

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: P651920

Luminaire Tested: **GALN-SA5A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651920
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-SA5A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16813.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

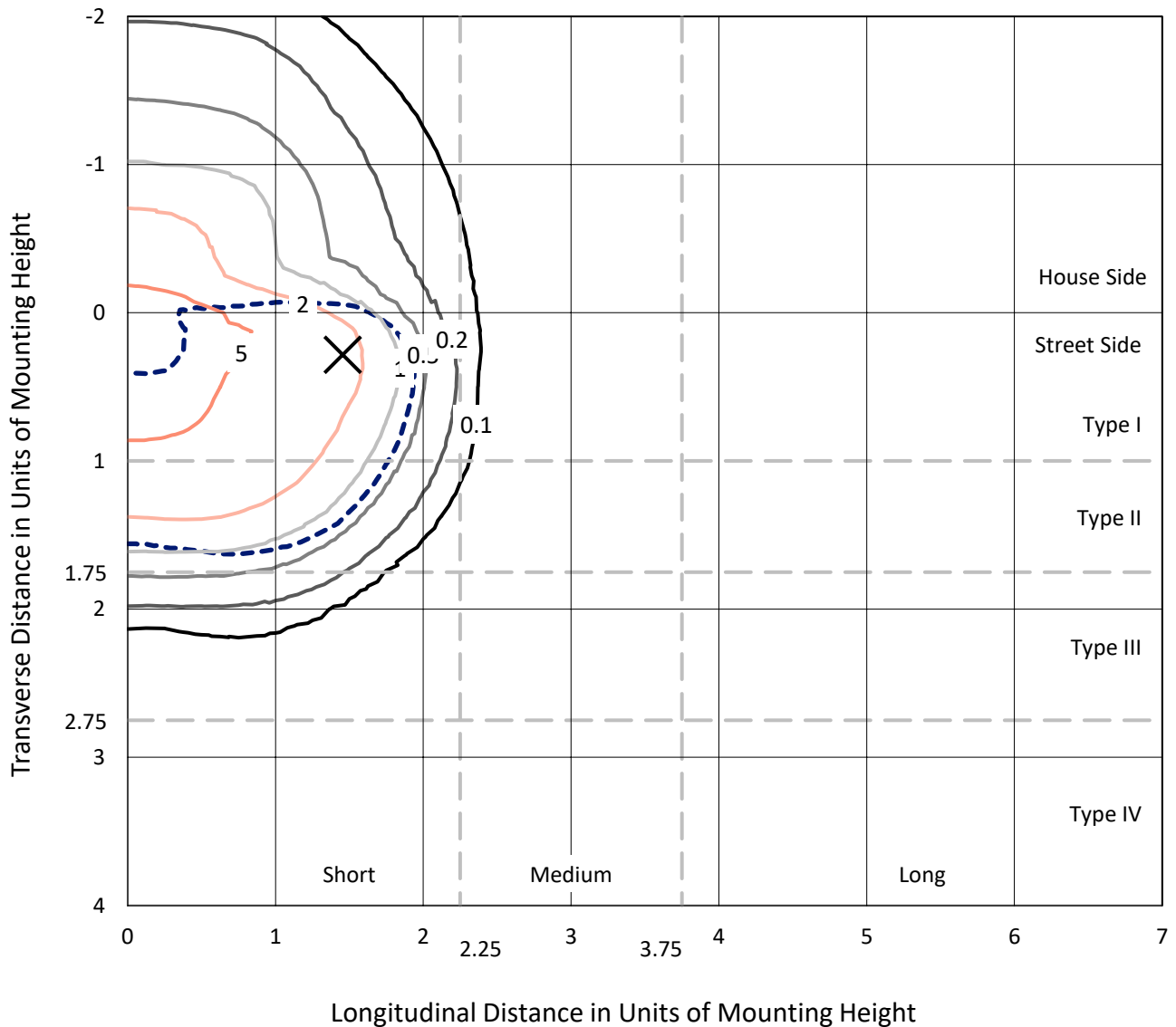
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

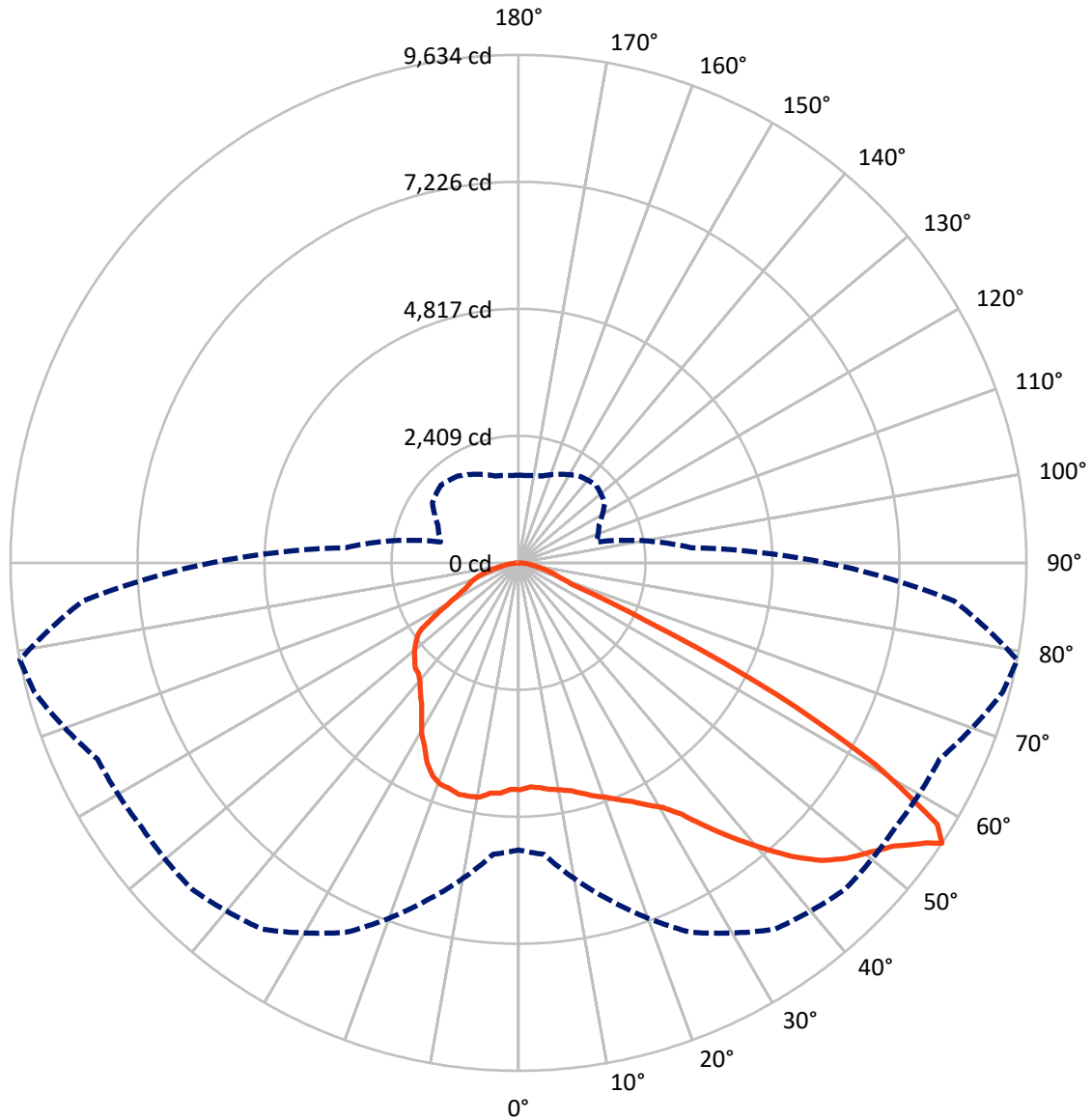
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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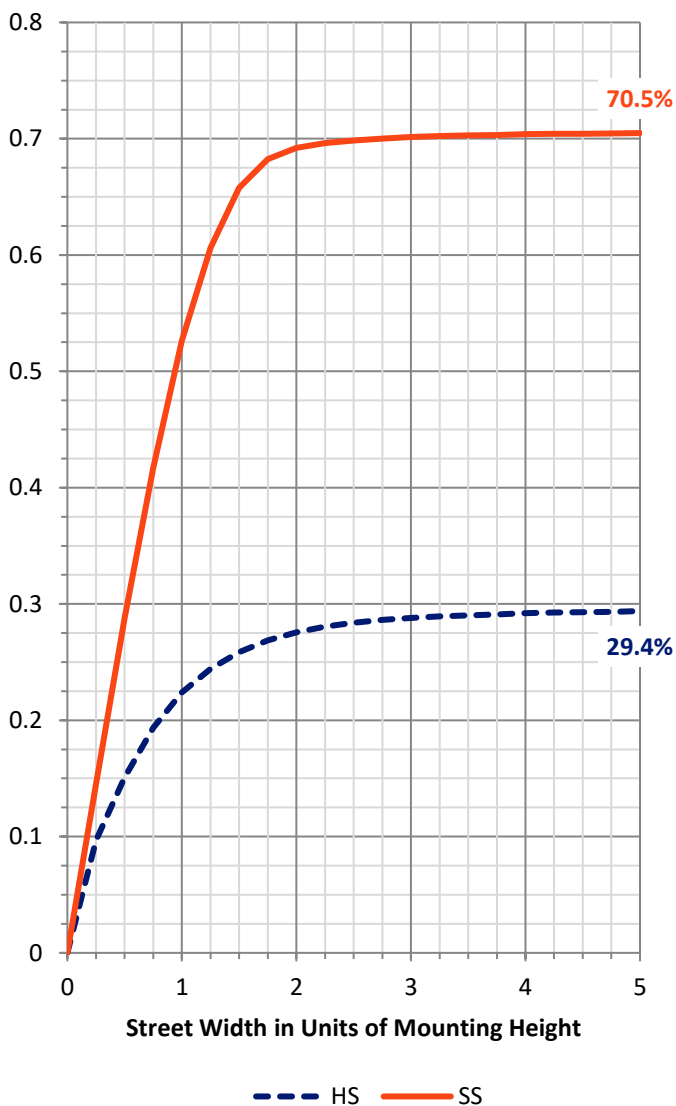
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4965.3	0.0	4965.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11848.0	0.0	11848.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	16813.3	0.0	16813.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	2.3
10°-20°	1070.4	6.4
20°-30°	1831.2	10.9
30°-40°	2806.6	16.7
40°-50°	3793.1	22.6
50°-60°	4356.5	25.9
60°-70°	1985.8	11.8
70°-80°	489.6	2.9
80°-90°	89.0	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°	16813.3	100.0
0°-180°	16813.3	100.0

Coefficient of Utilization

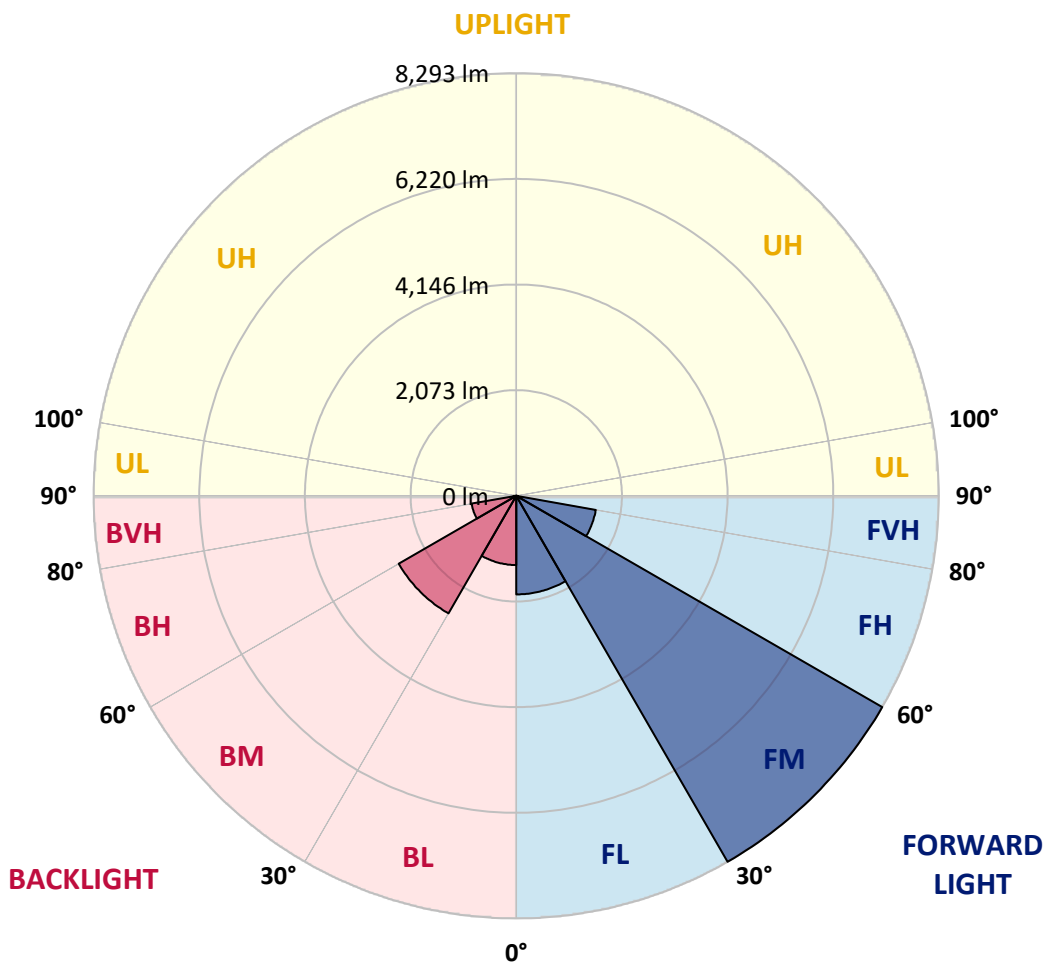


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.5	11.5			
FM (30°-60°)	8292.8	49.3			
FH (60°-80°)	1585.1	9.4			G1/1800
FVH (80°-90°)	35.5	0.2			G1/100
BL (0°-30°)	1358.2	8.1	B3/2500		
BM (30°-60°)	2663.3	15.8	B3/5000		
BH (60°-80°)	890.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
2.5°	4092.4	4082.0	4107.1	4125.9	4149.0	4178.3	4193.0	4201.3	4274.6	4255.8	4312.3
5°	4004.4	3977.3	3996.1	4010.7	4050.5	4086.2	4125.9	4188.8	4255.8	4285.1	4354.2
7.5°	3927.0	3912.3	3908.1	3918.6	3973.1	4019.1	4088.2	4180.4	4289.3	4337.5	4377.2
10°	3799.2	3778.3	3809.6	3878.8	3893.4	3989.8	4069.3	4201.3	4295.6	4379.3	4496.7
12.5°	3742.6	3721.7	3728.0	3767.8	3870.5	3962.5	4056.8	4205.5	4404.5	4438.0	4595.1
15°	3832.7	3811.7	3818.1	3807.5	3906.0	3954.2	4102.9	4289.3	4479.8	4536.4	4704.0
17.5°	4038.0	4040.1	4012.8	3989.8	3966.7	4069.3	4172.0	4339.6	4509.2	4651.6	4777.3
20°	4429.6	4360.5	4306.0	4176.2	4140.6	4184.6	4314.4	4475.7	4628.6	4745.8	4888.3
22.5°	4731.2	4737.5	4660.0	4446.4	4368.9	4387.7	4498.8	4630.6	4798.2	4882.0	5045.3
25°	5169.0	5125.0	5041.2	4871.5	4697.7	4712.4	4794.0	4913.4	4959.5	5018.2	5196.1
27.5°	5568.9	5581.5	5416.0	5256.9	5041.2	4999.2	5145.9	5166.9	5089.3	5200.3	5261.0
30°	5975.2	5964.8	5855.9	5669.5	5457.9	5466.3	5531.3	5428.7	5321.8	5382.6	5424.4
32.5°	6396.2	6276.9	6272.7	6105.1	5943.9	5866.3	5786.8	5837.0	5671.5	5684.2	5644.4
35°	6733.4	6750.2	6653.8	6534.5	6454.8	6318.8	6101.0	6190.9	6159.6	6144.9	5973.2
37.5°	6978.4	6913.5	6961.7	6921.9	6846.5	6676.9	6450.7	6536.6	6551.2	6622.5	6423.5
40°	7179.5	7152.3	7280.0	7301.0	7248.7	6882.2	6475.8	6731.4	6951.2	7106.2	6869.5
42.5°	7275.8	7334.5	7468.6	7629.8	7512.6	7120.9	6605.6	6880.1	7370.1	7615.2	7292.6
45°	7405.7	7330.3	7529.3	7824.6	7826.7	7321.9	6731.4	7081.1	7696.8	8052.9	7581.6
47.5°	7273.8	7311.5	7516.7	7891.6	7988.0	7533.5	7070.6	7365.9	8057.0	8373.3	7849.7
50°	6978.4	7053.9	7428.7	7818.3	8109.4	7757.6	7460.2	7673.8	8390.1	8630.9	7893.7
52.5°	6670.6	6712.4	7298.9	7874.9	8163.9	8046.6	7981.7	8098.9	8796.4	8922.1	7948.1
55°	5832.8	6031.8	6869.5	7849.7	8429.8	8568.1	8517.8	8689.5	9257.1	9382.8	8245.6
56°	5445.4	5550.1	6611.9	7732.4	8482.2	8758.7	8733.5	8811.1	9502.2	9634.2	8291.7
57.5°	4729.1	4737.5	5638.1	7213.0	8285.4	8815.2	8790.1	8850.9	9454.0	9363.9	7887.4
60°	2959.4	3089.2	3836.9	5548.0	7045.5	8178.6	8320.9	7833.0	7971.2	7780.6	6136.5
62.5°	1533.1	1514.2	2010.6	3244.2	4676.7	5855.9	5987.8	5964.8	5751.2	5472.6	4008.6
65°	764.5	768.7	1051.4	1606.4	2396.0	3066.2	3434.8	3474.6	2907.0	2674.5	1901.7
67.5°	555.0	575.9	756.1	982.3	1128.9	1262.9	1547.8	1518.4	1149.8	1093.3	1013.7
70°	431.4	450.3	613.7	749.8	680.7	680.7	741.4	766.6	818.9	841.9	869.2
72.5°	314.2	328.8	469.1	517.3	446.1	479.6	555.0	613.7	668.1	676.5	707.9
75°	215.7	228.2	307.9	284.8	268.1	330.9	406.3	460.8	500.6	521.5	540.3
77.5°	140.4	144.5	175.9	148.7	171.7	213.6	263.9	310.0	349.8	366.5	370.7
80°	62.8	69.1	75.4	94.3	119.3	152.9	188.5	226.2	251.3	257.6	270.2
82.5°	35.6	35.6	46.1	67.0	88.0	111.0	136.2	163.3	192.7	199.0	196.9
85°	18.8	18.8	27.2	39.8	54.4	64.9	62.8	64.9	69.1	79.6	77.5
87.5°	6.3	6.3	8.4	8.4	10.5	12.5	10.5	14.6	18.8	18.8	18.8
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°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
2.5°	4295.6	4314.4	4289.3	4343.8	4343.8	4333.3	4280.9	4297.7	4310.2	4310.2	4320.7
5°	4377.2	4370.9	4387.7	4322.8	4283.0	4268.3	4182.5	4140.6	4105.0	4102.9	4071.4
7.5°	4423.3	4406.6	4400.3	4352.1	4176.2	4069.3	3885.1	3778.3	3755.2	3673.6	3704.9
10°	4496.7	4528.0	4496.7	4234.9	3989.8	3744.7	3564.7	3399.2	3334.2	3281.9	3250.5
12.5°	4647.5	4632.7	4450.6	4096.6	3753.1	3462.0	3193.9	3020.1	2955.2	2909.1	2904.9
15°	4775.2	4701.9	4423.3	3878.8	3384.5	3074.5	2854.6	2731.1	2701.7	2705.9	2724.8
17.5°	4819.2	4768.9	4280.9	3652.6	3110.2	2745.7	2643.1	2624.3	2651.5	2682.9	2691.3
20°	4888.3	4808.7	4222.2	3344.7	2770.8	2540.5	2534.2	2601.2	2651.5	2697.6	2703.8
22.5°	5032.8	4831.7	4031.7	3053.6	2538.4	2479.8	2540.5	2597.0	2674.5	2712.2	2678.7
25°	5074.7	4781.4	3763.6	2703.8	2391.8	2442.0	2506.9	2584.5	2638.9	2659.8	2674.5
27.5°	5110.3	4704.0	3401.3	2471.4	2345.7	2439.9	2506.9	2571.9	2601.2	2620.1	2636.8
30°	5210.8	4680.9	3087.1	2316.4	2316.4	2398.0	2483.9	2500.7	2540.5	2563.5	2592.8
32.5°	5261.0	4521.7	2764.6	2218.0	2287.1	2419.0	2425.3	2456.7	2458.8	2477.7	2446.2
35°	5393.0	4408.7	2465.1	2146.7	2299.6	2398.0	2429.5	2410.6	2308.0	2257.7	2268.2
37.5°	5489.4	4352.1	2249.3	2138.3	2301.7	2421.1	2437.9	2295.4	2188.6	2104.9	2125.8
40°	5749.1	4211.8	2086.0	2123.7	2320.6	2446.2	2400.1	2245.1	2052.5	1966.6	1952.0
42.5°	5948.1	4111.2	1983.4	2107.0	2335.2	2481.9	2381.3	2144.6	1947.8	1868.2	1889.1
45°	6178.4	4088.2	1928.9	2111.2	2360.4	2500.7	2358.2	2067.2	1857.7	1826.3	1820.0
47.5°	6260.1	3922.8	1870.3	2075.5	2354.0	2494.4	2280.8	2008.5	1824.2	1828.4	1845.2
50°	6124.0	3753.1	1826.3	2002.3	2312.2	2437.9	2159.3	1931.0	1805.4	1857.7	1887.0
52.5°	5950.2	3579.3	1736.2	1903.8	2226.3	2349.9	2102.8	1926.8	1786.5	1769.7	1776.0
55°	6002.5	3436.9	1610.6	1769.7	2088.1	2186.5	2039.9	1887.0	1740.4	1677.6	1698.6
56°	5832.8	3290.2	1528.9	1686.0	1993.8	2081.8	2008.5	1851.5	1702.7	1660.8	1660.8
57.5°	5353.2	2798.1	1422.0	1551.9	1794.9	1899.6	1947.8	1830.5	1660.8	1587.6	1589.7
60°	3947.9	1989.6	1275.5	1367.6	1487.0	1570.8	1794.9	1771.8	1556.1	1505.9	1487.0
62.5°	2433.7	1453.5	1170.8	1206.3	1267.1	1336.2	1566.6	1604.3	1445.1	1390.7	1378.1
65°	1363.4	1112.1	1091.2	1105.8	1135.2	1170.8	1300.6	1384.4	1275.5	1191.7	1187.5
67.5°	996.9	994.8	1011.6	1024.2	1036.7	1036.7	1068.2	1101.6	1087.0	1020.0	1013.7
70°	885.9	892.2	904.7	906.9	911.1	896.4	871.3	860.8	877.6	835.6	827.3
72.5°	730.9	751.9	766.6	768.7	745.6	726.7	693.2	657.7	645.0	636.7	634.6
75°	561.3	575.9	582.2	580.1	571.8	544.5	504.8	469.1	446.1	421.0	433.5
77.5°	379.1	400.1	410.5	410.5	398.0	356.1	337.2	310.0	286.9	259.7	263.9
80°	266.0	280.6	297.4	295.3	274.3	253.4	226.2	201.1	182.2	161.3	159.2
82.5°	199.0	207.3	215.7	211.5	196.9	175.9	157.1	134.1	113.1	98.4	98.4
85°	71.2	77.5	94.3	98.4	106.8	106.8	90.1	75.4	60.7	50.3	50.3
87.5°	20.9	20.9	23.0	23.0	20.9	23.0	18.8	20.9	23.0	14.6	14.6
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)