

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: P650872

Luminaire Tested: **GALN-SA4C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19941.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

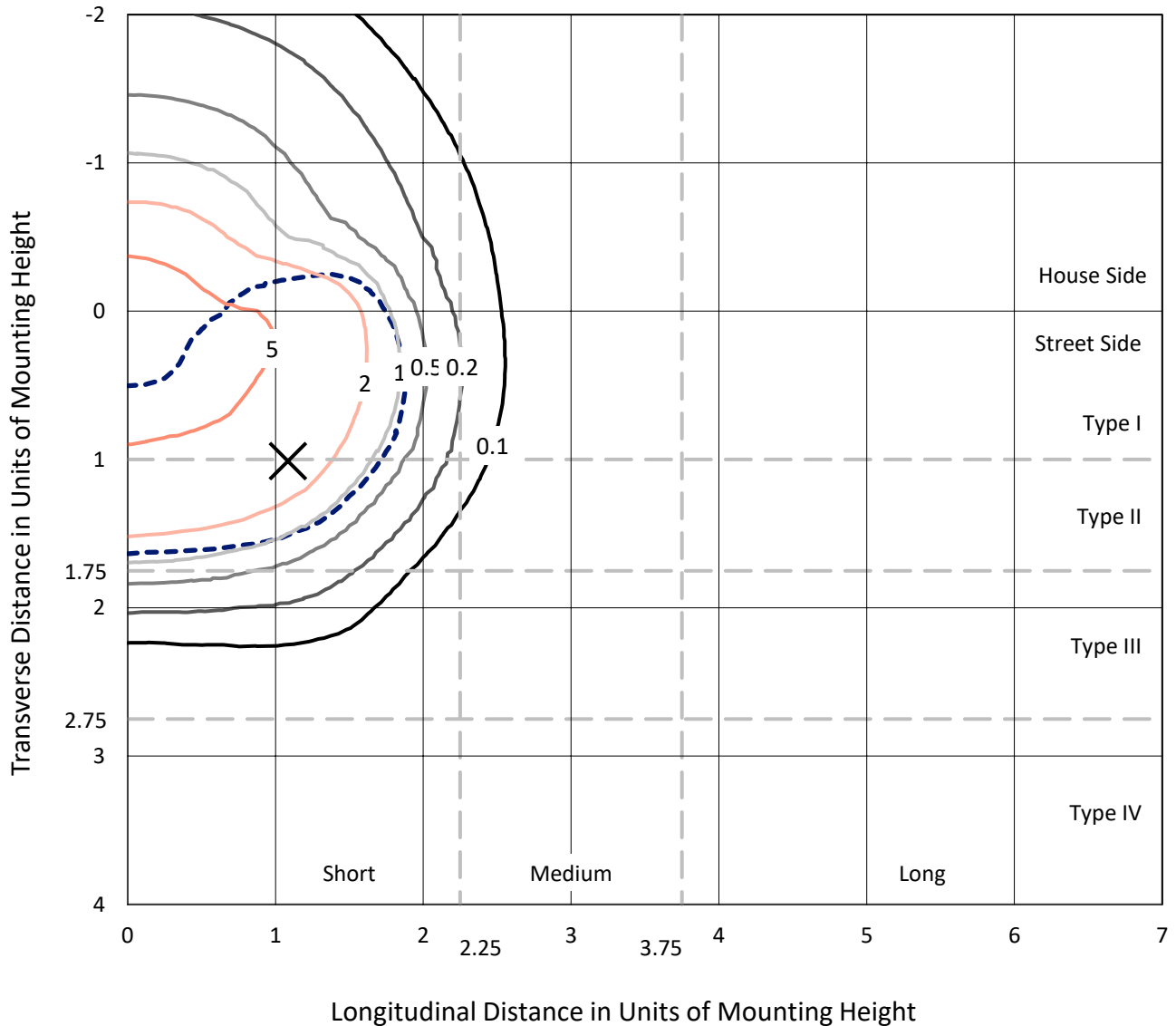
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650872
 CATALOG NUMBER: GALN-SA4C-840-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

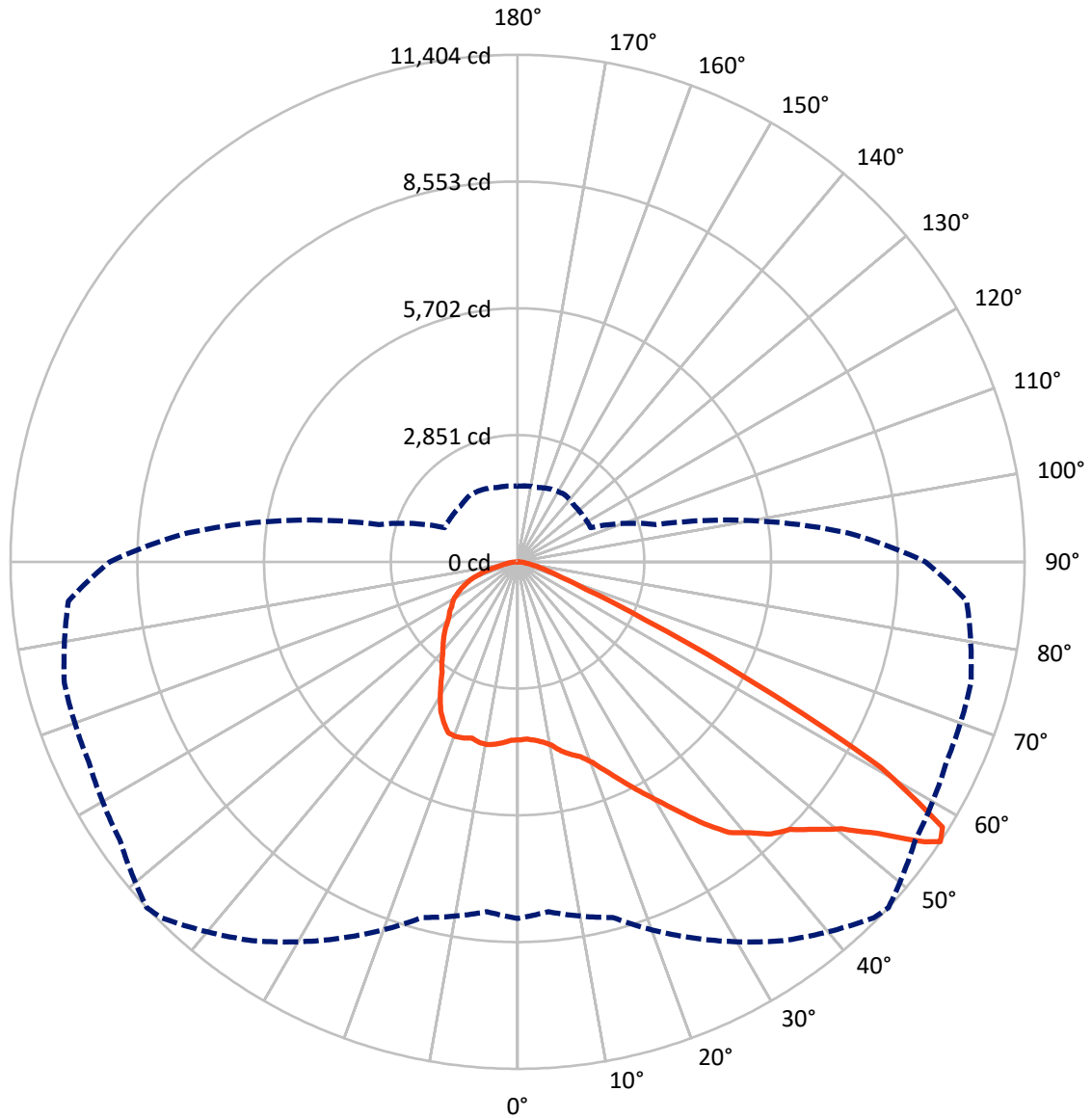
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

REPORT NUMBER: P650872
CATALOG NUMBER: GALN-SA4C-840-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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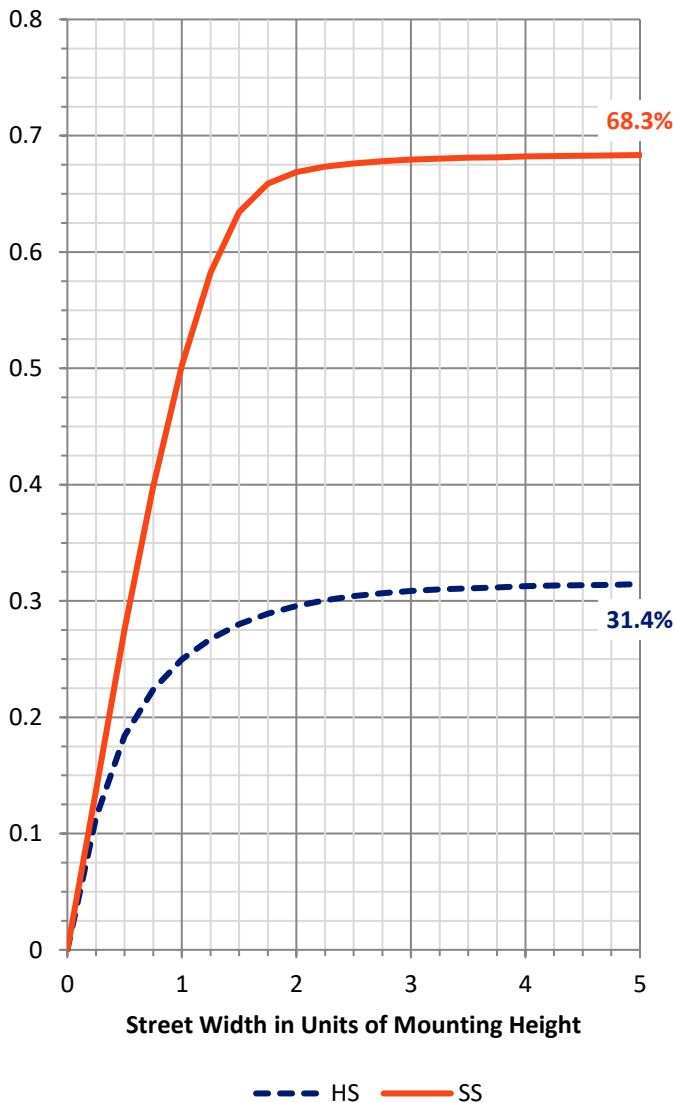
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6319.3	0.0	6319.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13622.5	0.0	13622.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	19941.8	0.0	19941.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	2.0
10°-20°	1231.2	6.2
20°-30°	2176.5	10.9
30°-40°	3269.0	16.4
40°-50°	4486.4	22.5
50°-60°	5344.9	26.8
60°-70°	2287.3	11.5
70°-80°	647.3	3.2
80°-90°	108.9	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°	19941.8	100.0
0°-180°	19941.8	100.0



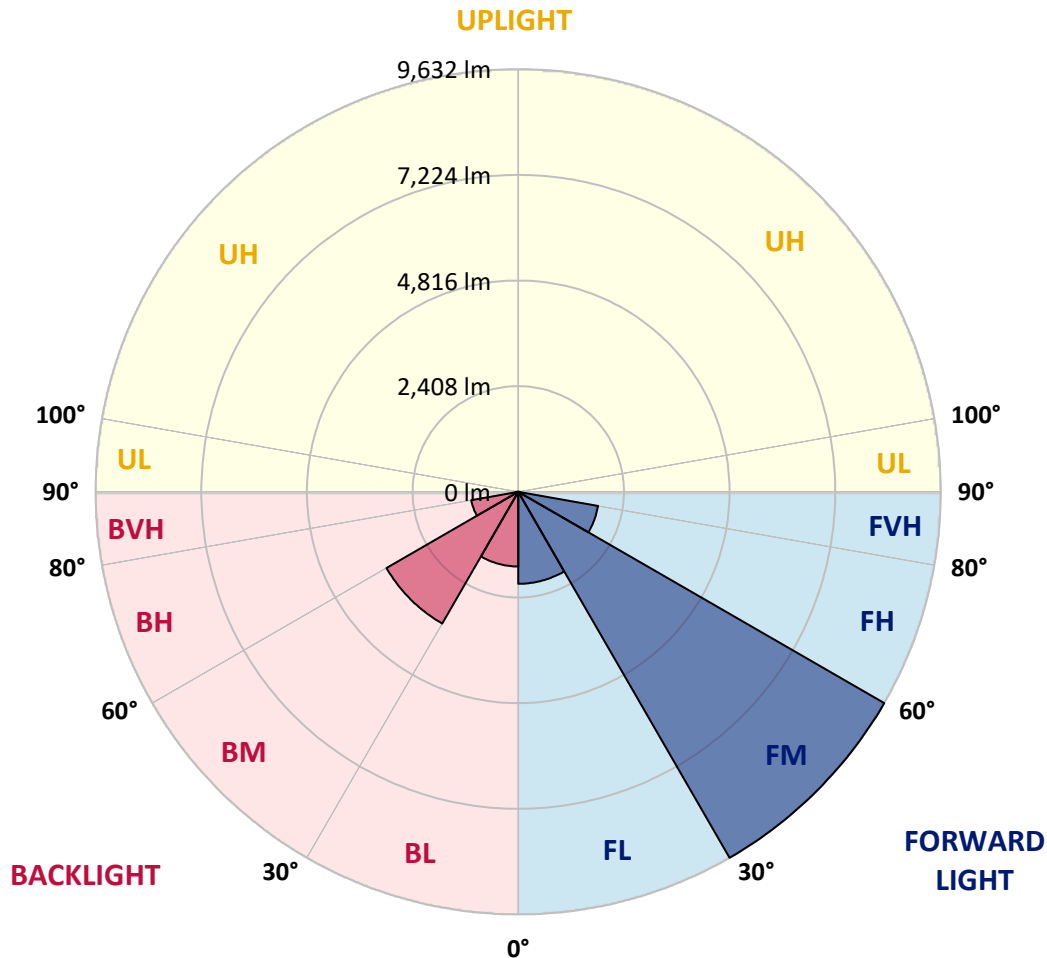
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.6	10.5			
FM (30°-60°)	9632.3	48.3			
FH (60°-80°)	1847.3	9.3			G2/5000
FVH (80°-90°)	46.2	0.2			G1/100
BL (0°-30°)	1701.4	8.5	B3/2500		
BM (30°-60°)	3467.9	17.4	B3/5000		
BH (60°-80°)	1087.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	62.7	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°	47°	55°	65°	75°	85°
0°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	3990.5	3982.8	3977.8	4018.4	4003.2	4005.7	3990.5	4005.7	4015.9	3993.0	4026.0
5°	3982.8	4005.7	3985.3	3998.0	4031.2	4021.0	4031.2	4061.7	4054.0	4046.4	4036.2
7.5°	4054.0	4056.6	4071.8	4076.9	4087.1	4076.9	4092.1	4120.1	4112.5	4069.3	4074.4
10°	4155.7	4160.8	4163.4	4191.4	4209.2	4211.7	4193.9	4168.5	4165.9	4224.4	4183.7
12.5°	4272.8	4260.0	4290.5	4300.7	4321.1	4343.9	4366.8	4313.4	4346.5	4349.1	4300.7
15°	4443.2	4455.9	4420.3	4420.3	4427.9	4430.5	4494.1	4468.6	4463.5	4435.5	4455.9
17.5°	4697.5	4611.0	4608.4	4572.9	4567.8	4588.1	4611.0	4631.4	4700.0	4644.1	4534.7
20°	4883.1	4903.5	4829.7	4786.5	4794.1	4839.9	4817.0	4908.6	4956.9	4865.4	4758.5
22.5°	5211.3	5142.5	5160.4	5063.7	5071.3	5119.7	5117.1	5211.3	5239.2	5094.3	4939.1
25°	5432.5	5414.7	5429.9	5353.6	5363.8	5402.0	5463.1	5618.1	5572.4	5412.2	5053.6
27.5°	5755.5	5719.9	5707.2	5679.2	5669.0	5770.8	5841.9	6007.3	5974.2	5740.2	5257.0
30°	6086.1	6063.2	6076.0	5961.5	6002.2	6218.4	6238.7	6465.1	6449.8	6037.8	5483.3
32.5°	6315.0	6327.8	6350.6	6287.1	6467.6	6640.5	6709.2	6966.1	6978.8	6549.0	5920.8
35°	6683.8	6640.5	6653.3	6727.1	6810.9	7126.3	7238.2	7408.6	7515.4	7085.7	6340.5
37.5°	6915.2	6961.0	6907.6	7024.6	7243.4	7622.2	7724.0	7899.5	8011.4	7614.7	6912.7
40°	7276.4	7202.7	7240.8	7324.7	7548.5	8041.9	8014.0	8194.5	8230.1	8064.8	7446.8
42.5°	7665.5	7629.9	7576.5	7767.2	7955.4	8314.0	8370.0	8286.0	8466.7	8504.8	8209.8
45°	8131.0	8174.2	8181.8	8186.9	8352.2	8665.0	8588.7	8515.0	8723.5	9000.7	8682.8
47.5°	8563.3	8426.0	8525.1	8662.5	8896.4	8899.0	8988.0	8812.5	9033.8	9280.5	9110.1
50°	8708.3	8642.1	8774.4	9033.8	9395.0	9433.1	9443.3	9194.1	9308.5	9504.3	9257.6
52.5°	8652.3	8629.4	8967.7	9369.5	9898.6	10091.8	10142.7	9834.9	9898.6	9809.5	9583.2
55°	8385.3	8453.9	8794.8	9613.6	10425.0	11022.7	11119.3	10730.2	10325.8	10394.5	10145.2
56°	8019.0	7899.5	8281.0	9336.4	10402.1	11325.3	11404.1	10918.4	10643.7	10554.7	10140.1
57.5°	6803.4	6648.2	7149.3	8400.5	9824.8	11210.9	11269.4	10997.3	10590.3	10409.7	9400.0
60°	3982.8	4059.1	4695.0	5793.6	7579.0	9191.5	9387.3	9585.7	9313.6	8504.8	6996.6
62.5°	1922.7	1874.4	2329.7	3321.5	4618.6	5867.4	5808.9	6365.9	6671.1	6042.9	4417.7
65°	1007.2	1002.1	1271.7	1813.4	2538.2	3082.5	3135.9	3436.0	3855.6	3113.0	2243.2
67.5°	740.1	760.4	895.2	1274.2	1632.8	1665.9	1658.2	1808.3	1848.9	1564.1	1378.5
70°	579.9	590.0	689.2	969.0	1215.7	1088.5	1065.6	1083.5	1203.0	1253.8	1192.8
72.5°	419.7	429.8	513.8	653.6	760.4	742.6	757.9	857.1	1004.6	1058.0	994.4
75°	279.8	287.4	333.2	399.3	450.2	485.8	513.8	628.2	765.6	796.1	765.6
77.5°	193.3	200.9	231.4	282.3	287.4	310.2	320.4	373.8	457.8	495.9	475.6
80°	109.3	109.3	124.6	145.0	178.0	208.6	213.6	256.8	295.0	320.4	325.6
82.5°	50.9	53.4	66.1	89.0	117.0	145.0	150.0	178.0	206.0	231.4	239.1
85°	25.4	28.0	38.2	53.4	71.2	86.5	83.9	86.5	91.6	86.5	89.0
87.5°	7.7	7.7	10.2	12.7	10.2	12.7	12.7	15.2	17.8	20.4	22.9
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: P650872

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	4028.6	4036.2	3985.3	4033.7	4015.9	4013.3	4048.9	4043.9	4056.6	4051.5	4021.0
5°	4031.2	4013.3	4066.7	4018.4	4041.3	4089.6	4056.6	4132.8	4094.7	4120.1	4064.2
7.5°	4110.0	4115.1	4104.9	4125.3	4115.1	4138.0	4120.1	4138.0	4107.4	4110.0	4160.8
10°	4178.7	4163.4	4181.2	4155.7	4173.5	4165.9	4125.3	4112.5	4122.7	4110.0	4143.0
12.5°	4305.8	4277.8	4265.1	4234.6	4214.3	4138.0	4074.4	4038.7	4087.1	4094.7	4079.4
15°	4435.5	4438.0	4379.6	4310.9	4183.7	4069.3	4084.6	4097.3	4097.3	4117.6	4079.4
17.5°	4516.9	4516.9	4463.5	4326.2	4196.4	4130.3	4115.1	4074.4	4038.7	4033.7	4031.2
20°	4659.3	4616.1	4494.1	4323.6	4191.4	4160.8	4046.4	3949.8	3876.0	3850.5	3848.0
22.5°	4822.1	4712.7	4542.3	4328.7	4183.7	4140.5	3926.9	3781.9	3649.6	3593.7	3601.3
25°	4972.2	4796.6	4570.3	4305.8	4155.7	3947.2	3708.1	3507.2	3369.9	3324.1	3301.2
27.5°	5076.4	4885.7	4570.3	4326.2	4051.5	3731.0	3486.9	3230.0	3110.4	3079.9	3085.0
30°	5216.3	4997.6	4649.1	4283.0	3842.9	3451.3	3158.8	2990.9	2919.7	2894.3	2912.0
32.5°	5544.4	5290.1	4758.5	4178.7	3596.2	3171.5	2935.0	2840.9	2736.6	2685.7	2667.9
35°	5900.5	5567.3	4865.4	4003.2	3319.0	2917.2	2769.7	2683.2	2558.6	2502.6	2512.8
37.5°	6404.0	5923.3	4873.0	3713.2	3018.9	2774.7	2640.0	2505.2	2403.4	2317.0	2291.6
40°	7083.1	6409.1	4855.2	3408.0	2777.3	2606.8	2507.7	2339.8	2225.4	2164.3	2177.1
42.5°	7680.8	6978.8	4781.4	3062.2	2558.6	2492.5	2380.5	2215.2	2103.3	2039.8	2034.6
45°	8184.4	7398.4	4641.6	2767.1	2375.4	2365.3	2235.5	2108.4	2019.4	1960.9	1986.4
47.5°	8649.8	7736.7	4430.5	2472.1	2207.6	2227.9	2103.3	2024.5	1968.5	1915.1	1912.6
50°	8817.6	7731.6	4244.8	2227.9	2072.8	2062.6	2057.5	1973.6	1915.1	1869.3	1889.6
52.5°	9097.3	7818.1	4043.9	2060.1	1950.7	1953.2	1971.1	1910.0	1843.9	1815.9	1841.4
55°	9499.3	7830.8	3601.3	1864.2	1848.9	1866.8	1866.8	1826.1	1770.1	1747.3	1734.6
56°	9171.1	7451.8	3230.0	1813.4	1798.1	1798.1	1846.4	1800.7	1732.0	1714.2	1698.9
57.5°	8459.0	6528.7	2703.6	1752.3	1729.4	1765.1	1790.5	1742.1	1678.6	1653.2	1668.4
60°	5834.4	4417.7	2032.1	1620.1	1620.1	1678.6	1698.9	1627.7	1599.8	1597.2	1576.9
62.5°	3405.5	2573.8	1589.6	1500.5	1505.6	1553.9	1569.2	1528.5	1492.9	1536.2	1556.5
65°	1805.7	1536.2	1363.2	1373.4	1376.0	1414.1	1480.2	1477.6	1475.1	1487.8	1490.3
67.5°	1307.3	1276.7	1238.6	1228.4	1233.5	1261.5	1327.6	1378.5	1376.0	1345.4	1322.6
70°	1164.9	1121.6	1098.7	1101.3	1080.9	1114.0	1167.4	1200.4	1141.9	1106.3	1091.1
72.5°	969.0	956.3	941.0	943.6	902.9	895.2	834.2	834.2	819.0	808.8	826.5
75°	740.1	735.0	742.6	729.9	686.7	640.9	605.3	572.2	521.3	501.1	490.9
77.5°	467.9	483.2	501.1	473.1	455.2	422.2	386.6	353.6	312.9	290.0	290.0
80°	317.9	330.6	343.4	338.3	317.9	287.4	259.4	223.8	195.9	178.0	175.5
82.5°	241.6	251.8	269.6	249.3	228.9	203.4	180.6	155.2	129.7	109.3	109.3
85°	86.5	99.2	109.3	119.5	127.2	129.7	111.9	91.6	73.8	58.5	55.9
87.5°	22.9	25.4	28.0	25.4	25.4	25.4	28.0	25.4	22.9	17.8	17.8
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)