

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: P648455

Luminaire Tested: **GALN-SA5B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648455
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-SA5B-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 19477.9 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

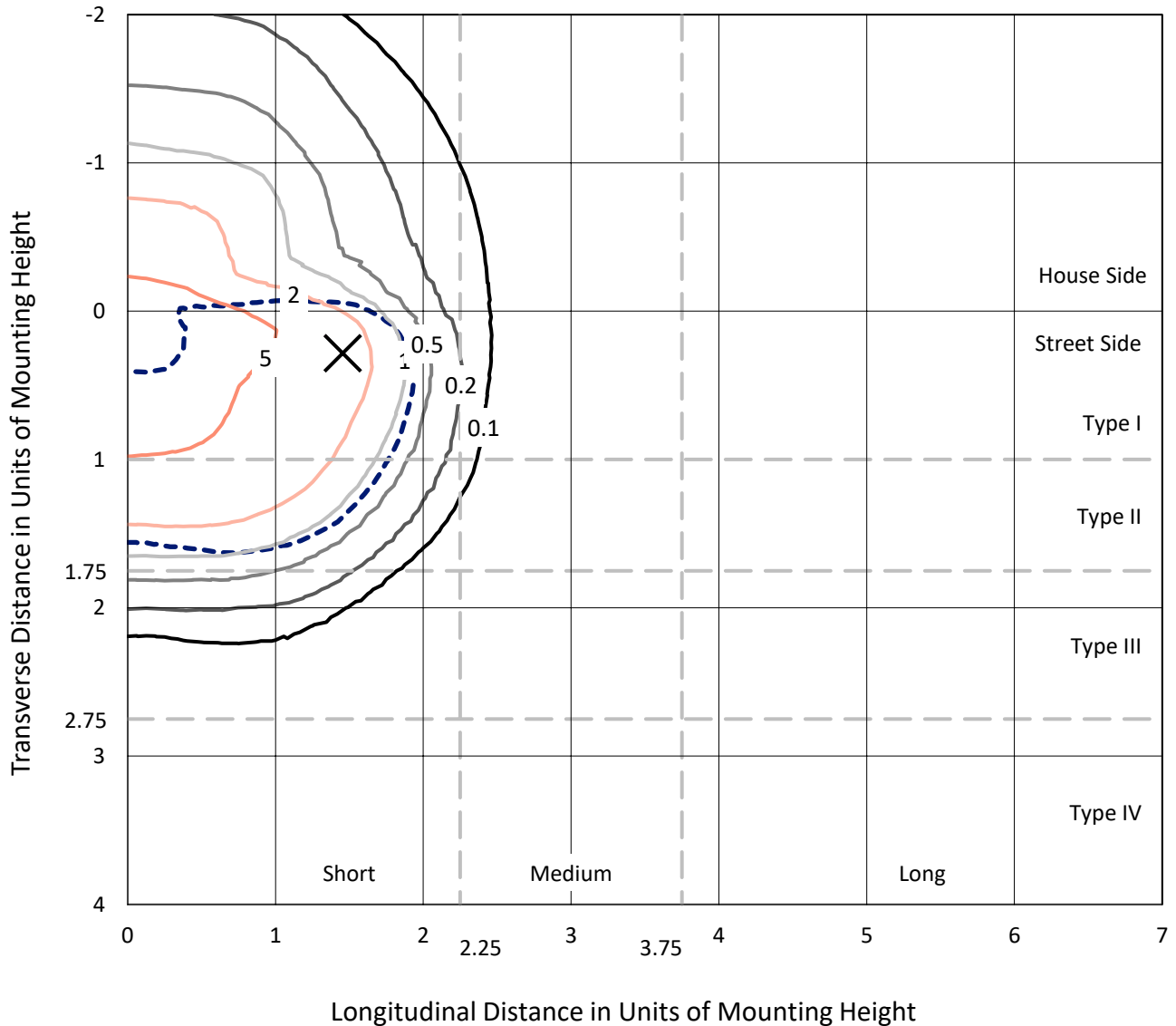
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

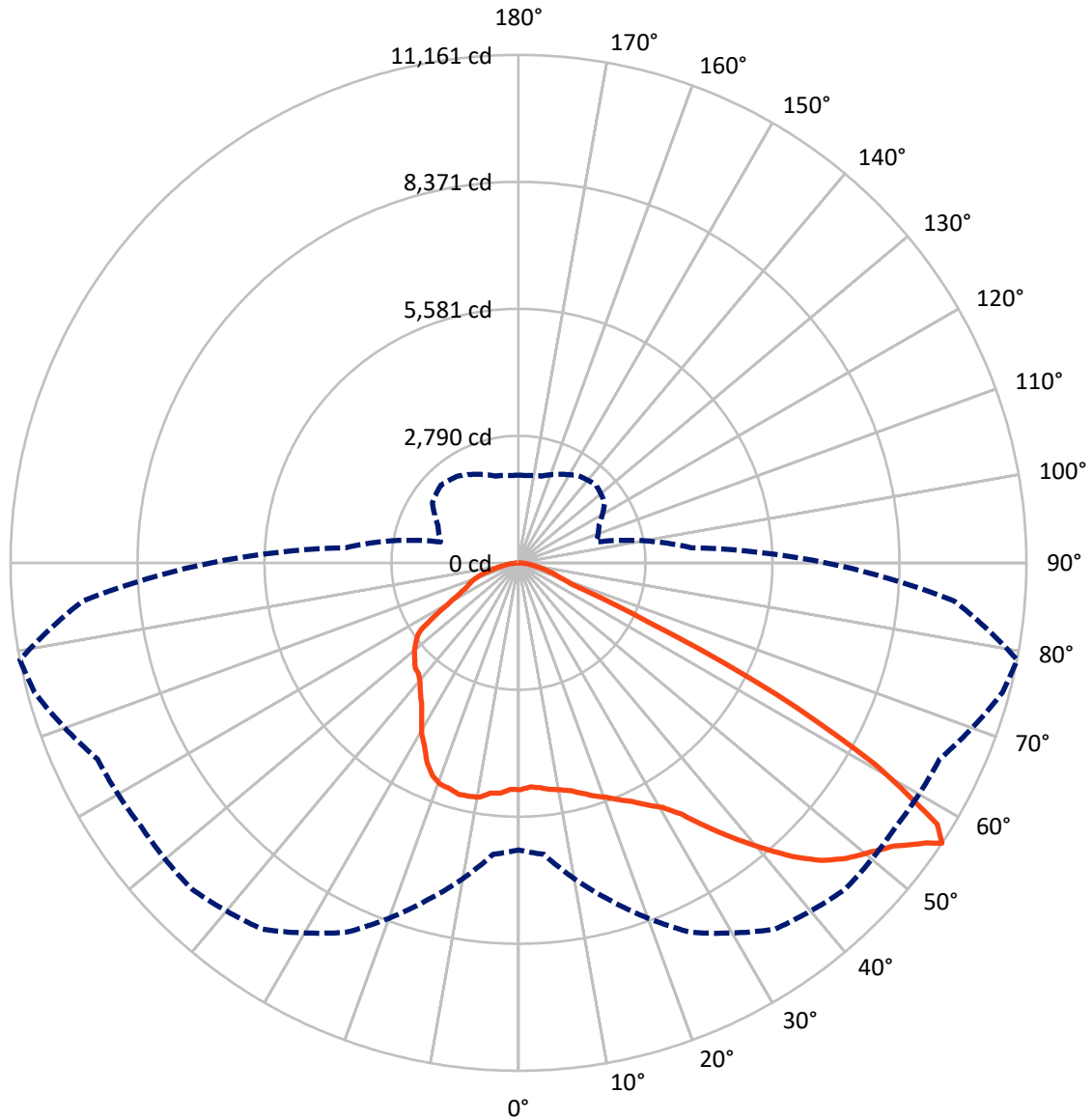
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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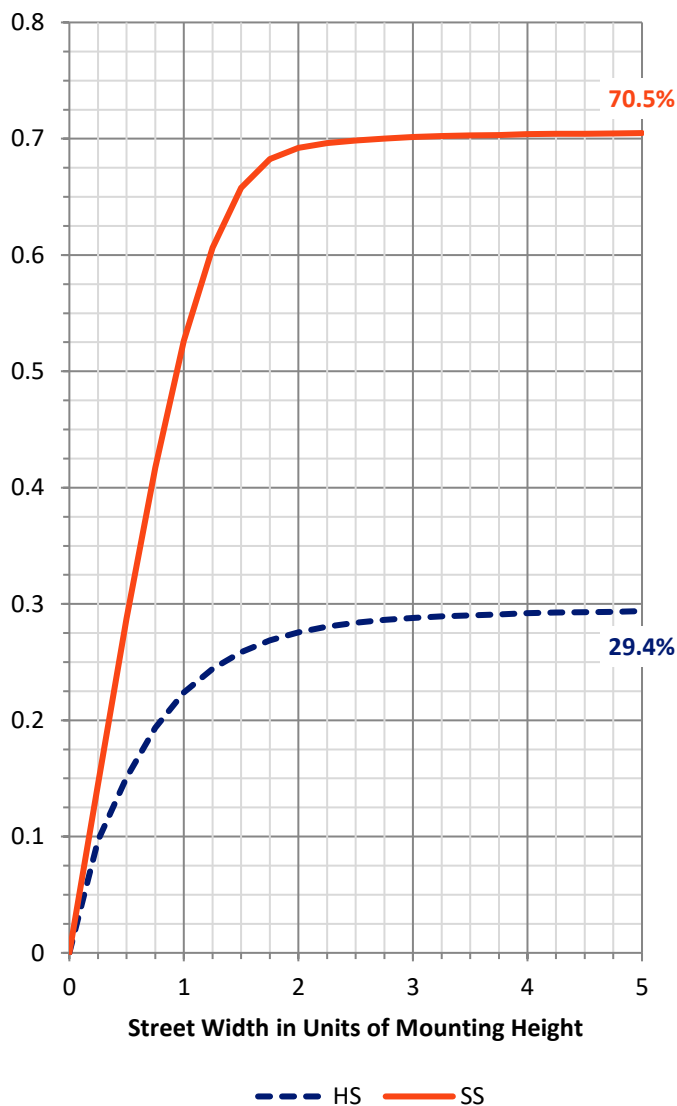
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5752.2	0.0	5752.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13725.7	0.0	13725.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	19477.9	0.0	19477.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	2.3
10°-20°	1240.0	6.4
20°-30°	2121.4	10.9
30°-40°	3251.4	16.7
40°-50°	4394.2	22.6
50°-60°	5046.9	25.9
60°-70°	2300.5	11.8
70°-80°	567.2	2.9
80°-90°	103.1	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°	19477.9	100.0
0°-180°	19477.9	100.0

Coefficient of Utilization



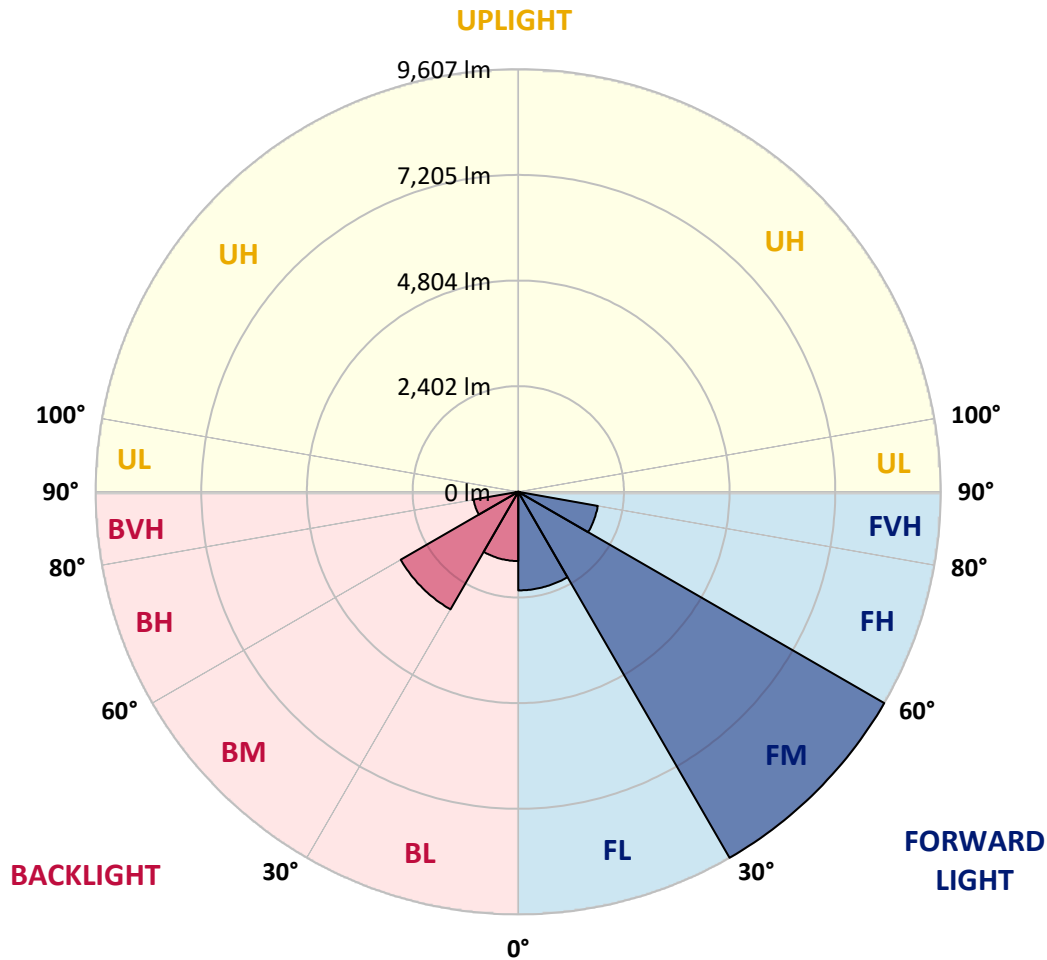
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.1	11.5			
FM (30°-60°)	9607.1	49.3			
FH (60°-80°)	1836.3	9.4			G2/5000
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	1573.5	8.1	B3/2500		
BM (30°-60°)	3085.4	15.8	B3/5000		
BH (60°-80°)	1031.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	61.9	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°	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6
2.5°	4741.0	4728.9	4758.0	4779.8	4806.5	4840.5	4857.4	4867.1	4952.1	4930.2	4995.8
5°	4639.1	4607.6	4629.4	4646.4	4692.4	4733.7	4779.8	4852.6	4930.2	4964.2	5044.3
7.5°	4549.3	4532.3	4527.5	4539.6	4602.7	4656.1	4736.1	4842.9	4969.1	5024.9	5070.9
10°	4401.3	4377.0	4413.5	4493.5	4510.5	4622.1	4714.3	4867.1	4976.4	5073.4	5209.3
12.5°	4335.8	4311.5	4318.8	4364.9	4483.8	4590.6	4699.7	4872.0	5102.5	5141.3	5323.3
15°	4440.2	4415.9	4423.2	4411.0	4525.0	4580.9	4753.1	4969.1	5189.9	5255.3	5449.4
17.5°	4677.9	4680.3	4648.8	4622.1	4595.4	4714.3	4833.2	5027.3	5223.9	5388.8	5534.4
20°	5131.6	5051.5	4988.5	4838.1	4796.8	4847.8	4998.2	5185.0	5362.1	5498.0	5663.0
22.5°	5481.0	5488.3	5398.6	5151.0	5061.2	5083.1	5211.7	5364.6	5558.7	5655.7	5844.9
25°	5988.1	5937.2	5840.1	5643.6	5442.2	5459.2	5553.8	5692.1	5745.5	5813.4	6019.6
27.5°	6451.5	6466.1	6274.4	6090.0	5840.1	5791.6	5961.4	5985.7	5895.9	6024.5	6094.9
30°	6922.3	6910.1	6783.9	6568.0	6323.0	6332.7	6407.8	6289.0	6165.3	6235.6	6284.1
32.5°	7409.9	7271.6	7266.8	7072.7	6885.9	6796.0	6703.9	6762.1	6570.5	6585.0	6538.9
35°	7800.6	7820.0	7708.4	7570.0	7477.9	7320.2	7067.8	7172.1	7135.8	7118.8	6919.8
37.5°	8084.5	8009.2	8065.1	8018.9	7931.6	7735.0	7473.0	7572.5	7589.5	7672.0	7441.5
40°	8317.3	8285.8	8433.8	8458.1	8397.4	7972.8	7502.2	7798.1	8052.9	8232.5	7958.3
42.5°	8429.0	8496.9	8652.2	8839.1	8703.1	8249.5	7652.6	7970.4	8538.1	8822.1	8448.4
45°	8579.4	8492.0	8722.5	9064.6	9067.1	8482.3	7798.1	8203.3	8916.6	9329.1	8783.2
47.5°	8426.6	8470.3	8708.0	9142.3	9253.9	8727.4	8191.2	8533.3	9334.0	9700.4	9093.8
50°	8084.5	8171.8	8606.1	9057.4	9394.7	8987.0	8642.5	8889.9	9719.8	9998.8	9144.7
52.5°	7727.7	7776.3	8455.7	9122.9	9457.7	9321.8	9246.6	9382.5	10190.4	10336.1	9207.8
55°	6757.3	6987.7	7958.3	9093.8	9765.9	9926.0	9867.8	10066.7	10724.3	10869.8	9552.4
56°	6308.4	6429.7	7659.9	8957.9	9826.5	10146.8	10117.7	10207.4	11008.1	11161.0	9605.8
57.5°	5478.6	5488.3	6531.6	8356.2	9598.5	10212.3	10183.2	10253.5	10952.3	10848.0	9137.5
60°	3428.4	3578.8	4445.0	6427.3	8162.1	9474.7	9639.7	9074.3	9234.5	9013.7	7109.1
62.5°	1776.1	1754.2	2329.3	3758.3	5418.0	6783.9	6936.8	6910.1	6662.6	6340.0	4644.0
65°	885.6	890.4	1218.0	1861.0	2775.7	3552.1	3979.1	4025.2	3367.7	3098.4	2203.0
67.5°	643.0	667.2	875.9	1137.9	1307.8	1463.0	1793.1	1759.1	1332.0	1266.5	1174.3
70°	499.8	521.6	710.9	868.6	788.6	788.6	858.9	888.0	948.7	975.4	1006.9
72.5°	363.9	380.9	543.5	599.3	516.8	555.6	643.0	710.9	774.0	783.7	820.1
75°	249.9	264.5	356.7	330.0	310.5	383.4	470.7	533.8	579.9	604.2	626.0
77.5°	162.6	167.4	203.8	172.3	199.0	247.5	305.7	359.1	405.2	424.6	429.5
80°	72.8	80.1	87.4	109.2	138.3	177.1	218.4	262.1	291.1	298.4	313.0
82.5°	41.3	41.3	53.4	77.7	101.9	128.6	157.7	189.3	223.2	230.5	228.1
85°	21.8	21.8	31.6	46.1	63.1	75.2	72.8	75.2	80.1	92.2	89.8
87.5°	7.3	7.3	9.7	9.7	12.1	14.6	12.1	17.0	21.8	21.8	21.8
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°	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6
2.5°	4976.4	4998.2	4969.1	5032.2	5032.2	5020.0	4959.4	4978.8	4993.3	4993.3	5005.5
5°	5070.9	5063.7	5083.1	5007.9	4961.8	4944.8	4845.4	4796.8	4755.6	4753.1	4716.7
7.5°	5124.3	5104.9	5097.6	5041.9	4838.1	4714.3	4500.8	4377.0	4350.3	4255.8	4292.1
10°	5209.3	5245.6	5209.3	4906.0	4622.1	4338.2	4129.5	3937.9	3862.7	3802.0	3765.6
12.5°	5384.0	5367.0	5155.9	4745.8	4347.9	4010.7	3700.1	3498.8	3423.5	3370.1	3365.3
15°	5532.0	5447.0	5124.3	4493.5	3920.9	3561.8	3307.1	3163.9	3130.0	3134.8	3156.6
17.5°	5582.9	5524.7	4959.4	4231.5	3603.1	3180.9	3062.0	3040.2	3071.7	3108.1	3117.8
20°	5663.0	5570.8	4891.4	3874.8	3210.0	2943.1	2935.9	3013.5	3071.7	3125.1	3132.4
22.5°	5830.4	5597.5	4670.6	3537.5	2940.7	2872.7	2943.1	3008.6	3098.4	3142.1	3103.3
25°	5878.9	5539.3	4360.1	3132.4	2770.8	2829.1	2904.3	2994.0	3057.1	3081.4	3098.4
27.5°	5920.2	5449.4	3940.3	2863.0	2717.5	2826.6	2904.3	2979.5	3013.5	3035.3	3054.7
30°	6036.6	5422.8	3576.4	2683.5	2683.5	2778.1	2877.6	2897.0	2943.1	2969.8	3003.7
32.5°	6094.9	5238.3	3202.7	2569.5	2649.5	2802.4	2809.6	2846.0	2848.5	2870.3	2833.9
35°	6247.7	5107.4	2855.8	2487.0	2664.1	2778.1	2814.5	2792.6	2673.8	2615.5	2627.7
37.5°	6359.4	5041.9	2605.8	2477.3	2666.5	2804.8	2824.2	2659.2	2535.5	2438.4	2462.7
40°	6660.2	4879.3	2416.6	2460.3	2688.4	2833.9	2780.5	2601.0	2377.8	2278.3	2261.3
42.5°	6890.7	4762.8	2297.7	2440.8	2705.3	2875.2	2758.7	2484.5	2256.4	2164.3	2188.6
45°	7157.6	4736.1	2234.6	2445.7	2734.5	2897.0	2732.0	2394.7	2152.2	2115.7	2108.5
47.5°	7252.2	4544.5	2166.7	2404.4	2727.2	2889.7	2642.2	2326.8	2113.3	2118.2	2137.6
50°	7094.5	4347.9	2115.7	2319.6	2678.6	2824.2	2501.5	2237.0	2091.5	2152.2	2186.1
52.5°	6893.1	4146.5	2011.4	2205.5	2579.1	2722.3	2436.0	2232.2	2069.6	2050.2	2057.5
55°	6953.7	3981.6	1865.8	2050.2	2419.0	2533.1	2363.3	2186.1	2016.2	1943.5	1967.8
56°	6757.3	3811.7	1771.2	1953.2	2309.8	2411.7	2326.8	2144.9	1972.6	1924.1	1924.1
57.5°	6201.6	3241.5	1647.4	1797.9	2079.3	2200.6	2256.4	2120.6	1924.1	1839.1	1841.5
60°	4573.6	2305.0	1477.6	1584.4	1722.7	1819.7	2079.3	2052.6	1802.8	1744.5	1722.7
62.5°	2819.3	1683.8	1356.3	1397.6	1467.9	1548.0	1814.8	1858.5	1674.1	1611.1	1596.5
65°	1579.5	1288.3	1264.1	1281.1	1315.0	1356.3	1506.7	1603.8	1477.6	1380.6	1375.7
67.5°	1154.9	1152.5	1171.9	1186.5	1201.0	1201.0	1237.5	1276.2	1259.2	1181.6	1174.3
70°	1026.4	1033.6	1048.1	1050.6	1055.4	1038.5	1009.4	997.2	1016.6	968.1	958.4
72.5°	846.8	871.0	888.0	890.4	863.7	842.0	803.1	761.9	747.3	737.6	735.2
75°	650.3	667.2	674.5	672.0	662.4	630.9	584.7	543.5	516.8	487.7	502.2
77.5°	439.2	463.5	475.6	475.6	461.0	412.5	390.6	359.1	332.4	300.8	305.7
80°	308.1	325.1	344.5	342.1	317.8	293.5	262.1	232.9	211.1	186.8	184.4
82.5°	230.5	240.2	249.9	245.1	228.1	203.8	182.0	155.3	131.0	114.0	114.0
85°	82.5	89.8	109.2	114.0	123.7	123.7	104.3	87.4	70.4	58.3	58.3
87.5°	24.3	24.3	26.7	26.7	24.3	26.7	21.8	24.3	26.7	17.0	17.0
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)