

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: P641778

Luminaire Tested: GWS-SA6B-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

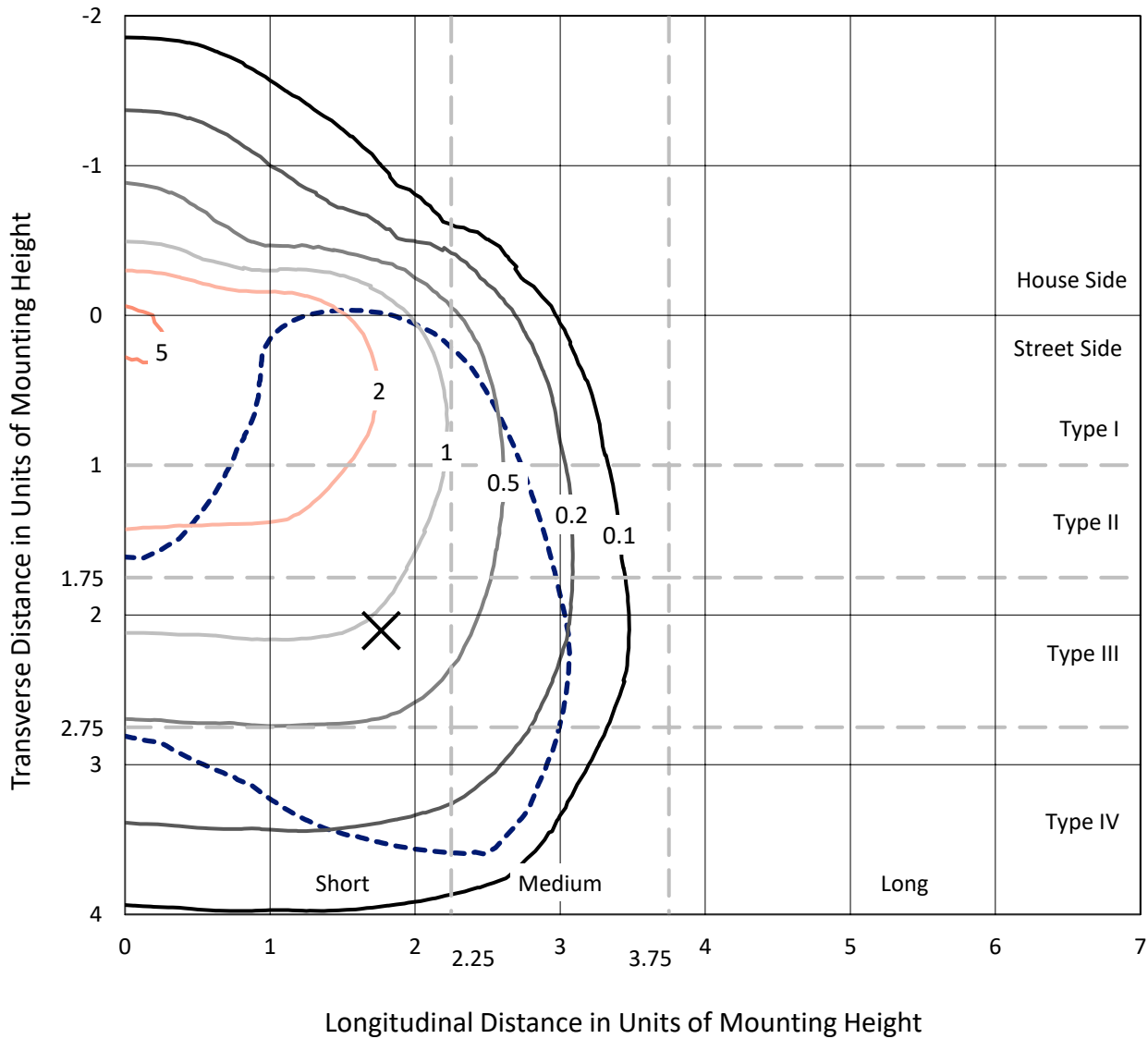
Lumens per Lamp: N/A  
Luminaire Lumens: 20799.9 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

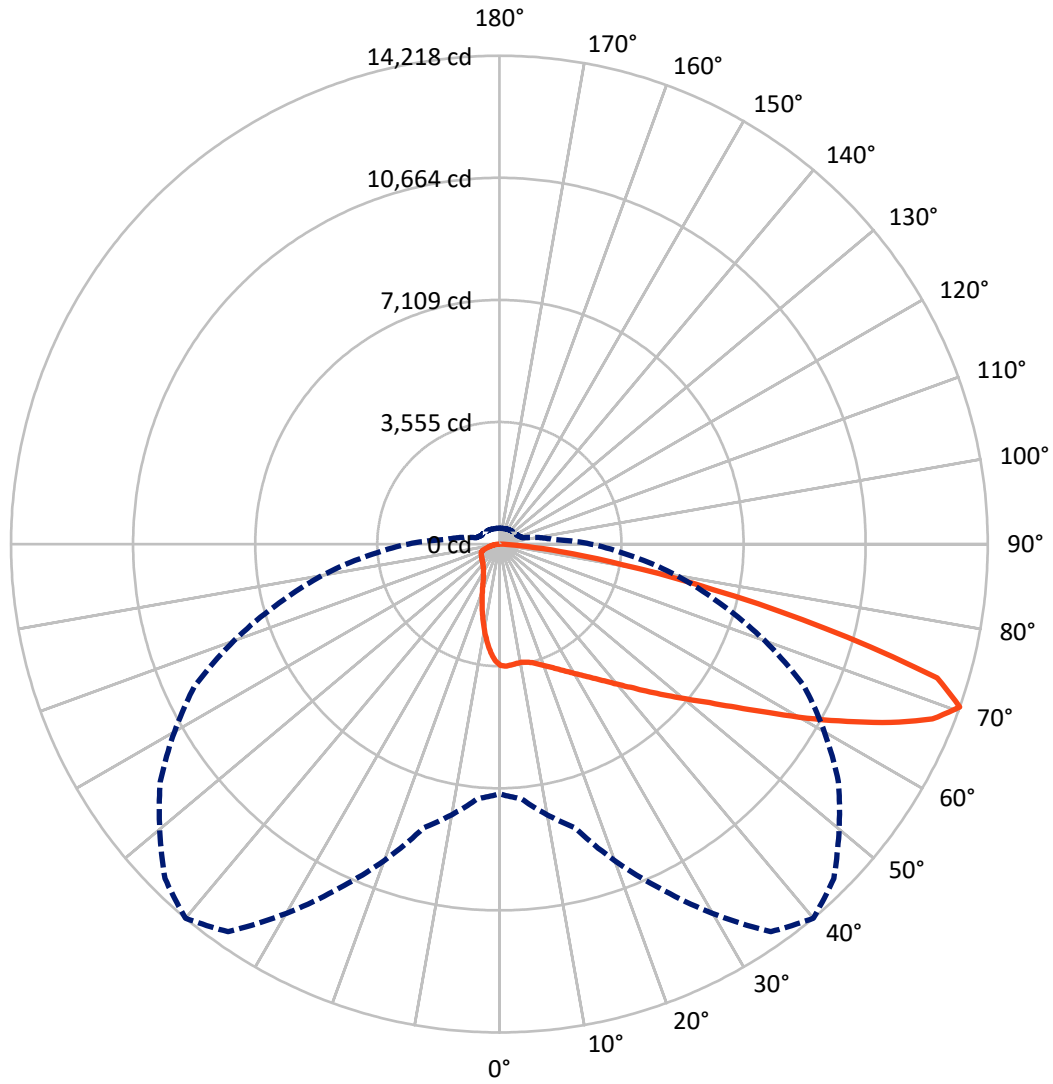
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3203.7	0.0	3203.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	17596.2	0.0	17596.2
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	20799.9	0.0	20799.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.0	1.5
10°-20°	813.3	3.9
20°-30°	1277.1	6.1
30°-40°	1920.1	9.2
40°-50°	2963.7	14.2
50°-60°	4401.4	21.2
60°-70°	5547.9	26.7
70°-80°	3208.3	15.4
80°-90°	356.1	1.7
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°	20799.9	100.0
0°-180°	20799.9	100.0

**Coefficient of Utilization**



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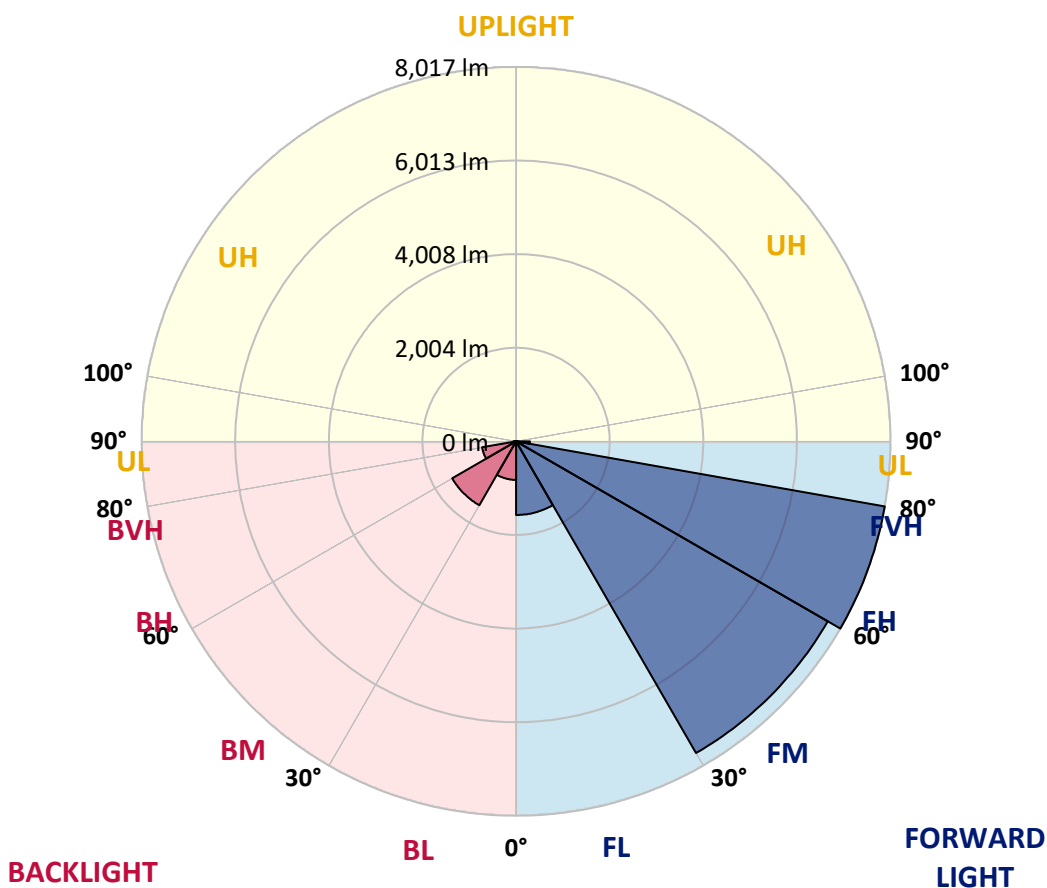
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.8	7.6			
FM (30°-60°)	7706.1	37.0			
FH (60°-80°)	8016.8	38.5			G4/12000
FVH (80°-90°)	296.5	1.4			G3/500
BL (0°-30°)	825.6	4.0	B2/1000		
BM (30°-60°)	1579.1	7.6	B2/2500		
BH (60°-80°)	739.4	3.6	B2/1000		G2/1000
BVH (80°-90°)	59.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1
2.5°	3553.8	3560.0	3564.7	3570.9	3567.8	3558.5	3566.2	3566.2	3549.1	3530.5	3513.4
5°	3558.5	3566.2	3564.7	3563.1	3550.7	3535.2	3535.2	3525.9	3496.4	3466.9	3438.9
7.5°	3549.1	3547.6	3546.0	3541.4	3527.4	3510.3	3507.2	3488.6	3449.8	3409.4	3369.0
10°	3507.2	3505.7	3510.3	3521.2	3518.1	3502.6	3502.6	3485.5	3440.5	3390.8	3338.0
12.5°	3473.1	3473.1	3491.7	3521.2	3532.1	3525.9	3527.4	3515.0	3463.7	3404.8	3342.6
15°	3477.7	3479.3	3519.6	3567.8	3588.0	3583.3	3584.8	3570.9	3513.4	3454.4	3370.6
17.5°	3508.8	3516.5	3586.4	3653.2	3679.6	3673.3	3662.5	3639.2	3574.0	3507.2	3404.8
20°	3574.0	3586.4	3676.4	3760.3	3791.3	3777.4	3758.7	3712.2	3640.7	3567.8	3442.0
22.5°	3702.8	3710.6	3810.0	3892.3	3917.1	3900.0	3862.8	3796.0	3713.7	3637.6	3487.0
25°	3884.5	3893.8	3988.5	4064.6	4058.4	4038.2	3987.0	3904.7	3806.9	3726.1	3552.2
27.5°	4100.3	4115.8	4209.0	4269.5	4229.2	4199.7	4142.2	4042.9	3932.6	3859.7	3651.6
30°	4336.3	4342.5	4421.7	4482.2	4420.1	4379.8	4309.9	4202.8	4103.4	4049.1	3800.7
32.5°	4564.5	4570.7	4639.0	4673.2	4608.0	4578.5	4517.9	4404.6	4334.7	4305.2	4022.7
35°	4805.2	4803.6	4859.5	4889.0	4822.2	4809.8	4747.7	4660.8	4648.3	4687.2	4347.2
37.5°	5045.8	5031.8	5061.3	5100.1	5062.9	5075.3	5034.9	5005.4	5053.6	5154.5	4778.8
40°	5238.3	5238.3	5269.4	5317.5	5329.9	5384.3	5361.0	5399.8	5555.0	5795.7	5312.8
42.5°	5409.1	5410.7	5475.9	5550.4	5640.4	5724.3	5742.9	5843.8	6165.2	6542.5	5983.5
45°	5587.6	5589.2	5677.7	5786.4	5977.3	6137.2	6174.5	6401.2	6860.7	7320.3	6711.7
47.5°	5794.1	5777.1	5899.7	6081.4	6353.1	6582.8	6679.1	7000.5	7581.1	8146.3	7397.9
50°	6027.0	5991.3	6127.9	6441.5	6776.9	7092.1	7253.5	7621.5	8354.3	8908.6	8043.8
52.5°	6289.4	6269.2	6412.1	6794.0	7306.3	7669.6	7888.5	8371.4	9105.7	9667.8	8556.1
55°	6615.4	6567.3	6773.8	7259.7	7927.3	8390.0	8649.3	9113.5	9927.0	10357.1	8947.4
57.5°	6972.5	6919.7	7196.1	7842.0	8734.7	9242.4	9566.8	9948.8	10700.2	10885.0	9177.1
60°	7357.6	7340.5	7668.1	8525.1	9697.3	10287.2	10521.7	10867.9	11372.5	11190.8	9119.7
62.5°	7710.0	7703.8	8180.4	9265.6	10717.3	11366.3	11552.6	11644.2	11856.9	11170.6	8663.3
65°	8081.0	8133.8	8778.1	10124.2	11886.4	12522.9	12600.5	12367.6	12019.9	10641.2	7728.6
67.5°	8127.6	8230.1	9153.9	10928.4	12994.9	13595.7	13533.6	12642.5	11538.6	9167.8	6058.1
70°	7269.1	7447.6	8554.6	11051.1	13775.8	14218.3	13769.6	12050.9	9792.0	6641.8	3810.0
72.5°	6073.6	6227.3	7205.4	9424.0	12768.2	13331.8	12724.7	10200.3	6919.7	3810.0	1940.7
75°	4727.5	4906.1	5808.1	7491.1	9559.1	9784.2	9479.9	7113.8	3803.8	1571.2	881.9
77.5°	2884.6	3013.5	3715.3	5075.3	6688.4	6351.5	5382.7	3988.5	1669.0	753.0	544.9
80°	1276.2	1355.4	1830.5	2726.3	3864.3	3653.2	2880.0	1703.2	912.9	478.2	380.4
82.5°	684.7	735.9	902.0	1079.0	1696.9	1774.6	1439.2	981.2	490.6	273.2	217.4
85°	301.2	330.7	409.9	391.2	557.4	548.1	552.7	673.8	234.4	125.8	141.3
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.1	90.0	23.3	37.3	32.6
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°	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1
2.5°	3494.8	3466.9	3459.1	3449.8	3432.7	3403.2	3381.5	3356.6	3345.8	3333.3	3334.9
5°	3407.9	3373.7	3341.1	3299.2	3246.4	3187.4	3147.0	3100.5	3075.6	3052.3	3058.5
7.5°	3333.3	3280.5	3213.8	3125.3	3030.6	2925.0	2839.6	2772.9	2727.8	2696.8	2712.3
10°	3286.8	3224.7	3108.2	2963.8	2803.9	2642.4	2519.8	2404.9	2333.5	2277.6	2274.5
12.5°	3277.4	3196.7	3027.5	2817.9	2586.6	2370.8	2190.7	2035.4	1940.7	1870.8	1897.2
15°	3286.8	3184.3	2957.6	2682.8	2390.9	2099.1	1875.5	1696.9	1583.6	1520.0	1515.3
17.5°	3297.6	3171.9	2878.4	2536.9	2186.0	1852.2	1592.9	1403.5	1287.1	1223.4	1225.0
20°	3306.9	3153.2	2785.3	2377.0	1978.0	1622.4	1353.8	1173.7	1069.7	1023.1	1030.9
22.5°	3322.5	3134.6	2685.9	2206.2	1765.3	1400.4	1164.4	1018.5	956.4	925.3	926.9
25°	3352.0	3123.7	2583.5	2019.9	1555.7	1223.4	1034.0	936.2	897.4	878.7	877.2
27.5°	3412.5	3133.1	2476.3	1839.8	1366.2	1088.3	950.2	886.5	860.1	847.7	846.1
30°	3513.4	3170.3	2383.2	1656.6	1203.2	982.8	892.7	853.9	838.4	827.5	826.0
32.5°	3667.1	3240.2	2282.3	1485.8	1071.3	905.1	847.7	827.5	816.6	810.4	810.4
35°	3900.0	3367.5	2182.9	1336.7	968.8	844.6	812.0	804.2	794.9	791.8	794.9
37.5°	4235.4	3570.9	2092.8	1206.3	895.8	798.0	773.2	776.3	768.5	773.2	777.8
40°	4660.8	3842.6	2016.8	1099.2	841.5	763.9	739.0	749.9	745.2	749.9	757.6
42.5°	5199.5	4179.5	1959.3	1015.4	802.7	735.9	712.6	723.5	720.4	726.6	734.4
45°	5800.3	4623.5	1932.9	956.4	774.7	715.7	690.9	698.6	695.5	700.2	708.0
47.5°	6376.3	5027.2	1956.2	922.2	751.4	698.6	672.3	675.4	673.8	672.3	676.9
50°	6873.2	5348.6	2023.0	911.3	735.9	681.6	656.7	658.3	653.6	644.3	647.4
52.5°	7278.4	5606.3	2063.3	911.3	728.1	662.9	639.7	641.2	631.9	619.5	621.0
55°	7545.4	5710.3	2030.7	909.8	725.0	647.4	622.6	624.1	614.8	599.3	600.8
57.5°	7621.5	5609.4	1894.1	892.7	721.9	635.0	605.5	608.6	602.4	585.3	585.3
60°	7408.8	5239.9	1644.2	853.9	714.2	627.2	593.1	597.7	594.6	577.6	577.6
62.5°	6851.4	4583.1	1346.1	794.9	692.4	617.9	582.2	591.5	599.3	590.0	588.4
65°	5808.1	3671.8	1094.6	729.7	664.5	602.4	566.7	590.0	607.0	619.5	619.5
67.5°	4358.0	2628.5	892.7	661.4	622.6	571.3	546.5	568.2	580.7	588.4	593.1
70°	2656.4	1546.3	703.3	582.2	562.0	524.8	506.1	484.4	467.3	464.2	465.8
72.5°	1299.5	885.0	571.3	495.3	479.7	445.6	403.7	394.3	386.6	381.9	380.4
75°	715.7	616.4	472.0	411.4	383.5	341.6	332.2	316.7	313.6	307.4	309.0
77.5°	506.1	485.9	389.7	333.8	291.9	270.1	274.8	263.9	263.9	259.3	257.7
80°	380.4	381.9	299.6	243.8	215.8	208.0	212.7	212.7	209.6	208.0	206.5
82.5°	240.6	271.7	201.8	156.8	153.7	155.3	153.7	152.2	155.3	150.6	149.0
85°	166.1	195.6	122.7	93.2	93.2	91.6	94.7	93.2	96.3	91.6	91.6
87.5°	37.3	86.9	45.0	27.9	29.5	27.9	29.5	31.1	34.2	35.7	35.7
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)