

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: P642161

Luminaire Tested: GWS-SA6C-735-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-735-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

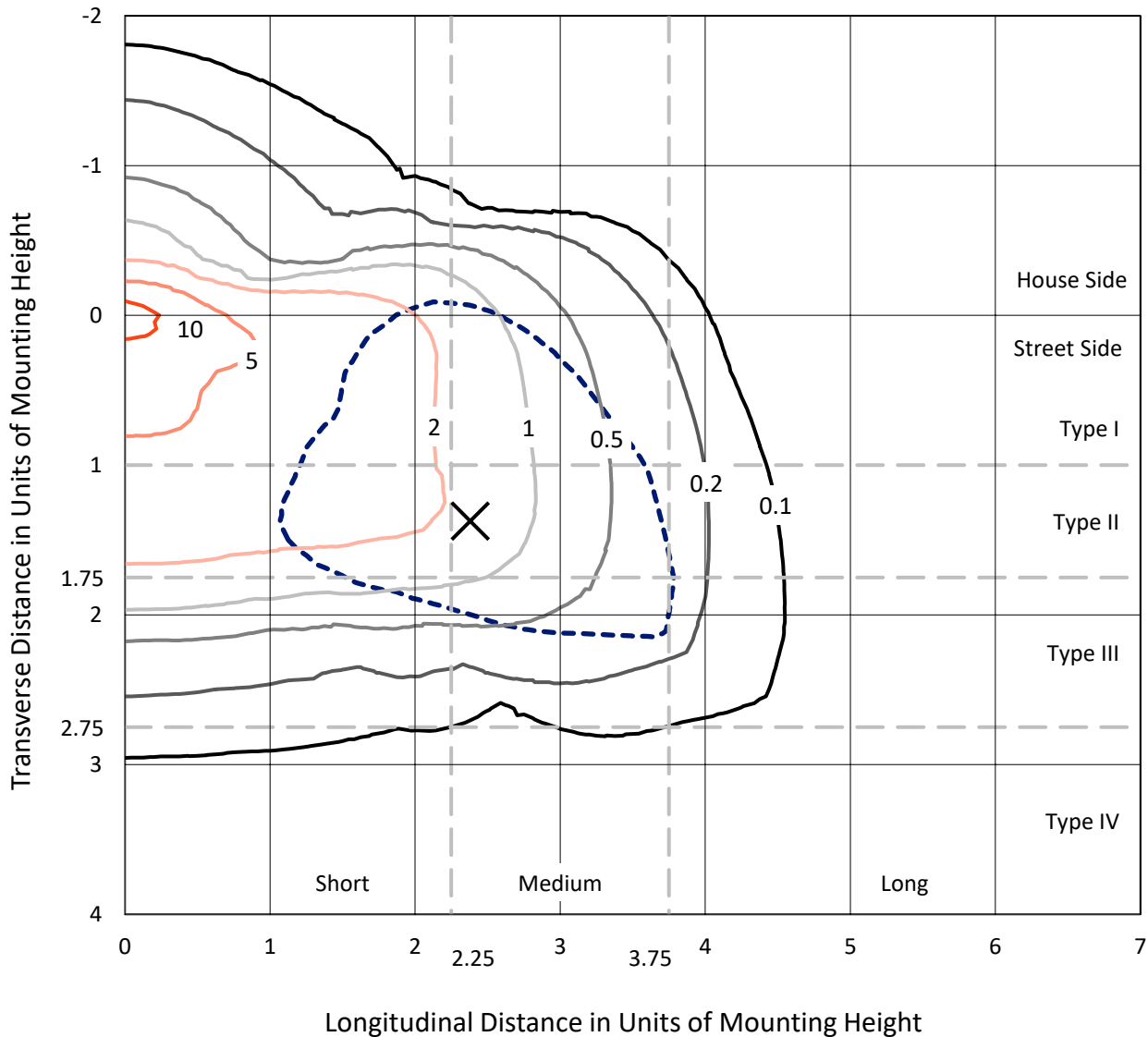
Lumens per Lamp: N/A  
Luminaire Lumens: 27440.4 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): 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

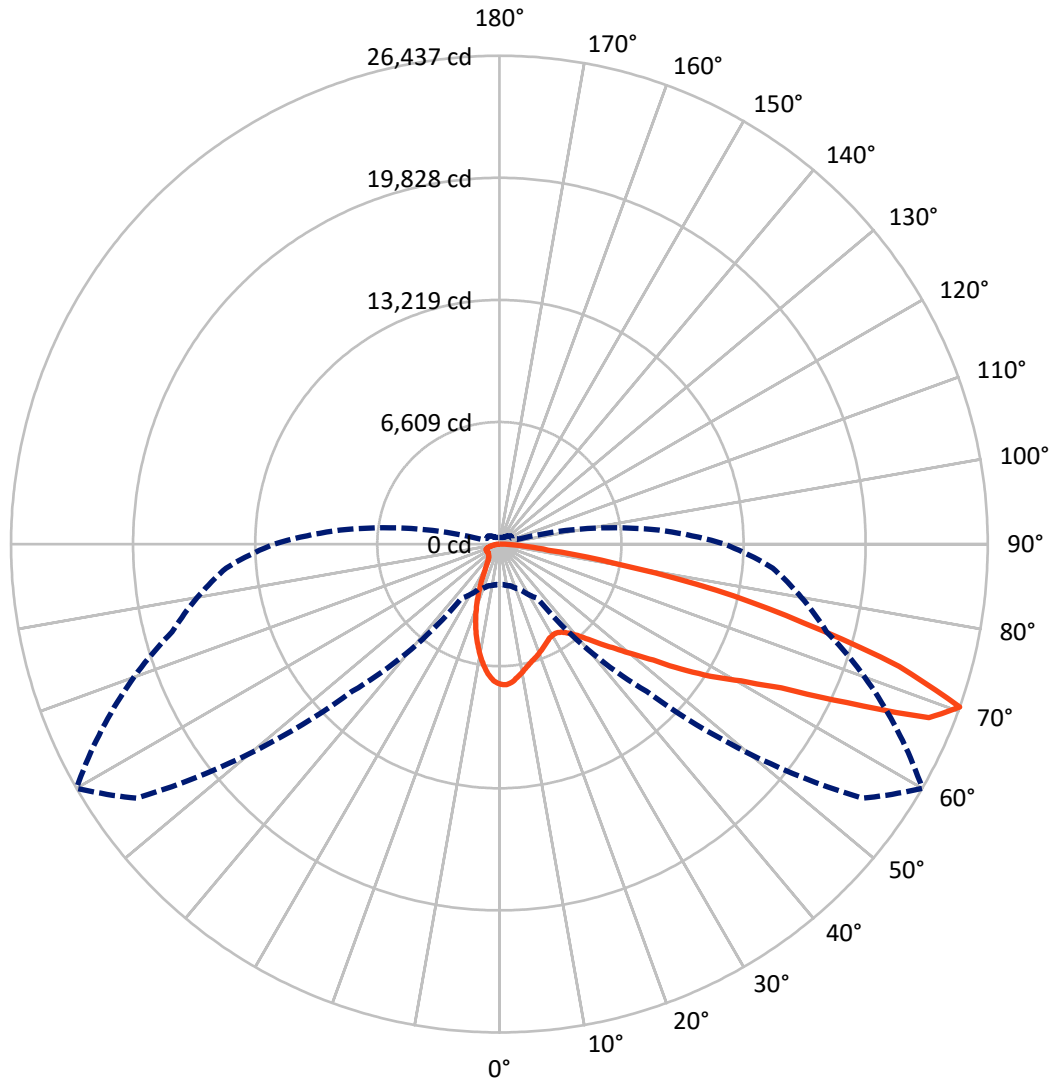
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4692.9	0.0	4692.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	22747.4	0.0	22747.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	27440.4	0.0	27440.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.5	2.4
10°-20°	1466.3	5.3
20°-30°	1877.8	6.8
30°-40°	2467.9	9.0
40°-50°	3580.5	13.0
50°-60°	5586.5	20.4
60°-70°	7313.8	26.7
70°-80°	4044.3	14.7
80°-90°	448.8	1.6
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°	27440.4	100.0
0°-180°	27440.4	100.0

**Coefficient of Utilization**



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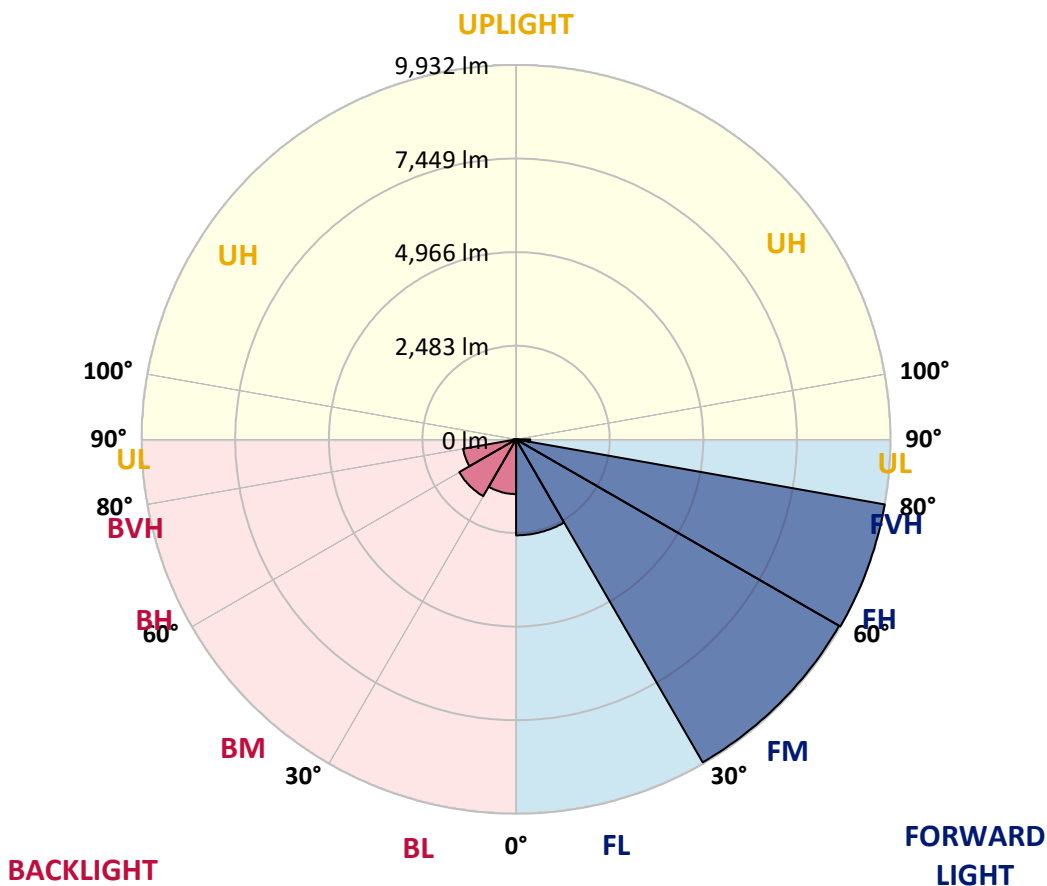
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2546.6	9.3			
FM (30°-60°)	9894.9	36.1			
FH (60°-80°)	9931.9	36.2			G4/12000
FVH (80°-90°)	374.0	1.4			G3/500
BL (0°-30°)	1451.9	5.3	B3/2500		
BM (30°-60°)	1740.0	6.3	B2/2500		
BH (60°-80°)	1426.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	74.8	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1
2.5°	7486.7	7494.7	7516.8	7548.9	7581.1	7597.1	7637.3	7625.2	7617.2	7601.1	7581.1
5°	7155.4	7171.5	7191.6	7253.8	7324.1	7380.3	7470.6	7480.7	7484.7	7492.7	7460.6
7.5°	6733.8	6737.8	6786.0	6868.3	6960.7	7057.1	7207.6	7249.8	7285.9	7326.1	7300.0
10°	6268.0	6278.1	6314.2	6432.7	6591.3	6733.8	6936.6	7006.9	7083.2	7171.5	7135.4
12.5°	5886.6	5888.6	5946.8	6073.3	6245.9	6438.7	6691.7	6776.0	6876.4	7014.9	6982.8
15°	5583.4	5583.4	5637.6	5746.0	5944.8	6171.7	6472.8	6581.2	6717.8	6904.5	6848.3
17.5°	5342.5	5344.5	5378.6	5493.1	5669.7	5920.7	6278.1	6424.6	6575.2	6822.2	6737.8
20°	5216.0	5206.0	5212.0	5282.3	5432.8	5675.8	6083.3	6254.0	6456.8	6765.9	6637.4
22.5°	5210.0	5191.9	5165.8	5171.8	5260.2	5460.9	5874.5	6081.3	6336.3	6719.8	6535.1
25°	5312.4	5292.3	5246.1	5193.9	5185.9	5306.3	5677.8	5912.7	6211.8	6699.7	6436.7
27.5°	5485.0	5471.0	5410.7	5332.4	5250.1	5246.1	5529.2	5774.1	6121.5	6719.8	6366.4
30°	5713.9	5689.8	5651.7	5551.3	5426.8	5298.3	5471.0	5699.9	6061.2	6784.0	6336.3
32.5°	5972.9	5958.8	5922.7	5822.3	5689.8	5485.0	5517.2	5715.9	6061.2	6896.4	6342.3
35°	6248.0	6245.9	6245.9	6179.7	6033.1	5778.2	5699.9	5852.4	6153.6	7077.1	6406.6
37.5°	6515.0	6513.0	6577.2	6601.3	6434.7	6159.6	6011.0	6125.5	6356.4	7344.2	6565.2
40°	6731.8	6739.8	6880.4	7000.8	6908.5	6653.5	6444.7	6502.9	6685.6	7723.6	6842.2
42.5°	6950.7	6972.7	7183.5	7396.4	7432.5	7211.7	7000.8	7035.0	7157.4	8225.5	7255.8
45°	7189.6	7199.6	7494.7	7791.9	7966.5	7836.0	7663.4	7709.6	7737.7	8845.9	7872.2
47.5°	7420.5	7446.6	7828.0	8235.6	8566.8	8554.8	8458.4	8444.4	8450.4	9600.8	8601.0
50°	7735.7	7773.8	8221.5	8713.4	9199.3	9422.1	9450.2	9343.8	9299.7	10440.0	9508.5
52.5°	8334.0	8334.0	8735.5	9219.3	9871.9	10424.0	10612.7	10438.0	10297.5	11327.4	10472.2
55°	9082.8	9114.9	9434.2	9825.7	10652.8	11478.0	12116.5	11923.7	11526.2	12293.1	11482.0
57.5°	9416.1	9456.3	9962.2	10570.5	11674.8	12676.6	13562.0	13493.7	12913.5	13297.0	12530.0
60°	8813.8	8898.1	9594.8	10614.7	12600.3	14610.0	15234.4	15035.7	14206.5	14351.0	13666.4
62.5°	7352.2	7444.5	8217.5	9641.0	12471.8	16700.0	17870.5	17137.7	15820.7	15682.1	15180.2
65°	4386.8	4382.8	5312.4	7199.6	10887.7	17280.3	22042.5	20675.3	18314.2	17509.1	16738.2
67.5°	2788.7	2782.7	2977.4	3814.6	7245.8	15858.8	24724.8	25080.2	21701.2	18852.3	16866.7
70°	2200.4	2198.4	2339.0	2720.4	3583.7	11285.3	23977.9	26437.4	23747.1	18340.3	14850.9
72.5°	1604.2	1608.2	1825.0	2278.7	2764.6	5665.7	19416.4	22620.7	21841.7	16190.1	12056.2
75°	1152.4	1158.4	1288.9	1744.7	2549.8	3097.9	12911.5	17009.2	16617.7	12977.8	8293.8
77.5°	732.8	740.8	855.3	1222.7	2059.9	2501.6	7828.0	12008.0	11056.4	7312.0	2949.3
80°	447.7	473.8	570.2	911.5	1646.3	1877.2	3913.0	6326.3	5537.2	2005.7	991.8
82.5°	230.9	251.0	343.3	564.2	1134.3	1648.3	2214.5	2658.2	1714.6	839.2	528.0
85°	72.3	84.3	120.5	228.9	540.1	1021.9	1465.6	1321.1	787.0	395.5	244.9
87.5°	18.1	18.1	20.1	20.1	22.1	46.2	283.1	299.1	208.8	124.5	100.4
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°	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1	7593.1
2.5°	7540.9	7492.7	7472.7	7470.6	7420.5	7348.2	7300.0	7265.9	7245.8	7241.8	7241.8
5°	7406.4	7344.2	7261.8	7199.6	7065.1	6928.6	6814.1	6749.9	6675.6	6665.6	6663.5
7.5°	7227.7	7137.4	6980.8	6806.1	6571.2	6344.3	6151.6	6021.1	5890.6	5866.5	5858.5
10°	7035.0	6912.5	6645.5	6338.3	5987.0	5647.7	5352.5	5121.6	4969.1	4860.6	4840.6
12.5°	6844.2	6681.6	6290.1	5832.4	5350.5	4886.7	4443.0	4065.6	3792.5	3633.9	3605.8
15°	6665.6	6438.7	5902.6	5318.4	4692.0	4057.6	3429.1	2939.3	2555.8	2419.3	2387.2
17.5°	6502.9	6219.8	5527.2	4786.4	4005.4	3176.2	2461.4	2025.8	1800.9	1732.6	1716.6
20°	6340.3	5995.0	5145.7	4226.2	3276.6	2347.0	1798.9	1594.1	1509.8	1483.7	1475.7
22.5°	6165.6	5748.0	4730.1	3674.1	2539.7	1756.7	1471.6	1381.3	1355.2	1357.2	1355.2
25°	5991.0	5497.1	4294.5	3073.8	1891.3	1425.5	1284.9	1250.8	1256.8	1274.9	1278.9
27.5°	5846.4	5274.2	3866.8	2415.3	1477.7	1226.7	1160.4	1158.4	1180.5	1204.6	1208.6
30°	5742.0	5075.5	3445.2	1857.1	1216.7	1090.2	1064.1	1076.1	1102.2	1120.3	1126.3
32.5°	5667.7	4904.8	2995.5	1459.6	1066.1	993.8	981.8	993.8	1009.9	1027.9	1032.0
35°	5641.6	4780.3	2553.8	1190.6	963.7	923.5	915.5	921.5	929.6	939.6	943.6
37.5°	5699.9	4718.1	2092.0	1036.0	901.5	877.4	865.3	861.3	863.3	867.3	869.3
40°	5872.5	4746.2	1714.6	945.6	861.3	839.2	819.1	811.1	809.1	813.1	811.1
42.5°	6169.7	4864.7	1441.5	893.4	829.2	797.1	775.0	766.9	766.9	777.0	777.0
45°	6605.3	5097.5	1244.8	855.3	801.1	760.9	736.8	732.8	740.8	756.9	758.9
47.5°	7243.8	5438.9	1126.3	827.2	775.0	728.8	704.7	702.7	718.8	744.9	746.9
50°	8000.7	5930.7	1062.1	807.1	756.9	702.7	678.6	680.6	698.7	726.8	732.8
52.5°	8912.2	6601.3	1066.1	799.1	746.9	686.6	662.5	658.5	676.6	704.7	710.7
55°	9853.8	7416.4	1144.4	801.1	732.8	678.6	646.5	632.4	648.5	668.6	670.6
57.5°	10889.8	8336.0	1339.1	797.1	714.7	670.6	632.4	600.3	610.3	622.4	628.4
60°	12058.2	9418.1	1758.7	805.1	706.7	652.5	604.3	562.2	560.1	568.2	570.2
62.5°	13620.2	10889.8	2230.6	819.1	724.8	630.4	562.2	518.0	510.0	514.0	516.0
65°	14814.8	11592.4	2082.0	807.1	762.9	614.4	522.0	475.8	459.8	455.7	455.7
67.5°	14328.9	10662.9	1449.6	775.0	781.0	616.4	489.9	431.7	411.6	401.5	399.5
70°	12192.7	8661.2	1007.9	742.8	760.9	612.3	455.7	395.5	369.4	355.4	353.4
72.5°	9632.9	6613.4	815.1	678.6	690.6	552.1	405.6	355.4	333.3	315.2	315.2
75°	6199.8	4035.5	680.6	604.3	564.2	429.6	351.3	317.2	295.1	277.1	277.1
77.5°	2086.0	1497.7	528.0	512.0	421.6	323.2	295.1	273.0	255.0	238.9	236.9
80°	847.2	710.7	387.5	387.5	295.1	246.9	230.9	220.8	208.8	188.7	188.7
82.5°	491.9	431.7	271.0	234.9	196.8	170.7	160.6	150.6	150.6	136.5	136.5
85°	236.9	238.9	162.6	144.6	112.4	98.4	94.4	88.3	86.3	78.3	76.3
87.5°	128.5	130.5	82.3	64.2	44.2	38.1	32.1	30.1	28.1	26.1	26.1
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)