

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: P643912

Luminaire Tested: GWS-SA6F-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-830-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

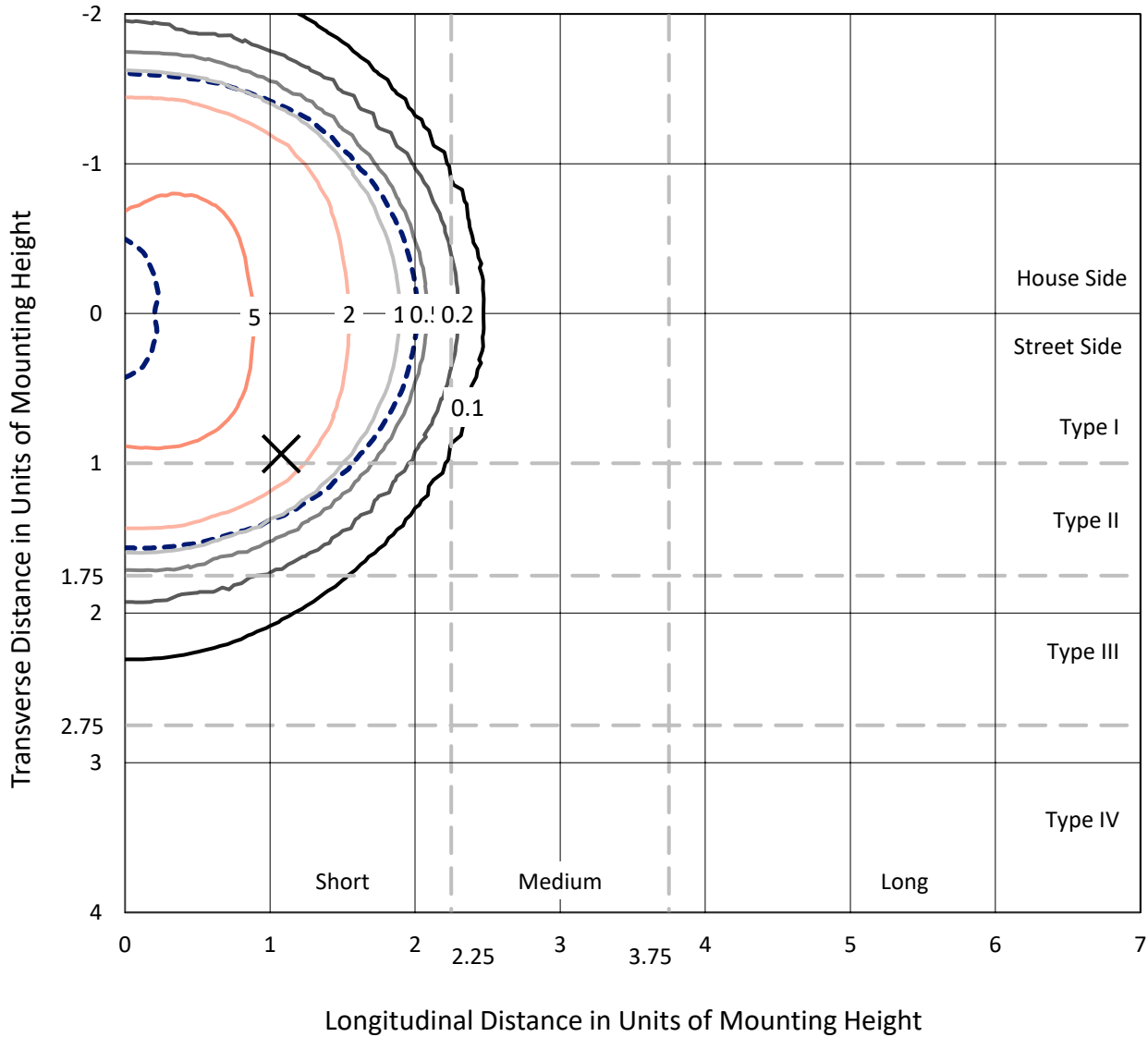
Lumens per Lamp: N/A  
Luminaire Lumens: 34853.1 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

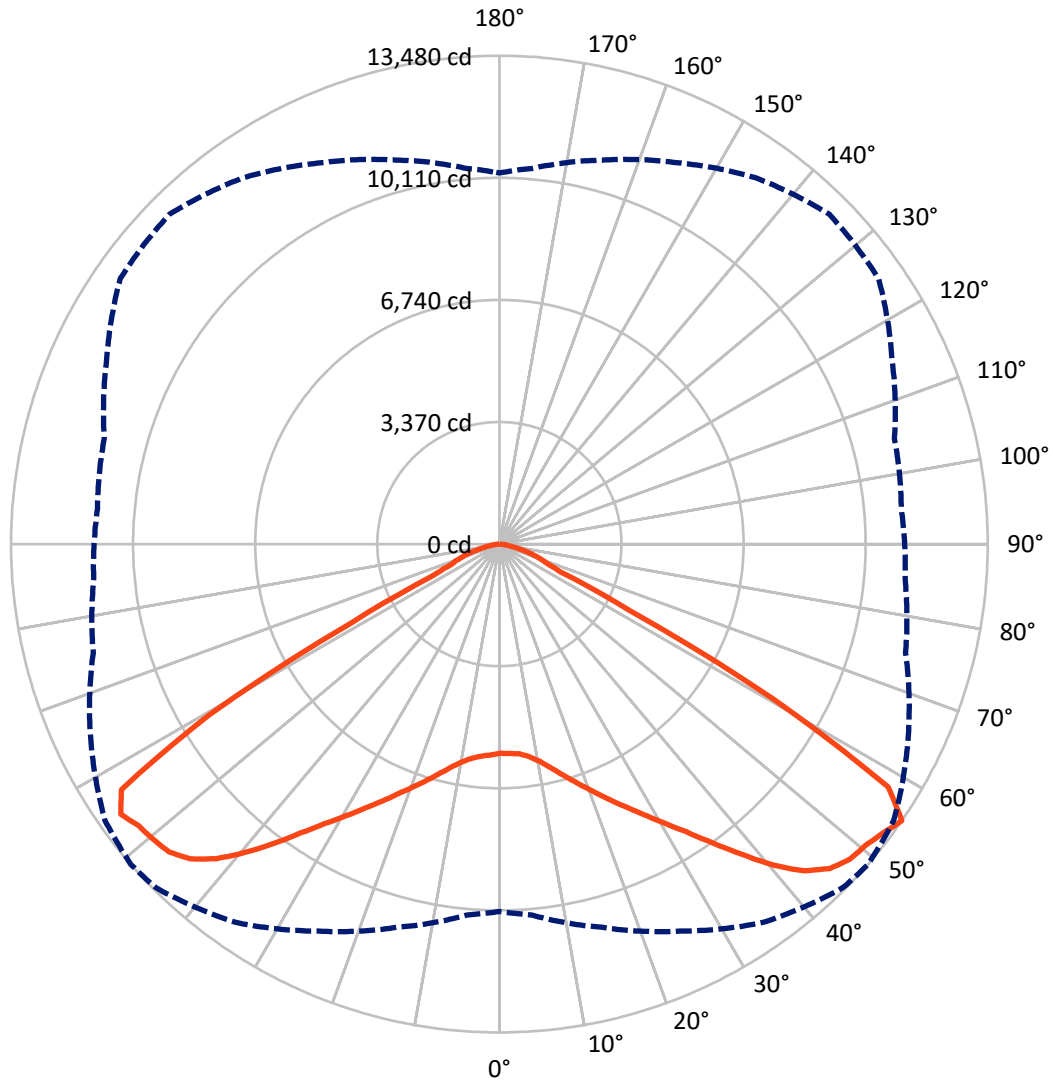
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17255.6	0.0	17255.6
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	17597.5	0.0	17597.5
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	34853.1	0.0	34853.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.2	1.6
10°-20°	1857.7	5.3
20°-30°	3538.5	10.2
30°-40°	5998.4	17.2
40°-50°	9027.2	25.9
50°-60°	9881.2	28.4
60°-70°	3124.5	9.0
70°-80°	749.9	2.2
80°-90°	112.5	0.3
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°	34853.1	100.0
0°-180°	34853.1	100.0

**Coefficient of Utilization**



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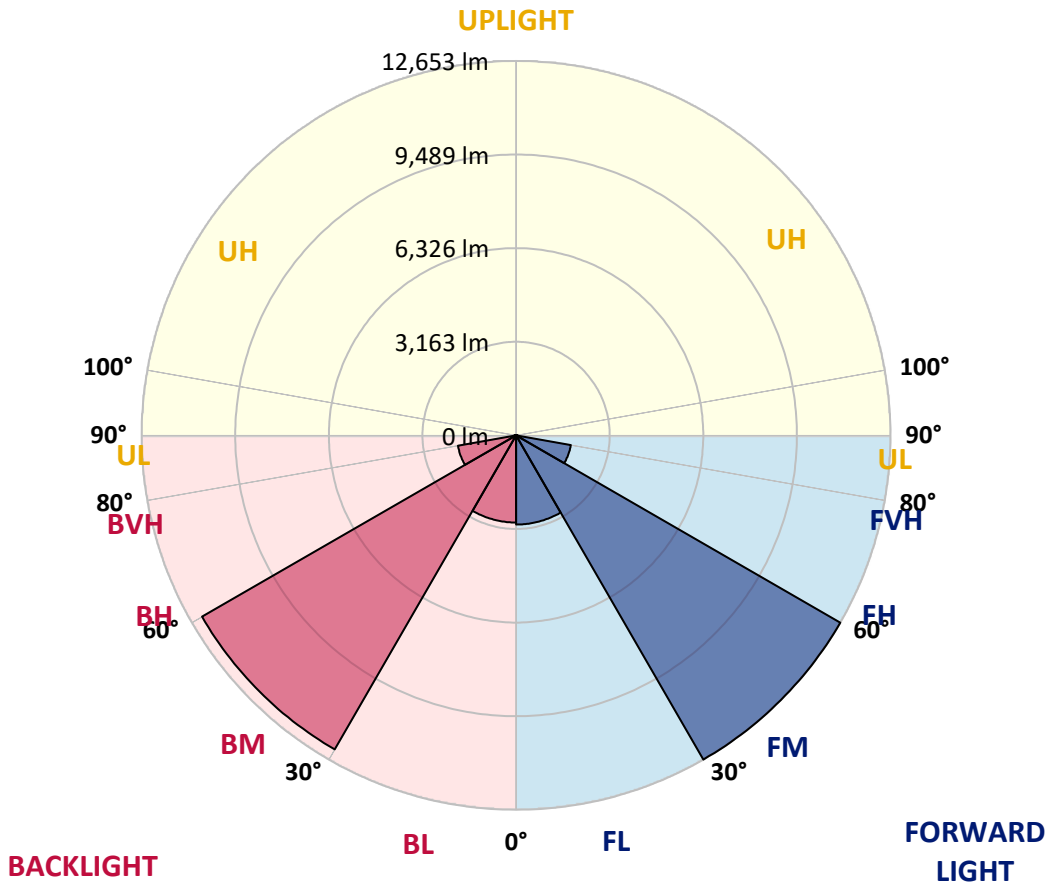
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.4	8.6			
FM (30°-60°)	12652.6	36.3			
FH (60°-80°)	1879.4	5.4			G2/5000
FVH (80°-90°)	52.1	0.1			G1/100
BL (0°-30°)	2946.0	8.5	B4/5000		
BM (30°-60°)	12254.2	35.2	B5		
BH (60°-80°)	1994.9	5.7	B3/2500		G2/5000
BVH (80°-90°)	60.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6
2.5°	5688.6	5694.3	5705.6	5725.4	5745.3	5773.6	5785.0	5799.1	5796.3	5813.3	5813.3
5°	5660.3	5668.8	5685.8	5714.1	5748.1	5802.0	5816.1	5850.2	5884.2	5926.7	5940.9
7.5°	5694.3	5705.6	5725.4	5770.8	5821.8	5892.7	5921.0	5977.7	6042.9	6119.4	6150.6
10°	5759.5	5773.6	5807.6	5881.3	5963.5	6071.2	6096.7	6167.6	6272.5	6377.3	6439.7
12.5°	5833.1	5855.8	5918.2	6034.4	6156.3	6298.0	6337.7	6425.5	6538.9	6675.0	6760.0
15°	5918.2	5938.0	6034.4	6198.8	6388.7	6575.8	6621.1	6706.1	6833.7	6966.9	7085.9
17.5°	6096.7	6130.8	6244.1	6434.0	6655.1	6876.2	6927.2	7023.6	7125.6	7230.5	7343.9
20°	6340.5	6368.8	6513.4	6748.7	7009.4	7210.7	7261.7	7346.7	7394.9	7448.7	7545.1
22.5°	6584.3	6623.9	6788.3	7066.1	7372.2	7590.5	7630.1	7709.5	7675.5	7658.5	7720.8
25°	6887.5	6941.4	7103.0	7406.2	7718.0	7987.3	8018.5	8086.5	8029.8	7941.9	7939.1
27.5°	7264.5	7312.7	7479.9	7791.7	8100.7	8381.3	8440.8	8531.5	8406.8	8299.1	8222.5
30°	7712.3	7743.5	7927.8	8259.4	8576.8	8843.3	8919.8	9010.5	8917.0	8738.4	8661.9
32.5°	8233.9	8276.4	8489.0	8837.6	9121.0	9387.5	9464.0	9577.4	9475.3	9274.1	9177.7
35°	8860.3	8902.8	9126.7	9506.5	9795.6	10070.5	10124.4	10217.9	10090.4	9858.0	9781.4
37.5°	9540.5	9594.4	9877.8	10237.8	10541.1	10861.3	10864.2	10892.5	10711.1	10422.0	10337.0
40°	10305.8	10376.7	10660.1	11034.2	11399.9	11660.6	11657.8	11578.4	11272.3	10824.5	10694.1
42.5°	11062.6	11119.3	11405.5	11791.0	12156.6	12403.2	12329.5	12136.8	11694.6	11085.3	10912.4
45°	11609.6	11652.1	11952.6	12386.2	12757.5	12910.6	12777.4	12545.0	11946.9	11249.6	10994.6
47.5°	11867.5	11924.2	12227.5	12658.3	13077.8	13165.7	13007.0	12788.7	12094.3	11402.7	11059.7
50°	11728.7	11802.3	12145.3	12545.0	13018.3	13199.7	13086.3	12868.1	12250.2	11552.9	11176.0
52.5°	11368.7	11439.5	11873.2	12357.9	12893.6	13253.6	13250.7	13072.1	12428.7	11595.4	11181.6
55°	10138.6	10277.5	10952.0	11788.2	12740.5	13412.3	13480.3	13290.4	12457.1	11606.8	11241.1
57.5°	6598.4	6842.2	7482.8	8571.2	10481.5	12199.2	12658.3	12703.7	12253.0	11558.6	11252.5
60°	2755.0	2950.6	3457.9	4180.7	5759.5	7803.0	8693.0	9585.9	10662.9	11054.1	11147.6
62.5°	1712.0	1729.0	1780.0	1944.4	2471.6	3469.3	4041.8	4878.0	6479.4	7842.7	8472.0
65°	1544.7	1553.2	1564.6	1553.2	1578.7	1700.6	1853.7	2145.6	2797.5	3474.9	4279.9
67.5°	1360.5	1371.8	1380.3	1371.8	1380.3	1386.0	1403.0	1428.5	1547.6	1643.9	1717.6
70°	1099.7	1116.7	1130.9	1125.2	1159.3	1159.3	1176.3	1196.1	1255.6	1326.5	1377.5
72.5°	839.0	824.8	841.8	847.5	878.7	895.7	921.2	943.8	1011.9	1054.4	1119.6
75°	544.2	530.0	555.5	569.7	612.2	634.9	657.6	680.3	728.4	756.8	819.1
77.5°	294.8	291.9	317.5	337.3	382.6	411.0	428.0	445.0	484.7	493.2	532.9
80°	170.1	170.1	187.1	201.2	229.6	260.8	277.8	291.9	320.3	328.8	345.8
82.5°	93.5	93.5	102.0	110.5	133.2	150.2	164.4	175.7	201.2	209.7	218.2
85°	45.4	42.5	48.2	53.9	62.4	70.9	79.4	85.0	104.9	110.5	121.9
87.5°	5.7	5.7	5.7	8.5	11.3	17.0	19.8	19.8	31.2	36.8	42.5
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°	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6	5773.6
2.5°	5830.3	5793.5	5816.1	5824.6	5824.6	5816.1	5779.3	5768.0	5751.0	5725.4	5725.4
5°	5960.7	5932.4	5938.0	5923.8	5889.8	5847.3	5779.3	5745.3	5716.9	5685.8	5682.9
7.5°	6184.6	6147.8	6142.1	6088.2	5997.5	5906.8	5804.8	5742.4	5699.9	5660.3	5657.4
10°	6476.6	6442.5	6400.0	6292.3	6159.1	6025.9	5887.0	5802.0	5739.6	5682.9	5680.1
12.5°	6802.5	6762.8	6683.5	6524.7	6357.5	6227.1	6068.4	5938.0	5844.5	5768.0	5753.8
15°	7156.8	7100.1	6964.1	6777.0	6612.6	6473.7	6303.7	6116.6	5974.9	5853.0	5838.8
17.5°	7428.9	7355.2	7207.8	7032.1	6896.0	6757.2	6536.1	6300.8	6096.7	5943.7	5921.0
20°	7616.0	7556.5	7389.2	7258.8	7179.5	7057.6	6799.7	6533.2	6303.7	6110.9	6099.6
22.5°	7788.9	7718.0	7553.6	7477.1	7477.1	7394.9	7148.3	6833.7	6564.4	6340.5	6312.2
25°	7984.4	7907.9	7783.2	7774.7	7814.4	7777.5	7479.9	7142.6	6828.0	6575.8	6530.4
27.5°	8256.5	8171.5	8097.8	8148.8	8205.5	8165.8	7834.2	7443.1	7111.5	6856.4	6816.7
30°	8690.2	8585.3	8517.3	8579.7	8690.2	8574.0	8214.0	7800.2	7465.8	7185.1	7165.3
32.5°	9194.7	9075.7	9004.8	9104.0	9203.2	9021.8	8664.7	8267.9	7916.4	7621.6	7587.6
35°	9801.3	9651.1	9546.2	9679.4	9781.4	9602.9	9248.6	8871.6	8480.5	8174.3	8129.0
37.5°	10339.8	10158.4	10087.6	10274.6	10410.7	10294.5	9909.0	9554.7	9126.7	8792.2	8772.4
40°	10731.0	10552.4	10501.4	10810.3	11048.4	11020.1	10674.3	10269.0	9866.5	9481.0	9444.1
42.5°	10901.0	10776.3	10787.6	11204.3	11572.8	11754.2	11445.2	11011.6	10623.2	10223.6	10198.1
45°	10937.9	10861.3	10952.0	11473.6	11958.2	12329.5	12065.9	11703.1	11263.8	10878.3	10867.0
47.5°	10977.5	10935.0	11073.9	11626.6	12202.0	12632.8	12485.4	12111.3	11666.3	11289.3	11261.0
50°	11071.1	11054.1	11210.0	11734.3	12318.2	12715.0	12547.8	12176.5	11720.2	11348.8	11280.8
52.5°	11099.4	11071.1	11295.0	11901.6	12510.9	12712.2	12352.2	11867.5	11408.4	10994.6	10923.7
55°	11187.3	11136.3	11289.3	11963.9	12777.4	12876.6	12340.9	11615.3	10974.7	10410.7	10243.4
57.5°	11210.0	11153.3	11252.5	11861.9	12488.3	12400.4	10847.2	9373.3	8165.8	7539.4	7610.3
60°	11088.1	11105.1	10935.0	10867.0	10016.7	8843.3	6640.9	5308.8	4169.4	3687.5	3792.4
62.5°	8440.8	8511.6	7930.6	6896.0	5303.1	4203.4	2780.5	2159.8	1828.2	1743.1	1757.3
65°	4260.1	4356.4	3752.7	3103.6	2307.2	1865.0	1612.8	1561.7	1544.7	1524.9	1524.9
67.5°	1686.5	1714.8	1692.1	1584.4	1473.9	1434.2	1422.9	1417.2	1397.3	1386.0	1388.8
70°	1354.8	1377.5	1343.5	1275.5	1230.1	1227.3	1221.6	1210.3	1196.1	1196.1	1204.6
72.5°	1105.4	1128.1	1079.9	1037.4	1003.4	977.9	963.7	955.2	935.3	935.3	943.8
75°	813.5	827.6	788.0	782.3	745.4	719.9	697.3	685.9	660.4	649.1	657.6
77.5°	541.4	538.5	518.7	518.7	504.5	473.3	447.8	422.3	388.3	365.6	371.3
80°	351.5	351.5	343.0	343.0	328.8	303.3	272.1	246.6	226.8	209.7	209.7
82.5°	223.9	221.1	218.2	215.4	209.7	184.2	161.6	144.6	130.4	119.0	121.9
85°	124.7	124.7	119.0	119.0	107.7	93.5	82.2	70.9	62.4	59.5	59.5
87.5°	42.5	42.5	39.7	39.7	34.0	25.5	19.8	17.0	14.2	11.3	14.2
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)