

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: P643229

Luminaire Tested: GWS-SA6E-740-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643229  
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-SAGE-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**

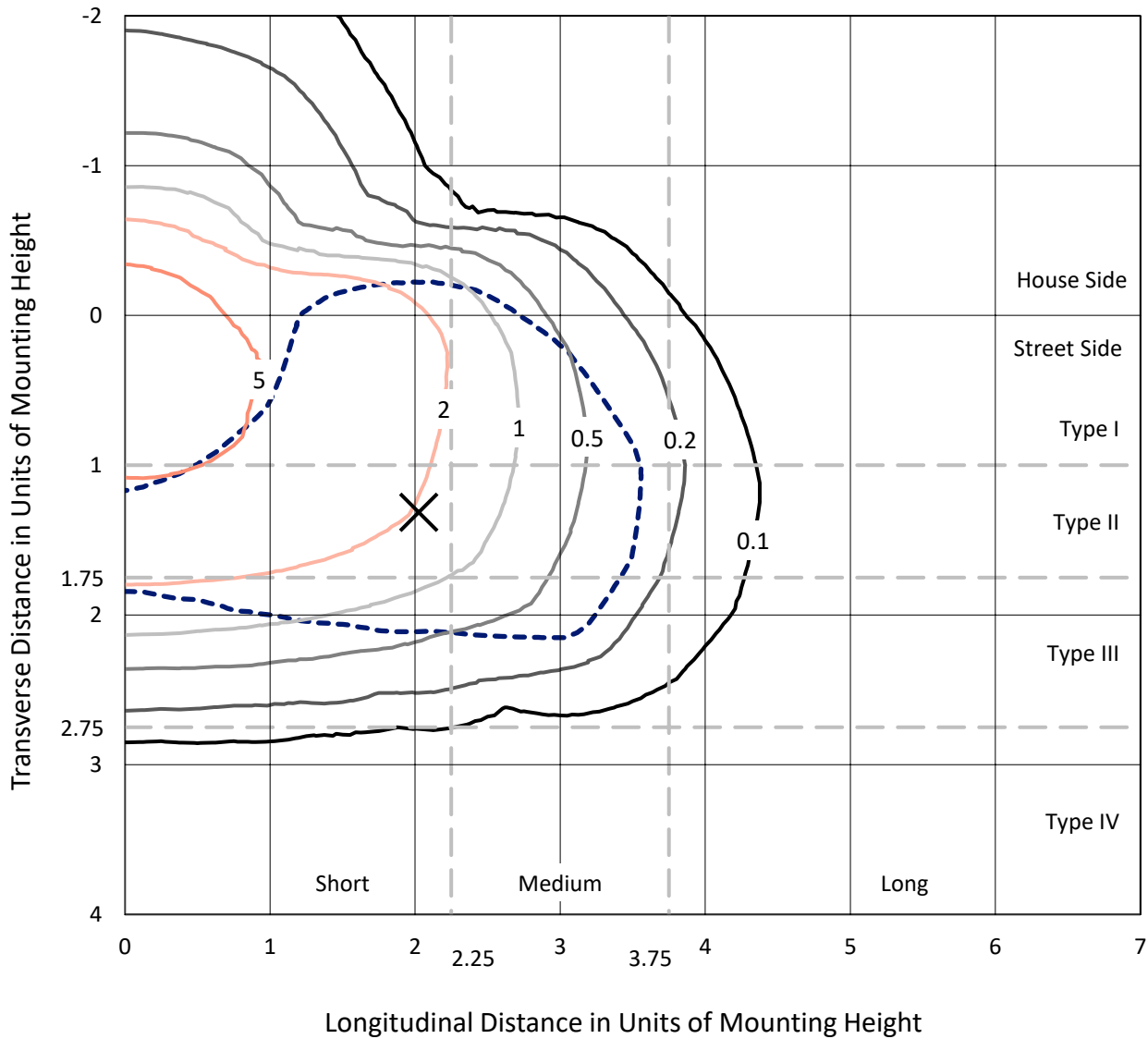
Lumens per Lamp: N/A  
Luminaire Lumens: 44795 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

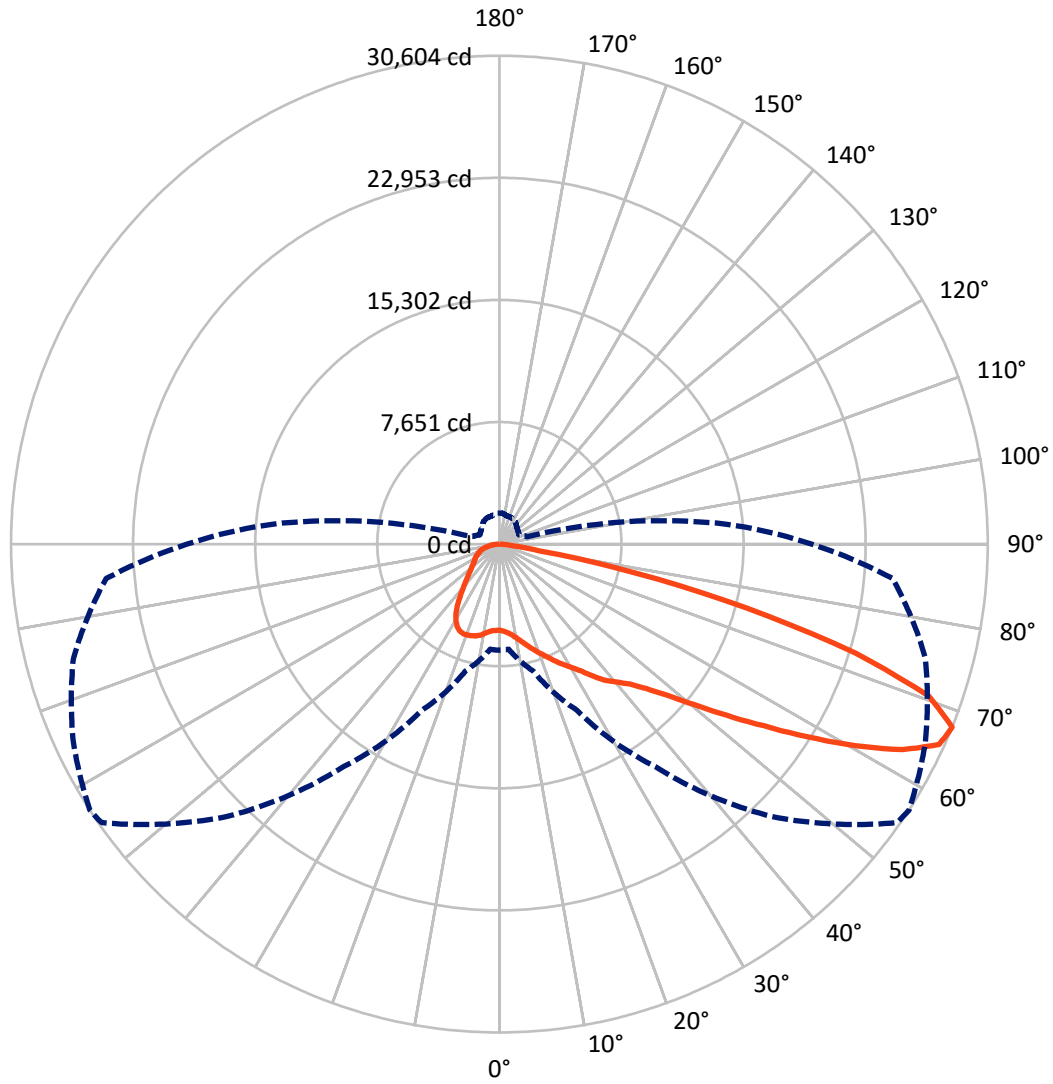
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	9848.7	0.0	9848.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	34946.3	0.0	34946.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	44795.0	0.0	44795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.3	1.2
10°-20°	1772.2	4.0
20°-30°	3159.5	7.1
30°-40°	4593.4	10.3
40°-50°	6648.3	14.8
50°-60°	10404.3	23.2
60°-70°	12137.3	27.1
70°-80°	5066.6	11.3
80°-90°	478.1	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°	44795.0	100.0
0°-180°	44795.0	100.0

**Coefficient of Utilization**



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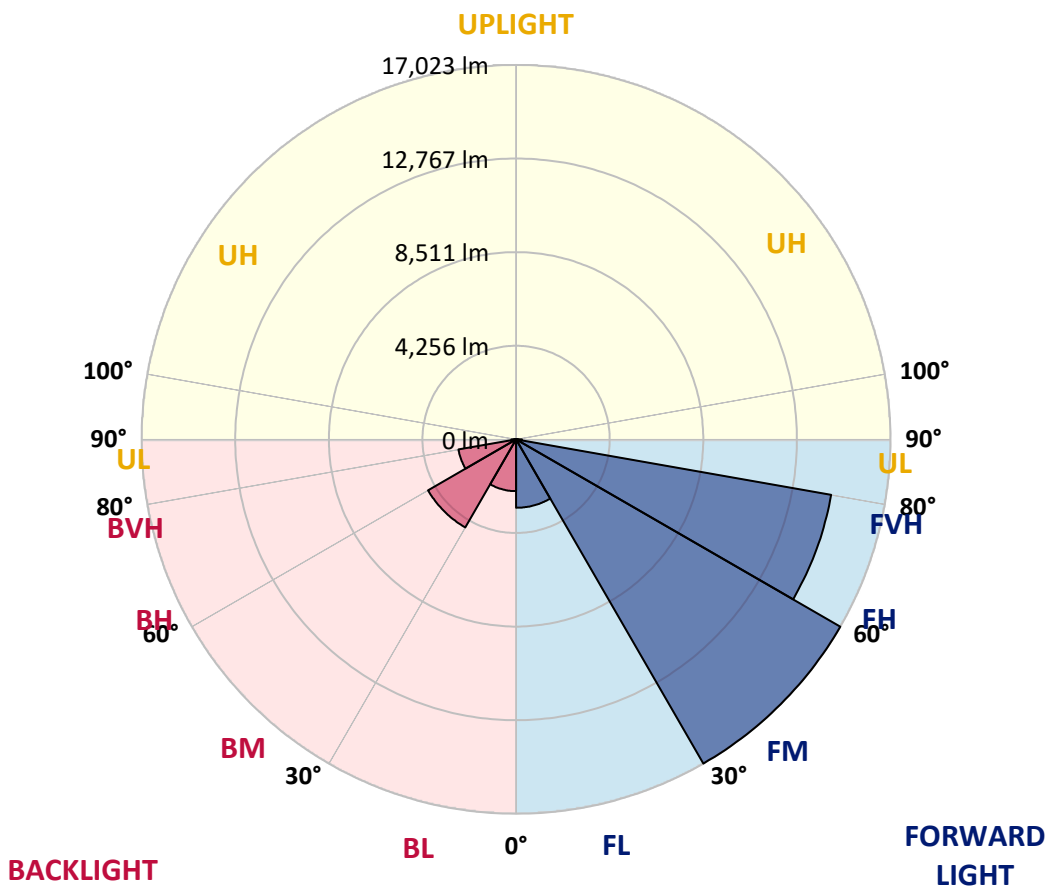
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3111.5	6.9			
FM (30°-60°)	17022.7	38.0			
FH (60°-80°)	14545.7	32.5			G5
FVH (80°-90°)	266.4	0.6			G3/500
BL (0°-30°)	2355.5	5.3	B3/2500		
BM (30°-60°)	4623.3	10.3	B3/5000		
BH (60°-80°)	2658.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	211.8	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5474.5	5468.1	5464.9	5484.1	5477.7	5474.5	5474.5	5471.3	5464.9	5439.2	5403.9
5°	5625.3	5612.5	5599.7	5615.7	5602.9	5590.0	5586.8	5580.4	5557.9	5519.4	5464.9
7.5°	5782.6	5769.7	5772.9	5782.6	5772.9	5766.5	5756.9	5750.5	5715.2	5654.2	5580.4
10°	6004.0	6004.0	6010.4	6020.0	6023.2	6013.6	5994.4	5984.7	5943.0	5866.0	5763.3
12.5°	6324.9	6318.5	6318.5	6312.0	6321.7	6312.0	6292.8	6276.8	6225.4	6125.9	5978.3
15°	6748.5	6722.8	6700.3	6658.6	6645.8	6610.5	6616.9	6607.3	6559.1	6424.4	6238.2
17.5°	7200.9	7197.7	7162.4	7079.0	6995.6	6937.8	6950.6	6947.4	6921.8	6738.8	6501.4
20°	7598.8	7614.9	7582.8	7518.6	7406.3	7297.2	7290.8	7306.8	7274.7	7091.8	6761.3
22.5°	8044.9	8032.1	8000.0	7916.5	7833.1	7717.6	7679.1	7666.2	7653.4	7444.8	7027.7
25°	8468.5	8507.0	8465.3	8388.3	8259.9	8134.7	8102.7	8115.5	8080.2	7804.2	7313.2
27.5°	9004.4	9020.4	8994.8	8888.9	8779.8	8603.3	8542.3	8542.3	8529.5	8141.2	7537.9
30°	9575.6	9620.5	9575.6	9488.9	9376.6	9123.1	8991.5	8978.7	8940.2	8487.7	7801.0
32.5°	10150.0	10182.1	10150.0	10066.5	9938.2	9716.8	9527.4	9498.6	9447.2	8866.4	8070.6
35°	10660.2	10689.1	10682.7	10701.9	10596.0	10316.8	10201.3	10188.5	10053.7	9360.6	8436.4
37.5°	11218.6	11253.9	11205.7	11244.2	11202.5	10939.4	10904.1	10839.9	10647.4	9825.9	8821.5
40°	11853.9	11886.0	11809.0	11825.1	11776.9	11629.3	11449.6	11363.0	11077.4	10329.7	9428.0
42.5°	12534.2	12608.1	12643.4	12614.5	12502.2	12418.7	12104.2	11995.1	11757.7	11237.8	10426.0
45°	13519.4	13628.5	13679.9	13606.0	13557.9	13439.2	13054.1	12922.5	12797.4	12518.2	11818.6
47.5°	14581.6	14681.1	14844.7	14876.8	14915.3	14825.5	14283.1	14154.8	14177.2	14145.2	13532.2
50°	15428.7	15512.2	15881.2	16275.9	16603.2	16628.9	15935.8	15797.8	15919.7	16022.4	15595.6
52.5°	16044.9	16118.7	16606.4	17421.5	18162.8	18711.5	17963.8	17806.6	17906.1	18137.1	17941.4
55°	16545.5	16648.2	17158.4	18409.9	19908.5	20774.9	20296.8	20097.8	20056.1	20341.7	20454.0
57.5°	16808.6	16840.7	17556.3	19183.2	21188.8	22799.8	23008.3	22783.7	22385.8	22543.0	23127.1
60°	16208.5	16263.1	17241.8	19382.2	22199.7	24808.6	25854.7	25668.6	24821.4	24908.0	25553.1
62.5°	14549.5	14626.5	15804.2	18435.5	22283.1	26149.9	28482.8	28364.1	27228.1	26759.6	26952.2
65°	11671.0	11696.7	12916.1	16093.0	20624.1	26316.8	30315.2	30286.3	28909.6	27812.2	26987.5
67.5°	6655.4	6610.5	8240.6	11478.5	17020.4	24147.5	30433.9	30604.0	29455.2	27638.9	24741.2
70°	2884.9	2891.3	3642.2	5663.8	11016.4	19517.0	28267.8	28559.9	27876.3	24754.0	19683.8
72.5°	1334.9	1354.2	1678.3	2451.7	4704.4	12107.5	23050.1	23313.2	22725.9	19812.2	14321.6
75°	943.4	959.5	1119.9	1405.5	2162.8	4717.2	15419.1	15971.1	16256.7	14819.0	9437.6
77.5°	715.6	738.1	818.3	975.5	1334.9	1671.9	7377.4	8693.1	10355.4	9219.4	4861.6
80°	455.7	455.7	542.3	651.4	815.1	869.6	2130.8	2525.5	5067.0	3799.4	1909.3
82.5°	308.1	317.7	369.0	414.0	468.5	494.2	914.6	975.5	1463.3	1293.2	786.2
85°	163.7	170.1	192.5	189.3	224.6	195.7	385.1	381.9	535.9	587.2	298.4
87.5°	0.0	0.0	3.2	3.2	6.4	9.6	41.7	44.9	112.3	179.7	99.5
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°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5423.2	5384.7	5403.9	5397.5	5416.7	5416.7	5381.4	5371.8	5375.0	5336.5	5323.7
5°	5471.3	5426.4	5436.0	5423.2	5442.4	5458.5	5442.4	5442.4	5461.7	5432.8	5416.7
7.5°	5580.4	5529.1	5529.1	5513.0	5535.5	5548.3	5535.5	5554.7	5590.0	5561.2	5545.1
10°	5753.7	5692.7	5695.9	5676.7	5686.3	5679.9	5628.5	5612.5	5622.1	5596.4	5583.6
12.5°	5978.3	5894.9	5894.9	5856.4	5833.9	5766.5	5660.6	5622.1	5628.5	5606.1	5596.4
15°	6193.3	6116.3	6100.3	6023.2	5920.6	5795.4	5699.1	5673.5	5679.9	5657.4	5641.4
17.5°	6446.8	6347.3	6289.6	6148.4	5959.1	5830.7	5734.4	5673.5	5622.1	5570.8	5557.9
20°	6681.1	6555.9	6450.0	6231.8	6000.8	5824.3	5644.6	5493.8	5368.6	5301.2	5285.2
22.5°	6921.8	6761.3	6575.2	6289.6	5997.6	5708.8	5378.2	5150.4	4964.3	4864.8	4884.1
25°	7149.6	6947.4	6693.9	6344.1	5894.9	5452.0	5002.8	4662.6	4450.8	4373.8	4351.4
27.5°	7338.9	7088.6	6803.0	6318.5	5683.1	5083.0	4489.4	4110.7	3905.3	3818.7	3796.2
30°	7550.7	7268.3	6960.3	6199.7	5349.4	4566.4	3908.5	3600.5	3452.9	3369.4	3372.6
32.5°	7794.6	7499.4	7181.7	5971.9	4922.6	4008.0	3430.4	3218.6	3099.9	3016.4	3003.6
35°	8121.9	7829.9	7329.3	5628.5	4380.2	3494.6	3103.1	2929.8	2782.2	2673.1	2650.6
37.5°	8526.2	8327.3	7345.3	5169.7	3799.4	3141.6	2868.8	2682.7	2503.0	2358.6	2342.6
40°	9219.4	8991.5	7213.8	4595.2	3305.2	2913.7	2673.1	2458.1	2249.5	2089.0	2066.6
42.5°	10207.7	9739.2	6931.4	3947.0	2933.0	2734.0	2487.0	2214.2	2002.4	1890.1	1874.0
45°	11465.7	10573.6	6507.8	3337.3	2657.0	2557.6	2291.2	2005.6	1893.3	1813.1	1797.0
47.5°	13006.0	11545.9	6020.0	2862.4	2442.0	2397.1	2092.3	1935.0	1835.5	1768.1	1752.1
50°	14847.9	12784.5	5618.9	2490.2	2249.5	2211.0	2028.1	1893.3	1813.1	1758.5	1745.7
52.5°	16949.8	14161.2	5423.2	2223.8	2082.6	2044.1	2005.6	1883.7	1816.3	1774.6	1758.5
55°	19131.9	15611.7	5240.3	2018.4	1941.4	1963.9	2008.8	1915.8	1864.4	1809.9	1793.8
57.5°	21240.2	16972.3	4791.0	1858.0	1838.7	1925.4	2024.9	1947.8	1886.9	1832.3	1813.1
60°	22693.9	17716.7	4030.5	1729.6	1761.7	1877.2	1983.1	1899.7	1822.7	1800.2	1790.6
62.5°	23085.4	17626.9	3128.7	1598.1	1668.7	1771.4	1874.0	1819.5	1739.3	1774.6	1777.8
65°	22170.8	16664.2	2349.0	1469.7	1546.7	1633.4	1761.7	1739.3	1710.4	1806.7	1809.9
67.5°	19581.2	14299.2	1790.6	1357.4	1421.6	1527.5	1726.4	1819.5	1825.9	1947.8	1935.0
70°	14815.8	10682.7	1402.3	1251.5	1325.3	1527.5	1838.7	1880.5	1803.4	1915.8	1890.1
72.5°	10243.0	7050.1	1193.7	1158.4	1206.6	1456.9	1835.5	1835.5	1752.1	1752.1	1704.0
75°	6363.4	4146.0	1039.7	1039.7	1039.7	1274.0	1784.2	1691.1	1543.5	1476.1	1437.6
77.5°	3141.6	2015.2	872.8	904.9	869.6	1065.4	1456.9	1383.1	1293.2	1222.6	1196.9
80°	1341.4	1007.6	706.0	741.3	699.6	802.2	1155.2	1139.2	1052.5	959.5	930.6
82.5°	616.1	519.9	564.8	580.8	510.2	603.3	844.0	844.0	795.8	667.5	619.3
85°	263.1	276.0	391.5	391.5	320.9	340.2	452.5	430.0	385.1	314.5	288.8
87.5°	89.9	134.8	199.0	173.3	67.4	28.9	16.0	6.4	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)