

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: P642707

Luminaire Tested: GWS-SA6D-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35201.5 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 245.7  
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

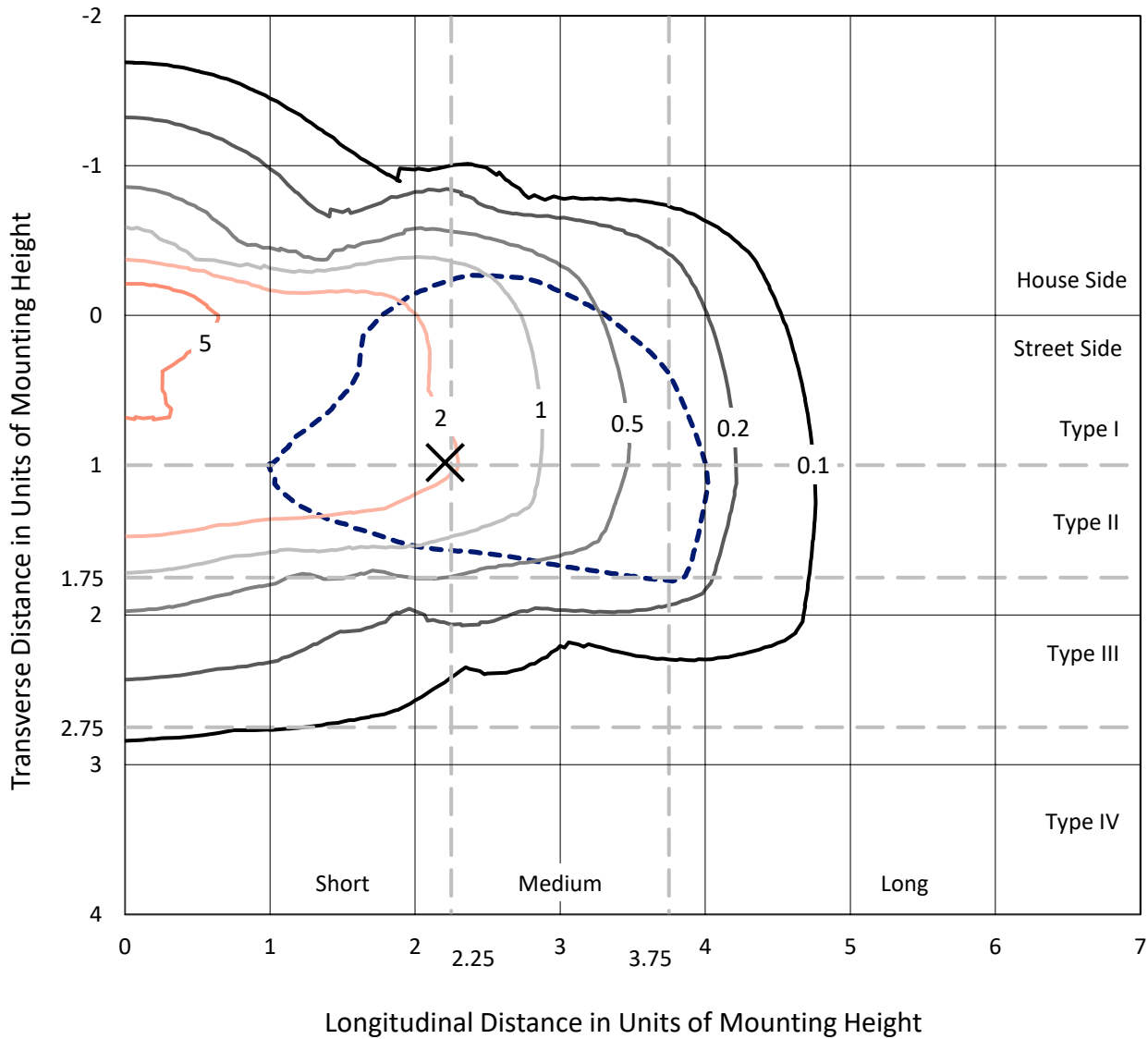


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### Iso-Footcandle Lines of Horizontal Illumination

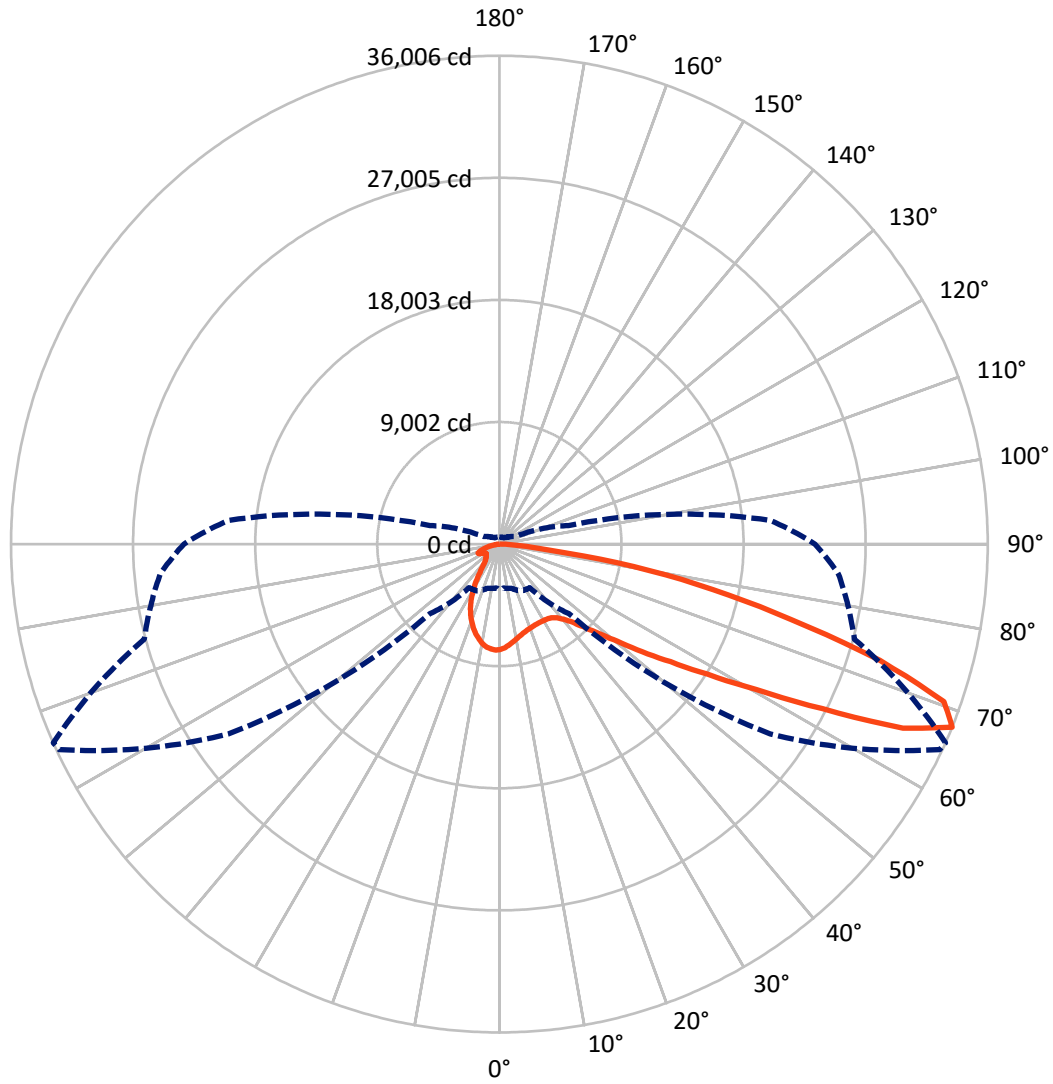
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7143.2	0.0	7143.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	28058.3	0.0	28058.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	35201.5	0.0	35201.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.7	1.9
10°-20°	1677.7	4.8
20°-30°	2306.1	6.6
30°-40°	3152.8	9.0
40°-50°	4777.3	13.6
50°-60°	7426.5	21.1
60°-70°	9041.6	25.7
70°-80°	5507.7	15.6
80°-90°	629.1	1.8
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°	35201.5	100.0
0°-180°	35201.5	100.0

**Coefficient of Utilization**



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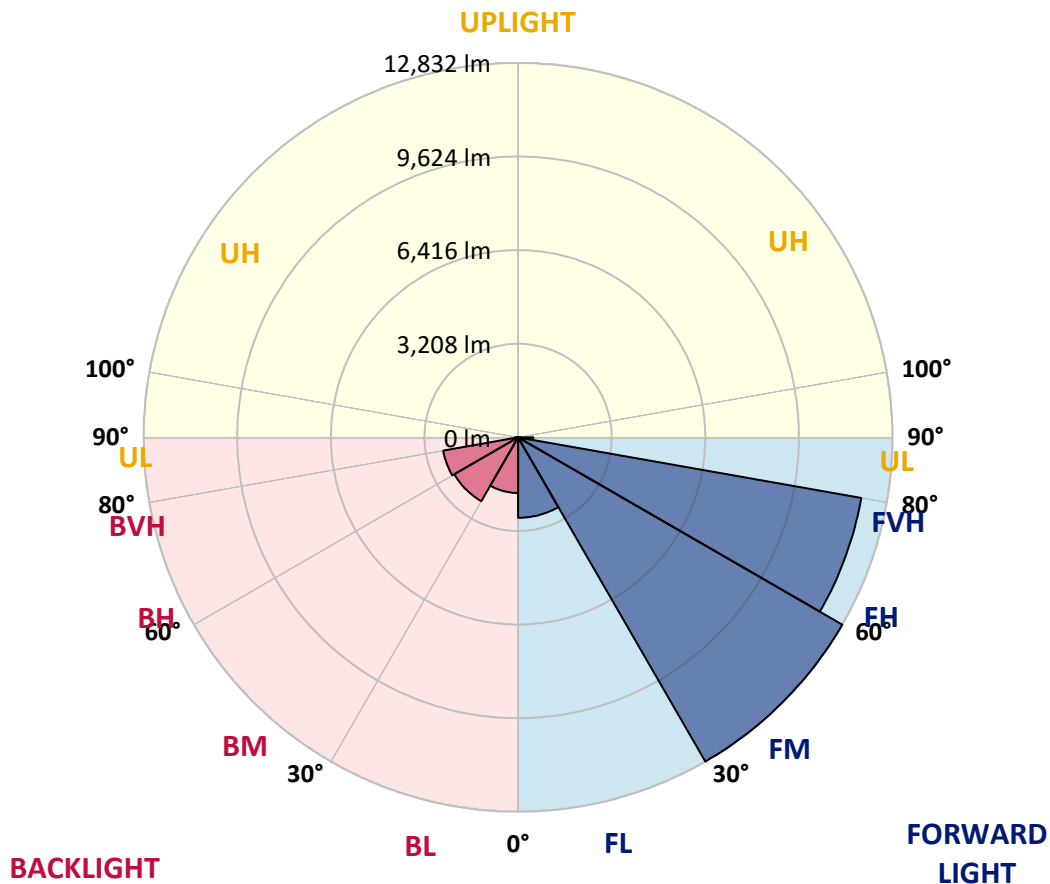
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2758.2	7.8			
FM (30°-60°)	12832.3	36.5			
FH (60°-80°)	11944.8	33.9			G4/12000
FVH (80°-90°)	523.1	1.5			G4/750
BL (0°-30°)	1908.3	5.4	B3/2500		
BM (30°-60°)	2524.3	7.2	B3/5000		
BH (60°-80°)	2604.5	7.4	B4/5000		G4/5000
BVH (80°-90°)	106.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5
2.5°	7285.5	7311.2	7295.7	7393.3	7398.5	7521.7	7591.1	7650.1	7655.3	7732.3	7783.7
5°	6787.3	6802.7	6802.7	6895.1	6956.8	7121.1	7280.3	7449.8	7462.7	7647.6	7788.8
7.5°	6384.1	6399.5	6389.2	6512.5	6592.1	6774.4	6977.3	7236.7	7262.4	7560.3	7806.8
10°	6068.2	6063.1	6088.8	6201.8	6304.5	6522.8	6748.8	7044.1	7082.6	7460.1	7827.3
12.5°	5852.5	5857.7	5873.1	5991.2	6101.6	6317.3	6551.0	6872.0	6913.1	7344.5	7817.1
15°	5749.8	5739.5	5752.4	5860.2	5965.5	6155.5	6396.9	6728.2	6769.3	7241.8	7819.6
17.5°	5726.7	5719.0	5716.4	5793.5	5873.1	6050.3	6281.4	6617.8	6661.4	7175.0	7835.0
20°	5798.6	5788.3	5760.1	5793.5	5826.8	5975.8	6199.2	6538.2	6587.0	7131.4	7865.8
22.5°	5996.3	5978.4	5934.7	5893.6	5849.9	5939.8	6147.8	6479.1	6527.9	7103.1	7896.7
25°	6296.8	6281.4	6235.2	6142.7	5983.5	5968.1	6137.6	6453.4	6502.2	7082.6	7909.5
27.5°	6710.2	6687.1	6640.9	6507.4	6248.0	6073.4	6176.1	6450.9	6497.1	7059.5	7896.7
30°	7200.7	7185.3	7159.6	6997.9	6651.2	6296.8	6263.4	6471.4	6507.4	7046.6	7871.0
32.5°	7698.9	7683.5	7704.1	7627.0	7200.7	6666.6	6453.4	6527.9	6553.6	7044.1	7847.9
35°	8138.1	8156.0	8305.0	8317.8	7899.2	7167.3	6753.9	6658.9	6664.0	7095.4	7858.1
37.5°	8597.7	8667.1	8862.2	9029.2	8679.9	7829.9	7200.7	6905.4	6900.3	7226.4	7922.3
40°	9206.4	9237.2	9486.3	9799.6	9581.3	8739.0	7835.0	7308.6	7272.6	7493.5	8094.4
42.5°	9799.6	9874.0	10272.1	10631.6	10559.7	9763.6	8633.7	7912.1	7847.9	7966.0	8448.8
45°	10554.6	10626.5	11073.3	11535.5	11666.5	10921.8	9655.8	8769.8	8705.6	8677.3	9098.5
47.5°	11309.6	11384.0	11784.6	12452.3	12912.0	12370.2	10986.0	9902.3	9797.0	9686.6	10079.5
50°	11818.0	11905.3	12288.0	13089.2	14167.8	14178.0	12562.8	11386.6	11253.1	11078.4	11461.1
52.5°	11800.1	11856.5	12221.2	13145.7	15071.7	16255.6	14673.7	13276.7	13168.8	12788.7	13122.6
55°	10873.0	10957.7	11325.0	12480.6	15169.3	18225.2	17775.8	15505.7	15313.1	14632.6	14999.8
57.5°	9011.2	9083.1	9452.9	10878.1	14303.9	19234.5	21715.2	18345.9	18081.4	16640.8	17064.5
60°	6802.7	6715.4	6890.0	8138.1	12234.0	19260.1	25192.3	22198.0	21756.3	18787.6	19142.0
62.5°	5105.2	5017.9	5056.4	5408.2	8294.7	17703.9	27174.8	27467.5	26738.2	21211.8	21142.5
65°	4034.4	3985.6	4096.0	4337.4	4835.6	13482.1	27190.2	33166.0	32706.3	24021.3	23194.4
67.5°	3287.1	3256.2	3369.2	3816.1	3921.4	7244.4	24380.8	35826.4	36006.2	27097.7	25097.3
70°	2647.6	2601.4	2778.6	3366.7	3646.6	4383.6	17465.1	34470.5	34760.7	28931.3	24560.5
72.5°	1828.4	1831.0	1920.9	2727.2	3520.8	3785.3	9879.2	28702.8	29331.9	27269.8	21591.9
75°	1232.6	1242.9	1268.6	1800.2	3243.4	3672.3	5264.4	21730.6	22174.9	22539.5	17847.7
77.5°	744.7	749.9	808.9	1088.8	2236.7	3428.3	3567.0	15752.2	16101.5	14858.6	11063.0
80°	431.4	449.4	503.3	729.3	1510.0	2575.7	2760.6	9658.3	10053.8	6604.9	3515.6
82.5°	190.0	202.9	274.8	423.7	880.8	2190.5	2154.6	3816.1	3759.6	1841.3	1219.8
85°	33.4	41.1	59.1	133.5	323.6	1155.6	1671.8	1684.6	1584.5	698.5	505.9
87.5°	0.0	0.0	0.0	0.0	0.0	7.7	251.7	452.0	449.4	197.7	174.6
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°	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5	7778.5
2.5°	7817.1	7747.7	7809.3	7817.1	7804.2	7793.9	7716.9	7650.1	7642.4	7570.5	7570.5
5°	7845.3	7781.1	7811.9	7752.9	7660.4	7565.4	7401.0	7288.0	7236.7	7144.2	7144.2
7.5°	7883.8	7817.1	7781.1	7634.7	7419.0	7211.0	6946.5	6725.6	6635.8	6504.8	6499.7
10°	7919.8	7835.0	7711.8	7426.7	7082.6	6751.3	6366.1	6052.8	5839.7	5683.0	5683.0
12.5°	7917.2	7806.8	7562.8	7141.7	6666.6	6186.4	5672.8	5200.2	4917.8	4673.8	4658.4
15°	7912.1	7760.6	7372.8	6810.4	6181.2	5516.1	4817.6	4201.3	3782.7	3543.9	3523.3
17.5°	7906.9	7701.5	7159.6	6432.9	5590.6	4684.1	3762.1	3094.5	2745.2	2598.8	2604.0
20°	7906.9	7634.7	6931.1	5998.9	4910.1	3687.7	2760.6	2275.3	2188.0	2195.7	2203.4
22.5°	7883.8	7552.5	6676.9	5526.4	4152.5	2711.8	2036.4	1872.1	1918.3	1990.2	2000.5
25°	7829.9	7416.4	6381.5	5002.5	3251.1	1974.8	1661.5	1630.7	1715.4	1805.3	1831.0
27.5°	7745.1	7259.8	6050.3	4388.7	2393.4	1587.0	1461.2	1458.6	1525.4	1592.2	1615.3
30°	7655.3	7085.2	5701.0	3705.7	1733.4	1381.6	1332.8	1332.8	1366.2	1407.3	1402.1
32.5°	7550.0	6908.0	5326.1	2994.3	1412.4	1266.0	1250.6	1242.9	1248.1	1263.5	1263.5
35°	7460.1	6751.3	4940.9	2241.9	1266.0	1201.8	1186.4	1168.4	1160.7	1150.5	1155.6
37.5°	7426.7	6628.1	4542.8	1689.8	1194.1	1155.6	1129.9	1104.2	1086.3	1081.1	1078.6
40°	7480.6	6576.7	4144.8	1391.9	1142.8	1106.8	1078.6	1045.2	1029.8	1029.8	1029.8
42.5°	7691.2	6615.2	3739.0	1258.3	1106.8	1065.7	1024.6	993.8	988.7	993.8	996.4
45°	8076.4	6764.2	3317.9	1191.6	1076.0	1024.6	975.8	952.7	952.7	957.9	957.9
47.5°	8764.7	7154.5	2901.9	1150.5	1045.2	991.3	939.9	916.8	914.2	919.4	919.4
50°	9956.2	7858.1	2526.9	1122.2	1022.1	965.6	914.2	883.4	875.7	873.1	873.1
52.5°	11458.5	9078.0	2288.1	1101.7	993.8	937.3	886.0	844.9	829.5	821.8	821.8
55°	13274.1	10703.5	2288.1	1086.3	957.9	903.9	844.9	803.8	780.7	770.4	770.4
57.5°	15331.1	12596.1	2683.6	1073.4	929.6	865.4	801.2	760.1	734.5	719.0	719.0
60°	17424.0	14596.6	3662.0	1055.5	903.9	816.6	752.4	713.9	680.5	662.5	660.0
62.5°	19594.0	16800.0	4951.1	1065.7	886.0	770.4	701.1	657.4	629.2	611.2	608.6
65°	21581.6	18898.1	6078.5	1145.3	888.5	729.3	642.0	603.5	580.4	557.3	554.7
67.5°	23268.8	20056.2	5287.6	1307.1	942.5	680.5	582.9	544.4	523.9	508.5	505.9
70°	22087.5	18289.4	2999.4	1407.3	1016.9	629.2	516.2	490.5	469.9	459.7	457.1
72.5°	18887.8	15485.2	2005.6	1242.9	927.1	562.4	454.5	434.0	418.6	405.7	403.2
75°	15300.3	12280.3	1533.1	1019.5	721.6	457.1	390.3	374.9	359.5	346.7	344.1
77.5°	9052.3	7095.4	1129.9	806.4	508.5	357.0	323.6	310.7	295.3	285.1	282.5
80°	2889.0	2465.3	716.5	554.7	336.4	274.8	249.1	238.8	223.4	210.6	208.0
82.5°	1101.7	952.7	380.1	282.5	223.4	187.5	166.9	156.6	146.4	133.5	131.0
85°	487.9	457.1	210.6	151.5	120.7	92.4	82.2	77.0	64.2	53.9	51.4
87.5°	172.1	172.1	89.9	43.7	25.7	12.8	7.7	2.6	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)