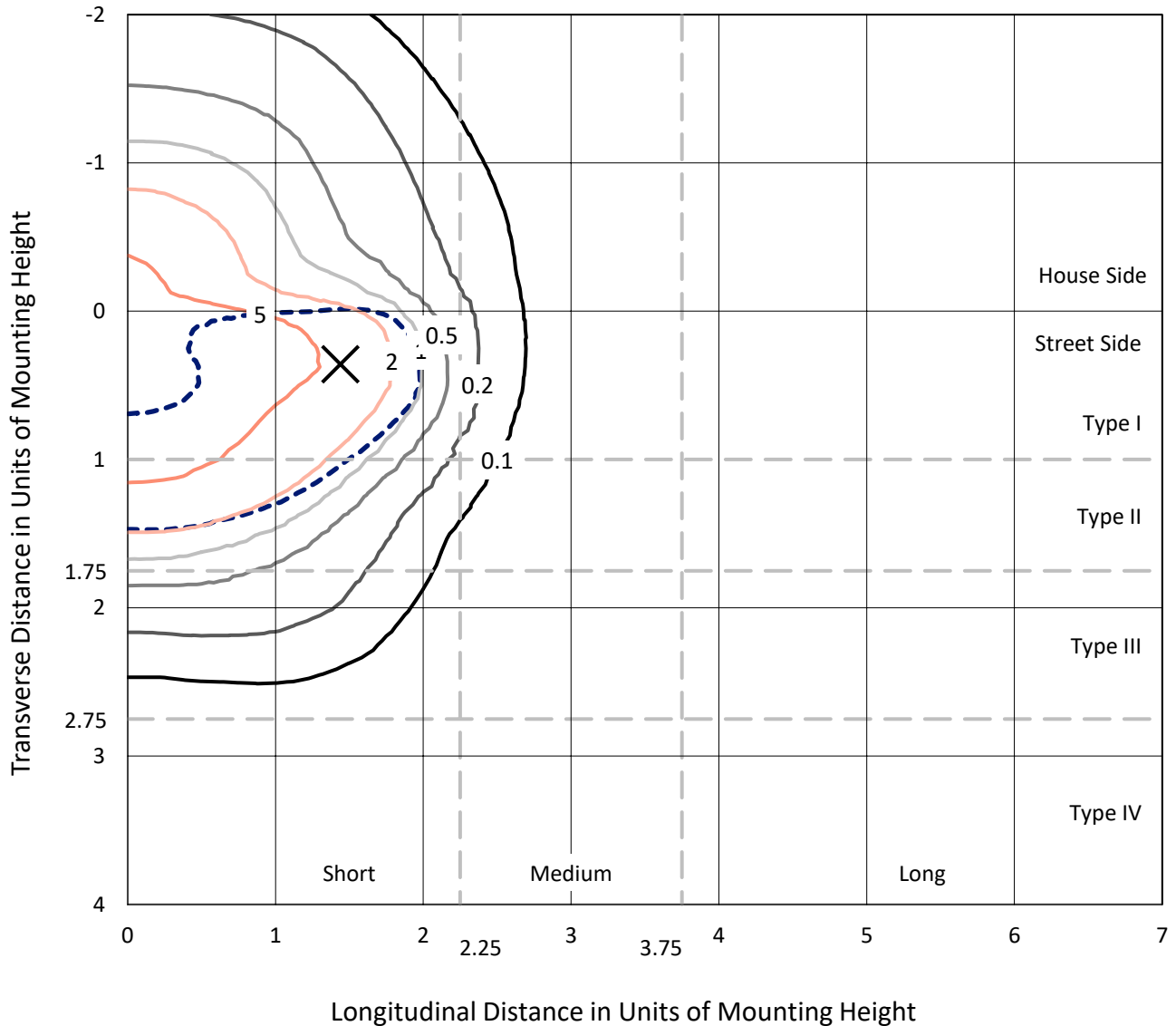
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652019
 CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

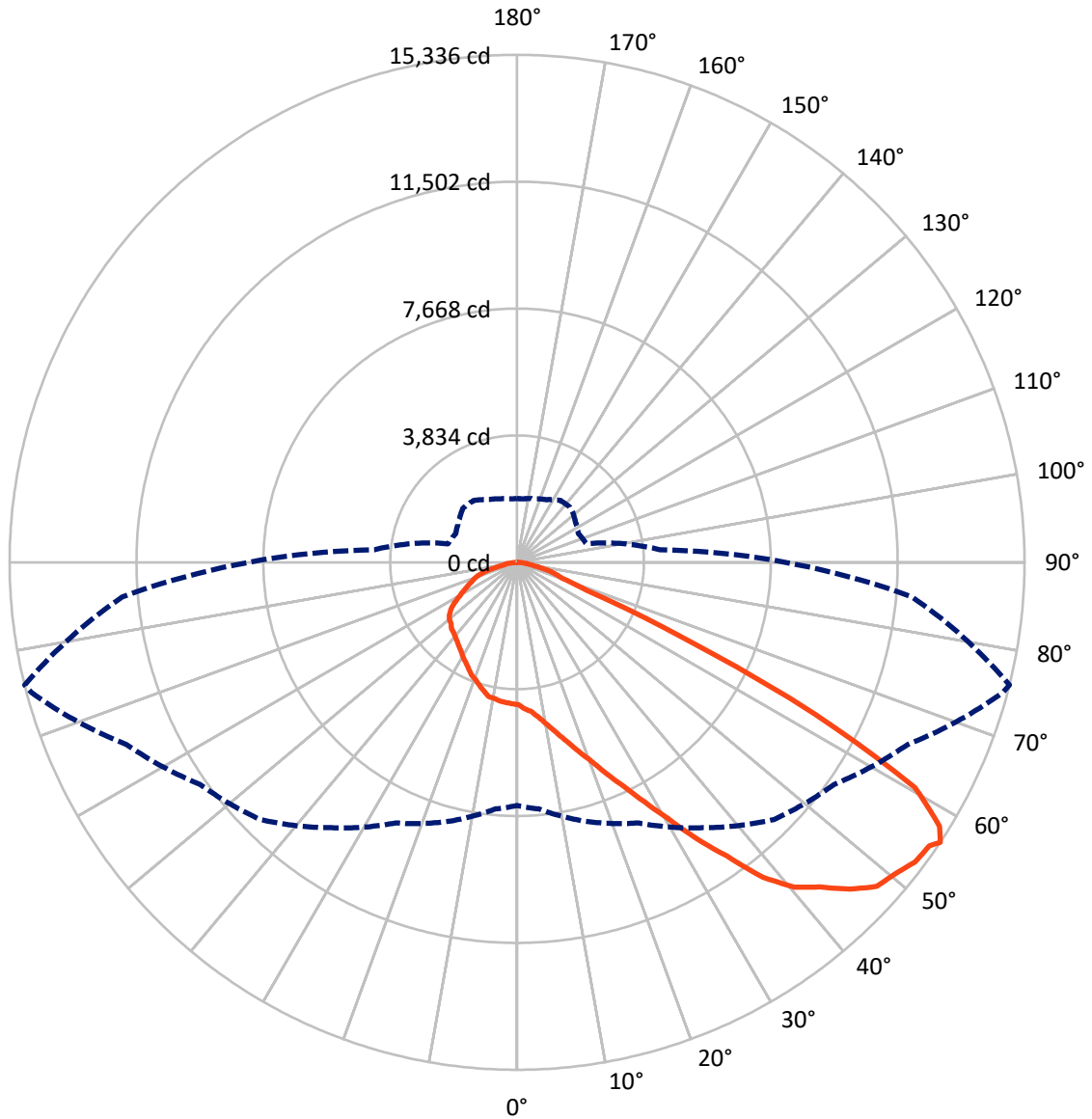
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P652019
CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652019
 CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

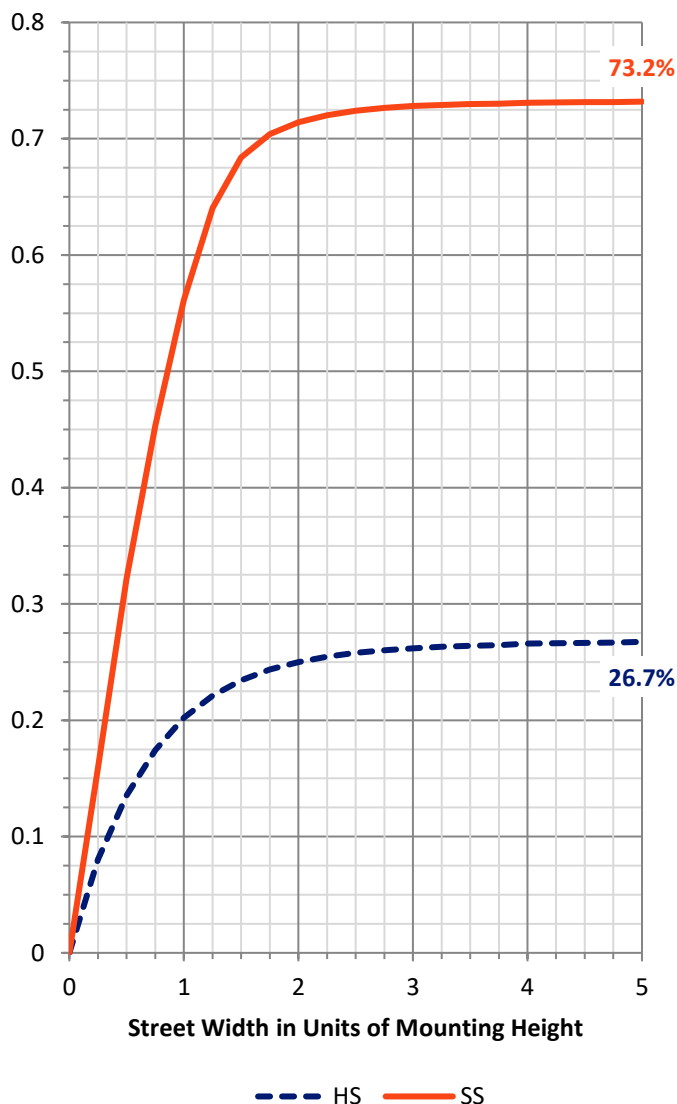
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6041.5	0.0	6041.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16428.4	0.0	16428.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	22469.8	0.0	22469.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	1.9
10°-20°	1339.3	6.0
20°-30°	2342.3	10.4
30°-40°	3667.4	16.3
40°-50°	5335.0	23.7
50°-60°	5863.5	26.1
60°-70°	2617.2	11.6
70°-80°	756.0	3.4
80°-90°	122.6	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°	22469.8	100.0
0°-180°	22469.8	100.0

Coefficient of Utilization



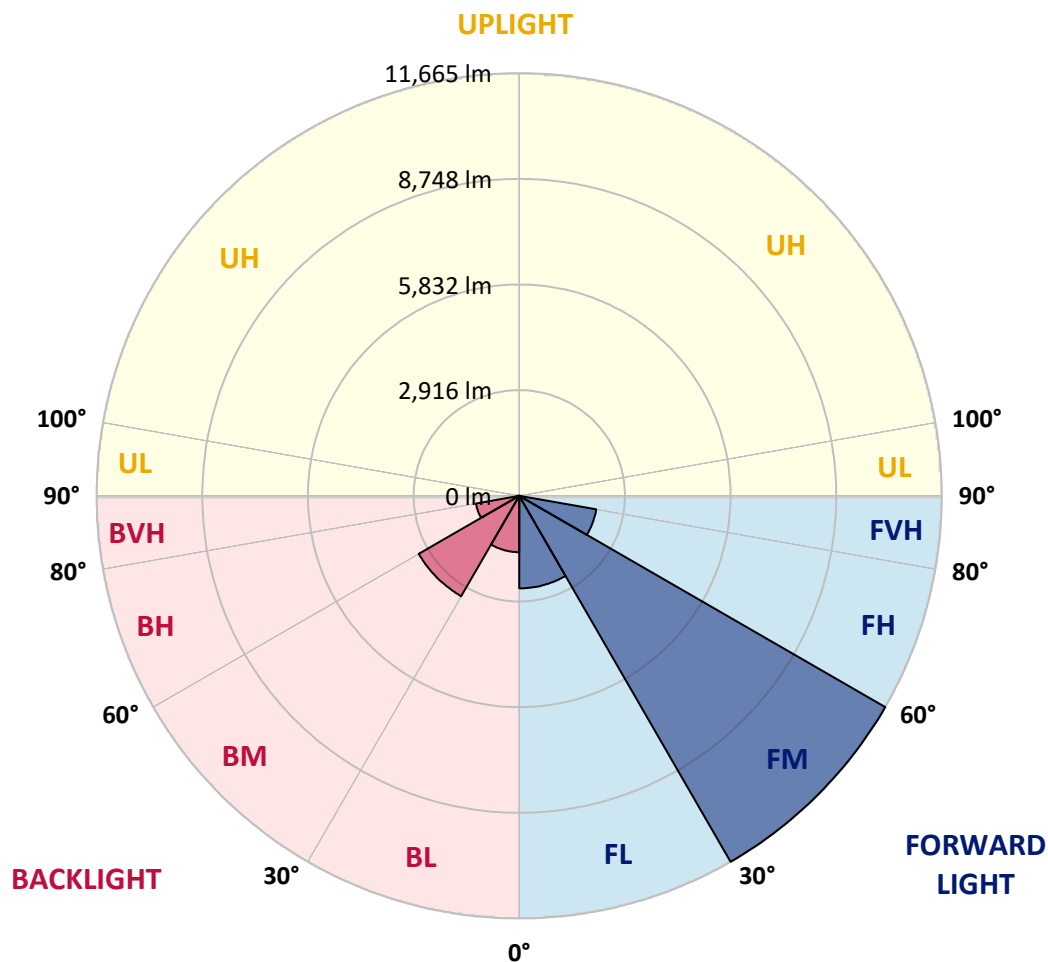
REPORT NUMBER: P652019
 CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2553.4	11.4			
FM (30°-60°)	11664.5	51.9			
FH (60°-80°)	2157.6	9.6			G2/5000
FVH (80°-90°)	52.8	0.2			G1/100
BL (0°-30°)	1554.6	6.9	B3/2500		
BM (30°-60°)	3201.5	14.2	B3/5000		
BH (60°-80°)	1215.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.8	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





REPORT NUMBER: P652019

CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3
2.5°	4736.3	4660.5	4654.7	4634.3	4645.9	4593.5	4538.2	4465.4	4389.6	4436.2	4325.5
5°	5068.3	4966.4	5007.1	4937.3	4945.9	4876.0	4762.4	4678.0	4584.8	4529.5	4450.7
7.5°	5184.8	5193.5	5222.7	5211.0	5152.8	5152.8	5077.0	4928.5	4765.4	4733.3	4602.3
10°	5342.1	5345.0	5312.9	5321.7	5403.3	5365.4	5298.4	5234.3	5024.6	4986.7	4753.8
12.5°	5397.5	5345.0	5397.5	5444.0	5540.2	5592.6	5578.0	5531.4	5307.1	5281.0	4940.1
15°	5406.2	5374.2	5417.8	5522.7	5607.2	5828.6	5939.2	5907.2	5610.1	5613.0	5149.9
17.5°	5365.4	5409.1	5426.6	5516.9	5712.1	5918.9	6239.2	6282.9	6038.3	6000.4	5414.9
20°	5420.7	5388.7	5412.0	5493.6	5752.8	6076.1	6495.5	6783.9	6440.2	6414.1	5688.7
22.5°	5633.4	5589.7	5583.9	5636.3	5822.7	6157.7	6766.4	7284.9	6929.6	6944.1	6029.5
25°	5799.5	5822.7	5802.3	5799.5	5915.9	6280.0	7124.8	7882.1	7593.7	7509.2	6431.5
27.5°	6084.9	6140.2	6099.4	6154.8	6128.5	6463.5	7381.0	8543.3	8310.3	8196.6	6795.6
30°	6481.0	6510.2	6472.3	6472.3	6393.6	6719.8	7614.1	9233.6	9137.5	8983.1	7223.8
32.5°	7002.4	7046.1	6970.4	6926.6	6915.0	7101.4	8033.6	9915.2	10078.4	9947.3	7791.8
35°	7692.7	7666.6	7576.2	7535.4	7378.2	7686.9	8656.9	10698.8	11126.9	10893.9	8479.2
37.5°	8301.5	8260.7	8254.9	8027.7	8065.6	8319.0	9187.0	11292.9	12143.5	12076.5	9204.5
40°	8869.5	8907.4	8968.6	8840.4	8782.1	9061.8	9804.5	11747.4	12932.9	12906.7	9763.8
42.5°	9478.3	9443.3	9551.2	9443.3	9356.0	9752.1	10474.5	12062.0	13626.1	13410.6	10349.3
45°	10360.9	10250.2	10288.0	10296.8	10232.7	10378.4	10751.2	12289.2	14112.6	14089.3	10777.4
47.5°	11097.8	11100.8	11036.7	10987.2	10792.0	10937.6	11060.0	12431.9	14671.8	14634.0	10943.4
50°	11371.7	11333.7	11520.2	11627.9	11639.6	11342.5	11301.7	12510.5	14966.0	14800.0	11109.4
52.5°	10387.1	10422.1	10716.3	11357.0	11727.0	11759.0	11584.3	12673.6	15085.4	15050.5	11243.5
55°	8359.8	8528.7	9012.2	9752.1	10628.9	11593.0	11890.1	12842.6	15149.5	15120.4	11837.7
56°	7349.0	7480.1	8109.3	8689.0	9790.0	10990.0	11697.9	13023.2	15199.1	15336.0	11977.5
57.5°	5915.9	6067.4	6518.8	7177.2	8476.3	9842.4	11167.7	12801.8	15006.8	15059.3	12079.5
60°	3699.3	3713.9	4255.6	4689.7	5604.3	6938.3	8522.9	11138.6	13888.3	13812.6	10850.2
62.5°	2426.4	2429.3	2921.5	3277.0	3693.4	3999.3	5015.9	7386.9	10247.2	10113.3	7724.8
65°	1704.0	1741.9	2123.4	2598.3	2767.1	2606.9	2574.9	3894.4	5723.7	5531.4	4150.8
67.5°	1246.7	1249.6	1587.5	2097.2	2341.9	1983.7	1610.8	1902.1	2266.2	2260.4	1922.4
70°	824.3	859.2	1118.5	1567.1	1846.8	1593.3	1316.6	1360.3	1441.8	1441.8	1430.2
72.5°	480.6	512.7	684.5	993.3	1037.0	996.2	1042.8	1165.1	1217.5	1214.7	1200.1
75°	273.8	288.4	326.2	413.6	515.5	608.8	766.1	882.5	935.0	967.1	929.2
77.5°	160.2	169.0	192.3	235.9	267.9	329.2	416.5	498.1	568.0	559.3	565.1
80°	84.4	84.4	107.8	139.8	186.4	233.0	276.7	323.4	361.2	370.0	378.7
82.5°	49.5	52.4	69.9	101.9	134.0	166.0	212.6	244.6	279.6	282.6	288.4
85°	26.2	29.1	43.7	67.0	90.3	101.9	104.9	99.1	107.8	101.9	116.5
87.5°	8.7	8.7	14.5	11.7	11.7	14.5	17.5	17.5	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652019

CATALOG NUMBER: GALN-SA7A-840-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3	4299.3
2.5°	4322.7	4322.7	4273.1	4179.9	4165.3	4127.5	4092.5	4089.6	4063.4	4040.1	4028.4
5°	4404.1	4313.9	4241.1	4156.6	4057.6	4011.0	3958.5	3900.2	3876.9	3900.2	3897.4
7.5°	4497.4	4421.6	4203.2	4045.9	3932.3	3885.7	3827.5	3766.3	3772.1	3772.1	3731.3
10°	4587.7	4485.7	4136.2	3935.2	3769.2	3734.2	3702.2	3725.5	3754.6	3760.4	3734.2
12.5°	4739.1	4509.0	4104.2	3824.5	3719.7	3644.0	3664.3	3728.4	3789.5	3772.1	3792.5
15°	4852.7	4529.5	3958.5	3710.9	3579.9	3614.8	3687.6	3731.3	3833.3	3821.6	3842.0
17.5°	4963.4	4541.1	3815.8	3559.4	3504.1	3600.2	3655.6	3780.8	3812.8	3882.8	3909.0
20°	5190.7	4564.4	3670.1	3466.3	3448.8	3559.4	3655.6	3713.9	3783.7	3844.9	3844.9
22.5°	5307.1	4552.8	3574.0	3343.9	3399.2	3469.1	3556.6	3655.6	3655.6	3713.9	3716.7
25°	5452.8	4506.2	3422.5	3285.6	3326.4	3393.4	3492.5	3457.5	3495.4	3495.4	3542.0
27.5°	5618.8	4407.1	3291.5	3180.8	3262.3	3335.2	3349.7	3326.4	3282.8	3277.0	3259.5
30°	5752.8	4284.7	3195.4	3145.8	3212.9	3253.6	3207.0	3157.5	3081.8	3076.0	3035.2
32.5°	5936.3	4133.3	3076.0	3058.5	3134.2	3137.1	3122.5	3046.8	2936.1	2889.5	2842.9
35°	6245.1	4045.9	2985.6	3011.9	3035.2	3026.4	3000.2	2918.6	2807.9	2787.6	2770.1
37.5°	6472.3	3981.8	2892.5	2924.5	2944.8	2956.5	2877.9	2787.6	2790.4	2749.7	2738.0
40°	6728.6	3941.0	2816.7	2831.2	2834.2	2872.0	2775.9	2732.2	2752.6	2726.4	2743.8
42.5°	7057.8	3952.7	2738.0	2726.4	2781.8	2767.1	2720.6	2662.4	2674.0	2595.3	2606.9
45°	7232.5	4031.3	2691.5	2639.0	2700.2	2697.3	2636.1	2580.8	2510.8	2359.3	2365.2
47.5°	7349.0	4051.7	2580.8	2545.8	2609.9	2647.7	2577.8	2449.7	2350.7	2242.9	2216.6
50°	7468.4	4089.6	2528.3	2455.5	2481.7	2572.0	2484.7	2362.3	2266.2	2170.0	2184.6
52.5°	7573.3	4162.4	2426.4	2318.6	2365.2	2464.2	2417.6	2269.1	2164.2	2085.6	2062.3
55°	8039.4	4325.5	2254.6	2114.7	2225.4	2350.7	2324.4	2143.8	2030.3	1989.5	1983.7
56°	8112.2	4331.3	2164.2	2044.8	2146.7	2312.8	2280.7	2088.5	1986.5	1922.4	1925.4
57.5°	8123.8	4261.4	2036.1	1980.7	2068.1	2257.4	2216.6	2044.8	1904.9	1846.8	1829.3
60°	7148.1	3326.4	1875.9	1840.9	1942.9	2088.5	2073.9	1925.4	1768.1	1701.1	1733.1
62.5°	4873.2	2438.1	1750.6	1744.7	1797.2	1939.9	1902.1	1768.1	1637.0	1593.3	1572.9
65°	2837.1	1849.6	1628.3	1605.0	1648.6	1724.4	1750.6	1610.8	1473.9	1444.8	1436.0
67.5°	1674.9	1529.2	1471.0	1433.1	1418.5	1465.1	1485.5	1404.0	1267.1	1226.3	1261.2
70°	1401.1	1360.3	1363.2	1299.1	1264.2	1232.1	1214.7	1141.8	1028.2	975.8	961.3
72.5°	1208.9	1191.4	1179.7	1121.5	1089.4	1016.6	940.8	868.0	783.6	739.8	742.8
75°	923.3	917.5	923.3	894.2	838.9	780.6	710.7	617.5	553.5	498.1	509.7
77.5°	550.5	568.0	576.8	565.1	541.8	489.4	445.6	384.5	323.4	279.6	273.8
80°	378.7	393.3	407.8	393.3	370.0	332.0	285.4	238.8	195.2	171.8	166.0
82.5°	288.4	302.9	311.7	297.1	267.9	227.2	195.2	163.2	128.2	104.9	99.1
85°	104.9	119.4	116.5	139.8	151.5	145.7	125.2	96.1	72.8	52.4	49.5
87.5°	29.1	26.2	29.1	29.1	29.1	26.2	23.3	23.3	23.3	14.5	11.7
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)