

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: P459115

Luminaire Tested: **GALN-SA6A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459115
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-SA6A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25051 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

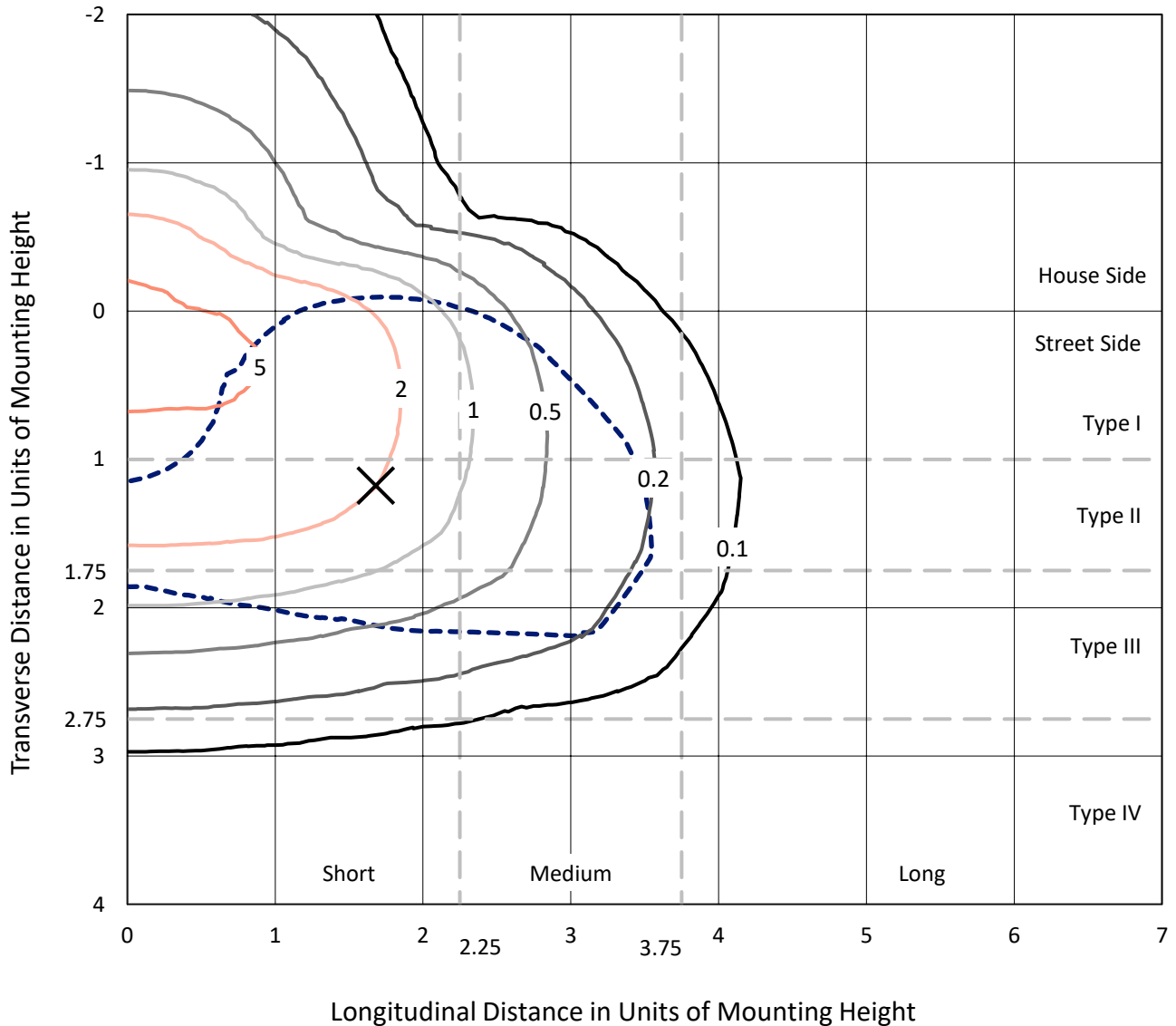
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

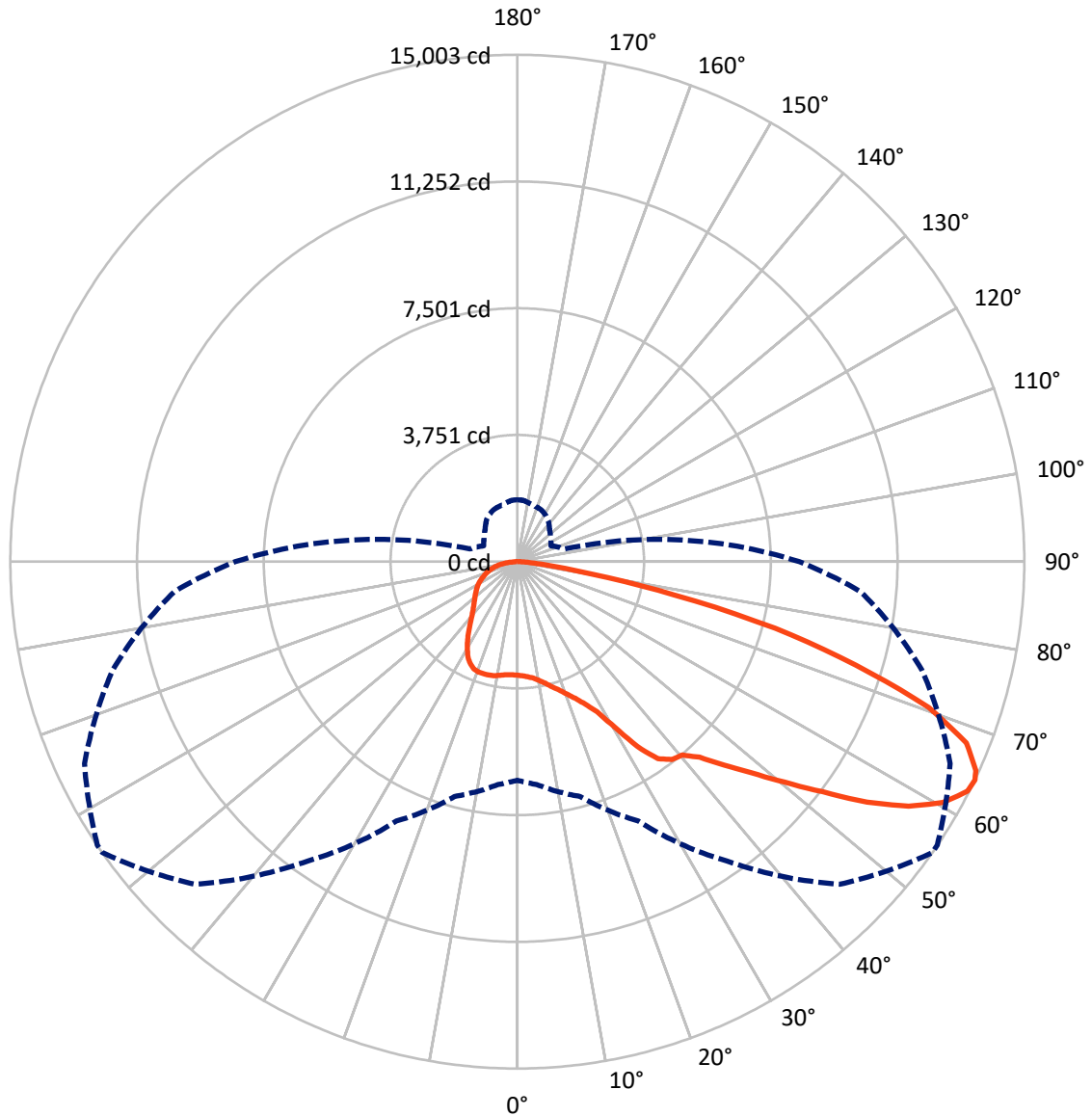
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type 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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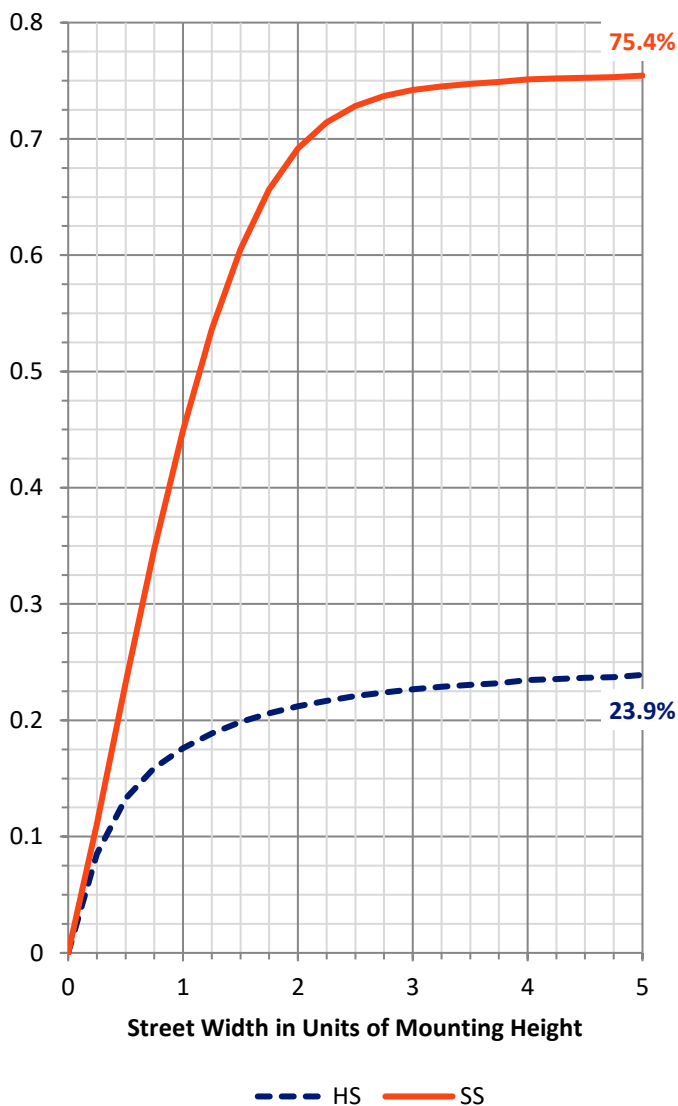
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6085.4	0.0	6085.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	18965.6	0.0	18965.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	25051.0	0.0	25051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.3
10°-20°	1031.6	4.1
20°-30°	1836.5	7.3
30°-40°	2825.7	11.3
40°-50°	4005.7	16.0
50°-60°	5798.1	23.1
60°-70°	6000.4	24.0
70°-80°	2810.0	11.2
80°-90°	416.0	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°	25051.0	100.0
0°-180°	25051.0	100.0

Coefficient of Utilization



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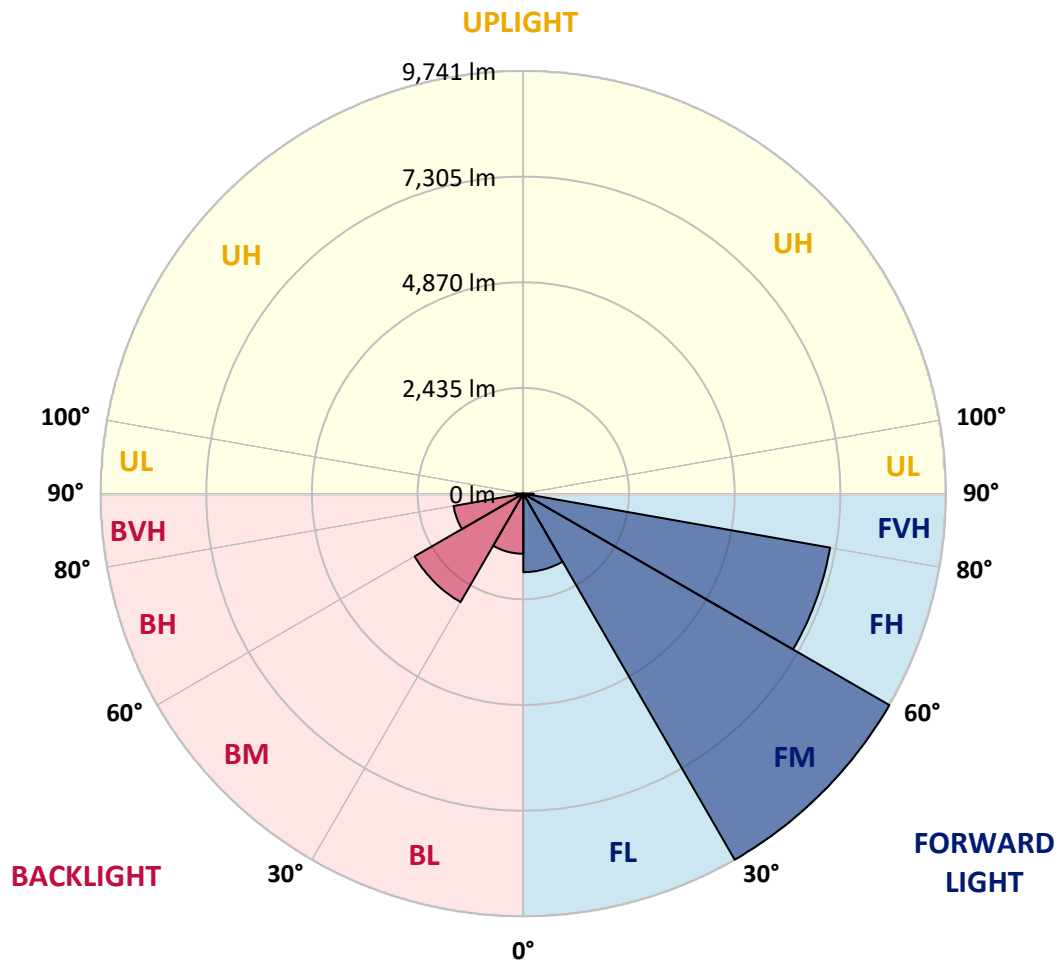
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.1	7.2			
FM (30°-60°)	9740.5	38.9			
FH (60°-80°)	7177.8	28.7			G3/7500
FVH (80°-90°)	238.2	1.0			G3/500
BL (0°-30°)	1386.0	5.5	B3/2500		
BM (30°-60°)	2889.0	11.5	B3/5000		
BH (60°-80°)	1632.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	177.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1
2.5°	3398.8	3397.4	3401.6	3397.4	3400.2	3390.4	3386.2	3389.0	3384.8	3377.8	3365.3
5°	3440.7	3439.3	3440.7	3435.1	3437.9	3432.3	3422.5	3425.3	3418.3	3403.0	3384.8
7.5°	3511.9	3506.3	3506.3	3504.9	3499.3	3491.0	3484.0	3481.2	3474.2	3454.6	3426.7
10°	3604.1	3604.1	3605.5	3594.3	3601.3	3585.9	3578.9	3577.5	3553.8	3528.7	3489.6
12.5°	3725.5	3732.5	3728.3	3722.8	3720.0	3714.4	3690.6	3696.2	3669.7	3626.4	3578.9
15°	3876.4	3887.5	3880.5	3877.7	3870.8	3849.8	3840.0	3835.9	3800.9	3738.1	3675.3
17.5°	4076.0	4062.1	4056.5	4049.5	4020.2	4004.8	3988.1	3985.3	3954.5	3880.5	3782.8
20°	4250.6	4270.1	4259.0	4252.0	4222.7	4193.3	4180.8	4176.6	4150.0	4069.1	3912.7
22.5°	4458.6	4462.8	4467.0	4450.3	4436.3	4414.0	4391.6	4384.6	4374.9	4291.1	4099.8
25°	4680.7	4697.4	4683.5	4666.7	4649.9	4648.6	4669.5	4666.7	4662.5	4581.5	4348.3
27.5°	5042.3	5057.7	5061.9	5043.7	4979.5	4985.1	5032.6	5047.9	5112.1	4978.1	4668.1
30°	5246.2	5261.6	5296.5	5364.9	5466.8	5556.2	5670.7	5705.6	5767.1	5514.3	5047.9
32.5°	5371.9	5377.5	5440.3	5567.4	5873.2	6206.9	6518.3	6530.9	6570.0	6215.3	5395.6
35°	5570.2	5574.4	5624.6	5764.3	6123.1	6678.9	7160.6	7176.0	7143.9	6433.1	5557.6
37.5°	5814.5	5825.7	5857.8	5973.7	6402.4	7074.1	7427.3	7416.2	7131.3	6606.3	5843.9
40°	6170.6	6170.6	6132.9	6289.3	6697.0	7300.3	7520.9	7501.4	7426.0	7107.6	6279.5
42.5°	6484.8	6479.2	6568.6	6674.7	7065.7	7649.4	7913.3	7945.4	8069.7	7737.3	6775.2
45°	6893.9	6919.1	6969.3	7162.0	7692.7	8245.6	8586.3	8617.1	8793.0	8478.8	7354.7
47.5°	7307.3	7315.6	7473.4	7730.4	8469.0	9054.1	9333.4	9383.7	9544.3	9346.0	7978.9
50°	7600.5	7680.1	7932.8	8337.8	9269.2	10040.0	10257.8	10317.9	10601.3	10289.9	8706.4
52.5°	7910.5	7988.7	8297.3	8914.5	10188.0	11048.2	11316.3	11356.8	11651.4	11245.1	9450.7
55°	8175.8	8248.4	8598.9	9425.6	10919.7	12077.3	12563.2	12515.8	12656.8	11980.9	10024.6
57.5°	8219.1	8277.7	8719.0	9752.3	11469.9	12959.8	13656.6	13684.5	13521.2	12531.1	10498.0
60°	7884.0	8004.1	8510.9	9717.4	11717.0	13574.2	14472.1	14491.6	14028.0	12813.2	10686.5
62.5°	7290.5	7277.9	7890.9	9156.1	11370.7	13713.9	14952.4	14931.5	14226.3	12677.7	10503.6
64°	6470.8	6621.6	7194.2	8466.3	10812.2	13498.8	15002.7	14991.5	14131.4	12395.7	10192.2
65°	5970.9	5962.5	6528.1	7902.1	10256.4	13174.9	14913.3	14898.0	13933.1	12142.9	9950.6
67.5°	4310.6	4330.2	4888.7	6098.0	8337.8	11908.3	14331.1	14273.8	13151.1	11305.1	9031.8
70°	2611.2	2622.4	3060.9	4045.3	5984.9	9626.6	12917.9	12920.7	11954.4	10053.9	7687.1
72.5°	1375.4	1404.8	1580.7	2297.0	3634.8	6754.3	10479.8	10728.4	10263.4	8580.8	6072.9
75°	765.2	769.4	893.7	1132.5	1854.4	3780.0	7877.0	7948.2	8125.5	6906.5	4490.8
77.5°	583.7	592.1	631.2	731.7	1009.6	1752.5	4767.2	5124.7	5726.6	4869.2	2562.4
80°	473.4	481.8	515.3	575.3	671.7	830.8	2214.7	2407.4	3065.1	2161.6	999.8
82.5°	368.6	363.1	406.3	445.4	488.7	491.5	909.0	1005.4	1248.4	930.0	432.9
85°	273.7	273.7	308.6	300.2	315.6	287.7	400.8	442.7	499.9	395.2	201.1
87.5°	108.9	120.1	202.5	181.5	141.0	113.1	148.0	156.4	173.2	155.0	83.8
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°	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1
2.5°	3366.7	3370.9	3361.1	3354.1	3351.3	3347.1	3342.9	3344.3	3349.9	3355.5	3354.1
5°	3383.4	3384.8	3368.1	3359.7	3354.1	3348.5	3348.5	3352.7	3363.9	3372.3	3372.3
7.5°	3425.3	3425.3	3401.6	3386.2	3377.8	3368.1	3365.3	3366.7	3375.1	3386.2	3387.6
10°	3491.0	3485.4	3454.6	3430.9	3415.5	3391.8	3370.9	3359.7	3363.9	3370.9	3370.9
12.5°	3570.5	3555.2	3516.1	3484.0	3446.3	3401.6	3358.3	3336.0	3334.6	3341.5	3338.7
15°	3655.7	3639.0	3584.5	3525.9	3460.2	3394.6	3342.9	3310.8	3285.7	3278.7	3294.1
17.5°	3754.9	3720.0	3644.6	3563.6	3465.8	3380.6	3299.6	3234.0	3189.3	3176.8	3181.0
20°	3875.0	3828.9	3726.9	3599.9	3461.6	3330.4	3204.7	3116.7	3044.1	3021.8	3024.6
22.5°	4041.1	3961.5	3812.1	3618.0	3426.7	3235.4	3060.9	2946.4	2858.4	2823.5	2844.4
25°	4229.6	4143.1	3893.1	3613.8	3336.0	3083.2	2890.5	2741.1	2661.5	2609.8	2621.0
27.5°	4489.4	4335.8	3979.7	3576.1	3206.1	2897.5	2674.1	2533.0	2460.4	2433.9	2446.5
30°	4821.7	4585.7	4073.2	3474.2	3000.8	2662.9	2456.2	2364.1	2320.8	2287.3	2298.4
32.5°	5061.9	4761.7	4094.2	3302.4	2778.8	2449.3	2308.2	2239.8	2192.3	2160.2	2167.2
35°	5233.6	4911.1	4084.4	3091.6	2547.0	2273.3	2190.9	2135.1	2058.3	1988.4	1975.9
37.5°	5464.0	5098.2	4013.2	2861.2	2318.0	2154.6	2096.0	1992.6	1882.3	1788.8	1784.6
40°	5817.3	5317.4	3861.0	2590.3	2122.5	2066.6	1995.4	1861.4	1742.7	1667.3	1661.7
42.5°	6181.8	5519.9	3654.3	2305.4	1961.9	1974.5	1887.9	1755.3	1682.6	1633.8	1628.2
45°	6627.2	5739.1	3430.9	2058.3	1843.2	1887.9	1794.3	1717.5	1674.3	1642.1	1633.8
47.5°	7109.0	5963.9	3179.6	1836.2	1742.7	1808.3	1755.3	1720.3	1696.6	1674.3	1664.5
50°	7628.4	6215.3	2943.6	1657.5	1651.9	1725.9	1751.1	1738.5	1724.5	1717.5	1709.2
52.5°	8198.2	6472.2	2745.3	1531.8	1572.3	1667.3	1752.5	1762.2	1762.2	1758.0	1752.5
55°	8583.6	6651.0	2544.2	1429.9	1491.3	1619.8	1749.7	1787.4	1801.3	1795.7	1790.2
57.5°	8868.4	6748.7	2291.5	1341.9	1422.9	1573.7	1734.3	1790.2	1804.1	1811.1	1808.3
60°	8927.1	6657.9	1960.5	1249.8	1348.9	1506.7	1678.4	1748.3	1766.4	1809.7	1813.9
62.5°	8663.1	6378.7	1631.0	1159.0	1258.1	1404.8	1603.0	1700.8	1737.1	1804.1	1811.1
64°	8339.2	6065.9	1448.0	1101.7	1199.5	1347.5	1565.3	1688.2	1735.7	1825.1	1830.7
65°	8101.8	5838.3	1333.5	1065.4	1161.8	1309.8	1544.4	1692.4	1748.3	1857.2	1865.6
67.5°	7227.7	5054.9	1103.1	980.3	1072.4	1245.6	1548.6	1727.3	1745.5	1869.8	1868.4
70°	5980.7	4024.4	924.4	902.1	985.8	1193.9	1531.8	1671.5	1672.9	1755.3	1735.7
72.5°	4478.2	2974.3	801.5	821.1	889.5	1071.0	1446.7	1596.1	1572.3	1583.5	1563.9
75°	3076.2	1967.5	689.8	734.5	789.0	946.7	1326.6	1449.4	1411.7	1397.8	1383.8
77.5°	1642.1	1087.8	573.9	649.3	685.6	818.3	1157.6	1276.3	1237.2	1182.7	1164.6
80°	664.7	512.5	462.2	537.6	558.6	659.1	963.5	1037.5	1008.2	913.2	882.5
82.5°	333.7	307.2	363.1	423.1	424.5	470.6	716.3	786.2	720.5	604.6	578.1
85°	174.5	180.1	250.0	297.4	262.5	254.1	430.1	476.2	437.1	379.8	342.1
87.5°	62.8	72.6	131.3	129.9	92.2	48.9	95.0	46.1	25.1	15.4	19.5
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)