

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: P646973

Luminaire Tested: **GALN-SA5C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27337.7 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

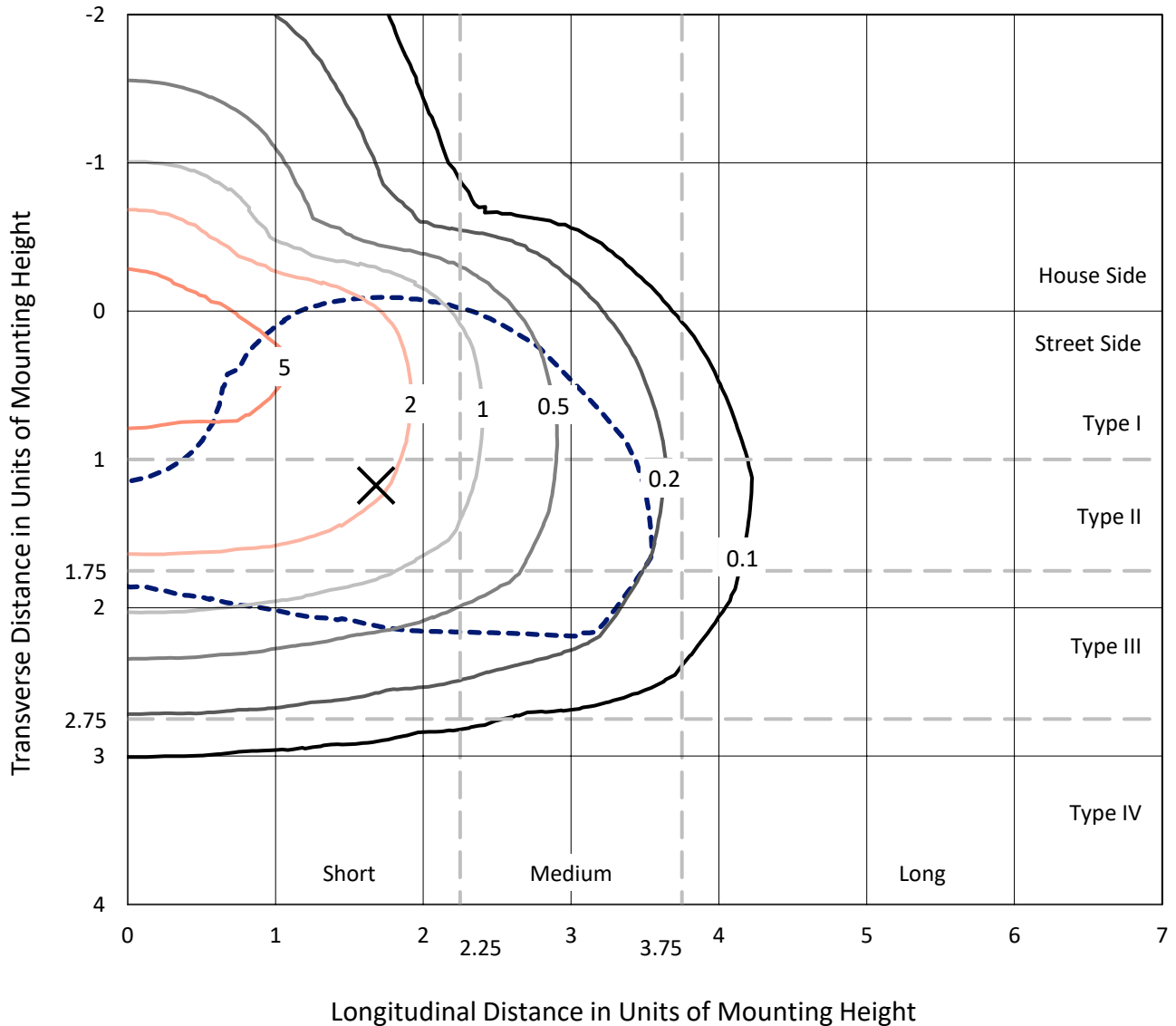
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

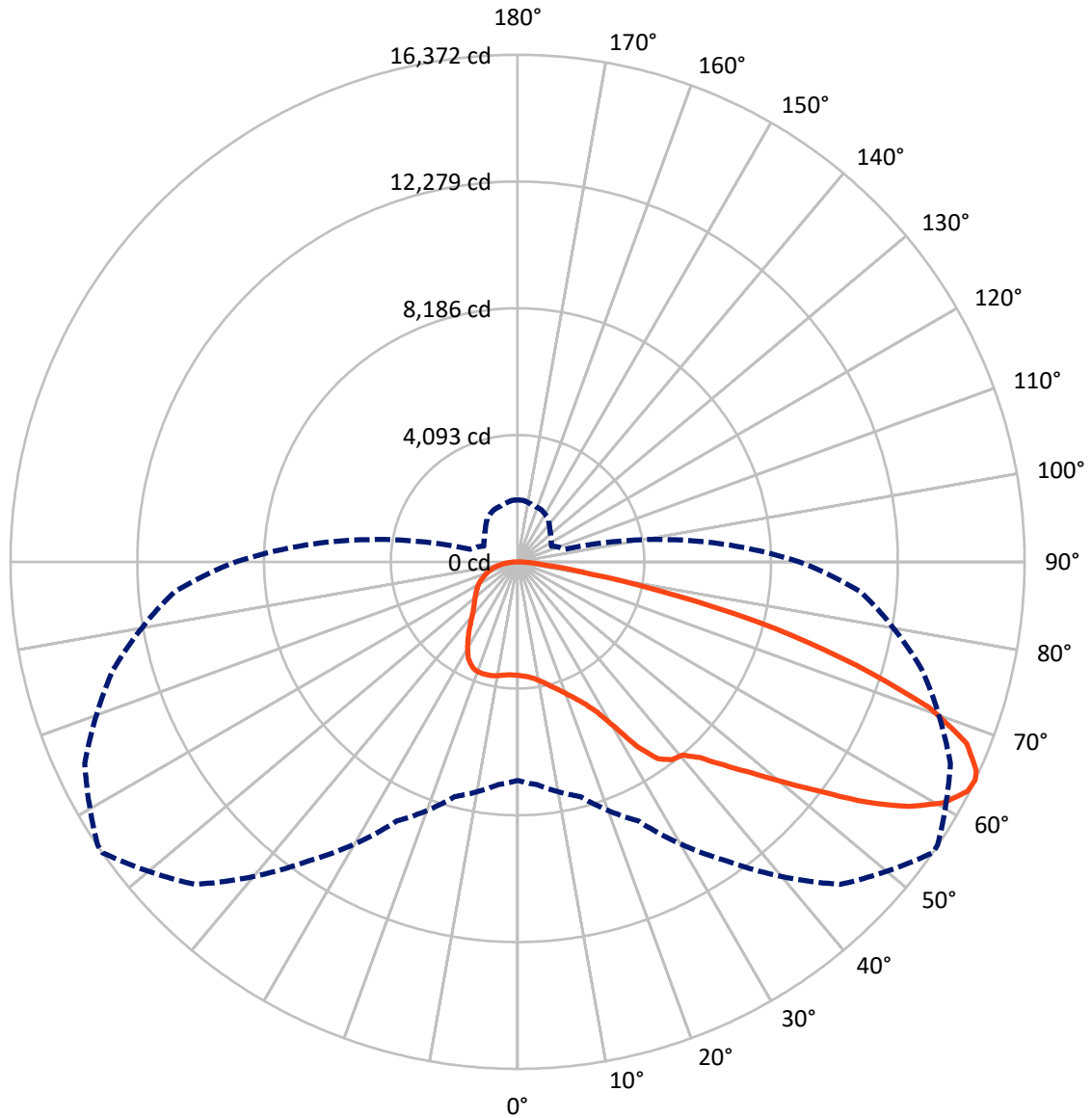
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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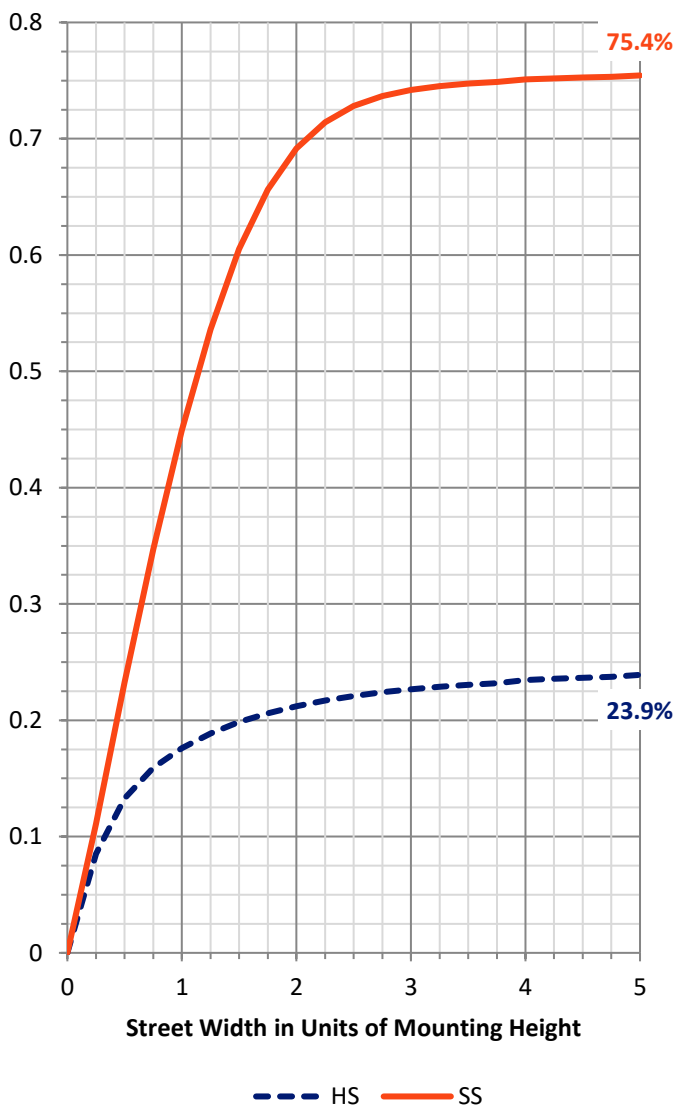
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6640.9	0.0	6640.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20696.8	0.0	20696.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	27337.7	0.0	27337.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	1.3
10°-20°	1125.8	4.1
20°-30°	2004.2	7.3
30°-40°	3083.6	11.3
40°-50°	4371.3	16.0
50°-60°	6327.4	23.1
60°-70°	6548.1	24.0
70°-80°	3066.5	11.2
80°-90°	454.0	1.7
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°	27337.7	100.0
0°-180°	27337.7	100.0

Coefficient of Utilization

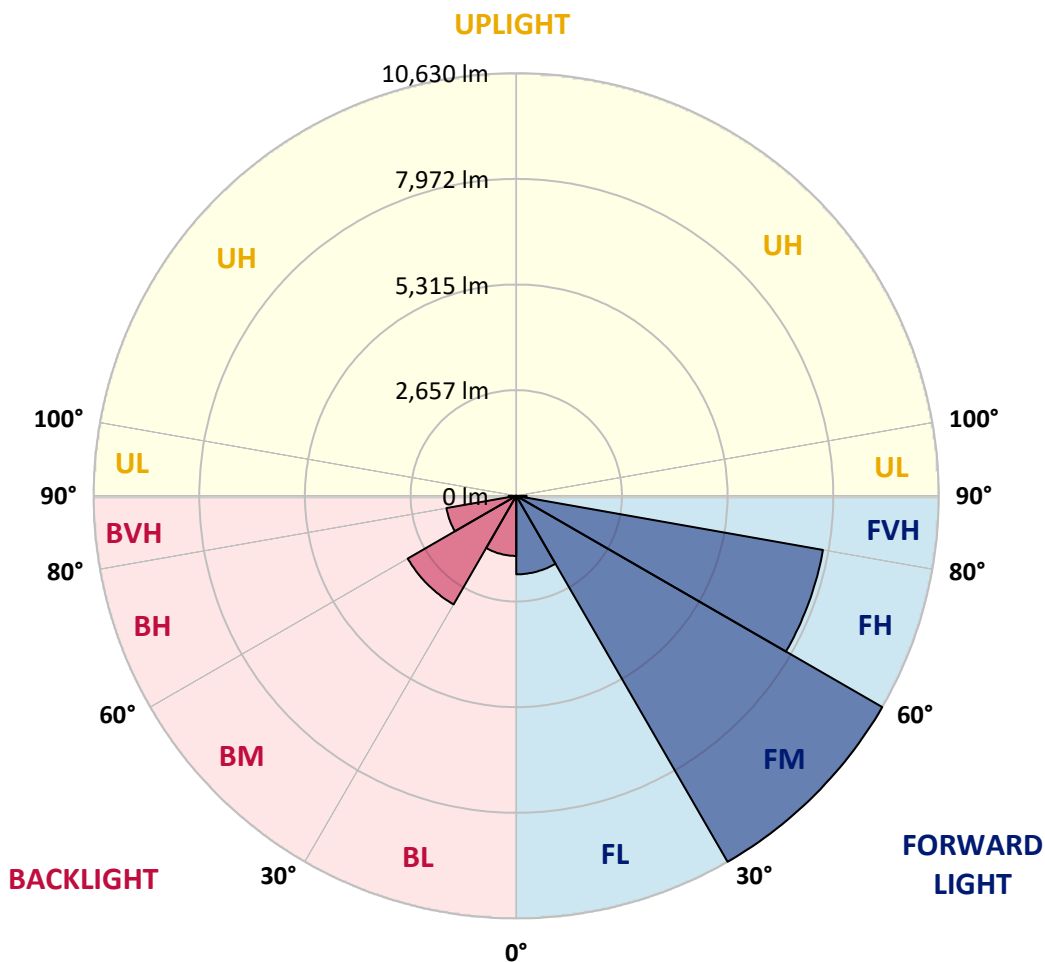


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.2	7.2			
FM (30°-60°)	10629.6	38.9			
FH (60°-80°)	7833.0	28.7			G4/12000
FVH (80°-90°)	259.9	1.0			G3/500
BL (0°-30°)	1512.5	5.5	B3/2500		
BM (30°-60°)	3152.7	11.5	B3/5000		
BH (60°-80°)	1781.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	194.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9
2.5°	3709.1	3707.5	3712.0	3707.5	3710.6	3699.9	3695.3	3698.3	3693.8	3686.2	3672.4
5°	3754.7	3753.2	3754.7	3748.7	3751.7	3745.6	3734.9	3738.0	3730.4	3713.6	3693.8
7.5°	3832.5	3826.4	3826.4	3824.9	3818.8	3809.6	3802.0	3799.0	3791.3	3770.0	3739.5
10°	3933.0	3933.0	3934.6	3922.4	3930.0	3913.2	3905.6	3904.1	3878.2	3850.7	3808.1
12.5°	4065.6	4073.2	4068.6	4062.6	4059.5	4053.4	4027.5	4033.6	4004.7	3957.4	3905.6
15°	4230.2	4242.4	4234.8	4231.7	4224.1	4201.3	4190.5	4186.0	4147.9	4079.4	4010.8
17.5°	4448.1	4432.9	4426.8	4419.2	4387.1	4370.4	4352.1	4349.0	4315.5	4234.8	4128.1
20°	4638.6	4659.9	4647.7	4640.1	4608.1	4576.1	4562.4	4557.8	4528.9	4440.5	4269.8
22.5°	4865.6	4870.2	4874.8	4856.5	4841.2	4816.9	4792.5	4784.8	4774.2	4682.7	4474.0
25°	5107.9	5126.2	5111.0	5092.7	5074.4	5072.9	5095.8	5092.7	5088.1	4999.7	4745.2
27.5°	5502.6	5519.4	5523.9	5504.1	5434.0	5440.1	5492.0	5508.7	5578.8	5432.5	5094.2
30°	5725.1	5741.8	5779.9	5854.6	5965.8	6063.4	6188.4	6226.4	6293.4	6017.7	5508.7
32.5°	5862.2	5868.4	5936.9	6075.5	6409.2	6773.5	7113.3	7127.0	7169.7	6782.7	5888.2
35°	6078.6	6083.2	6138.0	6290.4	6682.0	7288.6	7814.3	7831.0	7796.0	7020.4	6064.9
37.5°	6345.3	6357.5	6392.5	6519.0	6986.8	7719.8	8105.3	8093.2	7782.2	7209.3	6377.3
40°	6733.9	6733.9	6692.7	6863.4	7308.4	7966.6	8207.4	8186.1	8103.8	7756.3	6852.7
42.5°	7076.8	7070.6	7168.1	7283.9	7710.7	8347.6	8635.6	8670.6	8806.3	8443.6	7393.7
45°	7523.2	7550.6	7605.5	7815.8	8394.9	8998.3	9370.1	9403.6	9595.7	9252.8	8026.1
47.5°	7974.3	7983.4	8155.6	8436.0	9242.1	9880.6	10185.3	10240.2	10415.5	10199.0	8707.3
50°	8294.2	8381.2	8656.9	9098.9	10115.3	10956.4	11194.2	11259.7	11569.0	11229.2	9501.2
52.5°	8632.6	8717.9	9054.7	9728.2	11118.0	12056.6	12349.2	12393.4	12715.0	12271.5	10313.4
55°	8922.1	9001.4	9383.8	10286.0	11916.5	13179.7	13710.0	13658.2	13812.1	13074.5	10939.7
57.5°	8969.3	9033.3	9514.9	10642.5	12516.9	14142.8	14903.2	14933.7	14755.4	13674.9	11456.2
60°	8603.6	8734.7	9287.8	10604.4	12786.5	14813.3	15793.1	15814.4	15308.5	13982.8	11662.0
62.5°	7956.0	7942.3	8611.2	9991.9	12408.7	14965.6	16317.3	16294.5	15524.9	13835.0	11462.3
64°	7061.5	7226.1	7850.8	9239.1	11799.1	14731.0	16372.1	16360.0	15421.3	13527.2	11122.5
65°	6516.0	6506.8	7124.0	8623.4	11192.6	14377.4	16274.7	16257.9	15204.9	13251.3	10858.9
67.5°	4704.1	4725.4	5335.0	6654.6	9098.9	12995.3	15639.2	15576.7	14351.5	12337.0	9856.2
70°	2849.6	2861.8	3340.3	4414.6	6531.2	10505.4	14097.1	14100.1	13045.6	10971.6	8388.7
72.5°	1501.0	1533.0	1725.0	2506.7	3966.6	7370.8	11436.4	11707.7	11200.3	9364.0	6627.2
75°	835.1	839.6	975.2	1235.8	2023.7	4125.1	8596.0	8673.7	8867.2	7536.9	4900.6
77.5°	637.0	646.1	688.8	798.5	1101.8	1912.4	5202.4	5592.5	6249.3	5313.7	2796.2
80°	516.5	525.7	562.3	627.8	733.0	906.7	2416.8	2627.1	3344.8	2358.9	1091.0
82.5°	402.3	396.2	443.4	486.1	533.4	536.4	992.0	1097.1	1362.3	1014.8	472.4
85°	298.6	298.6	336.8	327.6	344.4	313.9	437.3	483.0	545.5	431.3	219.4
87.5°	118.9	131.1	221.0	198.1	153.9	123.4	161.5	170.7	188.9	169.1	91.5
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°	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9	3667.9
2.5°	3674.0	3678.5	3667.9	3660.3	3657.2	3652.6	3648.1	3649.6	3655.7	3661.8	3660.3
5°	3692.2	3693.8	3675.5	3666.4	3660.3	3654.2	3654.2	3658.7	3670.9	3680.1	3680.1
7.5°	3738.0	3738.0	3712.0	3695.3	3686.2	3675.5	3672.4	3674.0	3683.2	3695.3	3696.9
10°	3809.6	3803.5	3770.0	3744.1	3727.3	3701.4	3678.5	3666.4	3670.9	3678.5	3678.5
12.5°	3896.4	3879.7	3837.0	3802.0	3760.8	3712.0	3664.8	3640.5	3638.9	3646.6	3643.5
15°	3989.4	3971.1	3911.7	3847.7	3776.1	3704.5	3648.1	3613.0	3585.6	3578.0	3594.8
17.5°	4097.6	4059.5	3977.2	3888.8	3782.2	3689.3	3600.9	3529.2	3480.4	3466.7	3471.4
20°	4228.7	4178.4	4067.1	3928.5	3777.6	3634.4	3497.2	3401.2	3322.0	3297.6	3300.7
22.5°	4410.0	4323.2	4160.1	3948.3	3739.5	3530.8	3340.3	3215.3	3119.3	3081.2	3104.0
25°	4615.7	4521.3	4248.5	3943.7	3640.5	3364.6	3154.3	2991.3	2904.5	2848.1	2860.2
27.5°	4899.2	4731.5	4343.0	3902.6	3498.8	3162.0	2918.2	2764.2	2685.0	2656.1	2669.8
30°	5261.8	5004.3	4445.0	3791.3	3274.7	2905.9	2680.4	2579.8	2532.6	2496.0	2508.3
32.5°	5523.9	5196.3	4467.9	3603.9	3032.5	2672.8	2518.9	2444.2	2392.5	2357.4	2365.0
35°	5711.4	5359.3	4457.2	3373.8	2779.5	2480.8	2390.9	2330.0	2246.1	2169.9	2156.2
37.5°	5962.8	5563.5	4379.6	3122.4	2529.6	2351.3	2287.3	2174.5	2054.1	1952.0	1947.5
40°	6348.3	5802.8	4213.4	2826.7	2316.3	2255.3	2177.6	2031.3	1901.8	1819.5	1813.3
42.5°	6746.0	6023.8	3987.9	2515.9	2141.0	2154.7	2060.2	1915.5	1836.2	1782.9	1776.8
45°	7232.2	6263.0	3744.1	2246.1	2011.4	2060.2	1958.1	1874.3	1827.1	1792.1	1782.9
47.5°	7757.9	6508.3	3469.8	2003.9	1901.8	1973.4	1915.5	1877.4	1851.5	1827.1	1816.4
50°	8324.8	6782.7	3212.3	1808.8	1802.7	1883.5	1910.9	1897.2	1881.9	1874.3	1865.2
52.5°	8946.5	7063.0	2995.8	1671.6	1715.9	1819.5	1912.4	1923.1	1923.1	1918.5	1912.4
55°	9367.0	7258.1	2776.4	1560.4	1627.5	1767.6	1909.3	1950.5	1965.7	1959.7	1953.6
57.5°	9678.0	7364.7	2500.6	1464.4	1552.8	1717.4	1892.6	1953.6	1968.8	1976.4	1973.4
60°	9741.9	7265.7	2139.5	1363.8	1472.0	1644.2	1831.7	1907.9	1927.7	1974.9	1979.5
62.5°	9453.9	6960.9	1779.8	1264.8	1373.0	1533.0	1749.4	1856.0	1895.6	1968.8	1976.4
64°	9100.4	6619.6	1580.3	1202.3	1309.0	1470.5	1708.2	1842.3	1894.2	1991.6	1997.7
65°	8841.3	6371.2	1455.3	1162.7	1267.8	1429.4	1685.4	1846.9	1907.9	2026.7	2035.9
67.5°	7887.4	5516.3	1203.9	1069.7	1170.4	1359.3	1689.9	1885.0	1904.8	2040.4	2038.9
70°	6526.6	4391.7	1008.8	984.4	1075.8	1302.9	1671.6	1824.1	1825.6	1915.5	1894.2
72.5°	4886.9	3245.8	874.7	896.0	970.7	1168.8	1578.7	1741.8	1715.9	1728.0	1706.7
75°	3357.0	2147.1	752.8	801.6	861.0	1033.2	1447.7	1581.7	1540.6	1525.4	1510.1
77.5°	1792.1	1187.1	626.3	708.6	748.2	892.9	1263.3	1392.8	1350.1	1290.7	1270.9
80°	725.4	559.2	504.4	586.7	609.6	719.3	1051.4	1132.2	1100.2	996.6	963.1
82.5°	364.2	335.3	396.2	461.7	463.2	513.6	781.7	857.9	786.3	659.8	630.9
85°	190.5	196.6	272.8	324.6	286.5	277.3	469.3	519.6	476.9	414.5	373.3
87.5°	68.6	79.2	143.2	141.7	100.5	53.3	103.6	50.3	27.4	16.8	21.3
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)