

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: P643347

Luminaire Tested: GWS-SA6E-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643347  
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-SA6E-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

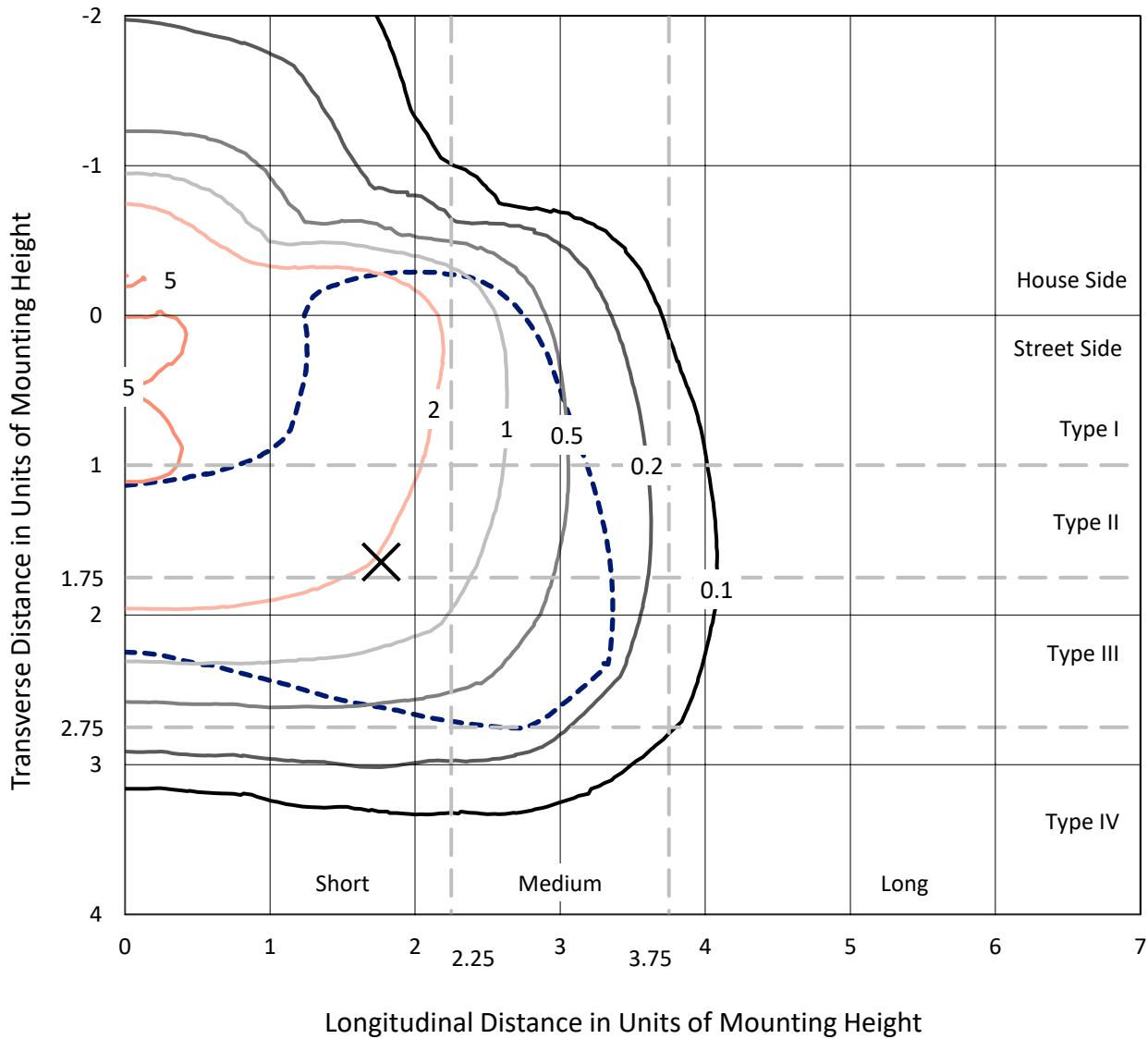
Lumens per Lamp: N/A  
Luminaire Lumens: 44775.9 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

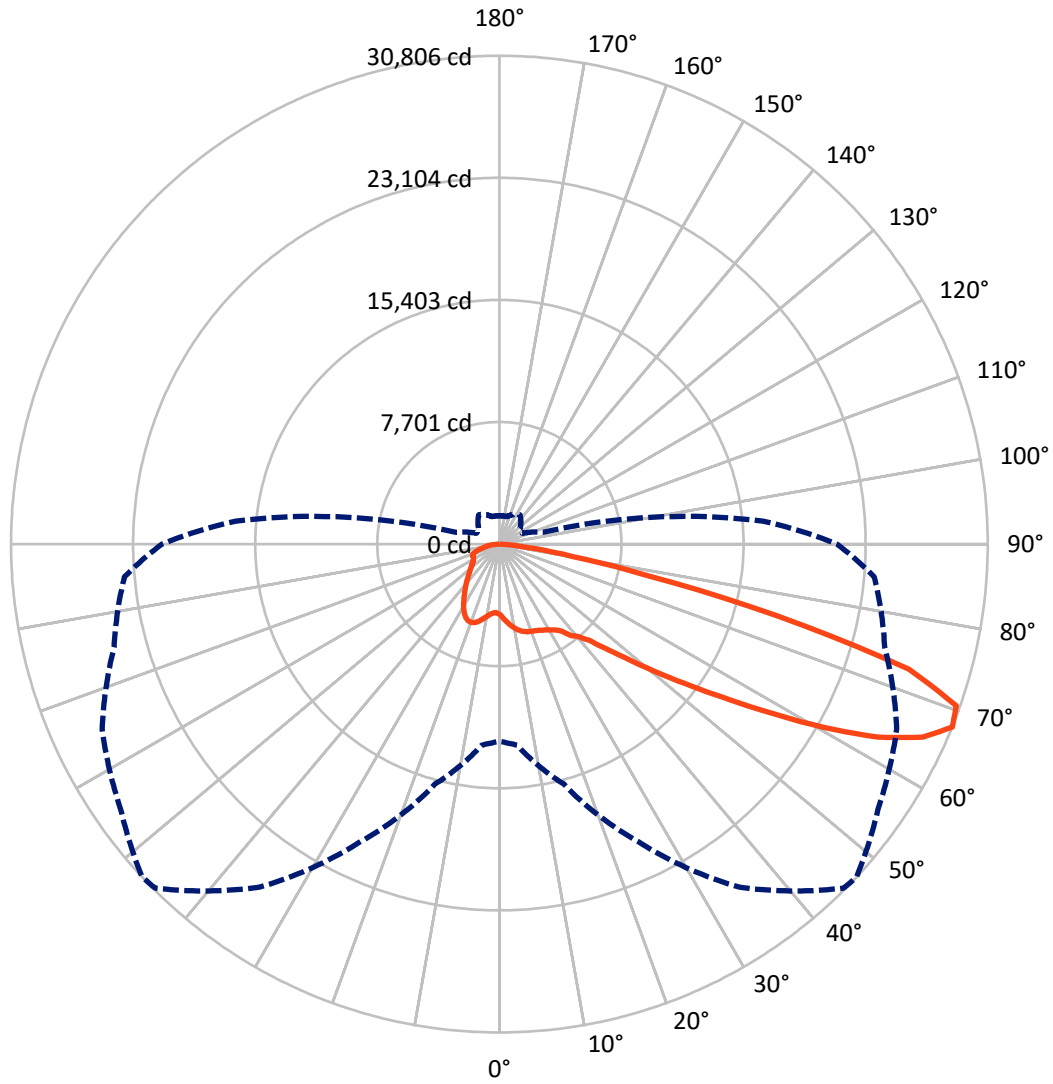
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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
<b>House Side</b>	Lumens	10204.8	0.0	10204.8
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	34571.1	0.0	34571.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	44775.9	0.0	44775.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.6	1.0
10°-20°	1511.4	3.4
20°-30°	2568.9	5.7
30°-40°	3763.2	8.4
40°-50°	5733.7	12.8
50°-60°	10258.8	22.9
60°-70°	13689.2	30.6
70°-80°	6190.6	13.8
80°-90°	606.5	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°	44775.9	100.0
0°-180°	44775.9	100.0

**Coefficient of Utilization**



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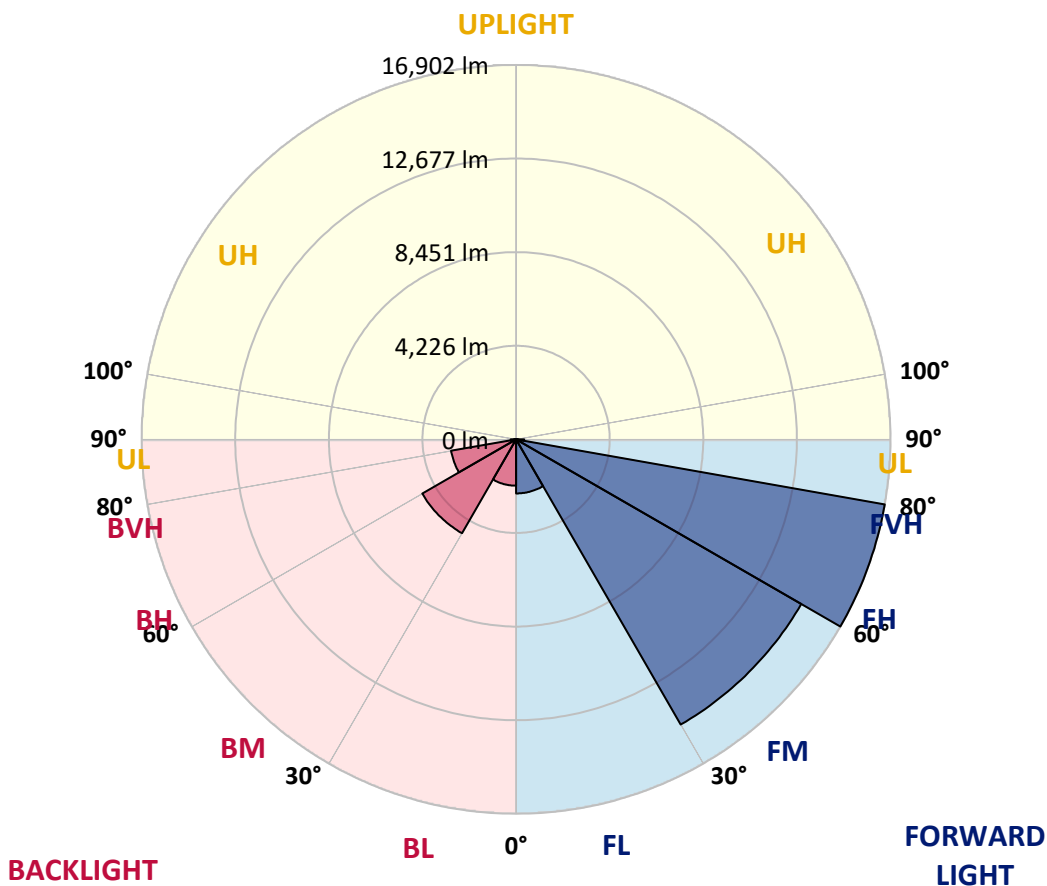
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2441.9	5.5			
FM (30°-60°)	14866.1	33.2			
FH (60°-80°)	16902.4	37.7			G5
FVH (80°-90°)	360.8	0.8			G3/500
BL (0°-30°)	2092.0	4.7	B3/2500		
BM (30°-60°)	4889.6	10.9	B3/5000		
BH (60°-80°)	2977.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	245.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		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°	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7
2.5°	4733.3	4749.5	4746.3	4720.4	4704.2	4675.1	4678.3	4633.0	4565.0	4519.6	4467.8
5°	5151.0	5176.9	5144.5	5102.4	5037.7	4943.8	4934.1	4830.5	4701.0	4610.3	4516.4
7.5°	5513.6	5529.8	5490.9	5419.7	5325.8	5199.5	5176.9	5053.8	4892.0	4749.5	4613.5
10°	5795.3	5814.7	5762.9	5669.0	5546.0	5419.7	5403.5	5277.2	5105.6	4937.3	4765.7
12.5°	6034.8	6041.3	5986.3	5860.0	5727.3	5597.8	5581.6	5465.0	5306.4	5134.8	4947.0
15°	6174.0	6177.3	6109.3	5970.1	5843.8	5730.5	5720.8	5620.4	5474.7	5312.9	5112.1
17.5°	6164.3	6170.8	6122.2	5999.2	5889.1	5821.2	5811.4	5746.7	5633.4	5487.7	5287.0
20°	6044.5	6051.0	6018.6	5937.7	5879.4	5860.0	5863.2	5843.8	5775.8	5656.0	5452.1
22.5°	5950.7	5960.4	5931.2	5873.0	5866.5	5911.8	5921.5	5931.2	5898.9	5792.0	5594.5
25°	5996.0	6012.2	5966.8	5885.9	5898.9	5999.2	6018.6	6051.0	6025.1	5934.5	5762.9
27.5°	6310.0	6319.7	6203.2	6038.1	5999.2	6106.1	6135.2	6187.0	6167.6	6083.4	5950.7
30°	7038.5	7032.0	6782.7	6378.0	6216.1	6258.2	6280.9	6355.4	6361.8	6306.8	6180.5
32.5°	8064.8	8032.4	7647.1	7002.9	6533.4	6429.8	6455.7	6556.1	6630.5	6572.3	6400.7
35°	9149.4	9120.2	8696.1	7941.8	7119.4	6760.0	6730.9	6808.6	6921.9	6760.0	6514.0
37.5°	10182.2	10136.8	9703.0	8770.6	7841.4	7339.6	7297.5	7219.8	7151.8	6841.0	6653.2
40°	11328.3	11276.5	10897.7	9842.2	8637.8	7783.1	7676.3	7368.7	7307.2	7109.7	7015.8
42.5°	12552.1	12552.1	12238.0	11198.8	9599.4	8417.7	8278.5	7815.5	7880.2	7750.7	7640.7
45°	13775.9	13811.5	13562.2	12565.0	10884.7	9615.6	9392.2	8735.0	8890.4	8832.1	8777.1
47.5°	14818.4	14886.3	14837.8	13960.4	12458.2	11072.5	10732.5	10049.4	10382.9	10522.1	10677.5
50°	15941.8	16016.3	15967.7	15621.3	14300.3	12837.0	12532.6	11826.8	12399.9	12817.5	13325.8
52.5°	17609.1	17716.0	17311.3	17178.5	16537.5	14841.0	14569.1	13766.1	14805.4	15498.2	16631.4
55°	19017.5	19014.2	18871.8	19176.1	18939.8	17291.9	16990.8	16262.3	17589.7	18324.6	19982.3
57.5°	19671.5	19749.2	20238.1	21099.2	21571.9	20286.6	19998.5	19253.8	20578.0	20960.0	22750.4
60°	20008.2	20105.3	21050.7	22753.6	24026.0	23556.6	23443.2	22494.6	23239.3	23194.0	25084.7
62.5°	19535.5	19729.8	21248.2	23511.2	25777.5	26842.7	26807.1	25372.8	25502.3	25058.8	26531.9
65°	17366.3	17576.8	19959.6	23132.4	26777.9	29342.1	29351.8	27979.1	27240.9	25965.3	26289.1
67.5°	12419.3	12720.4	15666.6	20697.8	26425.0	30692.2	30805.5	29160.8	27648.8	25162.4	23737.9
70°	6769.8	6989.9	9298.3	15045.0	23245.8	30368.4	30578.9	28591.0	25848.8	21766.2	18272.8
72.5°	3075.7	3146.9	4325.4	8255.8	15880.3	26140.1	27020.8	25515.3	21228.7	16077.8	11619.6
75°	1408.3	1440.7	1884.3	3949.8	8297.9	17492.6	18111.0	19004.5	14773.0	10153.0	6057.5
77.5°	883.9	893.6	1071.6	1806.6	4137.6	8731.7	9382.5	11315.3	8650.8	5024.7	2531.8
80°	521.2	531.0	666.9	977.7	1942.5	3995.2	4613.5	4474.3	4066.4	2169.2	1152.6
82.5°	262.2	272.0	385.3	556.9	1058.7	1589.6	1871.3	1881.0	1515.2	1175.2	650.8
85°	93.9	97.1	126.3	220.2	450.0	524.5	586.0	715.5	741.4	683.1	314.0
87.5°	0.0	0.0	3.2	6.5	13.0	51.8	55.0	103.6	216.9	242.8	126.3
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°	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7
2.5°	4451.7	4403.1	4386.9	4370.7	4344.8	4335.1	4315.7	4296.3	4296.3	4276.8	4267.1
5°	4474.3	4409.6	4367.5	4348.1	4331.9	4341.6	4341.6	4348.1	4370.7	4357.8	4364.2
7.5°	4555.3	4480.8	4422.5	4406.3	4406.3	4445.2	4471.1	4503.5	4545.5	4552.0	4552.0
10°	4697.7	4610.3	4548.8	4539.1	4555.3	4610.3	4649.2	4688.0	4739.8	4743.0	4749.5
12.5°	4853.1	4765.7	4704.2	4717.1	4733.3	4804.6	4846.6	4879.0	4930.8	4930.8	4927.6
15°	5015.0	4917.9	4866.1	4892.0	4940.5	5021.5	5027.9	5031.2	5057.1	5050.6	5047.4
17.5°	5183.3	5079.7	5040.9	5079.7	5131.5	5170.4	5138.0	5092.7	5083.0	5070.0	5063.6
20°	5348.5	5241.6	5225.4	5254.6	5270.8	5238.4	5138.0	5053.8	5015.0	4995.6	4989.1
22.5°	5490.9	5400.3	5390.6	5390.6	5309.6	5196.3	5047.4	4934.1	4882.3	4856.4	4849.9
25°	5659.3	5575.1	5558.9	5471.5	5264.3	5057.1	4856.4	4752.8	4710.7	4697.7	4701.0
27.5°	5856.8	5798.5	5746.7	5497.4	5134.8	4811.0	4584.4	4539.1	4522.9	4539.1	4548.8
30°	6099.6	6041.3	5924.8	5465.0	4927.6	4490.5	4273.6	4270.4	4318.9	4361.0	4367.5
32.5°	6297.1	6271.2	6080.2	5361.4	4636.2	4137.6	3953.1	3966.0	4053.4	4111.7	4121.4
35°	6452.5	6494.6	6209.7	5189.8	4289.8	3804.1	3658.5	3664.9	3713.5	3794.4	3797.7
37.5°	6672.6	6815.1	6326.2	4927.6	3891.6	3516.0	3383.3	3334.7	3328.2	3350.9	3357.4
40°	7116.2	7329.9	6410.4	4545.5	3506.3	3257.0	3108.1	3014.2	2933.2	2871.7	2852.3
42.5°	7786.4	8032.4	6459.0	4082.6	3163.1	3001.2	2832.9	2713.1	2570.6	2441.1	2395.8
45°	9016.6	9097.6	6459.0	3590.5	2858.8	2761.6	2593.3	2450.8	2269.5	2117.4	2085.0
47.5°	10985.1	10726.1	6465.4	3114.5	2590.1	2551.2	2405.5	2243.6	2042.9	1916.6	1897.2
50°	13950.7	13040.9	6598.2	2719.6	2366.7	2373.1	2266.3	2088.2	1906.9	1813.0	1796.9
52.5°	17311.3	15893.2	6954.3	2428.2	2178.9	2227.4	2169.2	1997.6	1835.7	1754.8	1738.6
55°	20471.2	18515.7	7258.6	2221.0	2020.2	2104.4	2101.2	1942.5	1796.9	1715.9	1706.2
57.5°	23158.3	20312.5	7213.3	2052.6	1884.3	1991.1	2039.7	1906.9	1771.0	1703.0	1693.2
60°	24828.9	21264.4	6569.0	1897.2	1780.7	1910.2	2004.1	1897.2	1783.9	1767.7	1771.0
62.5°	25554.1	21089.5	5332.3	1780.7	1712.7	1871.3	2042.9	1965.2	1903.7	1942.5	1965.2
65°	24427.5	19587.3	3923.9	1693.2	1647.9	1881.0	2133.6	2072.0	1903.7	1929.6	1939.3
67.5°	21300.0	16673.5	2836.1	1605.8	1567.0	1910.2	2263.1	2055.9	1793.6	1793.6	1774.2
70°	15349.3	11992.0	2059.1	1518.4	1486.0	1868.1	2269.5	1945.8	1667.3	1657.6	1609.1
72.5°	9236.8	7074.1	1605.8	1421.3	1363.0	1657.6	2127.1	1816.3	1544.3	1463.4	1405.1
75°	4798.1	3545.1	1346.8	1314.5	1168.8	1405.1	1945.8	1615.5	1320.9	1249.7	1217.3
77.5°	2055.9	1657.6	1155.8	1172.0	971.3	1181.7	1570.2	1398.6	1172.0	1081.3	1052.2
80°	1013.4	942.1	913.0	938.9	777.0	913.0	1353.3	1223.8	993.9	890.3	848.2
82.5°	579.5	550.4	657.2	666.9	553.6	764.1	1142.9	1036.0	822.3	709.0	641.0
85°	268.7	288.1	398.2	401.5	343.2	524.5	747.9	582.8	437.1	362.6	346.4
87.5°	106.8	126.3	174.8	171.6	100.4	97.1	64.8	35.6	29.1	25.9	22.7
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)