

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: P642627

Luminaire Tested: GWS-SA6D-730-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642627  
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-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

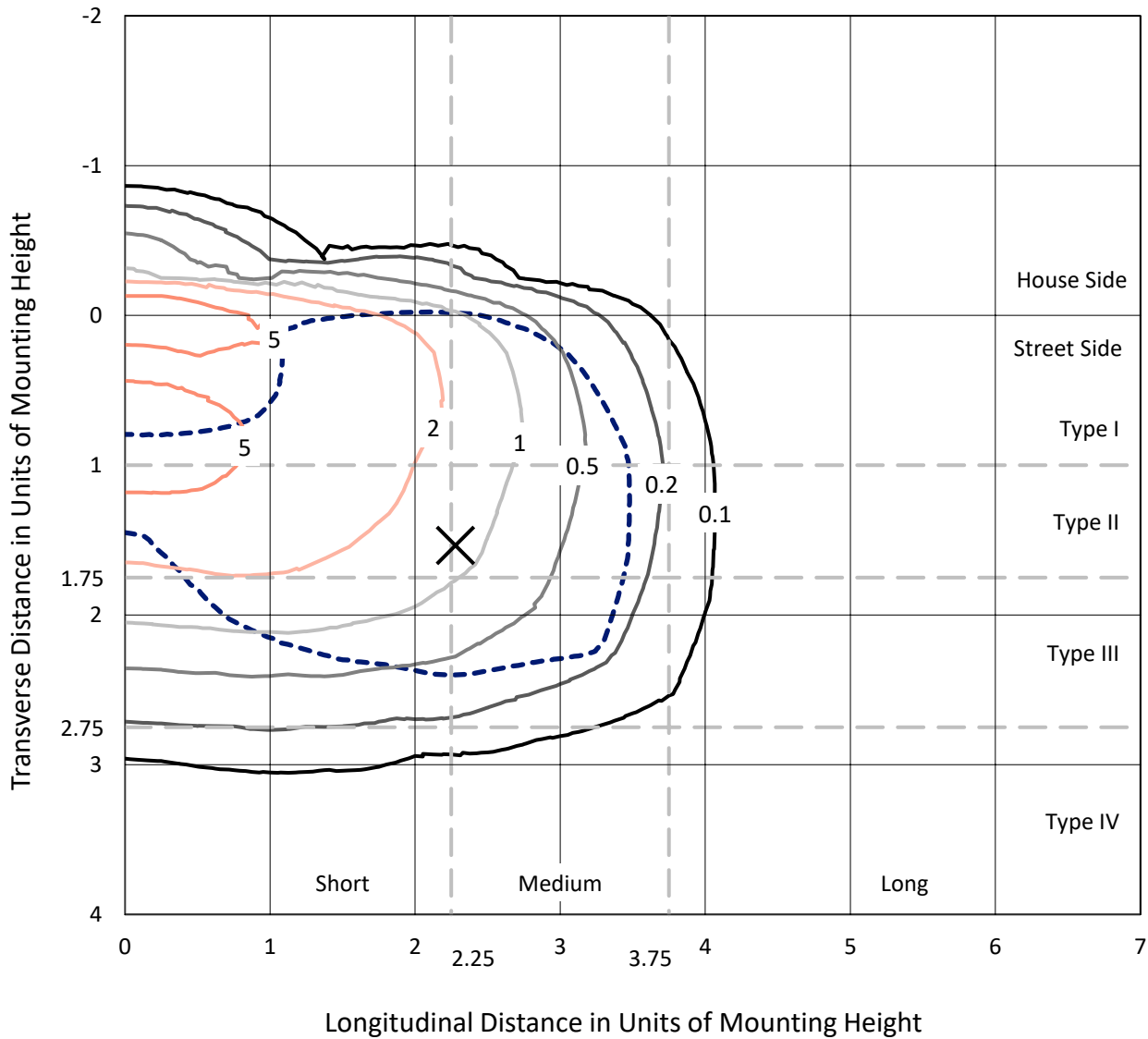
Lumens per Lamp: N/A  
Luminaire Lumens: 25535.5 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): 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

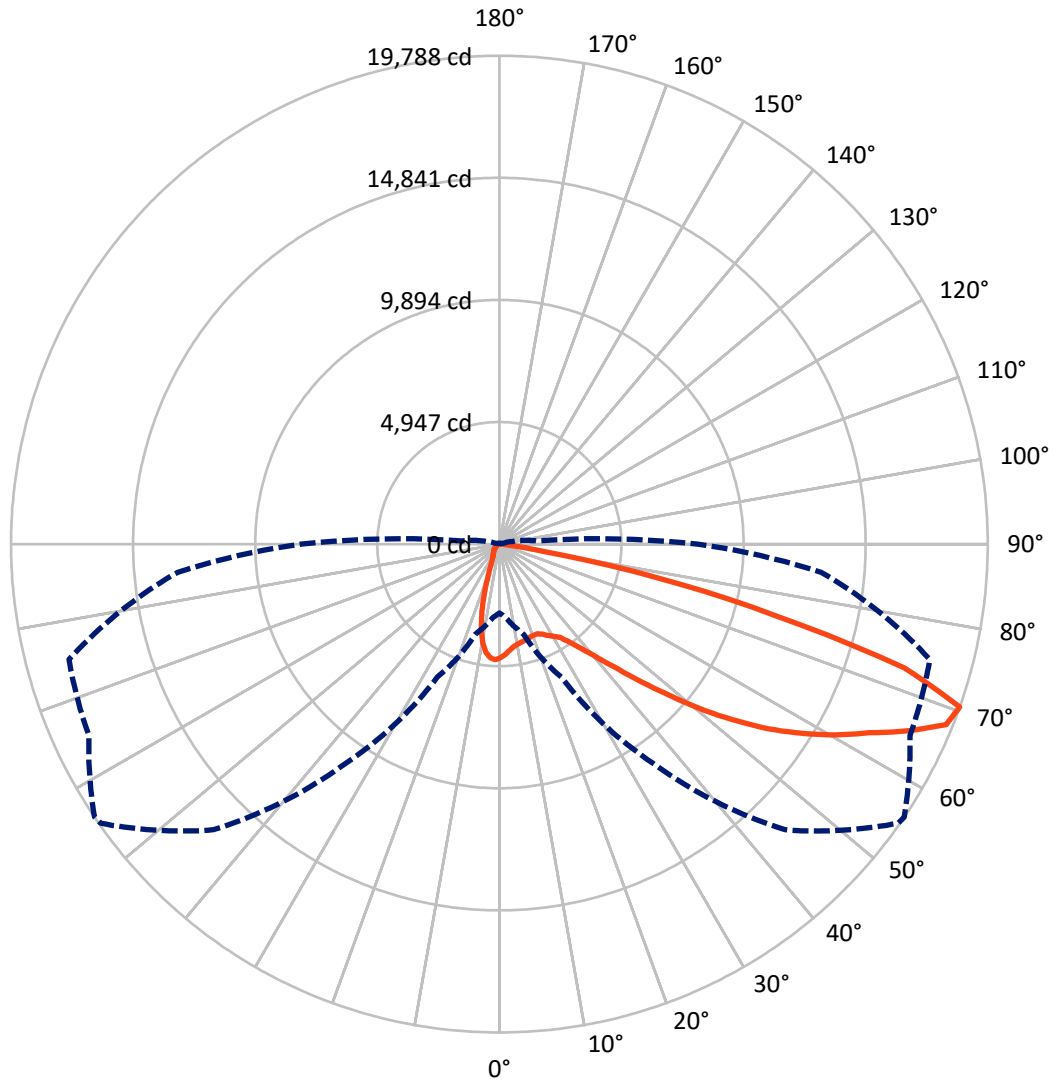
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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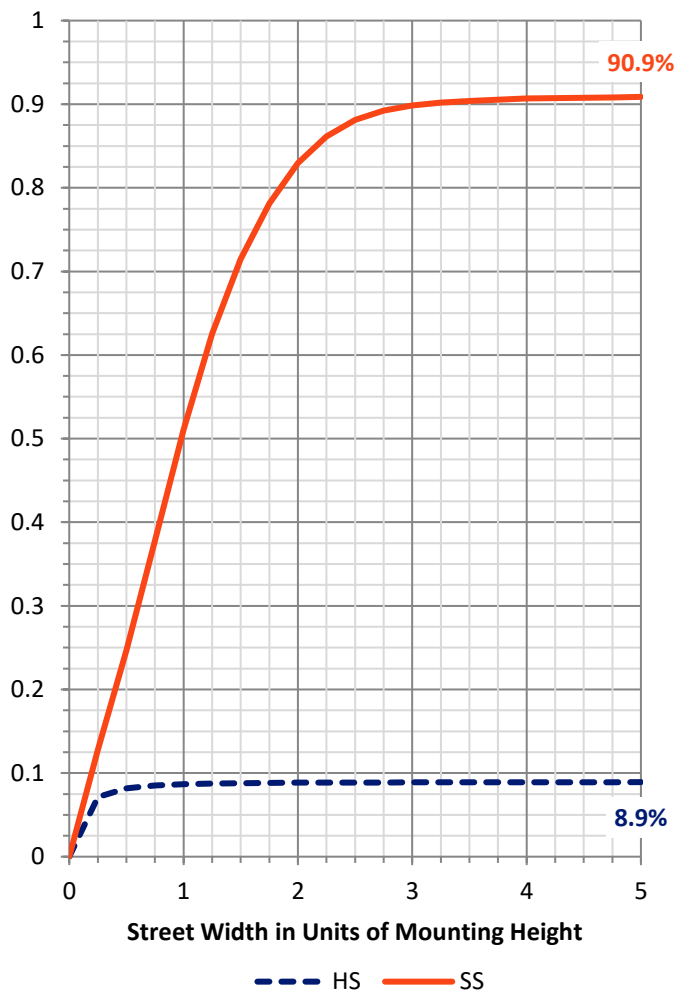
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2293.6	0.0	2293.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	23241.9	0.0	23241.9
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	25535.5	0.0	25535.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.3	1.5
10°-20°	889.1	3.5
20°-30°	1408.4	5.5
30°-40°	2428.7	9.5
40°-50°	4101.3	16.1
50°-60°	6026.1	23.6
60°-70°	7144.3	28.0
70°-80°	3046.6	11.9
80°-90°	95.7	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°	25535.5	100.0
0°-180°	25535.5	100.0

**Coefficient of Utilization**



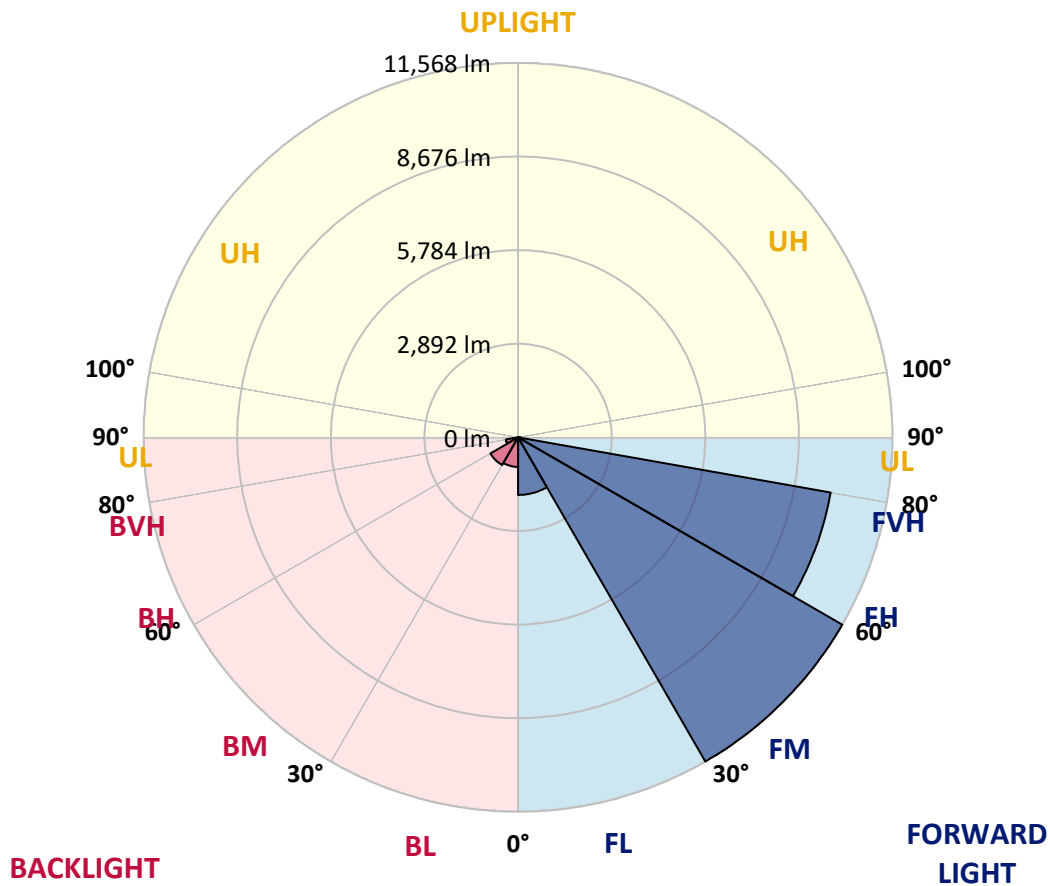
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.4	7.0			
FM (30°-60°)	11568.3	45.3			
FH (60°-80°)	9808.4	38.4			G4/12000
FVH (80°-90°)	85.9	0.3			G1/100
BL (0°-30°)	913.4	3.6	B2/1000		
BM (30°-60°)	987.9	3.9	B1/1000		
BH (60°-80°)	382.5	1.5	B1/500		G1/500
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3
2.5°	4286.3	4279.3	4283.9	4319.0	4384.5	4414.9	4466.3	4475.7	4517.8	4571.6	4592.6
5°	4008.0	3984.6	3996.3	4045.4	4120.3	4204.4	4300.3	4326.0	4431.3	4550.5	4639.4
7.5°	3753.1	3727.4	3755.5	3832.6	3937.9	4029.1	4171.7	4188.1	4356.4	4566.9	4728.2
10°	3353.3	3360.3	3416.4	3552.0	3713.4	3902.8	4094.5	4117.9	4326.0	4620.7	4870.9
12.5°	3046.9	3030.6	3091.4	3245.7	3472.5	3748.5	4036.1	4066.5	4328.4	4702.5	5053.3
15°	2904.3	2899.6	2925.3	3037.6	3257.4	3582.4	3982.3	4022.0	4358.8	4777.3	5226.3
17.5°	2909.0	2902.0	2899.6	2965.1	3128.8	3458.5	3923.8	3975.3	4384.5	4859.2	5408.7
20°	3112.4	3079.7	3021.2	2990.8	3089.0	3379.0	3884.1	3942.5	4421.9	4945.7	5602.8
22.5°	3538.0	3549.7	3393.0	3229.3	3182.6	3388.3	3879.4	3947.2	4503.8	5081.3	5841.3
25°	4389.2	4370.5	4080.5	3713.4	3458.5	3495.9	3961.2	4043.1	4665.1	5275.4	6065.8
27.5°	5455.5	5471.9	5074.3	4489.7	3956.6	3718.1	4110.9	4192.7	4852.2	5397.0	6215.5
30°	6617.7	6601.3	6175.7	5528.0	4662.8	4087.5	4260.6	4333.1	4945.7	5462.5	6369.8
32.5°	7716.7	7679.3	7258.4	6580.3	5563.1	4669.8	4466.3	4508.4	5069.6	5605.1	6577.9
35°	8654.4	8652.1	8284.9	7562.4	6489.1	5399.4	4819.4	4854.5	5301.2	5832.0	6884.2
37.5°	9622.5	9589.8	9178.2	8518.8	7440.8	6199.1	5359.6	5345.6	5665.9	6166.4	7260.7
40°	10417.6	10396.5	10080.8	9447.1	8429.9	7083.0	6014.4	5972.3	6098.5	6629.4	7784.5
42.5°	11006.8	11009.2	10911.0	10525.1	9477.5	8104.9	6837.5	6772.0	6769.7	7328.5	8476.7
45°	11453.5	11483.9	11631.2	11572.7	10714.5	9295.1	7892.1	7824.3	7709.7	8235.8	9269.4
47.5°	11661.6	11701.3	12145.6	12379.5	11797.2	10476.0	9147.8	9005.2	8780.7	9442.5	10155.7
50°	11640.6	11710.7	12330.4	13041.3	12779.4	11673.3	10515.8	10448.0	10080.8	10719.2	11032.6
52.5°	11163.5	11313.2	12342.1	13443.5	13534.7	12777.0	11930.5	11804.2	11626.5	12052.1	11855.7
55°	9868.0	10050.4	11848.7	13572.1	14123.9	13740.4	13314.8	13212.0	12917.3	13310.2	12573.6
57.5°	9164.2	9320.9	10810.4	13508.9	14624.3	14631.4	14547.2	14463.0	14219.8	14554.2	13415.4
60°	8740.9	8897.6	10256.2	13277.4	15078.0	15571.4	15704.7	15695.3	15344.6	15968.9	14402.2
62.5°	8121.3	8336.4	9678.6	12676.5	15400.7	16497.4	16899.6	16836.5	16446.0	17442.1	15379.7
65°	6870.2	7057.3	8495.4	11685.0	15211.3	17264.4	18195.1	18227.8	17776.5	18828.8	16151.3
67.5°	4817.1	4955.1	6383.8	9603.8	13925.2	17516.9	19521.0	19518.6	18749.3	19539.7	15809.9
70°	2792.0	2981.5	3771.8	5937.2	10833.8	16368.8	19719.7	19787.5	18354.1	18054.8	13083.3
72.5°	1080.3	1237.0	2137.3	3154.5	5649.6	12538.5	16962.7	17161.5	15360.9	13927.5	9105.7
75°	322.7	360.1	1005.5	1679.0	2268.2	6056.5	11483.9	11540.0	10536.8	8687.2	4667.4
77.5°	240.9	266.6	439.6	848.8	795.1	1835.6	5941.9	6489.1	5593.5	3103.1	1286.1
80°	163.7	194.1	313.3	413.9	294.6	488.7	1669.6	1833.3	1707.0	696.8	322.7
82.5°	72.5	93.5	222.1	208.1	107.6	140.3	514.4	547.2	353.1	210.5	112.2
85°	7.0	9.4	84.2	91.2	39.8	32.7	107.6	107.6	77.2	72.5	46.8
87.5°	0.0	0.0	2.3	4.7	4.7	7.0	9.4	11.7	14.0	18.7	23.4
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°	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3	4604.3
2.5°	4646.4	4618.3	4653.4	4681.5	4688.5	4637.0	4606.6	4562.2	4552.9	4555.2	4543.5
5°	4709.5	4695.5	4721.2	4690.8	4611.3	4461.7	4333.1	4190.4	4113.2	4068.8	4064.1
7.5°	4826.5	4819.4	4791.4	4653.4	4405.5	4073.5	3753.1	3439.8	3245.7	3175.5	3163.9
10°	4999.5	4985.5	4870.9	4543.5	4015.0	3376.6	2838.8	2389.8	2116.3	2036.7	1938.5
12.5°	5198.3	5170.2	4920.0	4307.3	3425.8	2541.8	1870.7	1368.0	1131.8	1061.6	1061.6
15°	5390.0	5329.2	4891.9	3916.8	2700.9	1653.2	1045.3	790.4	717.9	699.2	699.2
17.5°	5586.4	5469.5	4782.0	3383.7	1866.0	977.5	696.8	647.7	638.4	640.7	643.1
20°	5771.2	5588.8	4587.9	2742.9	1190.2	682.8	624.4	612.7	608.0	612.7	610.3
22.5°	5972.3	5698.7	4293.3	2043.8	774.0	615.0	594.0	584.6	579.9	586.9	586.9
25°	6171.0	5778.2	3902.8	1375.0	615.0	572.9	561.2	551.9	547.2	549.5	549.5
27.5°	6273.9	5747.8	3390.7	876.9	551.9	530.8	519.1	507.4	500.4	498.1	500.4
30°	6344.1	5654.2	2764.0	624.4	500.4	474.7	463.0	453.6	434.9	423.3	427.9
32.5°	6454.0	5560.7	2083.5	523.8	458.3	418.6	399.9	376.5	350.8	339.1	339.1
35°	6584.9	5432.1	1461.5	472.4	413.9	371.8	336.7	297.0	266.6	257.2	257.2
37.5°	6758.0	5310.5	972.8	437.3	376.5	332.1	282.9	236.2	203.4	198.8	196.4
40°	7017.5	5207.6	685.2	411.6	343.7	290.0	231.5	182.4	159.0	152.0	152.0
42.5°	7354.3	5102.4	542.5	385.8	315.7	250.2	184.7	145.0	126.3	121.6	119.3
45°	7770.5	4978.5	472.4	362.5	287.6	208.1	147.3	121.6	107.6	102.9	102.9
47.5°	8221.8	4810.1	439.6	332.1	254.9	168.4	123.9	105.2	98.2	95.9	93.5
50°	8666.1	4583.3	411.6	304.0	217.5	138.0	107.6	95.9	91.2	88.9	88.9
52.5°	9054.3	4319.0	376.5	271.3	177.7	119.3	95.9	88.9	84.2	79.5	77.2
55°	9386.3	4031.4	332.1	233.8	145.0	105.2	88.9	81.8	77.2	72.5	70.2
57.5°	9814.3	3867.7	266.6	189.4	119.3	93.5	81.8	74.8	70.2	63.1	63.1
60°	10289.0	3748.5	198.8	149.7	102.9	86.5	74.8	67.8	63.1	56.1	56.1
62.5°	10670.1	3570.7	156.7	121.6	88.9	77.2	67.8	60.8	56.1	49.1	49.1
65°	10815.1	3203.6	128.6	95.9	72.5	67.8	60.8	56.1	49.1	42.1	42.1
67.5°	10160.3	2469.3	107.6	77.2	60.8	58.5	53.8	51.4	42.1	37.4	35.1
70°	8046.4	1505.9	88.9	63.1	51.4	49.1	49.1	44.4	37.4	35.1	32.7
72.5°	5513.9	776.3	72.5	51.4	44.4	44.4	42.1	39.8	35.1	32.7	32.7
75°	2864.5	259.6	56.1	39.8	35.1	37.4	37.4	35.1	32.7	32.7	30.4
77.5°	820.8	116.9	42.1	30.4	28.1	28.1	30.4	30.4	30.4	28.1	28.1
80°	212.8	67.8	30.4	23.4	23.4	23.4	23.4	25.7	28.1	25.7	25.7
82.5°	86.5	37.4	21.0	18.7	18.7	18.7	18.7	21.0	23.4	23.4	23.4
85°	53.8	18.7	16.4	16.4	16.4	14.0	14.0	16.4	16.4	18.7	18.7
87.5°	32.7	14.0	14.0	14.0	14.0	11.7	11.7	11.7	11.7	11.7	11.7
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)