

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: P643724

Luminaire Tested: GWS-SA6F-740-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-740-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

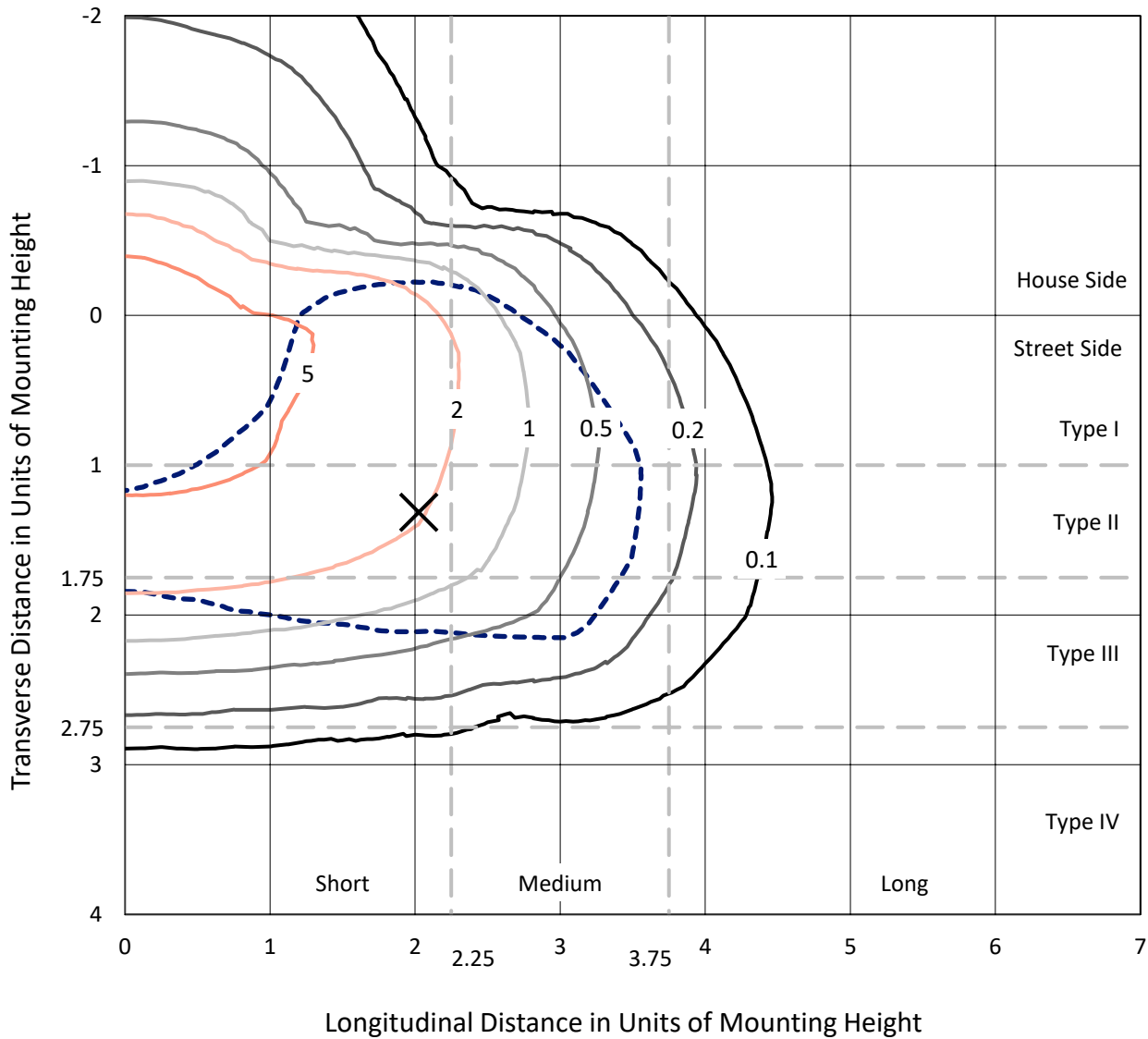
Lumens per Lamp: N/A  
Luminaire Lumens: 49803.9 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

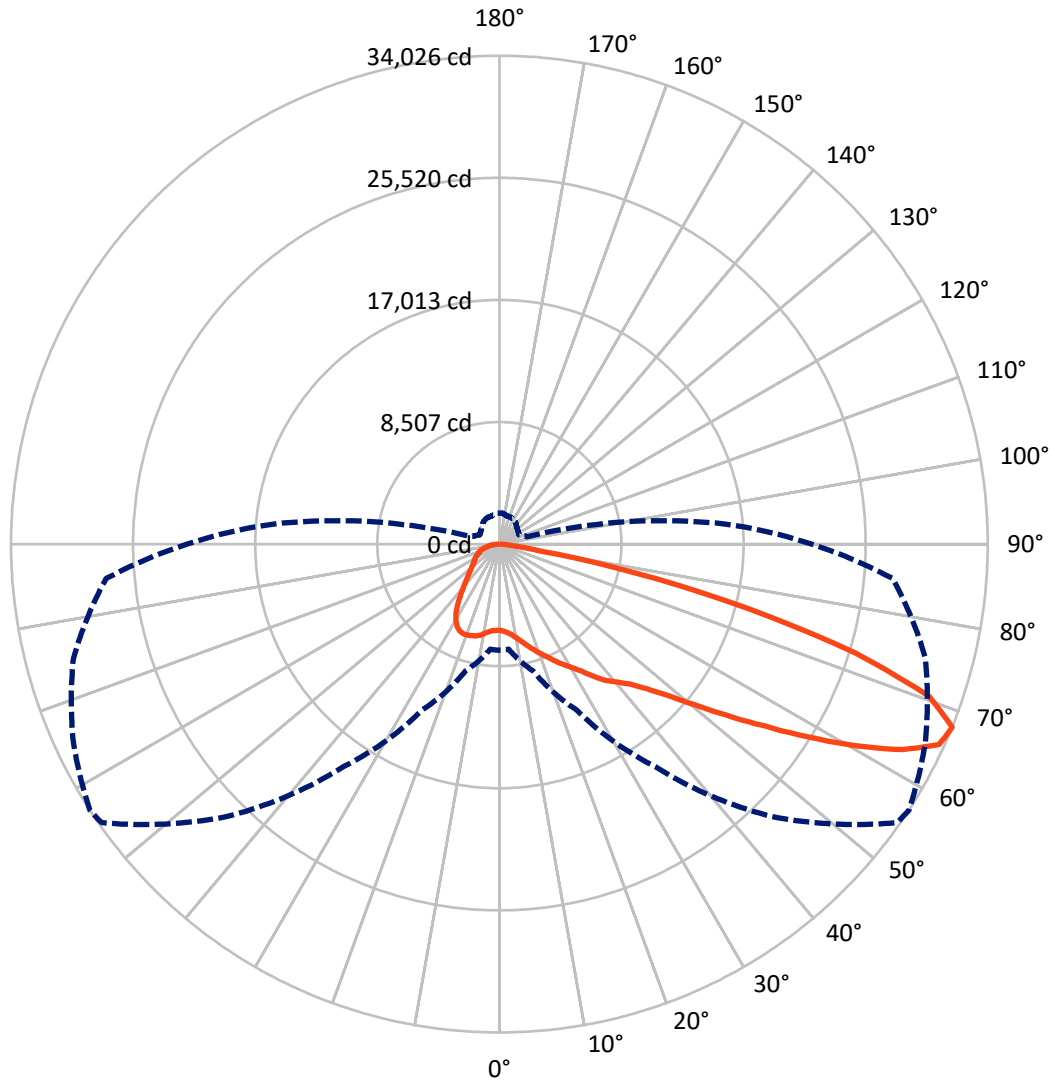
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10950.0	0.0	10950.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	38853.9	0.0	38853.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	49803.9	0.0	49803.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.2	1.2
10°-20°	1970.3	4.0
20°-30°	3512.7	7.1
30°-40°	5107.1	10.3
40°-50°	7391.7	14.8
50°-60°	11567.7	23.2
60°-70°	13494.5	27.1
70°-80°	5633.2	11.3
80°-90°	531.6	1.1
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°	49803.9	100.0
0°-180°	49803.9	100.0

**Coefficient of Utilization**



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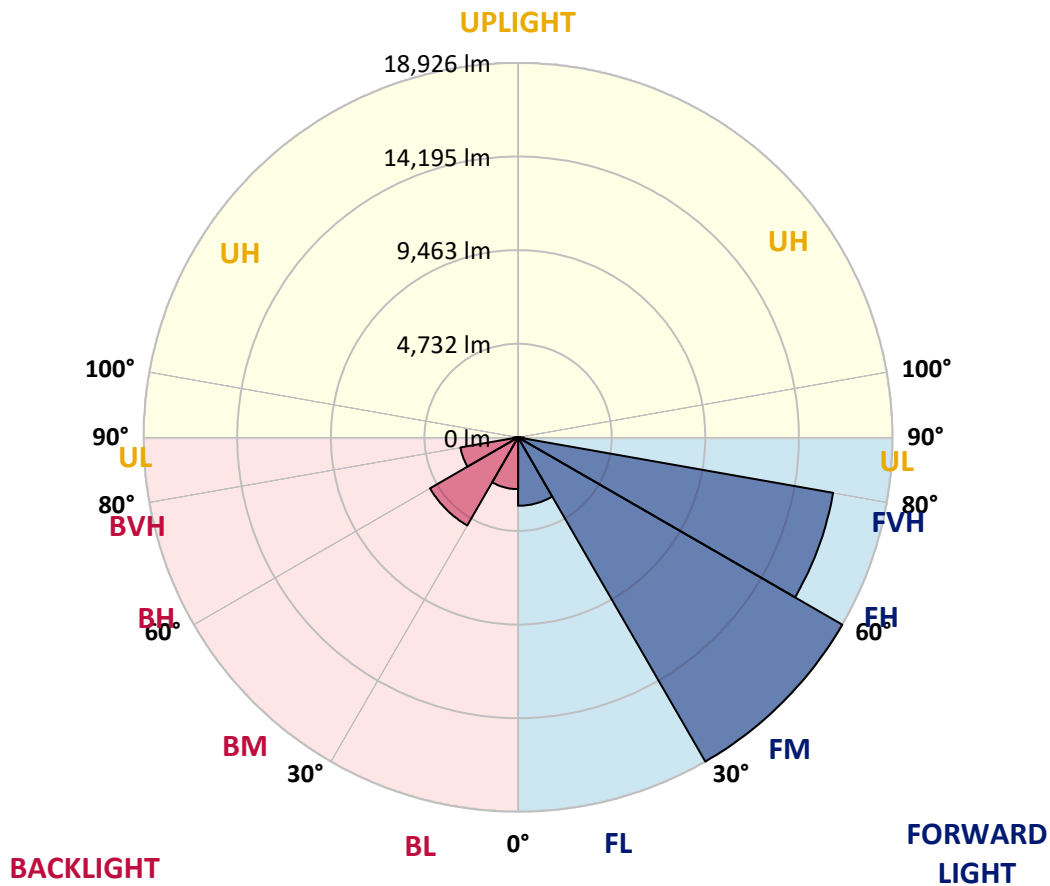
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3459.4	6.9			
FM (30°-60°)	18926.2	38.0			
FH (60°-80°)	16172.2	32.5			G5
FVH (80°-90°)	296.2	0.6			G3/500
BL (0°-30°)	2618.9	5.3	B4/5000		
BM (30°-60°)	5140.2	10.3	B4/8500		
BH (60°-80°)	2955.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	235.4	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°	55°	57°	65°	75°	85°
0°	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0
2.5°	6086.7	6079.5	6076.0	6097.4	6090.2	6086.7	6086.7	6083.1	6076.0	6047.4	6008.2
5°	6254.3	6240.1	6225.8	6243.6	6229.4	6215.1	6211.5	6204.4	6179.4	6136.6	6076.0
7.5°	6429.2	6414.9	6418.5	6429.2	6418.5	6411.3	6400.6	6393.5	6354.2	6286.5	6204.4
10°	6675.3	6675.3	6682.5	6693.2	6696.8	6686.0	6664.6	6653.9	6607.6	6521.9	6407.8
12.5°	7032.1	7025.0	7025.0	7017.9	7028.6	7017.9	6996.4	6978.6	6921.5	6810.9	6646.8
15°	7503.1	7474.5	7449.6	7403.2	7388.9	7349.7	7356.8	7346.1	7292.6	7142.7	6935.8
17.5°	8006.1	8002.6	7963.3	7870.6	7777.8	7713.6	7727.8	7724.3	7695.7	7492.4	7228.4
20°	8448.5	8466.4	8430.7	8359.3	8234.5	8113.2	8106.0	8123.9	8088.2	7884.8	7517.3
22.5°	8944.5	8930.2	8894.5	8801.7	8709.0	8580.5	8537.7	8523.5	8509.2	8277.3	7813.5
25°	9415.4	9458.2	9411.8	9326.2	9183.5	9044.4	9008.7	9023.0	8983.7	8676.9	8131.0
27.5°	10011.2	10029.1	10000.5	9882.8	9761.5	9565.3	9497.5	9497.5	9483.2	9051.5	8380.8
30°	10646.3	10696.2	10646.3	10550.0	10425.1	10143.2	9997.0	9982.7	9939.9	9436.8	8673.3
32.5°	11284.9	11320.6	11284.9	11192.2	11049.5	10803.3	10592.8	10560.7	10503.6	9857.8	8973.0
35°	11852.2	11884.3	11877.2	11898.6	11780.9	11470.5	11342.0	11327.7	11177.9	10407.3	9379.7
37.5°	12473.0	12512.3	12458.7	12501.6	12455.2	12162.6	12123.4	12052.0	11837.9	10924.6	9807.9
40°	13179.4	13215.1	13129.5	13147.3	13093.8	12929.7	12729.9	12633.6	12316.0	11484.7	10482.2
42.5°	13935.8	14017.9	14057.1	14025.0	13900.1	13807.4	13457.7	13336.4	13072.4	12494.4	11591.8
45°	15031.1	15152.4	15209.5	15127.4	15073.9	14941.9	14513.8	14367.5	14228.4	13918.0	13140.2
47.5°	16212.1	16322.7	16504.6	16540.3	16583.1	16483.2	15880.3	15737.5	15762.5	15726.8	15045.4
50°	17154.0	17246.7	17657.0	18095.9	18459.8	18488.3	17717.7	17564.3	17699.8	17814.0	17339.5
52.5°	17839.0	17921.0	18463.3	19369.6	20193.7	20803.8	19972.5	19797.7	19908.3	20165.2	19947.5
55°	18395.6	18509.7	19077.0	20468.4	22134.6	23097.9	22566.3	22345.1	22298.7	22616.3	22741.1
57.5°	18688.1	18723.8	19519.4	21328.3	23558.1	25349.2	25581.1	25331.3	24888.9	25063.8	25713.1
60°	18020.9	18081.6	19169.8	21549.5	24682.0	27582.6	28745.7	28538.8	27596.9	27693.2	28410.4
62.5°	16176.4	16262.0	17571.4	20497.0	24774.8	29074.0	31667.7	31535.7	30272.7	29751.8	29965.9
65°	12976.1	13004.6	14360.4	17892.5	22930.2	29259.5	33705.0	33672.8	32142.3	30922.1	30005.2
67.5°	7399.6	7349.7	9162.1	12762.0	18923.6	26847.7	33837.0	34026.1	32748.8	30729.4	27507.7
70°	3207.4	3214.6	4049.4	6297.2	12248.2	21699.3	31428.7	31753.4	30993.4	27522.0	21884.9
72.5°	1484.2	1505.6	1866.0	2725.8	5230.4	13461.3	25627.5	25920.0	25267.1	22027.6	15923.1
75°	1048.9	1066.8	1245.2	1562.7	2404.7	5244.7	17143.3	17756.9	18074.4	16476.1	10492.9
77.5°	795.6	820.6	909.8	1084.6	1484.2	1858.8	8202.4	9665.2	11513.3	10250.3	5405.2
80°	506.6	506.6	603.0	724.3	906.2	966.9	2369.0	2807.9	5633.5	4224.3	2122.8
82.5°	342.5	353.2	410.3	460.2	520.9	549.4	1016.8	1084.6	1626.9	1437.8	874.1
85°	182.0	189.1	214.1	210.5	249.7	217.6	428.1	424.6	595.8	652.9	331.8
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	46.4	49.9	124.9	199.8	110.6
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°	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0	6001.0
2.5°	6029.6	5986.8	6008.2	6001.0	6022.4	6022.4	5983.2	5972.5	5976.1	5933.2	5919.0
5°	6083.1	6033.1	6043.8	6029.6	6051.0	6068.8	6051.0	6051.0	6072.4	6040.3	6022.4
7.5°	6204.4	6147.3	6147.3	6129.5	6154.4	6168.7	6154.4	6175.9	6215.1	6183.0	6165.1
10°	6397.1	6329.3	6332.8	6311.4	6322.1	6315.0	6257.9	6240.1	6250.8	6222.2	6208.0
12.5°	6646.8	6554.0	6554.0	6511.2	6486.3	6411.3	6293.6	6250.8	6257.9	6232.9	6222.2
15°	6885.8	6800.2	6782.4	6696.8	6582.6	6443.4	6336.4	6307.9	6315.0	6290.0	6272.2
17.5°	7167.7	7057.1	6992.9	6835.9	6625.4	6482.7	6375.6	6307.9	6250.8	6193.7	6179.4
20°	7428.1	7289.0	7171.3	6928.7	6671.8	6475.5	6275.8	6108.1	5968.9	5894.0	5876.2
22.5°	7695.7	7517.3	7310.4	6992.9	6668.2	6347.1	5979.6	5726.3	5519.4	5408.8	5430.2
25°	7949.0	7724.3	7442.4	7053.5	6554.0	6061.7	5562.2	5184.0	4948.5	4862.9	4837.9
27.5°	8159.5	7881.3	7563.7	7025.0	6318.6	5651.4	4991.3	4570.3	4342.0	4245.7	4220.7
30°	8395.0	8081.1	7738.5	6893.0	5947.5	5077.0	4345.6	4003.1	3838.9	3746.2	3749.8
32.5°	8666.2	8337.9	7984.7	6639.7	5473.0	4456.2	3814.0	3578.5	3446.5	3353.7	3339.5
35°	9030.1	8705.4	8148.8	6257.9	4870.0	3885.3	3450.1	3257.4	3093.3	2972.0	2947.0
37.5°	9479.6	9258.4	8166.7	5747.7	4224.3	3492.9	3189.6	2982.7	2782.9	2622.3	2604.5
40°	10250.3	9997.0	8020.4	5109.1	3674.8	3239.6	2972.0	2732.9	2501.0	2322.6	2297.7
42.5°	11349.2	10828.3	7706.4	4388.4	3261.0	3039.8	2765.0	2461.8	2226.3	2101.4	2083.6
45°	12747.7	11755.9	7235.5	3710.5	2954.1	2843.5	2547.4	2229.9	2105.0	2015.8	1998.0
47.5°	14460.3	12836.9	6693.2	3182.5	2715.1	2665.1	2326.2	2151.4	2040.8	1965.9	1948.0
50°	16508.2	14214.1	6247.2	2768.6	2501.0	2458.2	2254.8	2105.0	2015.8	1955.2	1940.9
52.5°	18845.1	15744.7	6029.6	2472.5	2315.5	2272.7	2229.9	2094.3	2019.4	1973.0	1955.2
55°	21271.2	17357.3	5826.2	2244.1	2158.5	2183.5	2233.4	2130.0	2072.9	2012.2	1994.4
57.5°	23615.2	18870.1	5326.7	2065.8	2044.3	2140.7	2251.3	2165.7	2097.9	2037.2	2015.8
60°	25231.4	19697.8	4481.2	1923.0	1958.7	2087.2	2204.9	2112.1	2026.5	2001.5	1990.8
62.5°	25666.7	19597.9	3478.6	1776.8	1855.3	1969.4	2083.6	2022.9	1933.7	1973.0	1976.6
65°	24649.9	18527.6	2611.6	1634.1	1719.7	1816.0	1958.7	1933.7	1901.6	2008.7	2012.2
67.5°	21770.7	15898.1	1990.8	1509.2	1580.5	1698.3	1919.5	2022.9	2030.1	2165.7	2151.4
70°	16472.5	11877.2	1559.1	1391.4	1473.5	1698.3	2044.3	2090.7	2005.1	2130.0	2101.4
72.5°	11388.4	7838.4	1327.2	1288.0	1341.5	1619.8	2040.8	2040.8	1948.0	1948.0	1894.5
75°	7074.9	4609.6	1156.0	1156.0	1156.0	1416.4	1983.7	1880.2	1716.1	1641.2	1598.4
77.5°	3492.9	2240.6	970.4	1006.1	966.9	1184.5	1619.8	1537.7	1437.8	1359.3	1330.8
80°	1491.3	1120.3	784.9	824.2	777.8	891.9	1284.4	1266.6	1170.2	1066.8	1034.7
82.5°	685.0	578.0	627.9	645.8	567.3	670.7	938.3	938.3	884.8	742.1	688.6
85°	292.6	306.8	435.3	435.3	356.8	378.2	503.1	478.1	428.1	349.6	321.1
87.5°	99.9	149.8	221.2	192.7	74.9	32.1	17.8	7.1	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)