

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: P647079

Luminaire Tested: **GALN-SA7C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23318.5 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

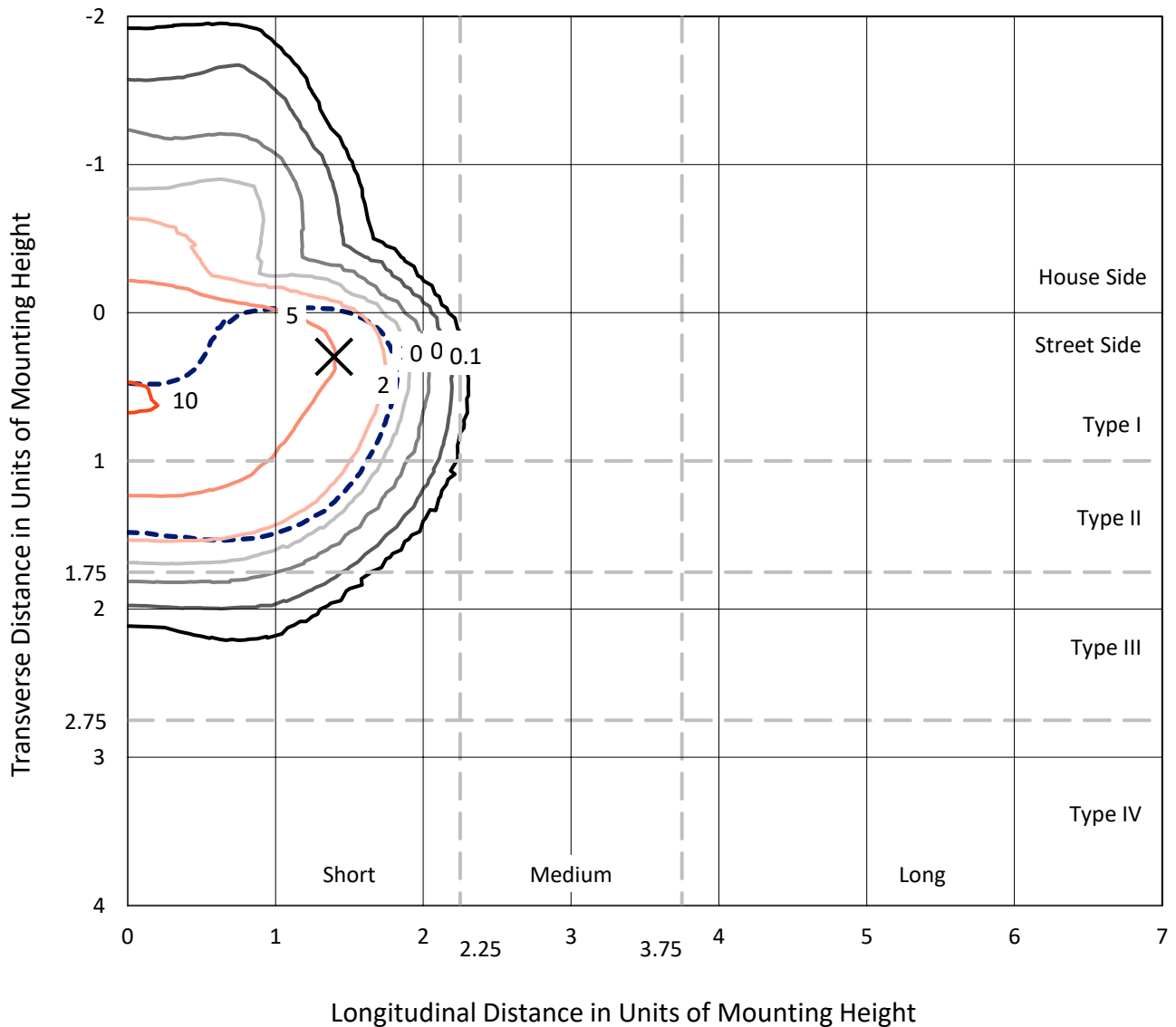
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647079
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

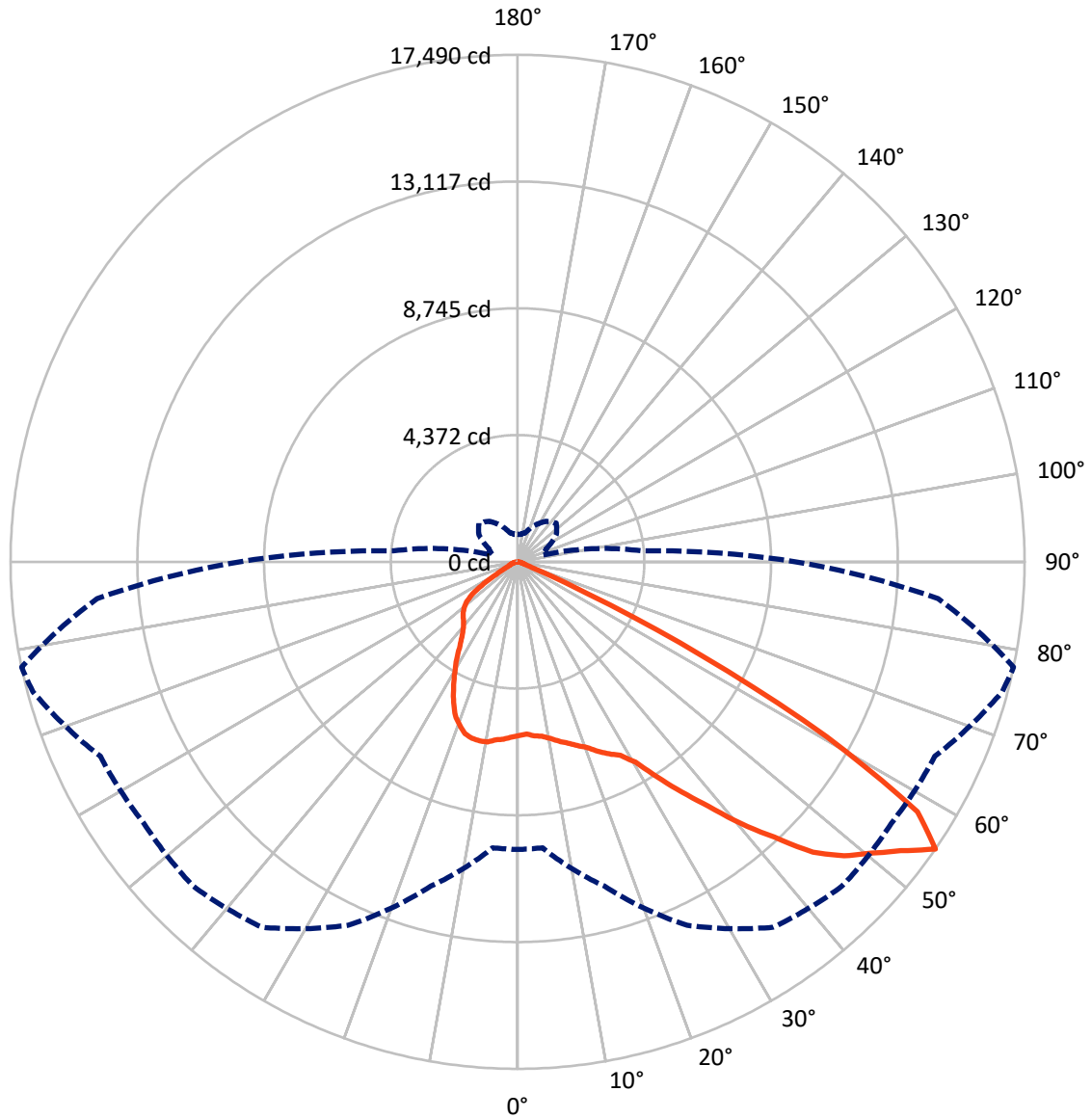
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

REPORT NUMBER: P647079
CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P647079
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

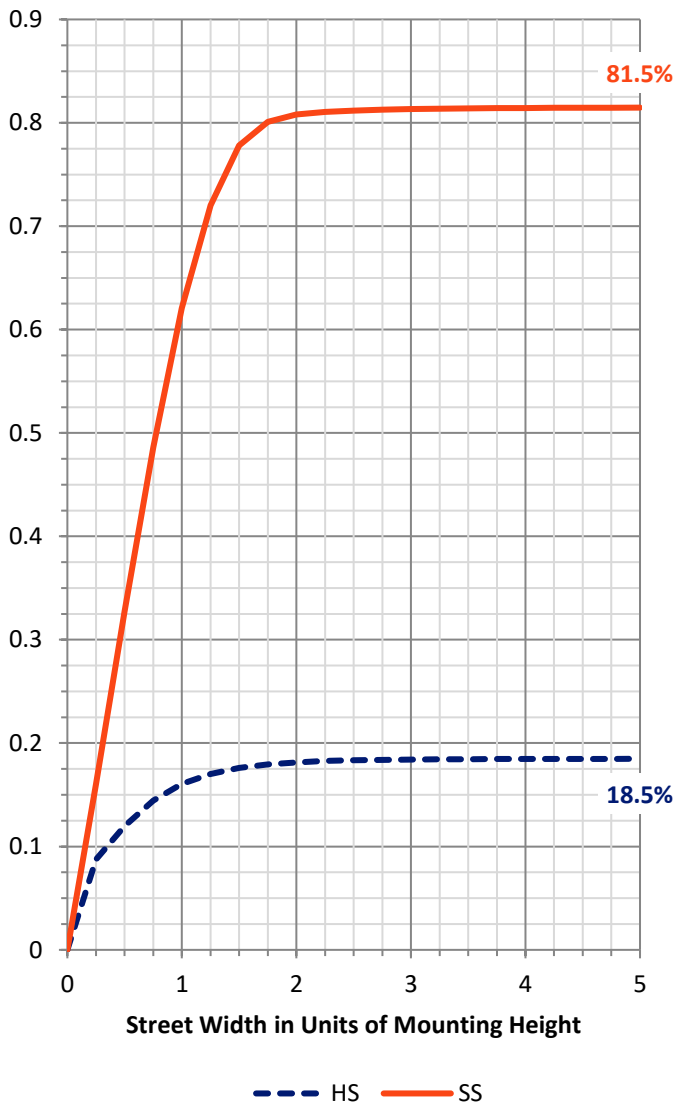
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4331.1	0.0	4331.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18987.4	0.0	18987.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	23318.5	0.0	23318.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.6	2.3
10°-20°	1414.8	6.1
20°-30°	2479.9	10.6
30°-40°	4089.0	17.5
40°-50°	5950.0	25.5
50°-60°	6741.9	28.9
60°-70°	1927.6	8.3
70°-80°	149.7	0.6
80°-90°	31.1	0.1
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°	23318.5	100.0
0°-180°	23318.5	100.0

Coefficient of Utilization

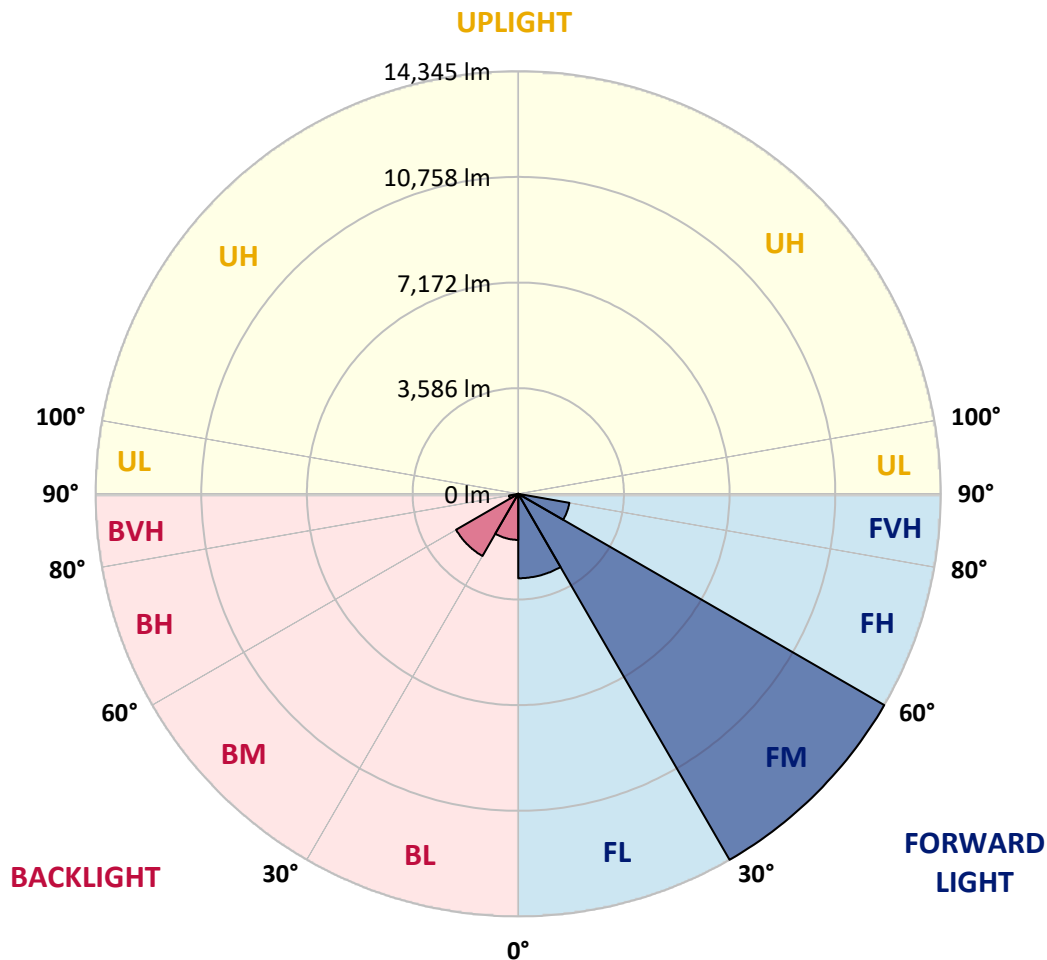


REPORT NUMBER: P647079
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.5	12.3			
FM (30°-60°)	14344.5	61.5			
FH (60°-80°)	1761.2	7.6			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1562.7	6.7	B3/2500		
BM (30°-60°)	2436.3	10.4	B2/2500		
BH (60°-80°)	316.2	1.4	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P647079

CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2
2.5°	5636.7	5690.8	5699.2	5765.9	5761.7	5874.3	5907.7	5911.8	5986.9	5949.3	6045.2
5°	5478.3	5449.1	5436.5	5553.3	5586.6	5686.7	5770.1	5820.1	5974.4	6028.6	6128.6
7.5°	5336.5	5336.5	5344.8	5449.1	5436.5	5565.8	5653.3	5807.6	6032.7	6078.6	6199.5
10°	5198.9	5148.9	5211.4	5319.8	5411.5	5469.9	5653.3	5799.3	6061.9	6195.3	6362.1
12.5°	5128.0	5153.1	5161.4	5240.6	5340.7	5515.8	5615.8	5857.6	6270.3	6349.6	6528.9
15°	5574.1	5524.1	5403.2	5332.3	5415.7	5499.1	5749.3	5995.2	6378.8	6491.3	6691.4
17.5°	6091.1	6049.4	5949.3	5757.6	5569.9	5724.2	5920.2	6145.3	6495.5	6662.2	6958.3
20°	6766.5	6699.8	6599.8	6224.5	6061.9	5895.1	6103.6	6370.4	6687.3	6837.4	7141.7
22.5°	7571.1	7571.1	7346.0	6891.6	6553.9	6395.5	6483.0	6637.3	6899.9	7104.2	7404.4
25°	8409.1	8384.1	8179.8	7708.7	7137.5	6949.9	7050.0	7158.4	7229.3	7341.8	7541.9
27.5°	9368.0	9222.1	8963.6	8442.5	7938.1	7575.3	7683.7	7587.8	7500.3	7558.6	7846.3
30°	10018.4	10110.2	9780.8	9280.5	8805.2	8400.8	8421.6	8338.2	7938.1	8021.4	8192.4
32.5°	10693.8	10752.2	10568.8	10293.6	9818.3	9347.2	9176.2	9105.4	8805.2	8842.7	8676.0
35°	11256.6	11369.2	11206.6	11085.7	10948.1	10568.8	10097.6	10326.9	9843.3	9751.6	9318.0
37.5°	11773.6	11740.3	11932.1	11806.9	11777.8	11511.0	10994.0	11039.8	10714.7	10693.8	10193.5
40°	12236.4	12244.7	12507.4	12565.7	12449.0	11973.7	11223.3	11586.0	11848.7	11873.6	11231.7
42.5°	12619.9	12732.5	12957.6	13428.8	13253.7	12461.5	11460.9	11857.0	12832.6	12986.8	12215.6
45°	12953.5	13182.7	13462.1	13883.2	13783.1	13153.6	12053.0	12415.6	13883.2	14287.6	13141.1
47.5°	12974.3	13274.5	13578.9	14204.2	14329.3	13524.7	12665.8	13299.5	14717.0	15154.8	13816.5
50°	12890.9	13049.4	13658.0	14337.7	14621.1	14129.2	13524.7	14041.6	15525.8	15801.0	14158.4
52.5°	11902.9	12023.7	13245.3	14462.7	15146.4	14813.0	14662.8	15075.6	16351.3	16555.6	14479.4
55°	9922.5	9901.7	11581.8	13833.2	15388.2	15826.0	15734.3	15880.2	17306.0	17489.5	14558.6
57.5°	6787.4	7166.7	8617.6	11519.3	13908.2	15588.4	15684.3	15442.5	16192.9	16263.8	12690.9
60°	3660.5	3818.9	4986.3	7687.9	10589.6	12703.3	12953.5	12515.7	12457.4	12257.2	9059.5
62.5°	1455.0	1534.2	2197.1	3806.4	5770.1	7721.2	8259.0	8079.8	7696.2	7170.9	4690.2
65°	692.1	742.1	1092.3	1780.2	2559.9	3218.6	3756.4	3923.1	2893.3	2605.7	1546.7
67.5°	471.1	508.6	796.3	1017.3	913.1	954.7	1242.4	1154.8	679.6	579.5	429.4
70°	358.5	383.6	637.9	692.1	408.6	287.7	321.0	300.2	279.3	283.5	279.3
72.5°	254.3	275.1	467.0	408.6	179.3	133.4	170.9	204.3	204.3	204.3	200.1
75°	154.3	175.1	271.0	158.4	70.9	70.9	108.4	137.6	146.0	150.1	141.7
77.5°	79.2	100.1	91.7	45.9	45.9	54.2	79.2	95.9	104.2	104.2	100.1
80°	16.7	16.7	16.7	25.0	45.9	58.3	79.2	87.5	100.1	100.1	91.7
82.5°	0.0	4.1	12.5	25.0	41.7	54.2	75.0	87.5	100.1	104.2	95.9
85°	0.0	4.1	8.3	16.7	29.2	33.4	29.2	25.0	25.0	25.0	25.0
87.5°	0.0	0.0	4.1	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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: P647079

CATALOG NUMBER: GALN-SA7C-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2
2.5°	6053.6	6066.1	6045.2	6041.1	6024.4	6074.4	5953.5	5924.3	5999.3	5928.5	5945.2
5°	6132.8	6162.0	6124.5	6061.9	5970.2	5828.4	5707.5	5549.1	5474.0	5419.8	5411.5
7.5°	6191.2	6212.0	6174.5	5974.4	5699.2	5340.7	5073.8	4877.9	4723.6	4677.8	4602.7
10°	6428.8	6433.0	6245.4	5803.4	5265.6	4794.5	4385.9	4085.8	3931.5	3835.6	3793.9
12.5°	6587.2	6578.9	6199.5	5465.7	4748.7	4123.3	3656.3	3293.6	3151.9	3106.0	3076.8
15°	6787.4	6741.5	6091.1	5119.7	4081.5	3406.2	2985.1	2734.9	2722.4	2693.3	2722.4
17.5°	6945.8	6816.6	5932.6	4490.1	3443.7	2805.8	2530.7	2547.3	2580.7	2609.9	2614.0
20°	7204.2	6937.5	5569.9	3939.8	2851.7	2405.6	2401.4	2476.5	2559.9	2593.2	2626.6
22.5°	7400.2	6987.5	5182.2	3351.9	2368.0	2243.0	2313.8	2426.4	2489.0	2522.4	2572.4
25°	7471.1	6849.8	4665.3	2764.1	2134.6	2168.0	2276.3	2351.4	2430.6	2468.1	2447.3
27.5°	7541.9	6779.0	4048.2	2276.3	2009.5	2117.9	2209.6	2284.7	2309.7	2359.7	2393.1
30°	7712.9	6533.0	3493.7	1967.8	1947.0	2084.6	2151.3	2176.3	2243.0	2272.2	2272.2
32.5°	7850.4	6437.1	2905.9	1821.9	1938.6	2101.3	2109.6	2109.6	2117.9	2097.1	2088.7
35°	8134.0	6107.8	2380.6	1734.3	1934.5	2105.4	2126.2	2055.4	1863.6	1788.5	1767.7
37.5°	8484.2	5895.1	1992.8	1713.5	1963.7	2155.4	2188.8	1922.0	1671.8	1550.9	1530.1
40°	8909.4	5745.0	1738.5	1705.1	2030.4	2272.2	2172.1	1817.7	1492.6	1317.5	1309.1
42.5°	9405.6	5607.5	1567.6	1701.0	2113.8	2393.1	2155.4	1730.2	1309.1	1192.4	1209.0
45°	9801.6	5532.4	1450.8	1671.8	2142.9	2463.9	2168.0	1575.9	1234.1	1159.0	1167.4
47.5°	10110.2	5374.0	1355.0	1621.8	2138.8	2489.0	2055.4	1513.4	1196.5	1217.4	1238.2
50°	10118.5	5161.4	1234.1	1513.4	2076.2	2443.1	1926.1	1455.0	1188.2	1275.7	1317.5
52.5°	10005.9	4861.2	1104.8	1359.1	1930.3	2284.7	1809.4	1430.0	1150.7	1142.3	1192.4
55°	9605.7	4298.4	888.0	1100.7	1630.1	1884.4	1705.1	1384.2	1038.1	942.2	950.6
57.5°	7762.9	3080.9	654.6	787.9	1154.8	1380.0	1538.4	1363.3	933.9	800.5	804.6
60°	4807.0	1746.9	479.4	537.8	712.9	838.0	1246.5	1267.4	833.8	675.4	667.0
62.5°	2468.1	863.0	371.1	379.4	437.8	492.0	854.6	1063.2	754.6	642.1	642.1
65°	825.5	425.2	325.2	291.8	291.8	304.4	516.9	737.9	637.9	537.8	537.8
67.5°	354.4	316.9	283.5	254.3	233.5	221.0	291.8	429.4	475.3	408.6	391.9
70°	275.1	266.8	245.9	212.7	183.5	166.8	170.9	221.0	271.0	262.6	254.3
72.5°	204.3	204.3	196.0	166.8	141.7	120.9	112.6	116.7	129.3	133.4	137.6
75°	141.7	146.0	146.0	129.3	104.2	87.5	75.0	62.6	50.0	41.7	37.5
77.5°	95.9	100.1	108.4	95.9	79.2	58.3	45.9	33.4	20.8	8.3	8.3
80°	83.4	95.9	104.2	95.9	83.4	62.6	45.9	25.0	12.5	0.0	0.0
82.5°	87.5	95.9	108.4	91.7	79.2	58.3	45.9	29.2	12.5	4.1	0.0
85°	20.8	20.8	25.0	29.2	37.5	41.7	33.4	20.8	12.5	4.1	0.0
87.5°	8.3	8.3	8.3	8.3	8.3	4.1	4.1	4.1	4.1	0.0	0.0
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)