

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: P642847

Luminaire Tested: GWS-SA6D-760-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-760-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

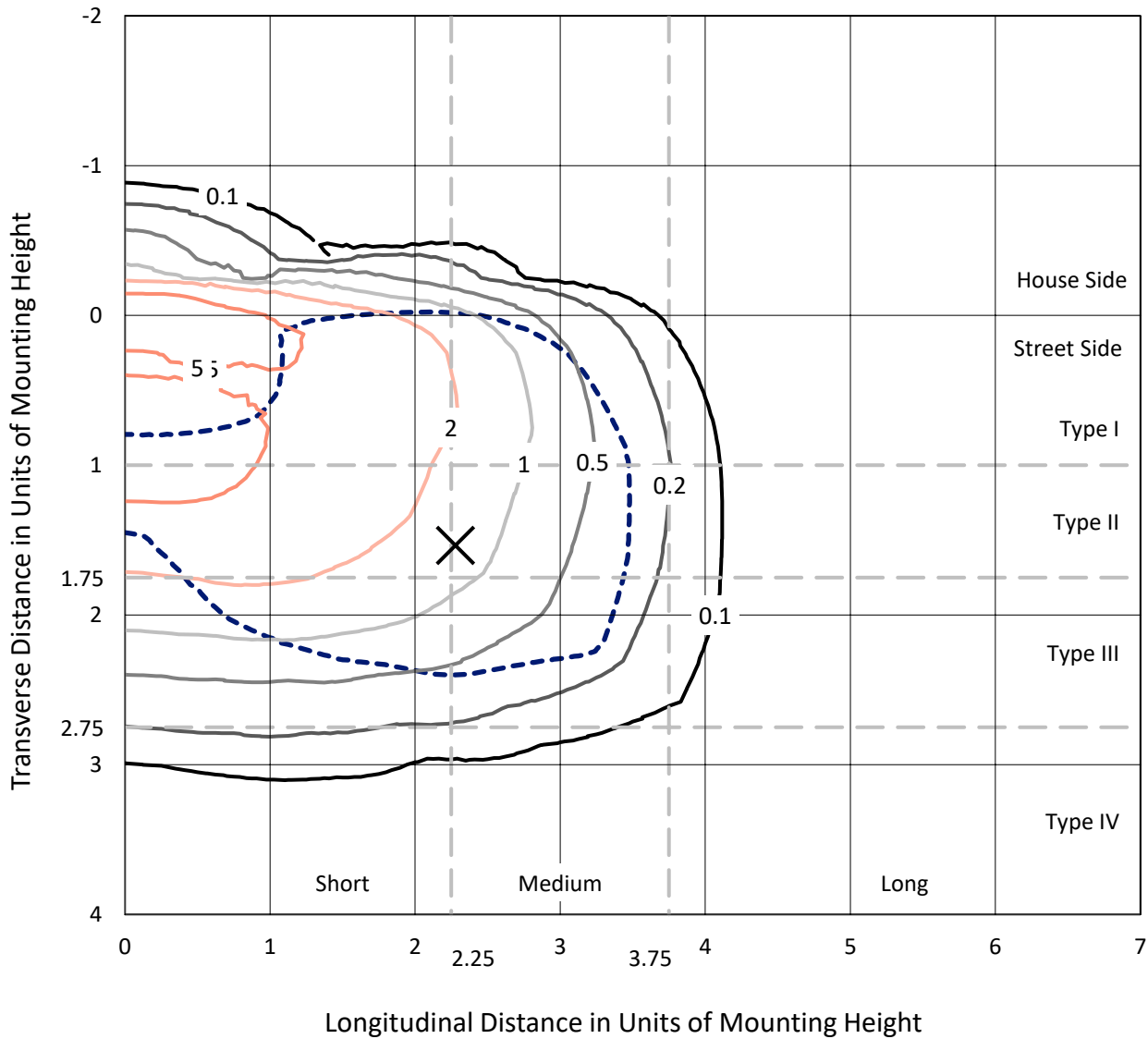
Lumens per Lamp: N/A  
Luminaire Lumens: 28291.5 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

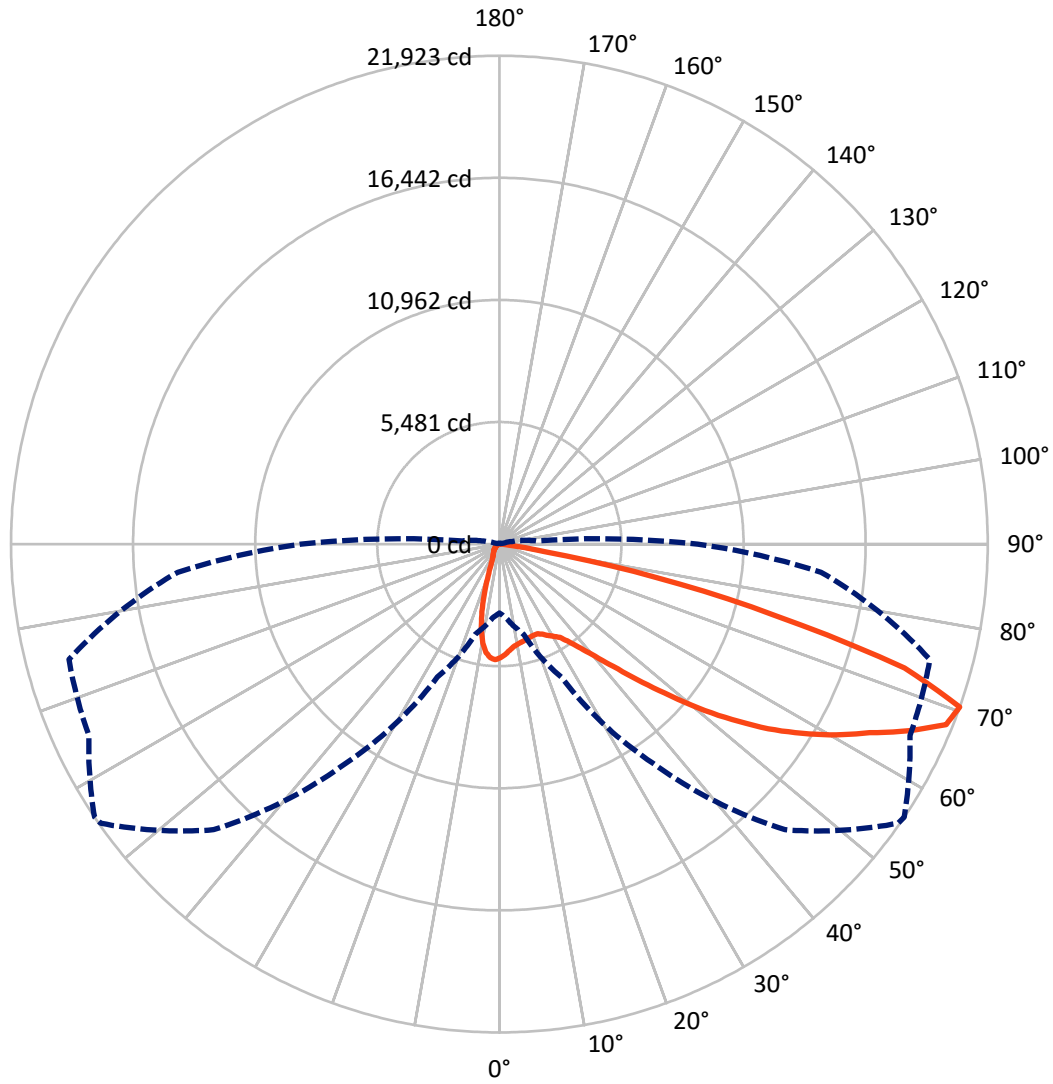
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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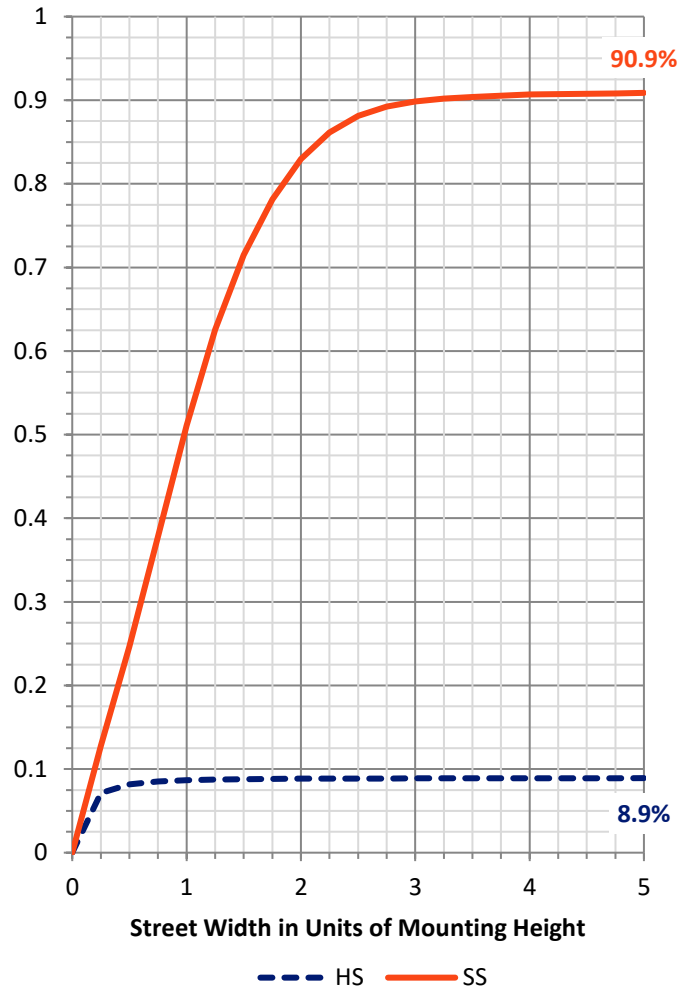
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2541.1	0.0	2541.1
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	25750.4	0.0	25750.4
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	28291.5	0.0	28291.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.0	1.5
10°-20°	985.1	3.5
20°-30°	1560.4	5.5
30°-40°	2690.9	9.5
40°-50°	4543.9	16.1
50°-60°	6676.5	23.6
60°-70°	7915.4	28.0
70°-80°	3375.4	11.9
80°-90°	106.0	0.4
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°	28291.5	100.0
0°-180°	28291.5	100.0

**Coefficient of Utilization**



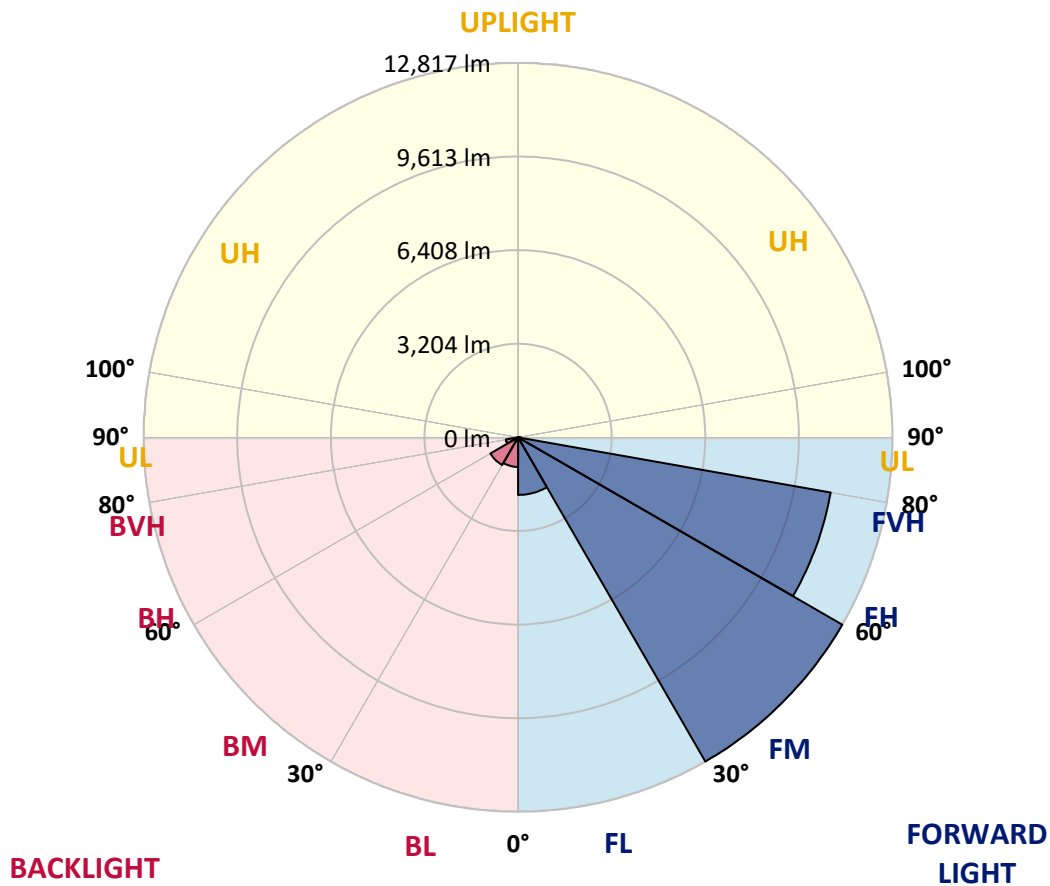
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.4	7.0			
FM (30°-60°)	12816.8	45.3			
FH (60°-80°)	10867.0	38.4			G4/12000
FVH (80°-90°)	95.2	0.3			G1/100
BL (0°-30°)	1012.0	3.6	B3/2500		
BM (30°-60°)	1094.5	3.9	B2/2500		
BH (60°-80°)	423.8	1.5	B1/500		G1/500
BVH (80°-90°)	10.8	0.0			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2
2.5°	4748.9	4741.1	4746.3	4785.2	4857.7	4891.4	4948.4	4958.7	5005.4	5065.0	5088.3
5°	4440.6	4414.7	4427.6	4482.0	4565.0	4658.2	4764.4	4792.9	4909.5	5041.7	5140.1
7.5°	4158.2	4129.7	4160.8	4246.3	4362.9	4463.9	4621.9	4640.1	4826.6	5059.8	5238.6
10°	3715.2	3722.9	3785.1	3935.4	4114.2	4324.0	4536.5	4562.4	4792.9	5119.4	5396.6
12.5°	3375.8	3357.6	3425.0	3596.0	3847.3	4153.0	4471.7	4505.4	4795.5	5210.1	5598.7
15°	3217.7	3212.6	3241.1	3365.4	3609.0	3969.1	4412.1	4456.1	4829.2	5293.0	5790.4
17.5°	3222.9	3215.2	3212.6	3285.1	3466.5	3831.8	4347.3	4404.3	4857.7	5383.6	5992.5
20°	3448.3	3412.1	3347.3	3313.6	3422.4	3743.7	4303.3	4368.1	4899.2	5479.5	6207.5
22.5°	3919.8	3932.8	3759.2	3577.9	3526.0	3754.0	4298.1	4373.2	4989.8	5629.8	6471.8
25°	4862.9	4842.2	4520.9	4114.2	3831.8	3873.2	4388.8	4479.5	5168.6	5844.8	6720.5
27.5°	6044.3	6062.4	5622.0	4974.3	4383.6	4119.3	4554.6	4645.3	5375.9	5979.5	6886.3
30°	7331.9	7313.8	6842.2	6124.6	5166.0	4528.7	4720.4	4800.7	5479.5	6052.1	7057.3
32.5°	8549.6	8508.1	8041.8	7290.4	6163.5	5173.8	4948.4	4995.0	5616.8	6210.1	7287.9
35°	9588.5	9585.9	9179.1	8378.6	7189.4	5982.1	5339.6	5378.5	5873.3	6461.4	7627.3
37.5°	10661.1	10624.8	10168.8	9438.2	8243.9	6868.2	5938.1	5922.5	6277.5	6831.9	8044.4
40°	11541.9	11518.6	11168.8	10466.7	9339.8	7847.5	6663.5	6616.8	6756.7	7344.9	8624.7
42.5°	12194.8	12197.4	12088.6	11661.1	10500.4	8979.6	7575.4	7502.9	7500.3	8119.5	9391.6
45°	12689.6	12723.3	12886.5	12821.8	11870.9	10298.3	8743.9	8668.7	8541.8	9124.7	10269.8
47.5°	12920.2	12964.3	13456.5	13715.6	13070.5	11606.7	10135.1	9977.1	9728.4	10461.6	11251.7
50°	12896.9	12974.6	13661.2	14448.8	14158.6	12933.2	11650.7	11575.6	11168.8	11876.1	12223.3
52.5°	12368.4	12534.2	13674.1	14894.4	14995.4	14156.0	13218.1	13078.2	12881.3	13352.9	13135.2
55°	10933.1	11135.2	13127.5	15036.9	15648.3	15223.4	14751.9	14637.9	14311.5	14746.7	13930.6
57.5°	10153.3	10326.8	11977.2	14966.9	16202.7	16210.5	16117.2	16024.0	15754.5	16125.0	14863.3
60°	9684.3	9857.9	11363.2	14710.4	16705.3	17252.0	17399.7	17389.3	17000.7	17692.4	15956.6
62.5°	8997.8	9236.1	10723.2	14044.6	17062.9	18277.9	18723.6	18653.6	18220.9	19324.6	17039.5
65°	7611.7	7819.0	9412.3	12946.1	16853.0	19127.7	20158.8	20195.1	19695.1	20860.9	17894.5
67.5°	5337.0	5489.9	7072.8	10640.3	15428.1	19407.5	21627.8	21625.2	20772.9	21648.5	17516.3
70°	3093.4	3303.2	4178.9	6578.0	12003.1	18135.4	21848.0	21923.2	20335.0	20003.4	14495.4
72.5°	1196.9	1370.5	2368.0	3495.0	6259.3	13891.8	18793.5	19013.7	17018.8	15430.7	10088.5
75°	357.5	399.0	1114.0	1860.2	2513.1	6710.1	12723.3	12785.5	11674.0	9624.7	5171.2
77.5°	266.9	295.3	487.1	940.5	880.9	2033.8	6583.2	7189.4	6197.1	3438.0	1424.9
80°	181.4	215.0	347.2	458.6	326.4	541.5	1849.8	2031.2	1891.3	772.1	357.5
82.5°	80.3	103.6	246.1	230.6	119.2	155.4	570.0	606.2	391.2	233.2	124.4
85°	7.8	10.4	93.3	101.0	44.0	36.3	119.2	119.2	85.5	80.3	51.8
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	10.4	13.0	15.5	20.7	25.9
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°	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2	5101.2
2.5°	5147.9	5116.8	5155.6	5186.7	5194.5	5137.5	5103.8	5054.6	5044.2	5046.8	5033.9
5°	5217.8	5202.3	5230.8	5197.1	5109.0	4943.2	4800.7	4642.7	4557.2	4508.0	4502.8
7.5°	5347.4	5339.6	5308.5	5155.6	4881.0	4513.1	4158.2	3811.0	3596.0	3518.3	3505.3
10°	5539.1	5523.5	5396.6	5033.9	4448.4	3741.1	3145.2	2647.8	2344.7	2256.6	2147.8
12.5°	5759.3	5728.2	5451.0	4772.2	3795.5	2816.2	2072.6	1515.6	1253.9	1176.2	1176.2
15°	5971.7	5904.4	5419.9	4339.6	2992.3	1831.7	1158.1	875.7	795.4	774.6	774.6
17.5°	6189.4	6059.8	5298.1	3748.9	2067.4	1082.9	772.1	717.6	707.3	709.9	712.5
20°	6394.0	6192.0	5083.1	3039.0	1318.7	756.5	691.7	678.8	673.6	678.8	676.2
22.5°	6616.8	6313.7	4756.7	2264.3	857.5	681.4	658.1	647.7	642.5	650.3	650.3
25°	6837.1	6401.8	4324.0	1523.4	681.4	634.7	621.8	611.4	606.2	608.8	608.8
27.5°	6951.1	6368.1	3756.6	971.5	611.4	588.1	575.2	562.2	554.4	551.8	554.4
30°	7028.8	6264.5	3062.3	691.7	554.4	525.9	513.0	502.6	481.9	468.9	474.1
32.5°	7150.5	6160.9	2308.4	580.3	507.8	463.7	443.0	417.1	388.6	375.7	375.7
35°	7295.6	6018.4	1619.2	523.3	458.6	411.9	373.1	329.0	295.3	285.0	285.0
37.5°	7487.3	5883.7	1077.8	484.5	417.1	367.9	313.5	261.7	225.4	220.2	217.6
40°	7774.9	5769.7	759.1	456.0	380.8	321.3	256.5	202.1	176.2	168.4	168.4
42.5°	8148.0	5653.1	601.1	427.5	349.8	277.2	204.7	160.6	139.9	134.7	132.1
45°	8609.2	5515.8	523.3	401.6	318.7	230.6	163.2	134.7	119.2	114.0	114.0
47.5°	9109.2	5329.2	487.1	367.9	282.4	186.5	137.3	116.6	108.8	106.2	103.6
50°	9601.4	5077.9	456.0	336.8	240.9	152.9	119.2	106.2	101.0	98.4	98.4
52.5°	10031.5	4785.2	417.1	300.5	196.9	132.1	106.2	98.4	93.3	88.1	85.5
55°	10399.4	4466.5	367.9	259.1	160.6	116.6	98.4	90.7	85.5	80.3	77.7
57.5°	10873.5	4285.1	295.3	209.9	132.1	103.6	90.7	82.9	77.7	70.0	70.0
60°	11399.4	4153.0	220.2	165.8	114.0	95.9	82.9	75.1	70.0	62.2	62.2
62.5°	11821.7	3956.1	173.6	134.7	98.4	85.5	75.1	67.4	62.2	54.4	54.4
65°	11982.3	3549.4	142.5	106.2	80.3	75.1	67.4	62.2	54.4	46.6	46.6
67.5°	11256.9	2735.9	119.2	85.5	67.4	64.8	59.6	57.0	46.6	41.5	38.9
70°	8914.9	1668.5	98.4	70.0	57.0	54.4	54.4	49.2	41.5	38.9	36.3
72.5°	6109.1	860.1	80.3	57.0	49.2	49.2	46.6	44.0	38.9	36.3	36.3
75°	3173.7	287.6	62.2	44.0	38.9	41.5	41.5	38.9	36.3	36.3	33.7
77.5°	909.4	129.5	46.6	33.7	31.1	31.1	33.7	33.7	33.7	31.1	31.1
80°	235.8	75.1	33.7	25.9	25.9	25.9	25.9	28.5	31.1	28.5	28.5
82.5°	95.9	41.5	23.3	20.7	20.7	20.7	20.7	23.3	25.9	25.9	25.9
85°	59.6	20.7	18.1	18.1	18.1	15.5	15.5	18.1	18.1	20.7	20.7
87.5°	36.3	15.5	15.5	15.5	15.5	13.0	13.0	13.0	13.0	13.0	13.0
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)