

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: P643716

Luminaire Tested: GWS-SA6F-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643716  
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-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

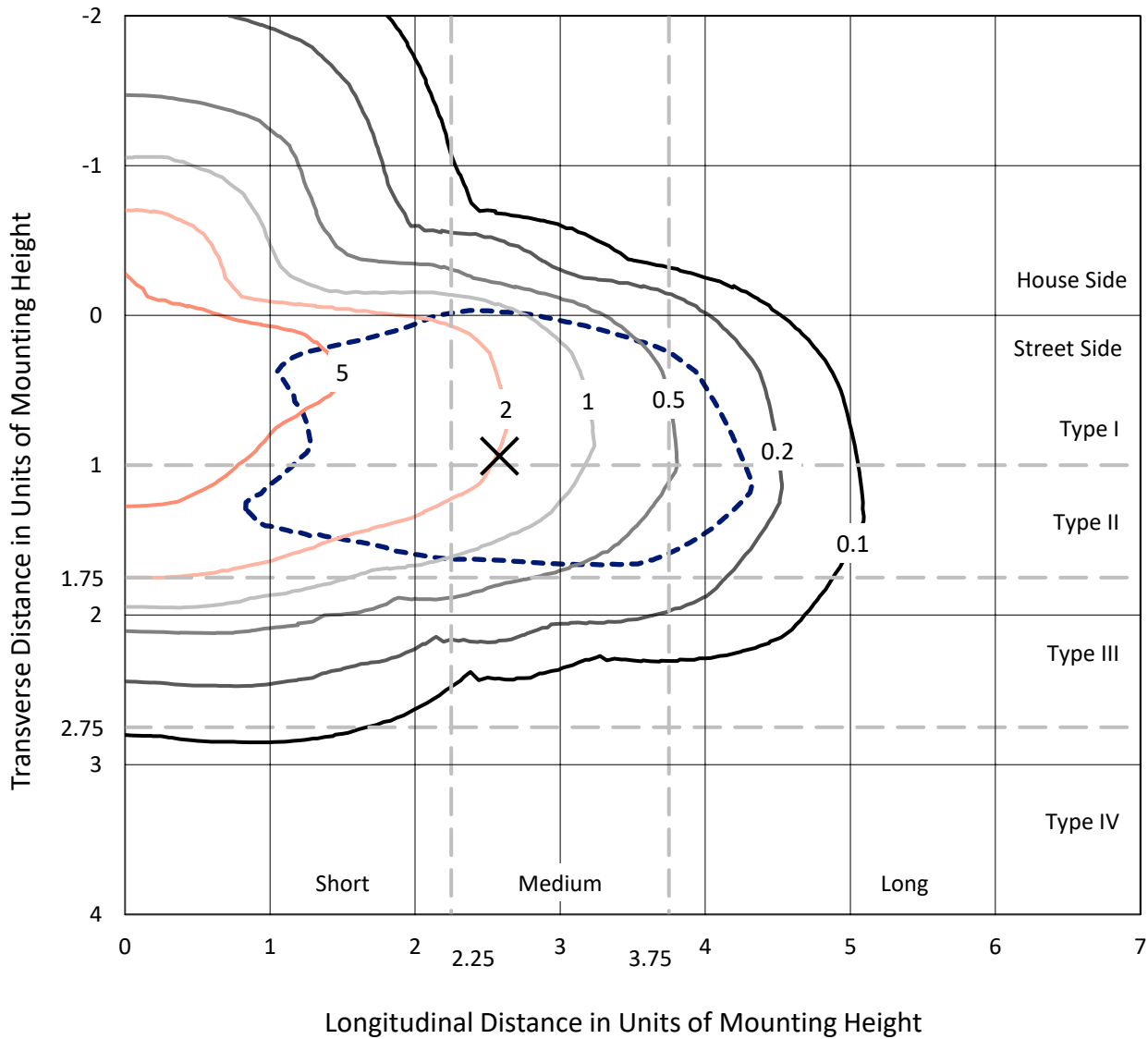
Lumens per Lamp: N/A  
Luminaire Lumens: 49379.4 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

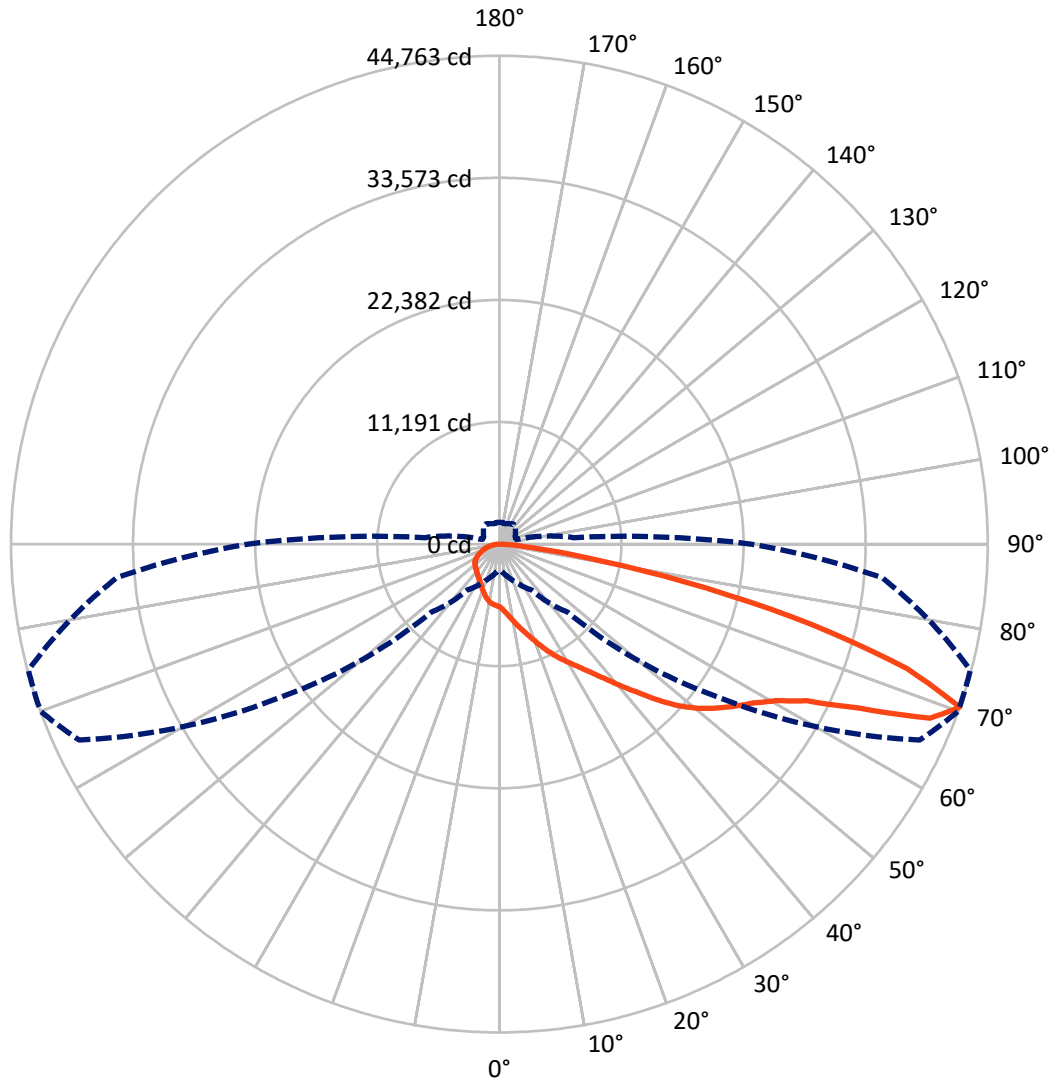
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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	8848.9	0.0	8848.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	40530.5	0.0	40530.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	49379.4	0.0	49379.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.3	1.2
10°-20°	1904.0	3.9
20°-30°	3373.0	6.8
30°-40°	5076.4	10.3
40°-50°	7680.0	15.6
50°-60°	11002.0	22.3
60°-70°	12161.5	24.6
70°-80°	6863.0	13.9
80°-90°	734.1	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°	49379.4	100.0
0°-180°	49379.4	100.0

**Coefficient of Utilization**



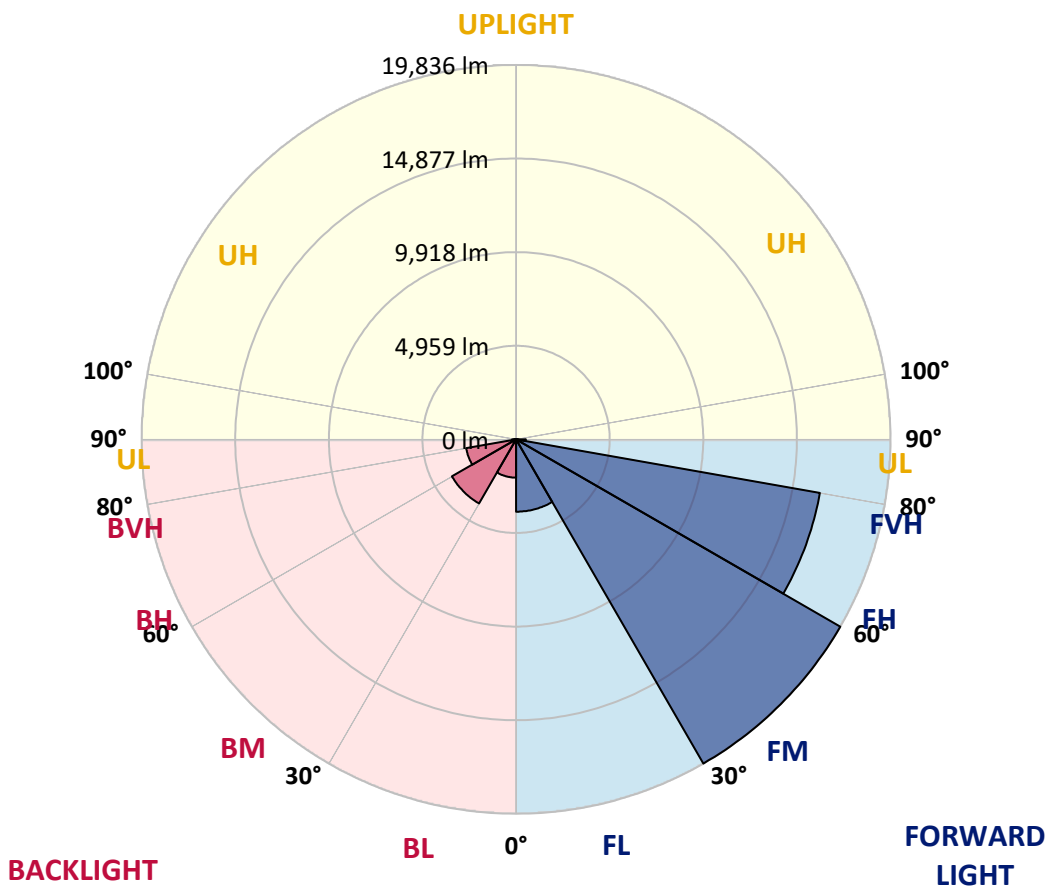
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3833.4	7.8			
FM (30°-60°)	19835.7	40.2			
FH (60°-80°)	16342.5	33.1			G5
FVH (80°-90°)	518.9	1.1			G4/750
BL (0°-30°)	2028.9	4.1	B3/2500		
BM (30°-60°)	3922.8	7.9	B3/5000		
BH (60°-80°)	2682.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	215.2	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°	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7
2.5°	6379.5	6368.8	6375.9	6368.8	6329.5	6233.2	6154.7	6054.8	5987.0	5947.8	5855.0
5°	7128.8	7118.0	7093.1	7057.4	6986.0	6854.0	6657.8	6440.1	6308.1	6208.2	6012.0
7.5°	7667.5	7667.5	7663.9	7621.1	7571.2	7432.0	7200.1	6914.7	6722.0	6550.7	6229.6
10°	7942.2	7960.1	7985.1	8045.7	8035.0	7960.1	7742.4	7435.6	7193.0	6993.2	6515.1
12.5°	8092.1	8102.8	8145.6	8270.5	8398.9	8416.8	8288.3	7967.2	7703.2	7435.6	6832.6
15°	8284.8	8288.3	8345.4	8495.3	8684.4	8873.5	8841.4	8520.2	8249.1	7952.9	7185.8
17.5°	8434.6	8459.6	8563.1	8737.9	8973.4	9233.8	9390.8	9191.0	8855.6	8516.7	7571.2
20°	8488.1	8506.0	8641.6	8909.2	9230.3	9597.8	9947.4	9893.9	9555.0	9155.3	8006.5
22.5°	8680.8	8680.8	8780.7	9005.5	9383.7	9918.9	10486.2	10625.3	10325.6	9858.2	8473.9
25°	9105.4	9091.1	9137.5	9230.3	9515.7	10175.8	11017.8	11435.3	11099.9	10575.4	8941.3
27.5°	9687.0	9679.8	9676.3	9690.5	9786.9	10400.6	11467.4	12191.7	11856.3	11264.0	9358.7
30°	10318.5	10297.1	10343.5	10300.7	10279.2	10668.2	11849.1	12869.6	12609.1	11945.5	9704.8
32.5°	11178.4	11139.1	11128.4	10989.3	10903.6	11085.6	12156.0	13640.2	13433.3	12680.5	10093.7
35°	12313.0	12277.3	12095.3	11874.1	11620.8	11706.4	12537.8	14393.1	14407.4	13601.0	10603.9
37.5°	13458.3	13465.4	13322.7	12801.8	12541.3	12491.4	13119.3	15310.0	15616.9	14699.9	11264.0
40°	14410.9	14453.7	14453.7	13904.3	13515.4	13469.0	13936.4	16398.3	17008.4	16048.6	12098.9
42.5°	15135.2	15174.5	15299.3	14903.3	14493.0	14653.5	14928.3	17490.1	18585.4	17714.8	13155.0
45°	15930.9	15963.0	16030.8	15802.4	15563.4	15991.5	16052.2	18795.9	20390.8	19584.4	14382.4
47.5°	16987.0	16958.4	16965.6	16797.9	16612.3	17304.5	17290.3	19894.9	22135.5	21632.4	15713.2
50°	18300.0	18353.5	18303.5	17971.7	17754.1	18385.6	18467.7	21111.5	23669.7	23659.0	17054.8
52.5°	19563.0	19584.4	19848.5	19862.7	19416.7	19284.7	19498.8	22338.9	24964.9	25514.4	18342.8
55°	19627.3	19709.3	20501.4	21072.3	21793.0	20733.3	20540.6	23509.2	26217.2	27330.4	19680.8
57.5°	18260.7	18392.7	19737.9	20968.8	22974.0	23220.2	22324.6	25022.0	27469.6	29118.0	21229.3
60°	15342.2	15616.9	17443.7	19327.5	22442.4	25007.7	25974.6	27077.1	29114.4	30944.8	23109.6
62.5°	9797.6	9904.6	12466.4	15620.5	20048.3	24832.9	29949.3	30698.6	31619.1	33324.6	26006.7
65°	4905.9	5248.4	6750.5	9323.0	14457.3	21882.2	31958.1	37331.4	36203.9	37399.2	30702.2
67.5°	3328.9	3439.5	4199.5	5601.7	8477.4	15502.7	30712.9	42918.8	42587.0	42783.2	35708.0
70°	2454.7	2526.1	3125.5	3967.6	5127.1	8802.1	24451.1	42497.8	44763.4	44692.1	35183.5
72.5°	1791.1	1826.8	2279.9	3029.2	3799.9	4552.7	14931.8	34330.8	39076.1	41134.8	30769.9
75°	1302.3	1345.1	1584.2	2265.6	2954.3	2840.1	7371.4	24797.2	29799.5	33759.9	25068.4
77.5°	970.5	1024.0	1134.6	1420.0	2069.4	2033.7	3186.2	16102.1	19274.0	22049.9	15228.0
80°	699.3	710.0	774.2	909.8	1313.0	1191.7	1516.4	8395.4	9626.3	10546.8	5969.2
82.5°	424.6	435.3	517.4	560.2	813.5	749.3	788.5	2718.8	3896.2	4135.2	2230.0
85°	124.9	132.0	235.5	256.9	339.0	321.1	317.5	1106.1	1320.1	1687.6	877.7
87.5°	0.0	0.0	0.0	0.0	3.6	21.4	39.2	196.2	296.1	410.3	214.1
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°	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7
2.5°	5819.3	5737.3	5694.4	5619.5	5566.0	5512.5	5459.0	5409.0	5387.6	5355.5	5362.6
5°	5922.8	5794.3	5665.9	5519.6	5394.7	5291.3	5198.5	5116.4	5080.8	5048.6	5062.9
7.5°	6079.8	5887.1	5640.9	5373.3	5177.1	5034.4	4938.0	4880.9	4863.1	4838.1	4838.1
10°	6279.6	5990.6	5558.9	5177.1	4941.6	4827.4	4784.6	4781.0	4798.9	4802.5	4795.3
12.5°	6500.8	6090.5	5437.5	4945.2	4745.4	4709.7	4741.8	4802.5	4863.1	4895.2	4888.1
15°	6729.1	6154.7	5230.6	4724.0	4602.6	4649.0	4752.5	4873.8	4991.6	5052.2	5048.6
17.5°	6943.2	6169.0	4963.0	4509.9	4477.8	4595.5	4773.9	4963.0	5123.6	5209.2	5212.8
20°	7182.3	6144.0	4688.3	4317.2	4352.9	4545.6	4781.0	5009.4	5198.5	5284.1	5305.5
22.5°	7399.9	6058.4	4420.7	4135.2	4245.9	4484.9	4724.0	4938.0	5105.7	5187.8	5216.3
25°	7596.2	5894.2	4128.1	3981.8	4163.8	4399.3	4581.2	4731.1	4848.8	4898.8	4938.0
27.5°	7703.2	5648.1	3906.9	3860.5	4085.3	4278.0	4377.9	4424.2	4463.5	4449.2	4477.8
30°	7724.6	5341.2	3714.2	3764.2	3967.6	4110.3	4131.7	4085.3	4017.5	3906.9	3931.9
32.5°	7703.2	4988.0	3553.7	3660.7	3835.5	3921.2	3892.6	3771.3	3607.2	3435.9	3446.6
35°	7710.3	4631.2	3421.7	3546.5	3682.1	3728.5	3657.1	3489.4	3314.6	3157.6	3150.5
37.5°	7788.8	4331.5	3311.1	3435.9	3532.3	3539.4	3460.9	3286.1	3196.9	3079.1	3064.9
40°	8006.5	4110.3	3211.1	3325.3	3386.0	3382.4	3293.2	3168.3	3229.0	3189.7	3179.0
42.5°	8363.3	3974.7	3129.1	3207.6	3250.4	3257.5	3186.2	3107.7	3239.7	3189.7	3171.9
45°	8937.7	3967.6	3072.0	3089.8	3157.6	3207.6	3157.6	3068.4	3118.4	2875.8	2829.4
47.5°	9619.2	4088.9	3029.2	2986.4	3104.1	3193.3	3114.8	2972.1	2868.6	2647.4	2615.3
50°	10439.8	4335.1	2989.9	2875.8	3025.6	3139.8	3061.3	2865.1	2708.1	2590.3	2572.5
52.5°	11413.9	4659.7	2940.0	2750.9	2907.9	3111.2	3061.3	2854.4	2647.4	2540.4	2522.5
55°	12434.3	5034.4	2882.9	2601.0	2775.9	3118.4	3086.3	2779.4	2601.0	2543.9	2529.7
57.5°	13700.9	5483.9	2779.4	2426.2	2658.1	3054.2	2986.4	2736.6	2568.9	2522.5	2508.3
60°	15345.7	6151.1	2583.2	2247.8	2522.5	2940.0	2897.2	2665.3	2483.3	2444.0	2433.3
62.5°	17950.3	7282.2	2344.1	2076.5	2362.0	2700.9	2765.2	2529.7	2376.3	2372.7	2369.1
65°	22196.2	8641.6	2062.3	1923.1	2194.3	2504.7	2590.3	2390.5	2265.6	2304.9	2301.3
67.5°	25171.8	8759.3	1830.4	1762.6	1998.0	2290.6	2415.5	2247.8	2112.2	2187.1	2183.6
70°	23056.1	6832.6	1630.6	1594.9	1787.5	2058.7	2226.4	2069.4	1933.8	2005.2	1990.9
72.5°	19445.3	5237.7	1441.4	1420.0	1573.5	1816.1	1983.8	1891.0	1748.3	1748.3	1716.2
75°	15627.6	4320.8	1241.6	1230.9	1334.4	1569.9	1759.0	1602.0	1470.0	1462.9	1441.4
77.5°	8962.7	2832.9	1041.8	1034.7	1066.8	1313.0	1366.5	1334.4	1234.5	1188.1	1173.9
80°	3571.5	1473.6	820.6	774.2	806.4	963.3	1077.5	1024.0	938.4	881.3	849.2
82.5°	1384.4	738.6	578.0	506.6	553.0	695.7	781.4	763.5	706.5	578.0	542.3
85°	563.7	360.4	346.1	292.6	321.1	374.6	449.6	388.9	321.1	228.3	217.6
87.5°	149.9	132.0	128.4	78.5	60.7	17.8	3.6	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)