

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: P642927

Luminaire Tested: GWS-SA6D-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642927  
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-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27963.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - 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

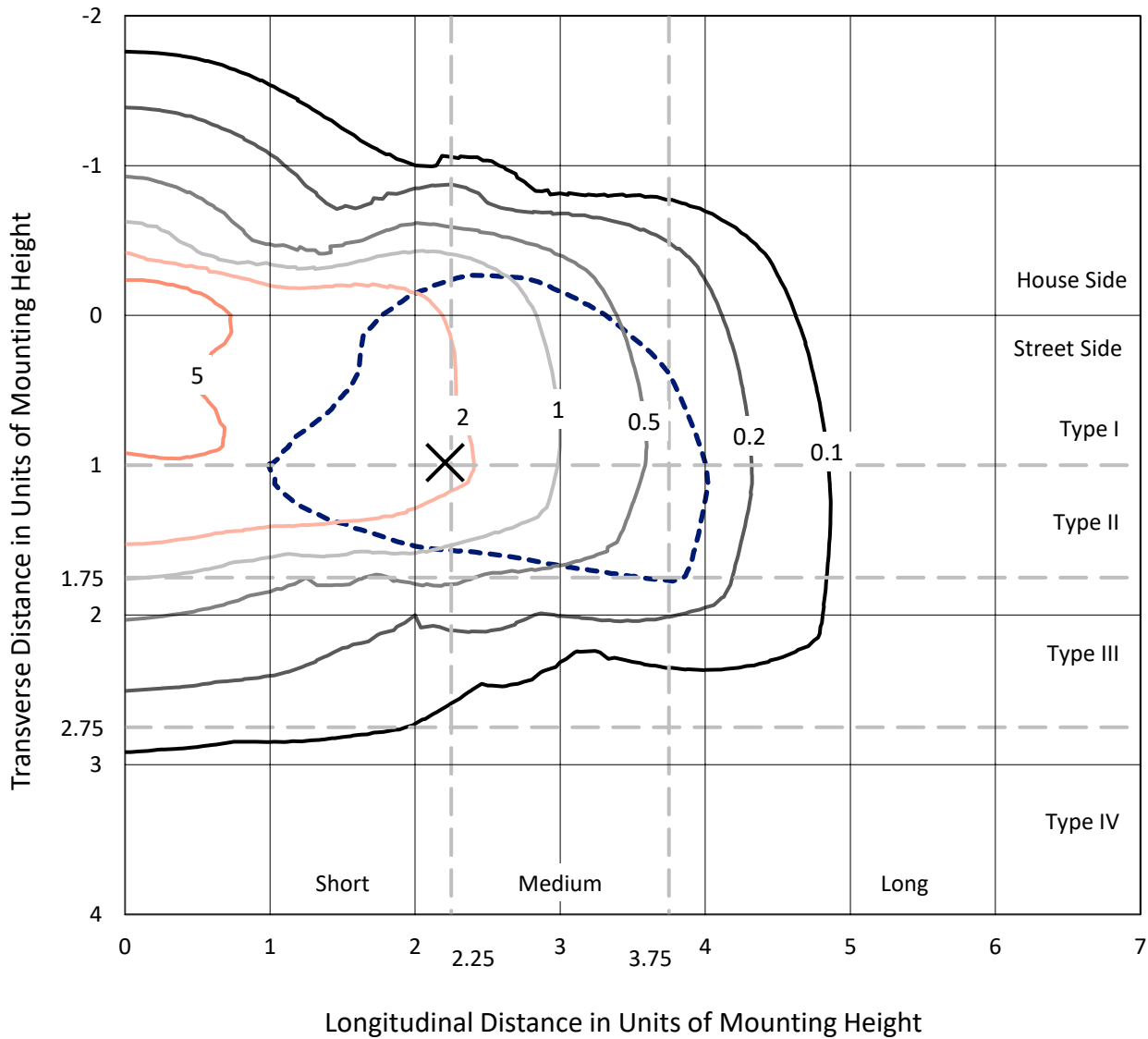


REPORT NUMBER: P642927

CATALOG NUMBER: GWS-SA6D-830-U-SL2-W

### Iso-Footcandle Lines of Horizontal Illumination

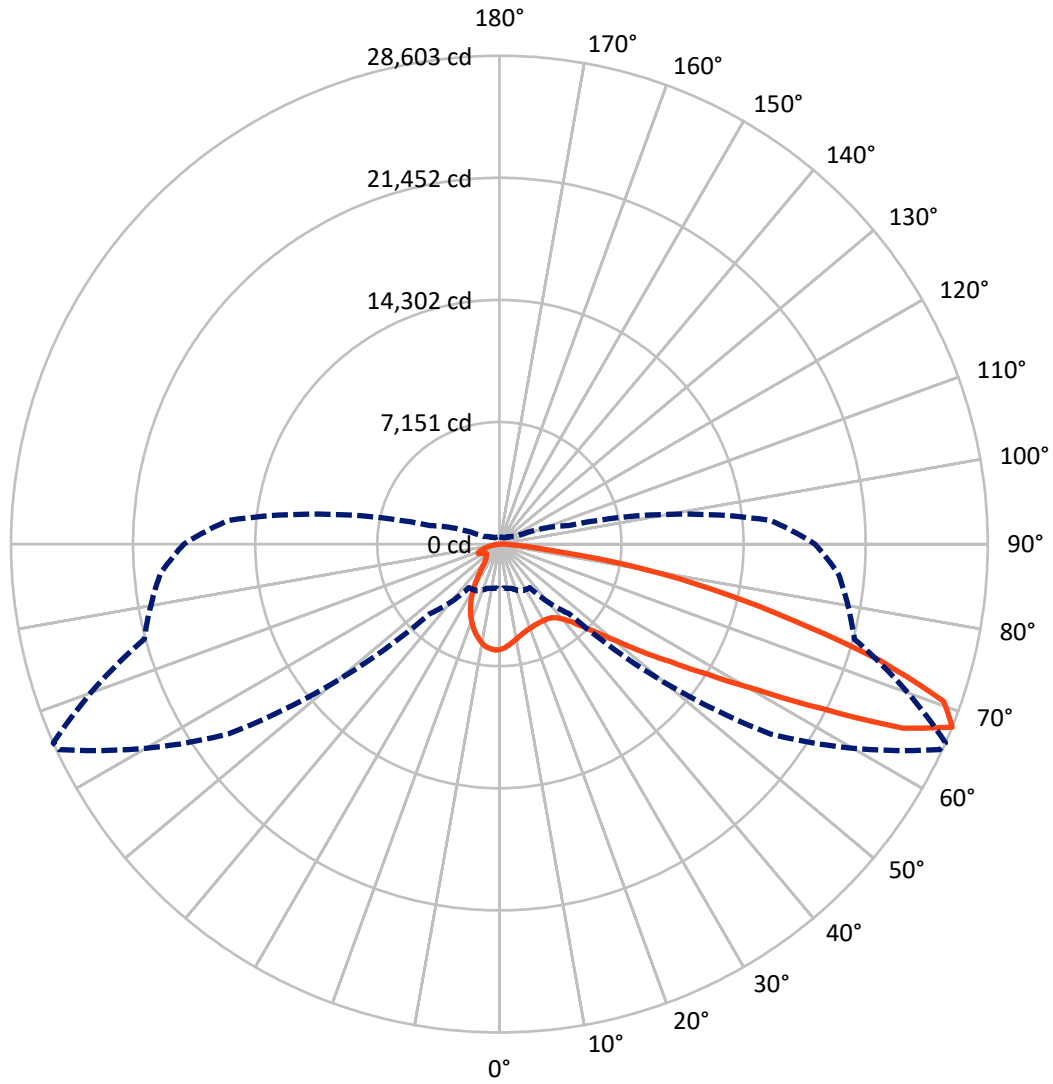
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P642927  
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P642927

CATALOG NUMBER: GWS-SA6D-830-U-SL2-W

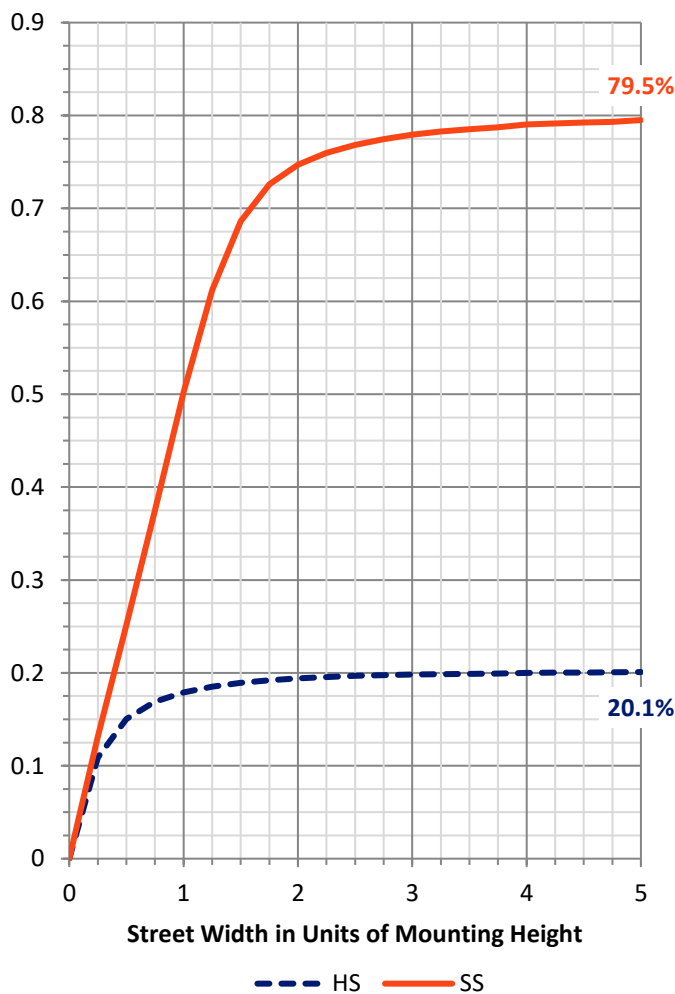
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5674.5	0.0	5674.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	22289.2	0.0	22289.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	27963.7	0.0	27963.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.3	1.9
10°-20°	1332.8	4.8
20°-30°	1831.9	6.6
30°-40°	2504.6	9.0
40°-50°	3795.1	13.6
50°-60°	5899.5	21.1
60°-70°	7182.5	25.7
70°-80°	4375.3	15.6
80°-90°	499.8	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°	27963.7	100.0
0°-180°	27963.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642927

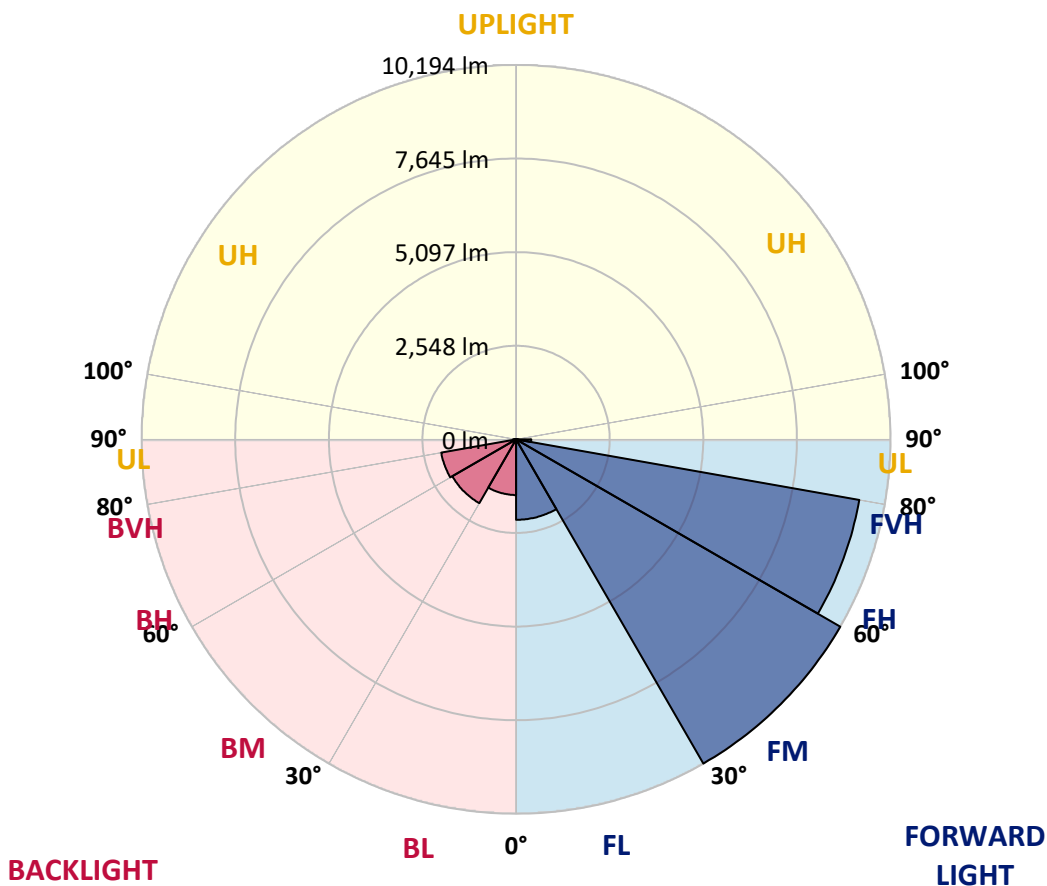
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.1	7.8			
FM (30°-60°)	10193.8	36.5			
FH (60°-80°)	9488.8	33.9			G4/12000
FVH (80°-90°)	415.5	1.5			G3/500
BL (0°-30°)	1515.9	5.4	B3/2500		
BM (30°-60°)	2005.3	7.2	B2/2500		
BH (60°-80°)	2069.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	84.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P642927  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2
2.5°	5787.5	5807.9	5795.7	5873.2	5877.3	5975.2	6030.3	6077.2	6081.3	6142.5	6183.3
5°	5391.7	5404.0	5404.0	5477.4	5526.4	5656.9	5783.4	5918.1	5928.3	6075.1	6187.3
7.5°	5071.5	5083.7	5075.5	5173.5	5236.7	5381.5	5542.7	5748.7	5769.1	6005.8	6201.6
10°	4820.5	4816.5	4836.9	4926.6	5008.2	5181.6	5361.1	5595.7	5626.3	5926.2	6217.9
12.5°	4649.2	4653.3	4665.5	4759.3	4847.1	5018.4	5204.1	5459.1	5491.7	5834.4	6209.8
15°	4567.6	4559.4	4569.6	4655.3	4738.9	4889.9	5081.7	5344.8	5377.5	5752.8	6211.8
17.5°	4549.2	4543.1	4541.1	4602.3	4665.5	4806.3	4989.9	5257.1	5291.8	5699.8	6224.1
20°	4606.3	4598.2	4575.7	4602.3	4628.8	4747.1	4924.6	5193.9	5232.6	5665.1	6248.5
22.5°	4763.4	4749.1	4714.5	4681.8	4647.1	4718.5	4883.8	5146.9	5185.7	5642.7	6273.0
25°	5002.1	4989.9	4953.1	4879.7	4753.2	4741.0	4875.6	5126.5	5165.3	5626.3	6283.2
27.5°	5330.5	5312.2	5275.5	5169.4	4963.3	4824.6	4906.2	5124.5	5161.2	5608.0	6273.0
30°	5720.2	5707.9	5687.5	5559.0	5283.6	5002.1	4975.6	5140.8	5169.4	5597.8	6252.6
32.5°	6115.9	6103.7	6120.0	6058.8	5720.2	5295.9	5126.5	5185.7	5206.1	5595.7	6234.3
35°	6464.8	6479.1	6597.4	6607.6	6275.1	5693.7	5365.2	5289.7	5293.8	5636.5	6242.4
37.5°	6829.9	6885.0	7040.1	7172.7	6895.2	6220.0	5720.2	5485.6	5481.5	5740.6	6293.4
40°	7313.4	7337.9	7535.8	7784.7	7611.3	6942.1	6224.1	5805.9	5777.3	5952.7	6430.1
42.5°	7784.7	7843.8	8160.0	8445.6	8388.5	7756.1	6858.5	6285.3	6234.3	6328.1	6711.6
45°	8384.4	8441.6	8796.5	9163.7	9267.8	8676.2	7670.4	6966.6	6915.6	6893.2	7227.7
47.5°	8984.2	9043.4	9361.6	9892.0	10257.2	9826.7	8727.2	7866.3	7782.6	7694.9	8007.0
50°	9388.1	9457.5	9761.4	10397.9	11254.7	11262.9	9979.7	9045.4	8939.3	8800.6	9104.6
52.5°	9373.8	9418.7	9708.4	10442.8	11972.8	12913.2	11656.6	10546.8	10461.2	10159.2	10424.4
55°	8637.4	8704.7	8996.4	9914.4	12050.3	14477.9	14120.9	12317.6	12164.6	11624.0	11915.7
57.5°	7158.4	7215.5	7509.3	8641.5	11362.8	15279.7	17250.3	14573.8	14363.7	13219.3	13555.9
60°	5404.0	5334.6	5473.3	6464.8	9718.6	15300.1	20012.5	17633.8	17282.9	14924.7	15206.2
62.5°	4055.5	3986.2	4016.8	4296.3	6589.2	14063.8	21587.4	21819.9	21240.6	16850.5	16795.4
65°	3204.9	3166.1	3253.8	3445.6	3841.3	10710.0	21599.6	26346.7	25981.5	19082.2	18425.4
67.5°	2611.2	2586.7	2676.5	3031.5	3115.1	5754.9	19367.8	28460.1	28603.0	21526.2	19937.0
70°	2103.2	2066.5	2207.3	2674.5	2896.8	3482.3	13874.1	27383.0	27613.5	22982.7	19510.6
72.5°	1452.5	1454.5	1525.9	2166.5	2796.9	3007.0	7847.9	22801.2	23301.0	21662.8	17152.4
75°	979.2	987.4	1007.8	1430.0	2576.5	2917.2	4182.0	17262.5	17615.5	17905.1	14178.1
77.5°	591.6	595.7	642.6	865.0	1776.8	2723.4	2833.6	12513.4	12790.8	11803.5	8788.4
80°	342.7	357.0	399.8	579.4	1199.5	2046.1	2193.0	7672.5	7986.6	5246.9	2792.8
82.5°	151.0	161.2	218.3	336.6	699.7	1740.1	1711.6	3031.5	2986.6	1462.7	969.0
85°	26.5	32.6	46.9	106.1	257.0	918.0	1328.0	1338.2	1258.7	554.9	401.9
87.5°	0.0	0.0	0.0	0.0	0.0	6.1	199.9	359.0	357.0	157.1	138.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P642927  
 CATALOG NUMBER: GWS-SA6D-830-U-SL2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2	6179.2
2.5°	6209.8	6154.7	6203.7	6209.8	6199.6	6191.4	6130.2	6077.2	6071.1	6013.9	6013.9
5°	6232.2	6181.2	6205.7	6158.8	6085.3	6009.9	5879.3	5789.5	5748.7	5675.3	5675.3
7.5°	6262.8	6209.8	6181.2	6064.9	5893.6	5728.3	5518.2	5342.8	5271.4	5167.3	5163.3
10°	6291.4	6224.1	6126.1	5899.7	5626.3	5363.2	5057.2	4808.3	4639.0	4514.5	4514.5
12.5°	6289.3	6201.6	6007.8	5673.3	5295.9	4914.4	4506.4	4131.0	3906.6	3712.8	3700.6
15°	6285.3	6164.9	5856.9	5410.1	4910.3	4381.9	3827.1	3337.5	3004.9	2815.2	2798.9
17.5°	6281.2	6118.0	5687.5	5110.2	4441.1	3721.0	2988.6	2458.2	2180.8	2064.5	2068.6
20°	6281.2	6064.9	5506.0	4765.5	3900.5	2929.5	2193.0	1807.4	1738.1	1744.2	1750.3
22.5°	6262.8	5999.7	5304.0	4390.1	3298.7	2154.2	1617.7	1487.2	1523.9	1581.0	1589.2
25°	6220.0	5891.5	5069.4	3973.9	2582.6	1568.8	1319.9	1295.4	1362.7	1434.1	1454.5
27.5°	6152.7	5767.1	4806.3	3486.4	1901.3	1260.7	1160.8	1158.7	1211.8	1264.8	1283.2
30°	6081.3	5628.4	4528.8	2943.7	1377.0	1097.5	1058.8	1058.8	1085.3	1117.9	1113.8
32.5°	5997.6	5487.6	4231.0	2378.6	1122.0	1005.7	993.5	987.4	991.4	1003.7	1003.7
35°	5926.2	5363.2	3925.0	1780.9	1005.7	954.7	942.5	928.2	922.1	913.9	918.0
37.5°	5899.7	5265.3	3608.8	1342.3	948.6	918.0	897.6	877.2	862.9	858.8	856.8
40°	5942.5	5224.5	3292.6	1105.7	907.8	879.2	856.8	830.3	818.0	818.0	818.0
42.5°	6109.8	5255.1	2970.3	999.6	879.2	846.6	814.0	789.5	785.4	789.5	791.5
45°	6415.8	5373.4	2635.7	946.6	854.8	814.0	775.2	756.8	756.8	760.9	760.9
47.5°	6962.5	5683.5	2305.2	913.9	830.3	787.4	746.6	728.3	726.2	730.3	730.3
50°	7909.1	6242.4	2007.4	891.5	811.9	767.0	726.2	701.8	695.6	693.6	693.6
52.5°	9102.5	7211.4	1817.6	875.2	789.5	744.6	703.8	671.2	658.9	652.8	652.8
55°	10544.8	8502.8	1817.6	862.9	760.9	718.1	671.2	638.5	620.2	612.0	612.0
57.5°	12178.8	10006.2	2131.8	852.7	738.5	687.5	636.5	603.8	583.4	571.2	571.2
60°	13841.5	11595.4	2909.1	838.4	718.1	648.7	597.7	567.1	540.6	526.3	524.3
62.5°	15565.3	13345.7	3933.1	846.6	703.8	612.0	556.9	522.2	499.8	485.5	483.5
65°	17144.2	15012.4	4828.7	909.8	705.8	579.4	510.0	479.4	461.0	442.7	440.6
67.5°	18484.5	15932.5	4200.4	1038.4	748.7	540.6	463.1	432.5	416.2	403.9	401.9
70°	17546.1	14528.9	2382.7	1117.9	807.8	499.8	410.0	389.6	373.3	365.2	363.1
72.5°	15004.3	12301.2	1593.2	987.4	736.4	446.8	361.1	344.8	332.5	322.3	320.3
75°	12154.4	9755.3	1217.9	809.9	573.2	363.1	310.1	297.8	285.6	275.4	273.4
77.5°	7191.0	5636.5	897.6	640.6	403.9	283.6	257.0	246.8	234.6	226.4	224.4
80°	2295.0	1958.4	569.2	440.6	267.2	218.3	197.9	189.7	177.5	167.3	165.2
82.5°	875.2	756.8	301.9	224.4	177.5	148.9	132.6	124.4	116.3	106.1	104.0
85°	387.6	363.1	167.3	120.4	95.9	73.4	65.3	61.2	51.0	42.8	40.8
87.5°	136.7	136.7	71.4	34.7	20.4	10.2	6.1	2.0	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)