

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: P643661

Luminaire Tested: GWS-SA6F-735-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

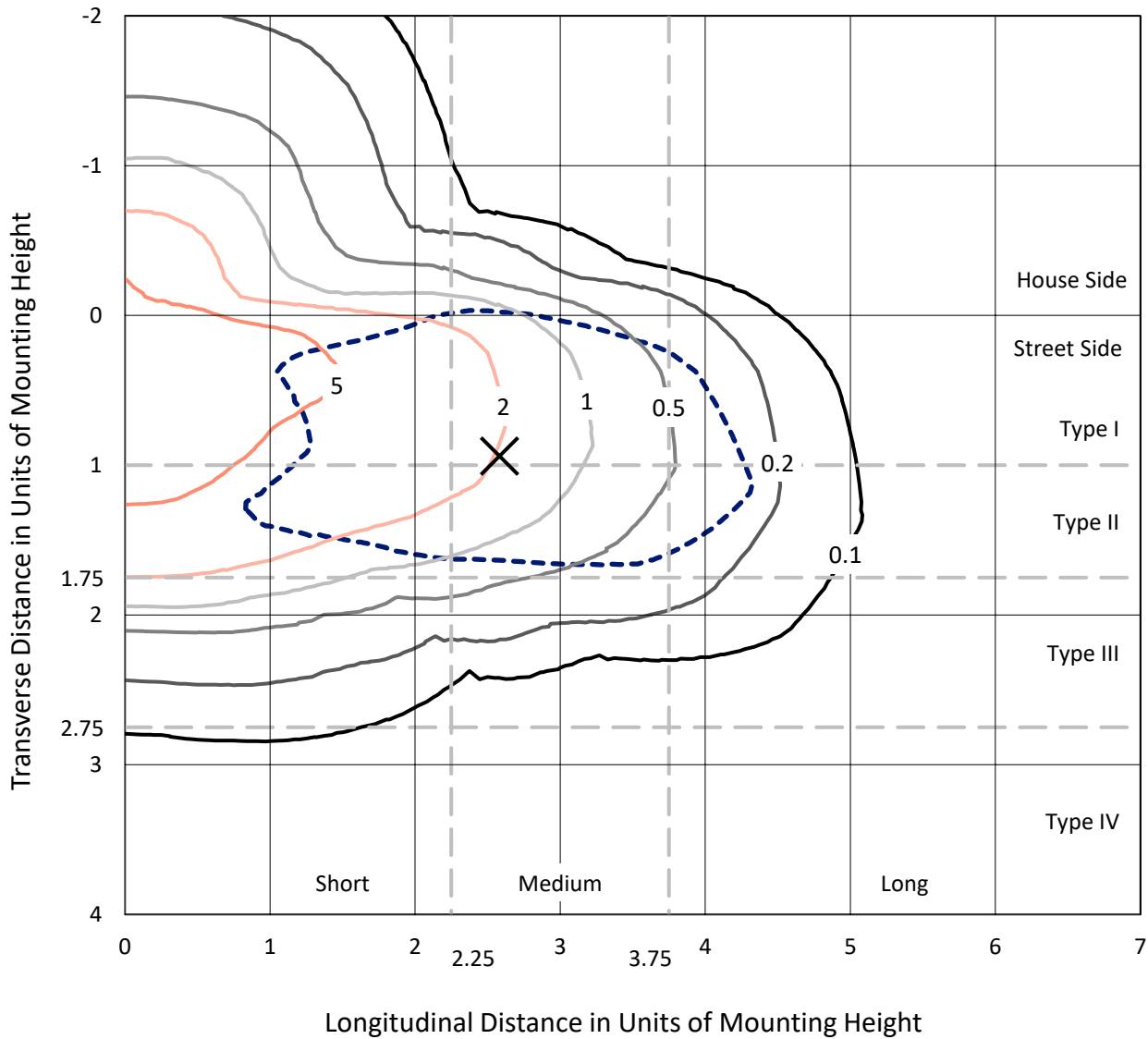
Lumens per Lamp: N/A  
Luminaire Lumens: 48702.6 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

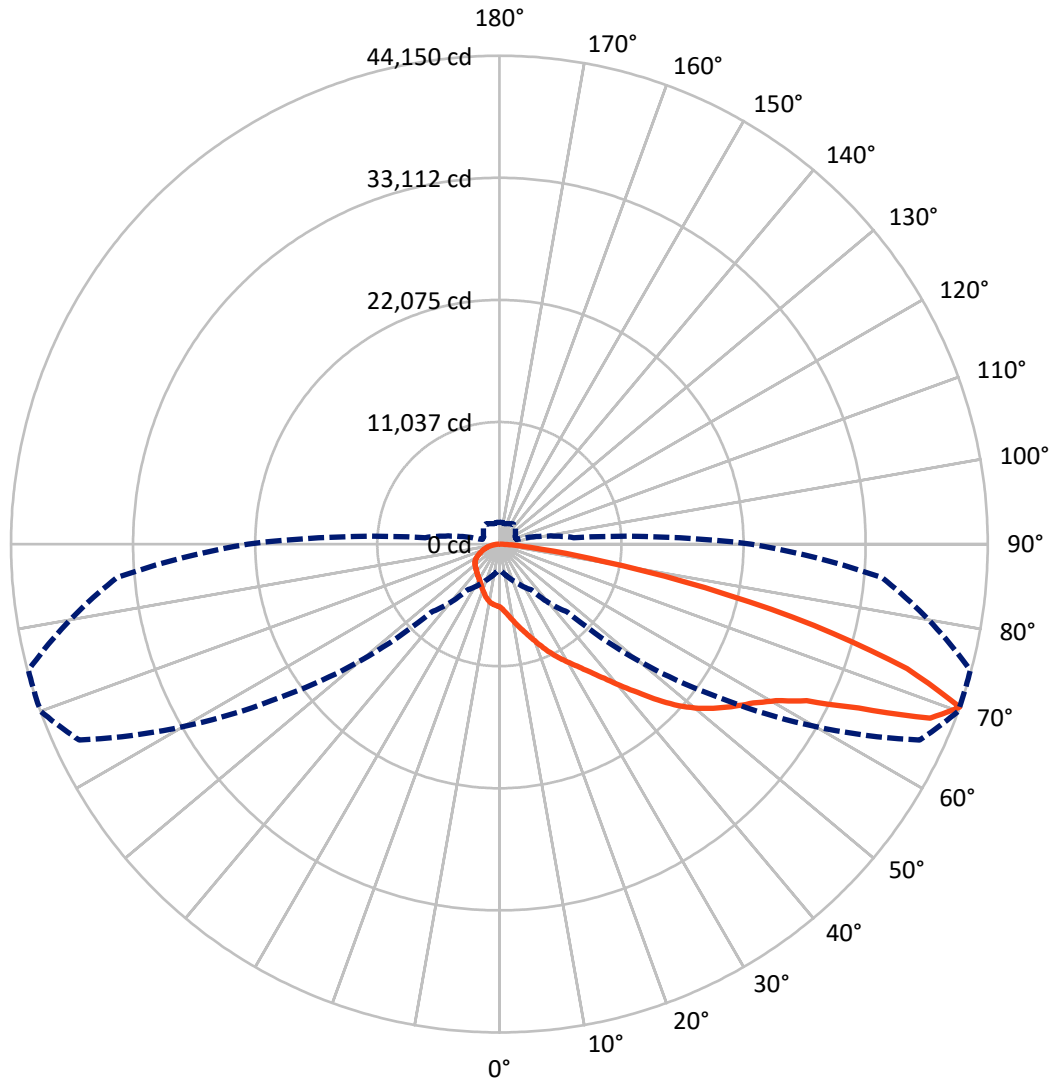
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8727.6	0.0	8727.6
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	39975.0	0.0	39975.0
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	48702.6	0.0	48702.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.3	1.2
10°-20°	1877.9	3.9
20°-30°	3326.8	6.8
30°-40°	5006.8	10.3
40°-50°	7574.7	15.6
50°-60°	10851.2	22.3
60°-70°	11994.8	24.6
70°-80°	6769.0	13.9
80°-90°	724.0	1.5
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°	48702.6	100.0
0°-180°	48702.6	100.0

**Coefficient of Utilization**



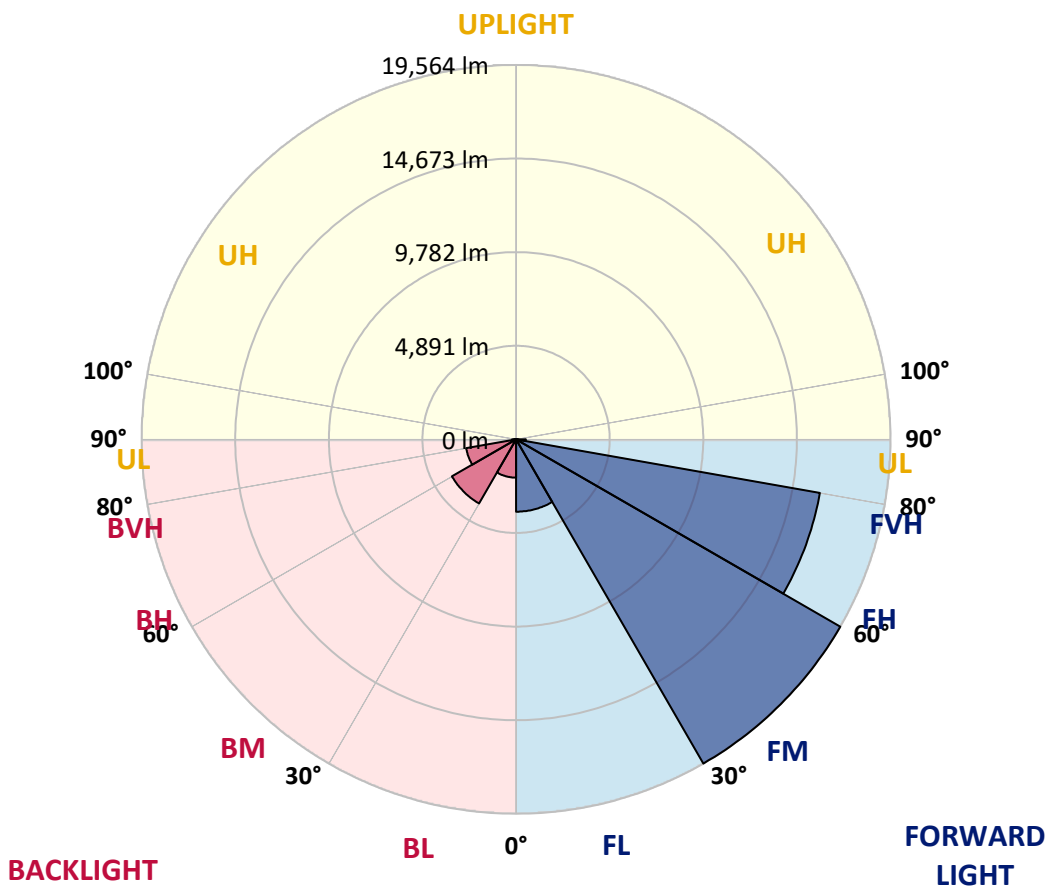
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3780.8	7.8			
FM (30°-60°)	19563.8	40.2			
FH (60°-80°)	16118.5	33.1			G5
FVH (80°-90°)	511.8	1.1			G4/750
BL (0°-30°)	2001.1	4.1	B3/2500		
BM (30°-60°)	3869.0	7.9	B3/5000		
BH (60°-80°)	2645.3	5.4	B4/5000		G4/5000
BVH (80°-90°)	212.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7
2.5°	6292.0	6281.5	6288.5	6281.5	6242.8	6147.8	6070.3	5971.8	5905.0	5866.2	5774.7
5°	7031.0	7020.5	6995.9	6960.7	6890.3	6760.1	6566.5	6351.9	6221.7	6123.1	5929.6
7.5°	7562.4	7562.4	7558.9	7516.7	7467.4	7330.2	7101.4	6819.9	6629.9	6461.0	6144.2
10°	7833.4	7851.0	7875.6	7935.4	7924.9	7851.0	7636.3	7333.7	7094.4	6897.3	6425.8
12.5°	7981.2	7991.7	8034.0	8157.1	8283.8	8301.4	8174.7	7858.0	7597.6	7333.7	6739.0
15°	8171.2	8174.7	8231.0	8378.8	8565.3	8751.9	8720.2	8403.5	8136.0	7843.9	7087.3
17.5°	8319.0	8343.6	8445.7	8618.1	8850.4	9107.3	9262.1	9065.0	8734.3	8400.0	7467.4
20°	8371.8	8389.4	8523.1	8787.0	9103.8	9466.2	9811.1	9758.3	9424.0	9029.9	7896.7
22.5°	8561.8	8561.8	8660.4	8882.1	9255.1	9782.9	10342.5	10479.7	10184.1	9723.1	8357.7
25°	8980.6	8966.5	9012.3	9103.8	9385.3	10036.3	10866.8	11278.5	10947.7	10430.4	8818.7
27.5°	9554.2	9547.2	9543.6	9557.7	9652.7	10258.0	11310.2	12024.6	11693.8	11109.6	9230.4
30°	10177.1	10156.0	10201.7	10159.5	10138.4	10521.9	11686.7	12693.2	12436.3	11781.7	9571.8
32.5°	11025.2	10986.4	10975.9	10838.6	10754.2	10933.7	11989.4	13453.3	13249.2	12506.7	9955.4
35°	12144.2	12109.0	11929.5	11711.4	11461.5	11546.0	12365.9	14195.8	14209.9	13414.6	10458.6
37.5°	13273.8	13280.9	13140.1	12626.3	12369.4	12320.2	12939.5	15100.2	15402.8	14498.4	11109.6
40°	14213.4	14255.6	14255.6	13713.7	13330.1	13284.4	13745.4	16173.5	16775.3	15828.6	11933.1
42.5°	14927.8	14966.5	15089.6	14699.0	14294.3	14452.7	14723.7	17250.3	18330.7	17472.0	12974.7
45°	15712.5	15744.2	15811.0	15585.8	15350.1	15772.3	15832.2	18538.3	20111.3	19316.0	14185.3
47.5°	16754.2	16726.0	16733.0	16567.6	16384.7	17067.3	17053.3	19622.2	21832.1	21335.9	15497.9
50°	18049.2	18101.9	18052.7	17725.4	17510.7	18133.6	18214.6	20822.2	23345.3	23334.8	16821.0
52.5°	19294.9	19316.0	19576.4	19590.5	19150.6	19020.4	19231.6	22032.7	24622.7	25164.7	18091.4
55°	19358.2	19439.2	20220.4	20783.5	21494.3	20449.1	20259.1	23187.0	25857.9	26955.9	19411.0
57.5°	18010.5	18140.7	19467.3	20681.4	22659.1	22901.9	22018.6	24679.0	27093.1	28718.9	20938.3
60°	15131.9	15402.8	17204.6	19062.6	22134.8	24665.0	25618.6	26706.0	28715.4	30520.6	22792.8
62.5°	9663.3	9768.9	12295.5	15406.4	19773.5	24492.5	29538.8	30277.8	31185.7	32867.8	25650.3
65°	4838.7	5176.5	6658.0	9195.3	14259.2	21582.3	31520.0	36819.7	35707.7	36886.6	30281.3
67.5°	3283.3	3392.4	4141.9	5524.9	8361.2	15290.2	30291.9	42330.5	42003.3	42196.8	35218.6
70°	2421.1	2491.5	3082.7	3913.2	5056.9	8681.5	24116.0	41915.3	44149.9	44079.5	34701.3
72.5°	1766.6	1801.7	2248.7	2987.7	3747.8	4490.3	14727.2	33860.2	38540.5	40571.0	30348.2
75°	1284.4	1326.7	1562.5	2234.6	2913.8	2801.2	7270.3	24457.3	29391.0	33297.2	24724.8
77.5°	957.2	1010.0	1119.1	1400.6	2041.0	2005.9	3142.5	15881.4	19009.9	21747.7	15019.3
80°	689.7	700.3	763.6	897.4	1295.0	1175.4	1495.6	8280.3	9494.4	10402.3	5887.4
82.5°	418.8	429.3	510.3	552.5	802.3	739.0	777.7	2681.5	3842.8	4078.6	2199.4
85°	123.2	130.2	232.3	253.4	334.3	316.7	313.2	1090.9	1302.0	1664.5	865.7
87.5°	0.0	0.0	0.0	0.0	3.5	21.1	38.7	193.5	292.1	404.7	211.1
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°	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7	5679.7
2.5°	5739.6	5658.6	5616.4	5542.5	5489.7	5436.9	5384.1	5334.9	5313.8	5282.1	5289.1
5°	5841.6	5714.9	5588.2	5444.0	5320.8	5218.7	5127.2	5046.3	5011.1	4979.4	4993.5
7.5°	5996.4	5806.4	5563.6	5299.7	5106.1	4965.4	4870.4	4814.0	4796.5	4771.8	4771.8
10°	6193.5	5908.5	5482.7	5106.1	4873.9	4761.3	4719.0	4715.5	4733.1	4736.6	4729.6
12.5°	6411.7	6007.0	5363.0	4877.4	4680.3	4645.1	4676.8	4736.6	4796.5	4828.1	4821.1
15°	6636.9	6070.3	5158.9	4659.2	4539.6	4585.3	4687.4	4807.0	4923.1	4983.0	4979.4
17.5°	6848.1	6084.4	4895.0	4448.1	4416.4	4532.5	4708.5	4895.0	5053.3	5137.8	5141.3
20°	7083.8	6059.8	4624.0	4258.0	4293.2	4483.3	4715.5	4940.7	5127.2	5211.7	5232.8
22.5°	7298.5	5975.3	4360.1	4078.6	4187.7	4423.4	4659.2	4870.4	5035.7	5116.7	5144.8
25°	7492.0	5813.5	4071.5	3927.2	4106.7	4339.0	4518.4	4666.2	4782.4	4831.6	4870.4
27.5°	7597.6	5570.6	3853.3	3807.6	4029.3	4219.3	4317.9	4363.6	4402.3	4388.2	4416.4
30°	7618.7	5268.0	3663.3	3712.6	3913.2	4053.9	4075.0	4029.3	3962.4	3853.3	3878.0
32.5°	7597.6	4919.6	3505.0	3610.5	3783.0	3867.4	3839.3	3719.6	3557.8	3388.8	3399.4
35°	7604.6	4567.7	3374.8	3497.9	3631.7	3677.4	3607.0	3441.6	3269.2	3114.4	3107.3
37.5°	7682.1	4272.1	3265.7	3388.8	3483.9	3490.9	3413.5	3241.0	3153.1	3036.9	3022.9
40°	7896.7	4053.9	3167.1	3279.7	3339.6	3336.1	3248.1	3124.9	3184.7	3146.0	3135.5
42.5°	8248.6	3920.2	3086.2	3163.6	3205.8	3212.9	3142.5	3065.1	3195.3	3146.0	3128.4
45°	8815.2	3913.2	3029.9	3047.5	3114.4	3163.6	3114.4	3026.4	3075.6	2836.3	2790.6
47.5°	9487.3	4032.8	2987.7	2945.4	3061.6	3149.5	3072.1	2931.4	2829.3	2611.1	2579.5
50°	10296.7	4275.6	2949.0	2836.3	2984.1	3096.8	3019.3	2825.8	2671.0	2554.8	2537.2
52.5°	11257.4	4595.9	2899.7	2713.2	2868.0	3068.6	3019.3	2815.2	2611.1	2505.6	2488.0
55°	12263.9	4965.4	2843.4	2565.4	2737.8	3075.6	3044.0	2741.3	2565.4	2509.1	2495.0
57.5°	13513.1	5408.8	2741.3	2392.9	2621.7	3012.3	2945.4	2699.1	2533.7	2488.0	2473.9
60°	15135.4	6066.8	2547.8	2217.0	2488.0	2899.7	2857.5	2628.7	2449.3	2410.5	2400.0
62.5°	17704.3	7182.4	2312.0	2048.1	2329.6	2663.9	2727.3	2495.0	2343.7	2340.2	2336.6
65°	21892.0	8523.1	2034.0	1896.8	2164.2	2470.4	2554.8	2357.8	2234.6	2273.3	2269.8
67.5°	24826.8	8639.2	1805.3	1738.4	1970.7	2259.2	2382.4	2217.0	2083.3	2157.2	2153.7
70°	22740.0	6739.0	1608.2	1573.0	1763.0	2030.5	2195.9	2041.0	1907.3	1977.7	1963.6
72.5°	19178.8	5166.0	1421.7	1400.6	1551.9	1791.2	1956.6	1865.1	1724.3	1724.3	1692.7
75°	15413.4	4261.6	1224.6	1214.1	1316.1	1548.4	1734.9	1580.0	1449.8	1442.8	1421.7
77.5°	8839.8	2794.1	1027.6	1020.5	1052.2	1295.0	1347.8	1316.1	1217.6	1171.8	1157.8
80°	3522.6	1453.4	809.4	763.6	795.3	950.1	1062.8	1010.0	925.5	869.2	837.5
82.5°	1365.4	728.4	570.1	499.7	545.5	686.2	770.7	753.1	696.8	570.1	534.9
85°	556.0	355.4	341.3	288.6	316.7	369.5	443.4	383.6	316.7	225.2	214.7
87.5°	147.8	130.2	126.7	77.4	59.8	17.6	3.5	0.0	0.0	0.0	0.0
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)