

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643677

Luminaire Tested: GWS-SA6F-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48667.4 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

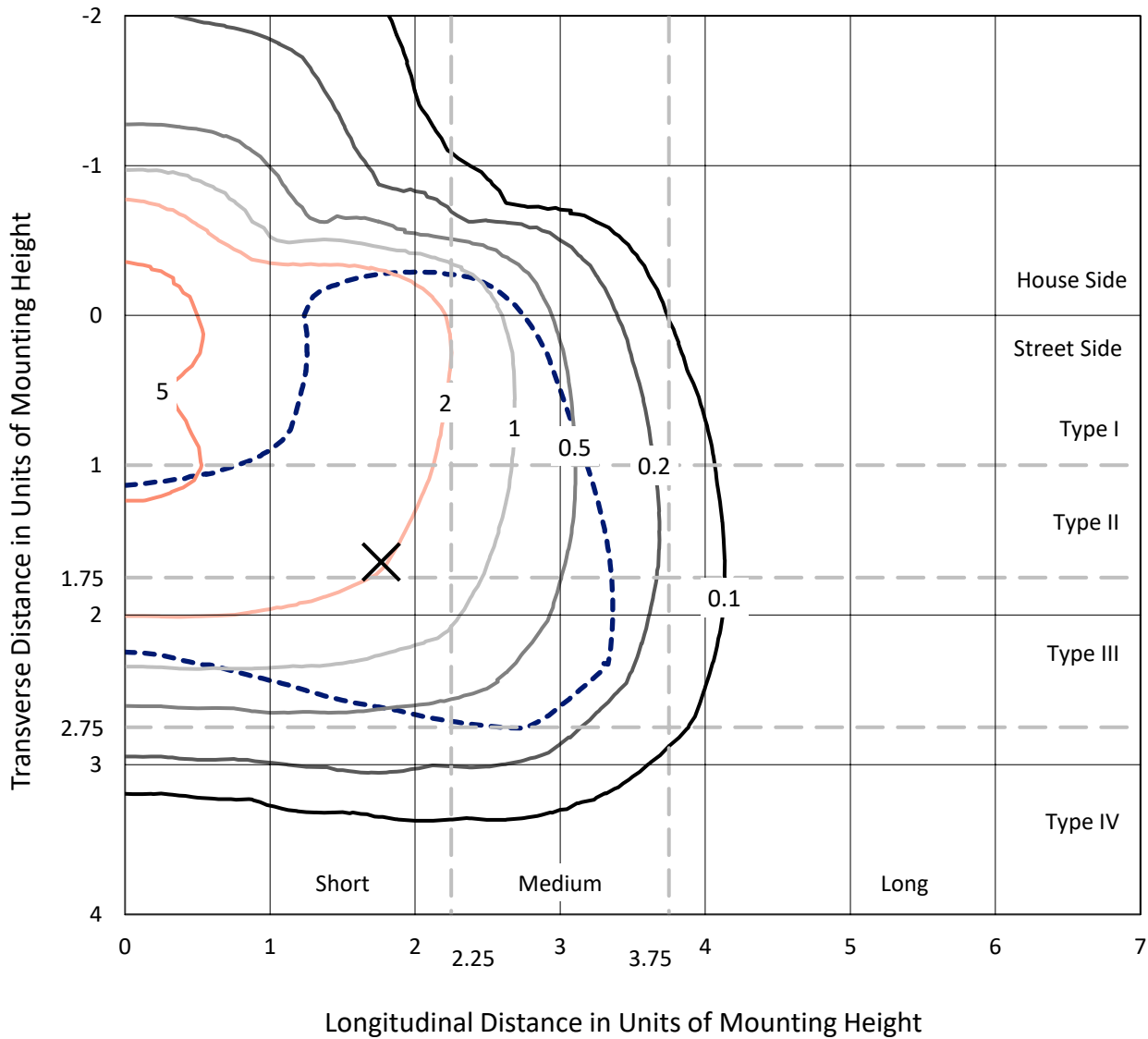
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

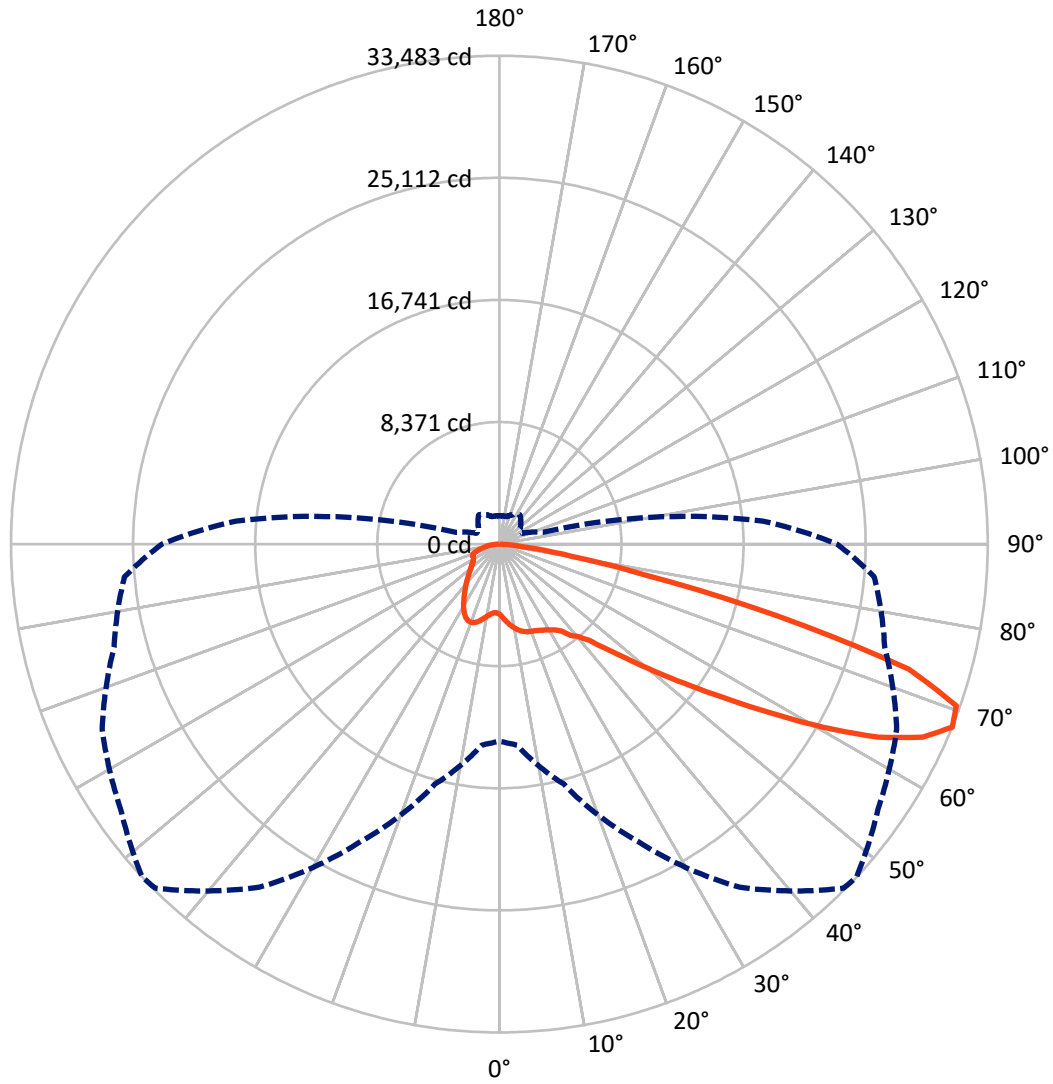
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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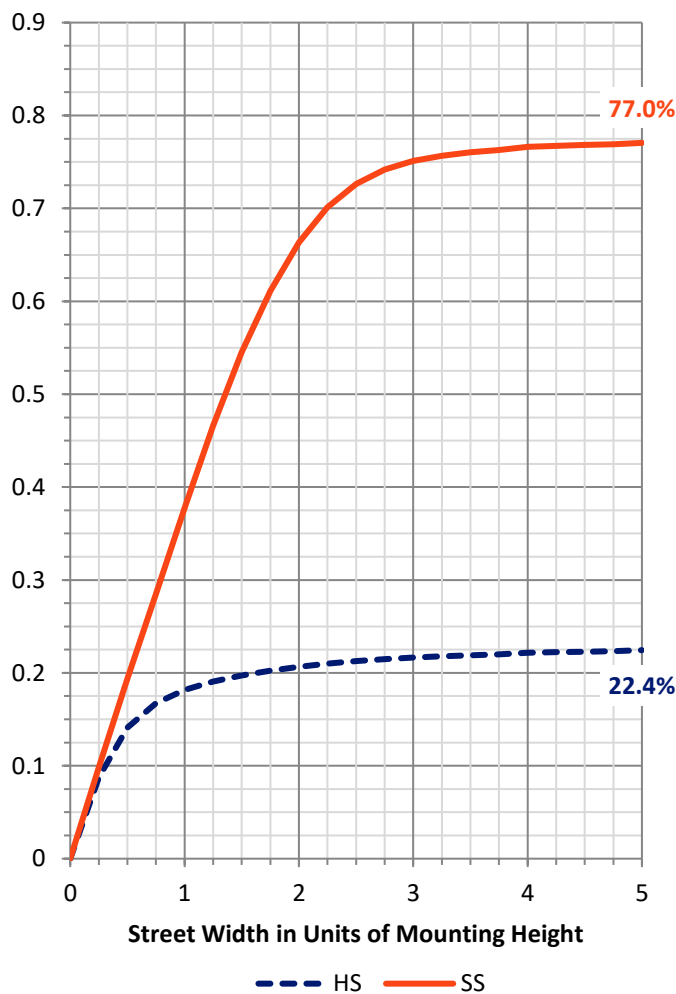
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11091.7	0.0	11091.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	37575.7	0.0	37575.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	48667.4	0.0	48667.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.1	1.0
10°-20°	1642.7	3.4
20°-30°	2792.2	5.7
30°-40°	4090.3	8.4
40°-50°	6232.0	12.8
50°-60°	11150.4	22.9
60°-70°	14879.0	30.6
70°-80°	6728.6	13.8
80°-90°	659.2	1.4
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°	48667.4	100.0
0°-180°	48667.4	100.0

Coefficient of Utilization



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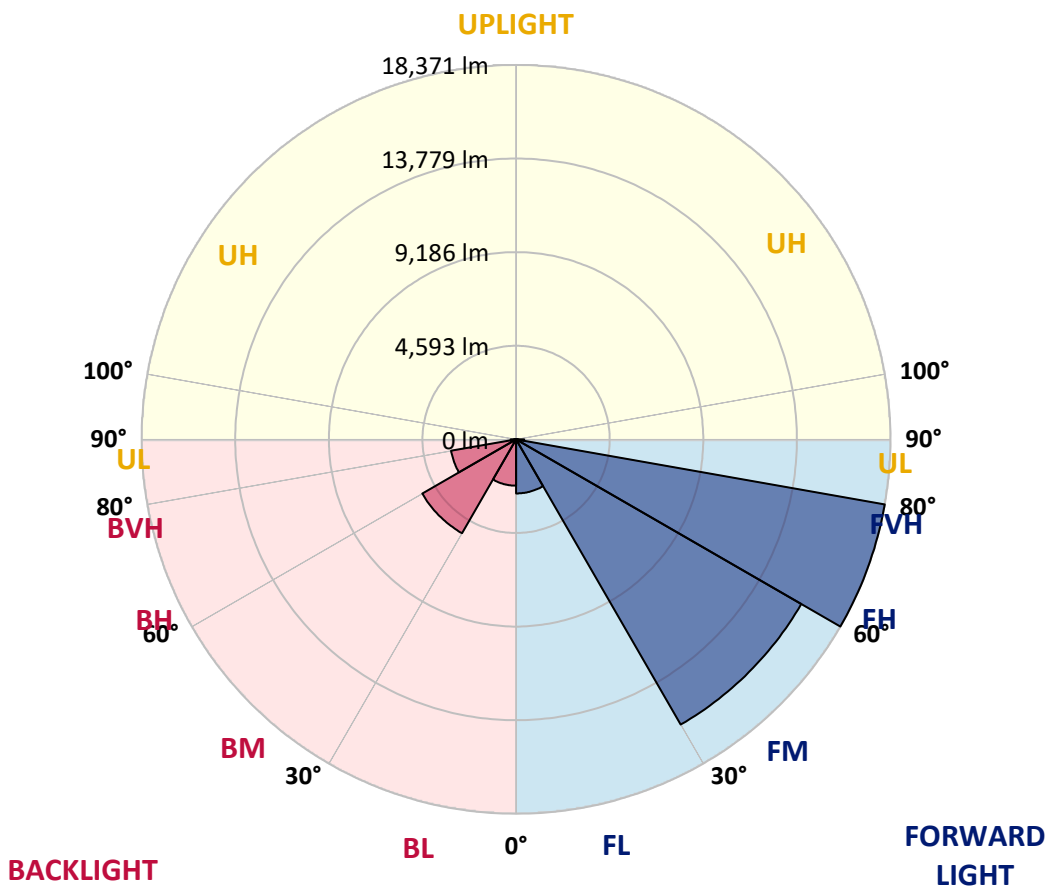
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.1	5.5			
FM (30°-60°)	16158.1	33.2			
FH (60°-80°)	18371.4	37.7			G5
FVH (80°-90°)	392.1	0.8			G3/500
BL (0°-30°)	2273.8	4.7	B3/2500		
BM (30°-60°)	5314.6	10.9	B4/8500		
BH (60°-80°)	3236.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	267.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5
2.5°	5144.7	5162.3	5158.8	5130.6	5113.0	5081.4	5084.9	5035.6	4961.7	4912.5	4856.2
5°	5598.6	5626.8	5591.6	5545.9	5475.5	5373.4	5362.9	5250.3	5109.5	5011.0	4908.9
7.5°	5992.8	6010.4	5968.1	5890.7	5788.7	5651.4	5626.8	5493.1	5317.1	5162.3	5014.5
10°	6298.9	6320.0	6263.7	6161.7	6028.0	5890.7	5873.1	5735.9	5549.4	5366.4	5179.9
12.5°	6559.3	6566.4	6506.5	6369.3	6225.0	6084.3	6066.7	5940.0	5767.6	5581.1	5377.0
15°	6710.6	6714.2	6640.3	6488.9	6351.7	6228.5	6218.0	6108.9	5950.5	5774.6	5556.4
17.5°	6700.1	6707.1	6654.3	6520.6	6401.0	6327.1	6316.5	6246.1	6123.0	5964.6	5746.4
20°	6569.9	6576.9	6541.7	6453.8	6390.4	6369.3	6372.8	6351.7	6277.8	6147.6	5925.9
22.5°	6467.8	6478.4	6446.7	6383.4	6376.3	6425.6	6436.2	6446.7	6411.5	6295.4	6080.7
25°	6517.1	6534.7	6485.4	6397.4	6411.5	6520.6	6541.7	6576.9	6548.8	6450.2	6263.7
27.5°	6858.4	6869.0	6742.3	6562.8	6520.6	6636.7	6668.4	6724.7	6703.6	6612.1	6467.8
30°	7650.2	7643.2	7372.2	6932.3	6756.4	6802.1	6826.8	6907.7	6914.7	6854.9	6717.7
32.5°	8765.7	8730.5	8311.8	7611.5	7101.2	6988.6	7016.8	7125.9	7206.8	7143.5	6957.0
35°	9944.6	9912.9	9451.9	8632.0	7738.2	7347.6	7315.9	7400.4	7523.5	7347.6	7080.1
37.5°	11067.1	11017.8	10546.3	9532.8	8522.9	7977.5	7931.7	7847.3	7773.4	7435.5	7231.4
40°	12312.8	12256.5	11844.8	10697.6	9388.6	8459.6	8343.4	8009.1	7942.3	7727.6	7625.6
42.5°	13643.0	13643.0	13301.6	12172.0	10433.7	9149.3	8998.0	8494.7	8565.1	8424.4	8304.7
45°	14973.1	15011.8	14740.9	13657.0	11830.7	10451.3	10208.5	9494.1	9663.0	9599.7	9539.9
47.5°	16106.2	16180.1	16127.3	15173.7	13540.9	12034.8	11665.3	10922.8	11285.3	11436.6	11605.5
50°	17327.3	17408.2	17355.5	16978.9	15543.2	13952.6	13621.9	12854.7	13477.6	13931.5	14484.0
52.5°	19139.6	19255.7	18815.8	18671.5	17974.8	16130.9	15835.3	14962.6	16092.2	16845.2	18076.8
55°	20670.3	20666.8	20512.0	20842.7	20585.9	18794.7	18467.4	17675.7	19118.5	19917.3	21719.0
57.5°	21381.1	21465.6	21997.0	22933.0	23446.8	22049.7	21736.5	20927.2	22366.4	22781.7	24727.7
60°	21747.1	21852.7	22880.2	24731.2	26114.1	25603.9	25480.7	24449.7	25259.0	25209.8	27264.8
62.5°	21233.3	21444.5	23094.9	25554.6	28017.9	29175.6	29136.9	27578.0	27718.8	27236.7	28837.8
65°	18875.6	19104.4	21694.3	25142.9	29105.2	31892.2	31902.8	30410.8	29608.4	28222.0	28573.9
67.5°	13498.7	13826.0	17028.2	22496.6	28721.7	33359.6	33482.8	31695.2	30051.8	27349.3	25800.9
70°	7358.1	7597.4	10106.4	16352.6	25266.1	33007.7	33236.5	31075.8	28095.3	23657.9	19860.9
72.5°	3343.0	3420.4	4701.3	8973.3	17260.4	28412.0	29369.2	27732.8	23073.8	17475.1	12629.5
75°	1530.7	1565.9	2048.0	4293.1	9019.1	19012.9	19685.0	20656.2	16057.0	11035.4	6584.0
77.5°	960.7	971.2	1164.8	1963.6	4497.2	9490.6	10197.9	12298.7	9402.6	5461.4	2751.8
80°	566.6	577.1	724.9	1062.7	2111.4	4342.4	5014.5	4863.2	4419.8	2357.7	1252.7
82.5°	285.0	295.6	418.8	605.3	1150.7	1727.8	2034.0	2044.5	1646.9	1277.4	707.3
85°	102.0	105.6	137.2	239.3	489.1	570.1	636.9	777.7	805.8	742.5	341.3
87.5°	0.0	0.0	3.5	7.0	14.1	56.3	59.8	112.6	235.8	263.9	137.2
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°	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5
2.5°	4838.6	4785.8	4768.2	4750.6	4722.4	4711.9	4690.8	4669.6	4669.6	4648.5	4638.0
5°	4863.2	4792.8	4747.1	4725.9	4708.4	4718.9	4718.9	4725.9	4750.6	4736.5	4743.5
7.5°	4951.2	4870.2	4806.9	4789.3	4789.3	4831.5	4859.7	4894.9	4940.6	4947.6	4947.6
10°	5106.0	5011.0	4944.1	4933.6	4951.2	5011.0	5053.2	5095.4	5151.7	5155.3	5162.3
12.5°	5274.9	5179.9	5113.0	5127.1	5144.7	5222.1	5267.9	5303.1	5359.4	5359.4	5355.8
15°	5450.9	5345.3	5289.0	5317.1	5369.9	5457.9	5464.9	5468.4	5496.6	5489.6	5486.0
17.5°	5633.8	5521.2	5479.0	5521.2	5577.5	5619.8	5584.6	5535.3	5524.8	5510.7	5503.6
20°	5813.3	5697.2	5679.6	5711.3	5728.8	5693.7	5584.6	5493.1	5450.9	5429.7	5422.7
22.5°	5968.1	5869.6	5859.1	5859.1	5771.1	5647.9	5486.0	5362.9	5306.6	5278.4	5271.4
25°	6151.1	6059.6	6042.0	5947.0	5721.8	5496.6	5278.4	5165.8	5120.1	5106.0	5109.5
27.5°	6365.8	6302.4	6246.1	5975.2	5581.1	5229.2	4982.8	4933.6	4916.0	4933.6	4944.1
30°	6629.7	6566.4	6439.7	5940.0	5355.8	4880.8	4645.0	4641.5	4694.3	4740.0	4747.1
32.5°	6844.4	6816.2	6608.6	5827.4	5039.1	4497.2	4296.6	4310.7	4405.7	4469.1	4479.6
35°	7013.3	7059.0	6749.3	5640.9	4662.6	4134.8	3976.4	3983.5	4036.2	4124.2	4127.7
37.5°	7252.6	7407.4	6876.0	5355.8	4229.8	3821.6	3677.3	3624.5	3617.5	3642.1	3649.2
40°	7734.7	7966.9	6967.5	4940.6	3811.0	3540.1	3378.2	3276.1	3188.2	3121.3	3100.2
42.5°	8463.1	8730.5	7020.3	4437.4	3438.0	3262.1	3079.1	2948.9	2794.0	2653.3	2604.0
45°	9800.3	9888.2	7020.3	3902.5	3107.2	3001.7	2818.7	2663.8	2466.8	2301.4	2266.2
47.5°	11939.8	11658.3	7027.3	3385.2	2815.2	2772.9	2614.6	2438.6	2220.5	2083.2	2062.1
50°	15163.2	14174.3	7171.6	2955.9	2572.4	2579.4	2463.3	2269.7	2072.7	1970.6	1953.0
52.5°	18815.8	17274.5	7558.7	2639.2	2368.3	2421.0	2357.7	2171.2	1995.2	1907.3	1889.7
55°	22250.3	20124.9	7889.5	2414.0	2195.8	2287.3	2283.8	2111.4	1953.0	1865.0	1854.5
57.5°	25171.0	22077.9	7840.2	2231.0	2048.0	2164.2	2216.9	2072.7	1924.9	1851.0	1840.4
60°	26986.8	23112.5	7139.9	2062.1	1935.4	2076.2	2178.2	2062.1	1938.9	1921.3	1924.9
62.5°	27775.1	22922.4	5795.7	1935.4	1861.5	2034.0	2220.5	2136.0	2069.1	2111.4	2136.0
65°	26550.5	21289.6	4265.0	1840.4	1791.1	2044.5	2319.0	2252.1	2069.1	2097.3	2107.9
67.5°	23151.2	18122.6	3082.6	1745.4	1703.2	2076.2	2459.7	2234.5	1949.5	1949.5	1928.4
70°	16683.3	13034.2	2238.1	1650.4	1615.2	2030.4	2466.8	2114.9	1812.3	1801.7	1748.9
72.5°	10039.6	7688.9	1745.4	1544.8	1481.5	1801.7	2311.9	1974.1	1678.5	1590.6	1527.2
75°	5215.1	3853.2	1463.9	1428.7	1270.3	1527.2	2114.9	1756.0	1435.7	1358.3	1323.1
77.5°	2234.5	1801.7	1256.3	1273.9	1055.7	1284.4	1706.7	1520.2	1273.9	1175.3	1143.7
80°	1101.4	1024.0	992.3	1020.5	844.5	992.3	1470.9	1330.2	1080.3	967.7	922.0
82.5°	629.9	598.2	714.3	724.9	601.7	830.5	1242.2	1126.1	893.8	770.6	696.8
85°	292.1	313.2	432.8	436.3	373.0	570.1	812.9	633.4	475.1	394.1	376.5
87.5°	116.1	137.2	190.0	186.5	109.1	105.6	70.4	38.7	31.7	28.2	24.6
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)