

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: P647077

Luminaire Tested: **GALN-SA7C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647077
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-SA7C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 32690.3 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

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

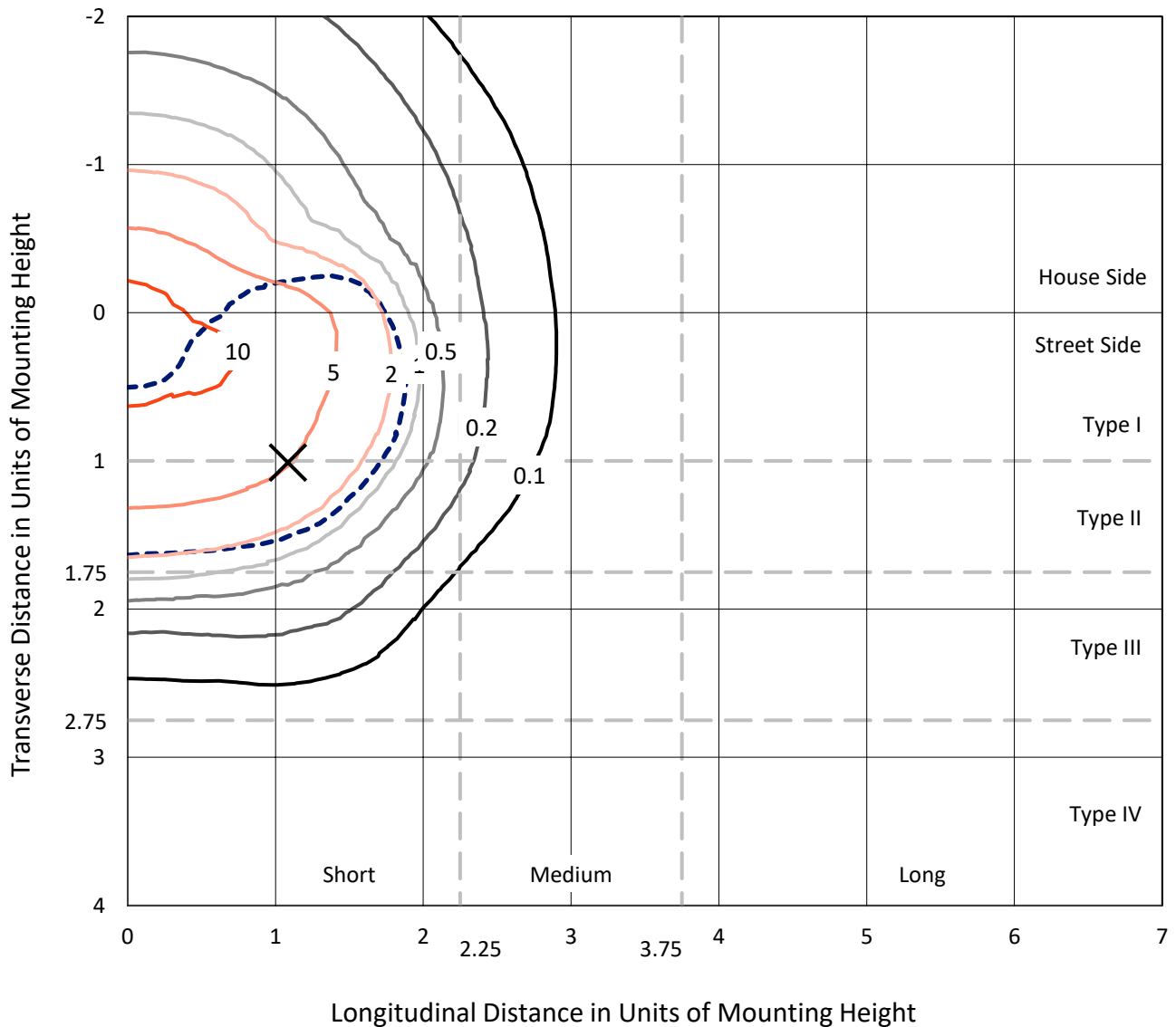




REPORT NUMBER: P647077
 CATALOG NUMBER: GALN-SA7C-835-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

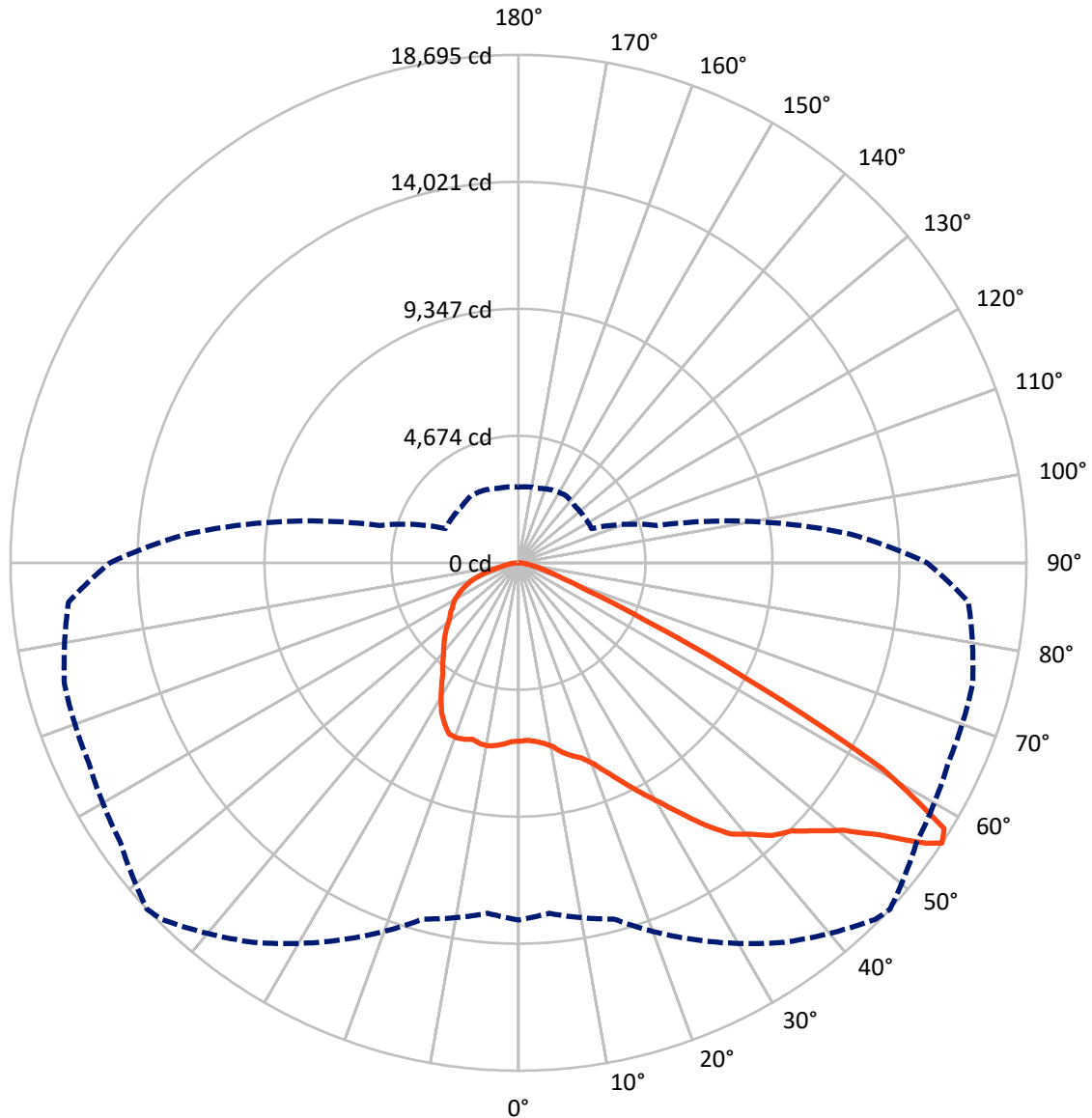
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P647077
CATALOG NUMBER: GALN-SA7C-835-U-T3-GRSWH

Luminous Intensity Polar Plot



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

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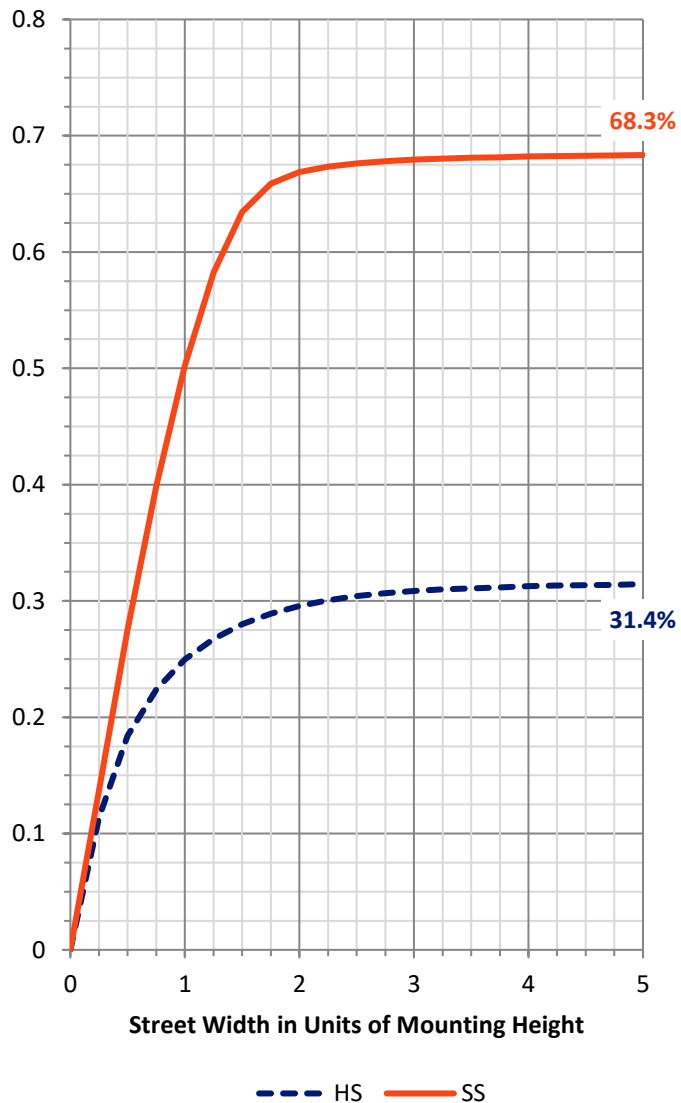
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10359.2	0.0	10359.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22331.1	0.0	22331.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	32690.3	0.0	32690.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.8	2.0
10°-20°	2018.3	6.2
20°-30°	3567.9	10.9
30°-40°	5358.8	16.4
40°-50°	7354.4	22.5
50°-60°	8761.8	26.8
60°-70°	3749.5	11.5
70°-80°	1061.1	3.2
80°-90°	178.6	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°	32690.3	100.0
0°-180°	32690.3	100.0

Coefficient of Utilization

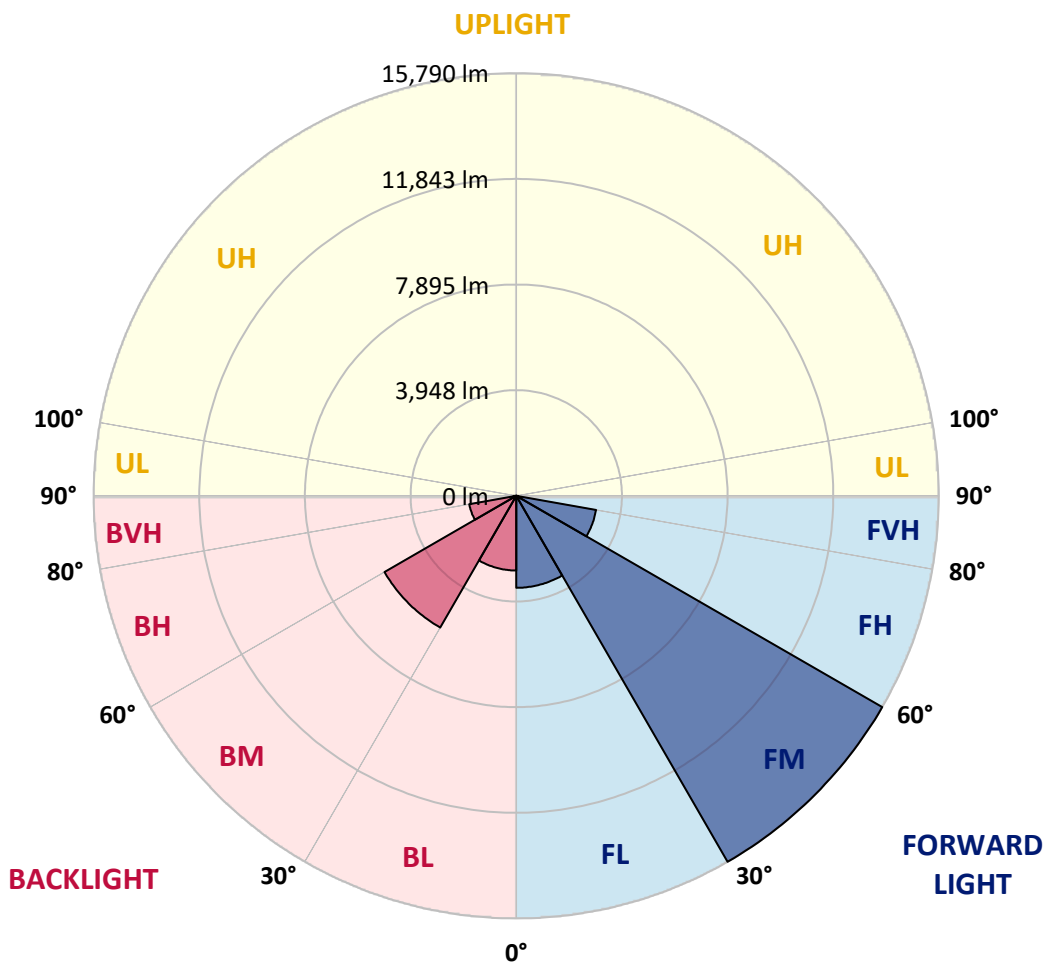


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.9	10.5			
FM (30°-60°)	15790.1	48.3			
FH (60°-80°)	3028.3	9.3			G2/5000
FVH (80°-90°)	75.8	0.2			G1/100
BL (0°-30°)	2789.1	8.5	B4/5000		
BM (30°-60°)	5684.9	17.4	B4/8500		
BH (60°-80°)	1782.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	102.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5
2.5°	6541.5	6529.0	6520.6	6587.3	6562.3	6566.5	6541.5	6566.5	6583.2	6545.6	6599.8
5°	6529.0	6566.5	6533.1	6553.9	6608.2	6591.5	6608.2	6658.2	6645.7	6633.2	6616.5
7.5°	6645.7	6649.9	6674.8	6683.2	6699.9	6683.2	6708.2	6754.1	6741.6	6670.7	6679.1
10°	6812.5	6820.8	6824.9	6870.8	6900.0	6904.2	6875.0	6833.3	6829.2	6925.0	6858.3
12.5°	7004.2	6983.4	7033.5	7050.1	7083.5	7121.0	7158.5	7071.0	7125.1	7129.3	7050.1
15°	7283.5	7304.5	7246.0	7246.0	7258.6	7262.7	7366.9	7325.3	7316.9	7271.1	7304.5
17.5°	7700.5	7558.8	7554.5	7496.2	7487.9	7521.2	7558.8	7592.1	7704.6	7613.0	7433.6
20°	8004.8	8038.2	7917.3	7846.4	7858.9	7934.0	7896.5	8046.6	8125.7	7975.6	7800.6
22.5°	8542.7	8430.1	8459.3	8300.9	8313.3	8392.6	8388.4	8542.7	8588.6	8350.9	8096.5
25°	8905.4	8876.2	8901.2	8776.2	8792.9	8855.3	8955.4	9209.7	9134.7	8872.0	8284.2
27.5°	9434.9	9376.5	9355.7	9309.8	9293.1	9459.9	9576.6	9847.6	9793.5	9409.9	8617.7
30°	9976.9	9939.3	9960.2	9772.6	9839.3	10193.6	10227.0	10598.1	10573.1	9897.7	8988.8
32.5°	10352.1	10372.9	10410.5	10306.2	10602.3	10885.7	10998.3	11419.4	11440.3	10735.6	9705.9
35°	10956.7	10885.7	10906.6	11027.5	11165.1	11682.0	11865.5	12144.9	12320.0	11615.3	10393.8
37.5°	11336.0	11411.1	11323.5	11515.3	11873.9	12495.0	12661.8	12949.5	13132.9	12482.6	11331.9
40°	11928.1	11807.2	11869.7	12007.3	12374.1	13183.0	13137.1	13433.1	13491.5	13220.5	12207.4
42.5°	12566.0	12507.6	12420.0	12732.7	13041.3	13629.1	13720.8	13583.2	13879.2	13941.8	13458.1
45°	13328.9	13399.8	13412.3	13420.6	13691.6	14204.4	14079.4	13958.5	14300.3	14754.8	14233.6
47.5°	14037.7	13812.5	13975.1	14200.3	14583.8	14588.0	14733.9	14446.3	14809.0	15213.4	14934.1
50°	14275.3	14166.9	14383.7	14809.0	15401.0	15463.5	15480.2	15071.7	15259.3	15580.3	15175.9
52.5°	14183.6	14146.1	14700.6	15359.3	16226.5	16543.4	16626.8	16122.3	16226.5	16080.5	15709.5
55°	13745.8	13858.4	14417.1	15759.5	17089.5	18069.3	18227.7	17589.9	16926.9	17039.5	16630.9
56°	13145.5	12949.5	13574.9	15305.1	17052.0	18565.4	18694.7	17898.4	17448.1	17302.2	16622.5
57.5°	11152.6	10898.3	11719.6	13770.9	16105.6	18377.8	18473.7	18027.6	17360.5	17064.5	15409.4
60°	6529.0	6654.0	7696.3	9497.4	12424.2	15067.4	15388.5	15713.7	15267.6	13941.8	11469.5
62.5°	3151.9	3072.7	3819.0	5445.0	7571.2	9618.3	9522.5	10435.5	10935.8	9906.0	7241.9
65°	1651.0	1642.7	2084.6	2972.7	4160.9	5053.1	5140.6	5632.6	6320.5	5103.1	3677.2
67.5°	1213.3	1246.6	1467.6	2088.7	2676.6	2730.8	2718.3	2964.3	3031.0	2564.1	2259.7
70°	950.6	967.2	1129.9	1588.5	1992.9	1784.4	1746.9	1776.1	1972.1	2055.4	1955.4
72.5°	687.9	704.6	842.2	1071.5	1246.6	1217.4	1242.4	1405.0	1646.8	1734.3	1630.1
75°	458.6	471.1	546.1	654.6	738.0	796.3	842.2	1029.8	1254.9	1304.9	1254.9
77.5°	316.9	329.3	379.4	462.8	471.1	508.6	525.3	612.9	750.4	813.0	779.6
80°	179.3	179.3	204.3	237.6	291.8	341.9	350.2	421.1	483.7	525.3	533.7
82.5°	83.4	87.5	108.4	146.0	191.8	237.6	246.0	291.8	337.7	379.4	391.9
85°	41.7	45.9	62.6	87.5	116.7	141.7	137.6	141.7	150.1	141.7	146.0
87.5°	12.5	12.5	16.7	20.8	16.7	20.8	20.8	25.0	29.2	33.4	37.5
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°	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5	6566.5
2.5°	6604.0	6616.5	6533.1	6612.4	6583.2	6579.0	6637.3	6629.0	6649.9	6641.6	6591.5
5°	6608.2	6579.0	6666.5	6587.3	6624.9	6704.0	6649.9	6774.9	6712.4	6754.1	6662.4
7.5°	6737.4	6745.8	6729.1	6762.5	6745.8	6783.3	6754.1	6783.3	6733.3	6737.4	6820.8
10°	6850.0	6824.9	6854.1	6812.5	6841.6	6829.2	6762.5	6741.6	6758.2	6737.4	6791.6
12.5°	7058.4	7012.5	6991.7	6941.7	6908.3	6783.3	6679.1	6620.7	6699.9	6712.4	6687.4
15°	7271.1	7275.2	7179.3	7066.8	6858.3	6670.7	6695.7	6716.6	6716.6	6749.9	6687.4
17.5°	7404.5	7404.5	7316.9	7091.8	6879.2	6770.8	6745.8	6679.1	6620.7	6612.4	6608.2
20°	7637.9	7567.1	7366.9	7087.6	6870.8	6820.8	6633.2	6474.8	6353.8	6312.2	6308.0
22.5°	7904.8	7725.5	7446.2	7095.9	6858.3	6787.4	6437.2	6199.6	5982.8	5891.1	5903.6
25°	8150.8	7863.1	7492.1	7058.4	6812.5	6470.6	6078.7	5749.3	5524.1	5449.1	5411.6
27.5°	8321.7	8009.0	7492.1	7091.8	6641.6	6116.2	5716.0	5294.9	5098.9	5048.9	5057.2
30°	8551.0	8192.5	7621.3	7020.9	6299.6	5657.6	5178.1	4903.0	4786.2	4744.5	4773.7
32.5°	9088.8	8671.9	7800.6	6850.0	5895.2	5199.0	4811.2	4657.0	4486.0	4402.7	4373.4
35°	9672.6	9126.3	7975.6	6562.3	5440.8	4782.1	4540.2	4398.5	4194.2	4102.5	4119.1
37.5°	10498.0	9710.1	7988.2	6087.0	4948.8	4548.6	4327.6	4106.7	3939.9	3798.1	3756.4
40°	11611.2	10506.4	7959.0	5586.7	4552.8	4273.5	4110.8	3835.7	3648.1	3548.0	3568.8
42.5°	12591.0	11440.3	7838.1	5019.7	4194.2	4085.8	3902.4	3631.4	3447.9	3343.7	3335.3
45°	13416.5	12128.2	7608.8	4536.1	3894.0	3877.3	3664.8	3456.2	3310.4	3214.4	3256.1
47.5°	14179.4	12682.7	7262.7	4052.4	3618.9	3652.2	3447.9	3318.7	3227.0	3139.4	3135.2
50°	14454.6	12674.3	6958.4	3652.2	3397.9	3381.2	3372.9	3235.3	3139.4	3064.3	3097.7
52.5°	14913.2	12816.1	6629.0	3377.1	3197.8	3201.9	3231.1	3131.1	3022.7	2976.8	3018.5
55°	15571.9	12837.0	5903.6	3056.0	3031.0	3060.2	3060.2	2993.5	2901.7	2864.2	2843.4
56°	15034.1	12215.7	5294.9	2972.7	2947.6	2947.6	3026.8	2951.8	2839.2	2810.0	2785.1
57.5°	13866.7	10702.3	4431.9	2872.6	2835.1	2893.4	2935.1	2855.9	2751.7	2710.0	2735.0
60°	9564.1	7241.9	3331.2	2655.8	2655.8	2751.7	2785.1	2668.3	2622.4	2618.3	2584.9
62.5°	5582.6	4219.2	2605.7	2459.8	2468.2	2547.4	2572.4	2505.7	2447.3	2518.2	2551.6
65°	2960.1	2518.2	2234.7	2251.4	2255.5	2318.1	2426.4	2422.3	2418.1	2439.0	2443.1
67.5°	2143.0	2093.0	2030.4	2013.7	2022.0	2067.9	2176.3	2259.7	2255.5	2205.5	2168.0
70°	1909.5	1838.6	1801.1	1805.3	1771.9	1826.1	1913.7	1967.8	1872.0	1813.6	1788.6
72.5°	1588.5	1567.6	1542.6	1546.7	1480.0	1467.6	1367.5	1367.5	1342.5	1325.8	1355.0
75°	1213.3	1204.9	1217.4	1196.6	1125.7	1050.6	992.3	938.0	854.7	821.4	804.7
77.5°	767.1	792.2	821.4	775.5	746.3	692.1	633.7	579.5	512.8	475.3	475.3
80°	521.2	542.0	562.8	554.5	521.2	471.1	425.2	366.9	321.0	291.8	287.7
82.5°	396.0	412.7	441.9	408.6	375.2	333.6	296.0	254.3	212.7	179.3	179.3
85°	141.7	162.6	179.3	196.0	208.4	212.7	183.5	150.1	120.9	95.9	91.7
87.5°	37.5	41.7	45.9	41.7	41.7	41.7	45.9	41.7	37.5	29.2	29.2
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)