

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: P648012

Luminaire Tested: **GALN-SA6A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648012
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-SA6A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 18103.8 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

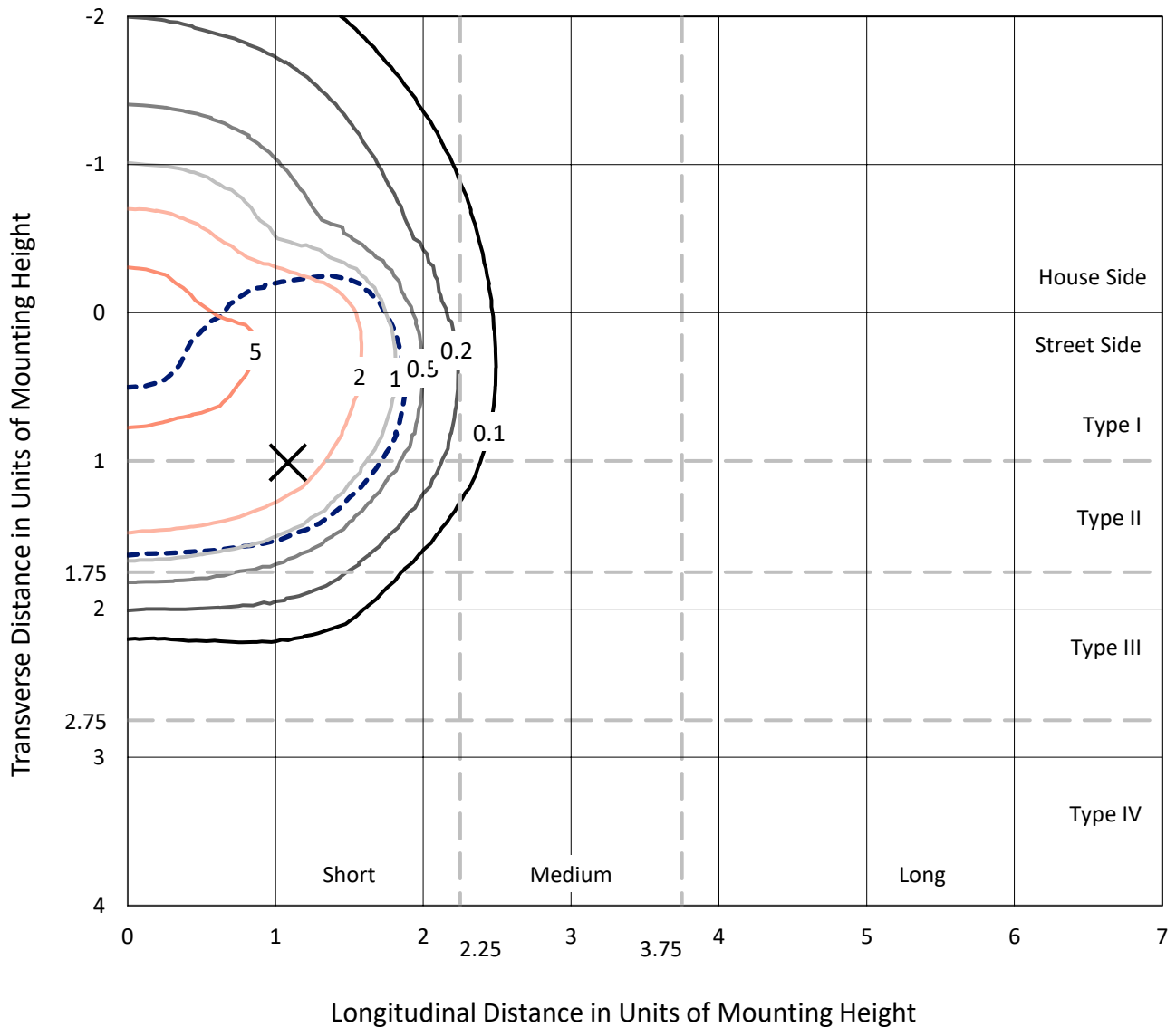
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

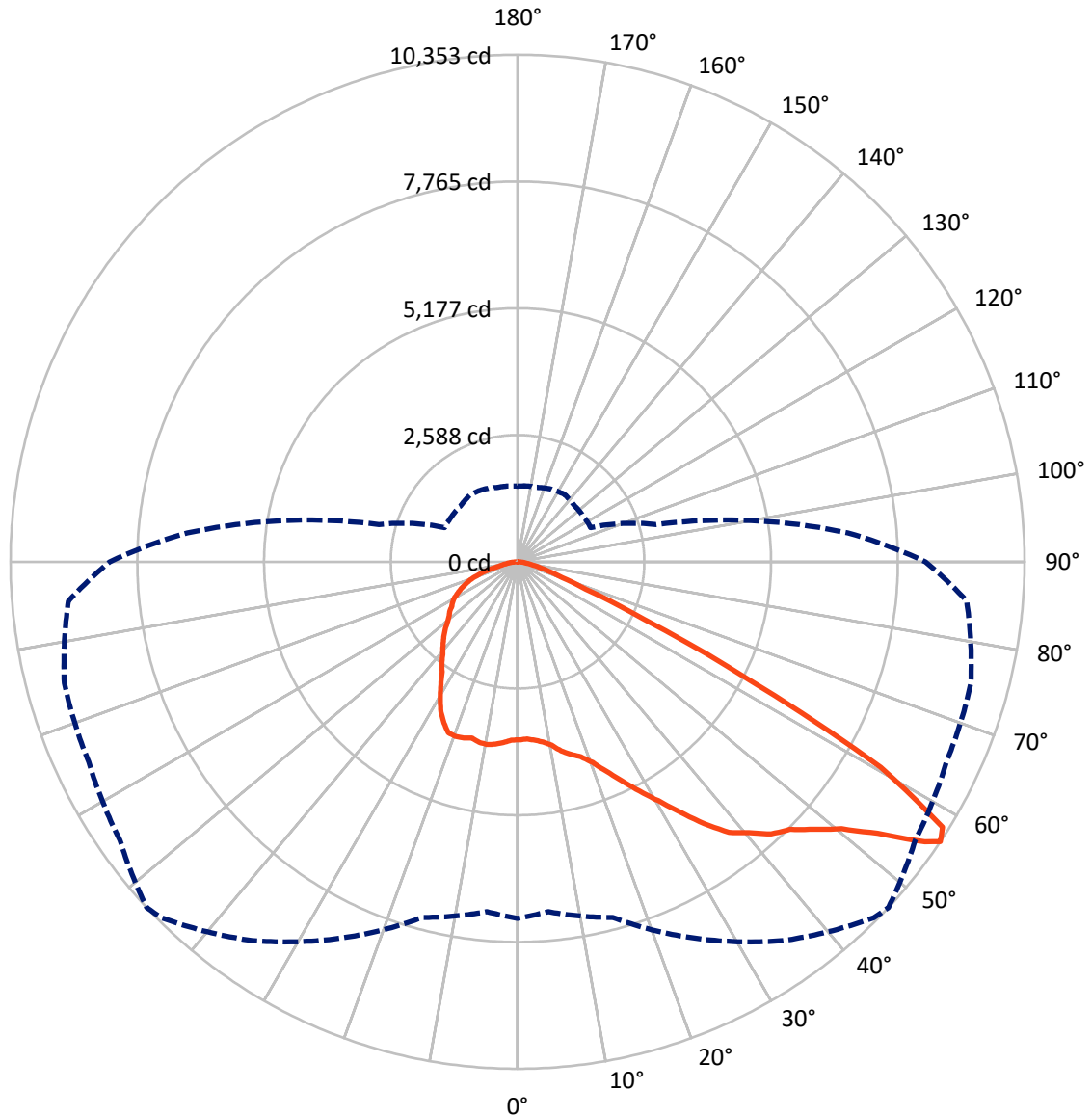
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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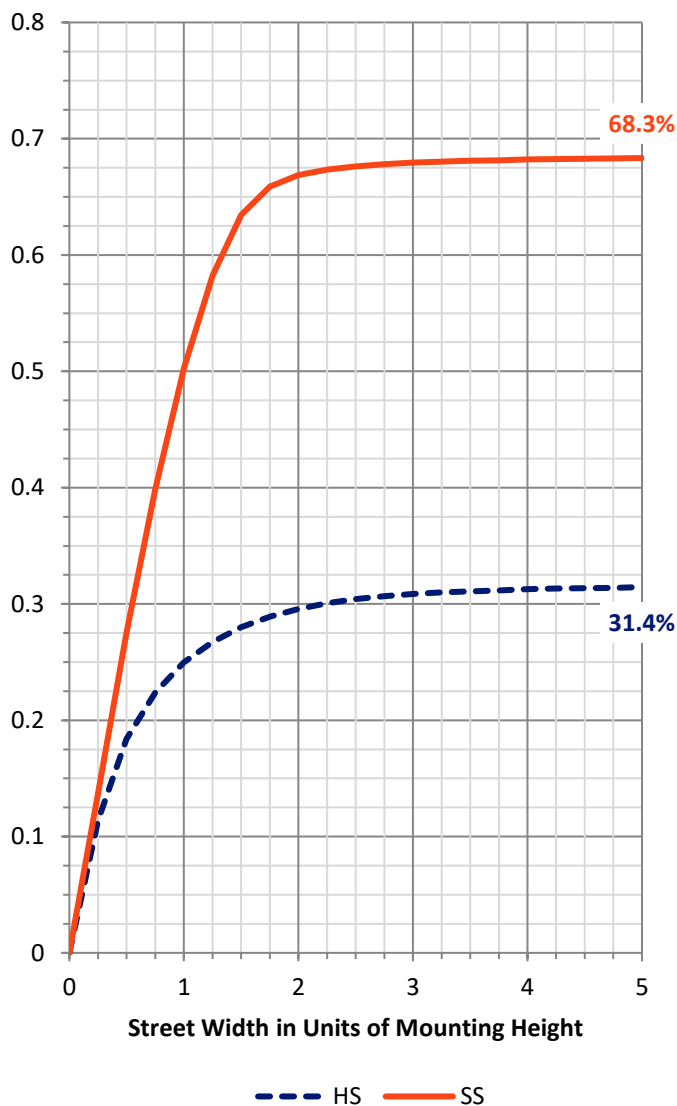
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5736.9	0.0	5736.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12366.9	0.0	12366.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	18103.8	0.0	18103.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.3	2.0
10°-20°	1117.7	6.2
20°-30°	1975.9	10.9
30°-40°	2967.7	16.4
40°-50°	4072.9	22.5
50°-60°	4852.3	26.8
60°-70°	2076.5	11.5
70°-80°	587.6	3.2
80°-90°	98.9	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°	18103.8	100.0
0°-180°	18103.8	100.0

Coefficient of Utilization



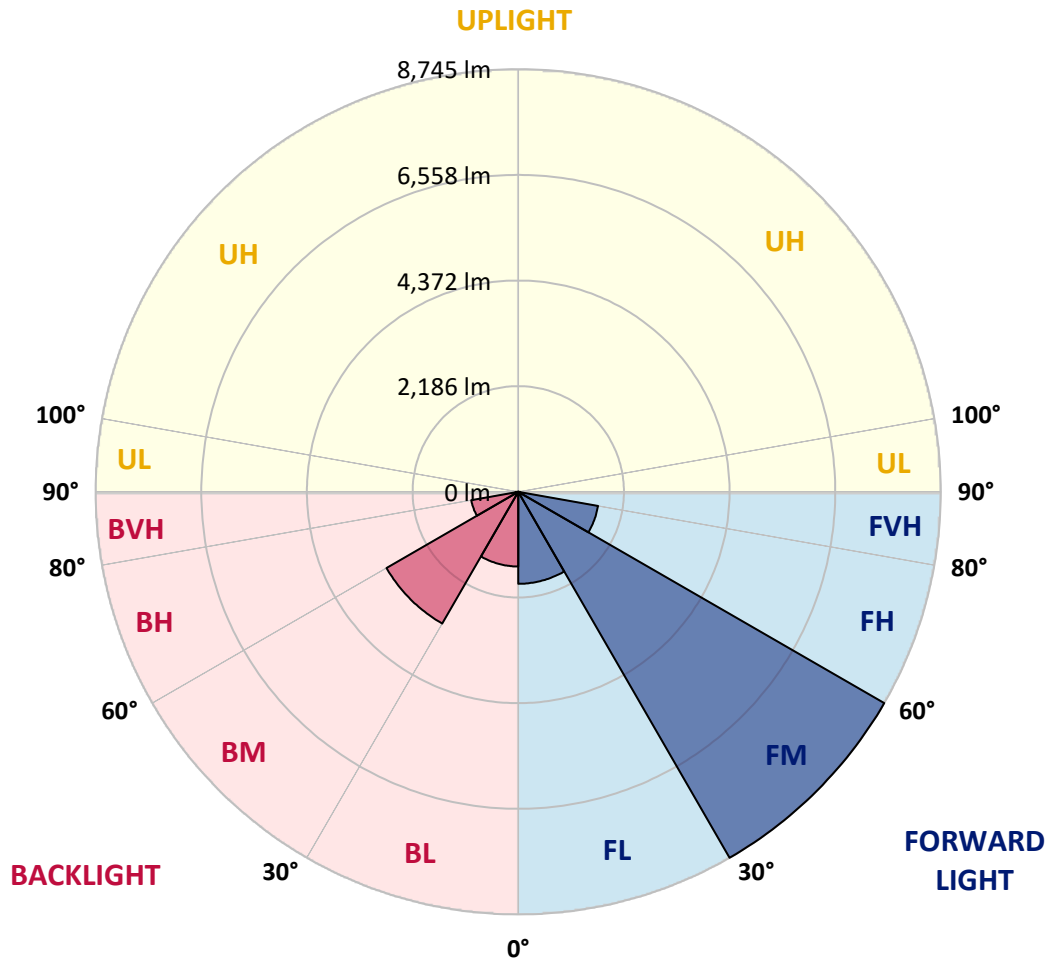
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.3	10.5			
FM (30°-60°)	8744.5	48.3			
FH (60°-80°)	1677.1	9.3			G1/1800
FVH (80°-90°)	42.0	0.2			G1/100
BL (0°-30°)	1544.6	8.5	B3/2500		
BM (30°-60°)	3148.3	17.4	B3/5000		
BH (60°-80°)	987.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	56.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3622.6	3615.7	3611.1	3648.1	3634.2	3636.5	3622.6	3636.5	3645.7	3625.0	3655.0
5°	3615.7	3636.5	3618.0	3629.6	3659.6	3650.3	3659.6	3687.3	3680.3	3673.4	3664.2
7.5°	3680.3	3682.7	3696.5	3701.2	3710.4	3701.2	3715.0	3740.4	3733.5	3694.2	3698.8
10°	3772.7	3777.3	3779.6	3805.1	3821.2	3823.5	3807.3	3784.2	3782.0	3835.1	3798.1
12.5°	3878.9	3867.4	3895.1	3904.4	3922.8	3943.6	3964.3	3915.9	3945.9	3948.2	3904.4
15°	4033.6	4045.1	4012.9	4012.9	4019.8	4022.1	4079.8	4056.7	4052.1	4026.7	4045.1
17.5°	4264.5	4186.0	4183.7	4151.4	4146.8	4165.2	4186.0	4204.5	4266.8	4216.0	4116.7
20°	4433.0	4451.5	4384.6	4345.3	4352.2	4393.8	4373.1	4456.1	4500.0	4416.9	4319.9
22.5°	4730.9	4668.6	4684.7	4597.0	4603.9	4647.8	4645.5	4730.9	4756.3	4624.7	4483.8
25°	4931.8	4915.6	4929.5	4860.2	4869.4	4904.1	4959.4	5100.3	5058.7	4913.3	4587.8
27.5°	5225.0	5192.7	5181.1	5155.7	5146.5	5238.9	5303.5	5453.6	5423.6	5211.2	4772.5
30°	5525.2	5504.4	5515.9	5412.0	5449.0	5645.2	5663.7	5869.2	5855.4	5481.3	4977.9
32.5°	5733.0	5744.5	5765.3	5707.5	5871.5	6028.5	6090.8	6324.1	6335.6	5945.4	5375.1
35°	6067.8	6028.5	6040.1	6107.0	6183.2	6469.5	6571.1	6725.8	6822.7	6432.6	5756.1
37.5°	6277.9	6319.4	6270.9	6377.1	6575.7	6919.8	7012.1	7171.4	7273.0	6912.8	6275.5
40°	6605.7	6538.8	6573.4	6649.5	6852.7	7300.7	7275.3	7439.2	7471.5	7321.4	6760.4
42.5°	6959.0	6926.7	6878.2	7051.3	7222.2	7547.7	7598.5	7522.4	7686.2	7720.9	7453.1
45°	7381.5	7420.7	7427.7	7432.3	7582.3	7866.3	7797.1	7730.2	7919.5	8171.2	7882.5
47.5°	7774.0	7649.4	7739.4	7864.1	8076.5	8078.8	8159.6	8000.3	8201.1	8425.1	8270.4
50°	7905.6	7845.6	7965.6	8201.1	8529.0	8563.7	8572.9	8346.6	8450.5	8628.3	8404.3
52.5°	7854.8	7834.1	8141.1	8506.0	8986.2	9161.6	9207.8	8928.5	8986.2	8905.4	8699.9
55°	7612.4	7674.7	7984.1	8727.6	9464.1	10006.7	10094.4	9741.1	9374.1	9436.4	9210.1
56°	7279.9	7171.4	7517.7	8475.9	9443.4	10281.5	10353.1	9912.1	9662.7	9581.9	9205.5
57.5°	6176.2	6035.4	6490.3	7626.3	8919.2	10177.6	10230.7	9983.6	9614.2	9450.3	8533.6
60°	3615.7	3685.0	4262.2	5259.6	6880.5	8344.3	8522.1	8702.2	8455.1	7720.9	6351.8
62.5°	1745.5	1701.6	2115.0	3015.4	4193.0	5326.6	5273.5	5779.2	6056.2	5485.9	4010.5
65°	914.3	909.7	1154.5	1646.3	2304.3	2798.4	2846.8	3119.3	3500.2	2826.1	2036.4
67.5°	671.9	690.4	812.8	1156.7	1482.3	1512.3	1505.4	1641.6	1678.6	1420.0	1251.4
70°	526.4	535.7	625.7	879.7	1103.6	988.2	967.4	983.6	1092.1	1138.2	1082.9
72.5°	380.9	390.2	466.4	593.4	690.4	674.2	688.0	778.1	912.0	960.5	902.8
75°	254.0	260.9	302.5	362.5	408.6	441.0	466.4	570.3	695.0	722.7	695.0
77.5°	175.5	182.4	210.1	256.3	260.9	281.6	290.9	339.4	415.6	450.2	431.7
80°	99.3	99.3	113.1	131.6	161.6	189.3	193.9	233.2	267.9	290.9	295.5
82.5°	46.2	48.5	60.1	80.8	106.2	131.6	136.2	161.6	187.1	210.1	217.0
85°	23.1	25.4	34.6	48.5	64.7	78.5	76.2	78.5	83.2	78.5	80.8
87.5°	6.9	6.9	9.2	11.5	9.2	11.5	11.5	13.9	16.1	18.5	20.7
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°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3657.2	3664.2	3618.0	3661.9	3645.7	3643.5	3675.7	3671.1	3682.7	3678.1	3650.3
5°	3659.6	3643.5	3691.9	3648.1	3668.8	3712.7	3682.7	3751.9	3717.3	3740.4	3689.6
7.5°	3731.2	3735.8	3726.5	3745.0	3735.8	3756.5	3740.4	3756.5	3728.9	3731.2	3777.3
10°	3793.5	3779.6	3795.8	3772.7	3788.9	3782.0	3745.0	3733.5	3742.7	3731.2	3761.1
12.5°	3909.0	3883.5	3872.0	3844.3	3825.8	3756.5	3698.8	3666.5	3710.4	3717.3	3703.4
15°	4026.7	4029.0	3975.9	3913.6	3798.1	3694.2	3708.1	3719.6	3719.6	3738.1	3703.4
17.5°	4100.6	4100.6	4052.1	3927.4	3809.7	3749.6	3735.8	3698.8	3666.5	3661.9	3659.6
20°	4229.8	4190.6	4079.8	3925.1	3805.1	3777.3	3673.4	3585.7	3518.7	3495.6	3493.4
22.5°	4377.7	4278.4	4123.7	3929.7	3798.1	3758.9	3564.9	3433.3	3313.3	3262.4	3269.4
25°	4513.8	4354.6	4149.0	3909.0	3772.7	3583.4	3366.4	3183.9	3059.3	3017.7	2996.9
27.5°	4608.5	4435.4	4149.0	3927.4	3678.1	3387.1	3165.5	2932.3	2823.7	2796.1	2800.7
30°	4735.5	4536.9	4220.6	3888.1	3488.7	3133.2	2867.7	2715.2	2650.6	2627.5	2643.6
32.5°	5033.4	4802.5	4319.9	3793.5	3264.8	2879.2	2664.5	2579.0	2484.4	2438.2	2422.1
35°	5356.6	5054.1	4416.9	3634.2	3013.1	2648.3	2514.4	2435.8	2322.8	2272.0	2281.2
37.5°	5813.8	5377.4	4423.8	3371.0	2740.7	2519.0	2396.6	2274.2	2181.9	2103.4	2080.3
40°	6430.2	5818.4	4407.7	3093.9	2521.3	2366.6	2276.6	2124.2	2020.3	1964.9	1976.4
42.5°	6972.8	6335.6	4340.7	2779.9	2322.8	2262.7	2161.1	2011.1	1909.4	1851.7	1847.1
45°	7430.0	6716.6	4213.7	2512.1	2156.5	2147.3	2029.5	1914.0	1833.2	1780.2	1803.2
47.5°	7852.6	7023.6	4022.1	2244.2	2004.1	2022.6	1909.4	1837.9	1787.0	1738.6	1736.3
50°	8004.9	7019.0	3853.5	2022.6	1881.7	1872.5	1867.9	1791.7	1738.6	1697.0	1715.5
52.5°	8258.8	7097.5	3671.1	1870.2	1770.9	1773.3	1789.4	1734.0	1674.0	1648.5	1671.6
55°	8623.6	7109.1	3269.4	1692.4	1678.6	1694.7	1694.7	1657.8	1607.0	1586.2	1574.7
56°	8325.9	6765.0	2932.3	1646.3	1632.4	1632.4	1676.2	1634.7	1572.3	1556.2	1542.4
57.5°	7679.4	5926.9	2454.3	1590.8	1570.1	1602.3	1625.4	1581.6	1523.9	1500.8	1514.6
60°	5296.6	4010.5	1844.8	1470.8	1470.8	1523.9	1542.4	1477.7	1452.3	1450.0	1431.5
62.5°	3091.6	2336.6	1443.1	1362.3	1366.9	1410.7	1424.6	1387.6	1355.3	1394.6	1413.0
65°	1639.3	1394.6	1237.5	1246.8	1249.1	1283.7	1343.8	1341.4	1339.2	1350.7	1353.0
67.5°	1186.8	1159.1	1124.4	1115.2	1119.8	1145.2	1205.3	1251.4	1249.1	1221.4	1200.7
70°	1057.4	1018.2	997.5	999.7	981.3	1011.3	1059.8	1089.8	1036.7	1004.4	990.5
72.5°	879.7	868.1	854.3	856.6	819.6	812.8	757.3	757.3	743.5	734.2	750.3
75°	671.9	667.3	674.2	662.7	623.4	581.8	549.5	519.5	473.3	454.8	445.6
77.5°	424.9	438.7	454.8	429.5	413.3	383.3	350.9	321.0	284.0	263.2	263.2
80°	288.6	300.1	311.7	307.1	288.6	260.9	235.5	203.2	177.8	161.6	159.3
82.5°	219.3	228.6	244.8	226.3	207.8	184.7	164.0	140.9	117.8	99.3	99.3
85°	78.5	90.0	99.3	108.5	115.4	117.8	101.6	83.2	66.9	53.1	50.8
87.5°	20.7	23.1	25.4	23.1	23.1	23.1	25.4	23.1	20.7	16.1	16.1
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)