

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: P642822

Luminaire Tested: GWS-SA6D-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

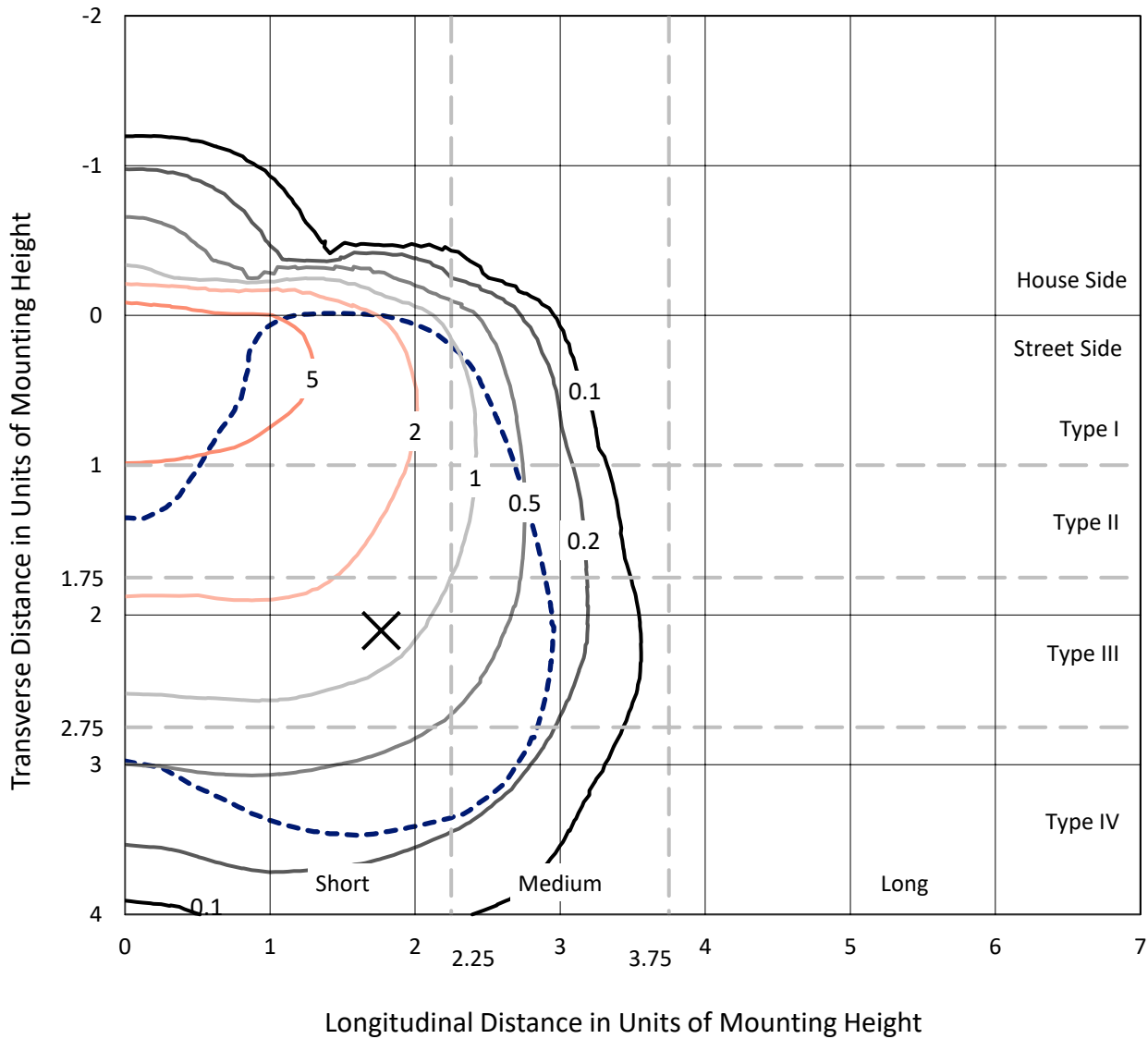
Lumens per Lamp: N/A  
Luminaire Lumens: 28475.5 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

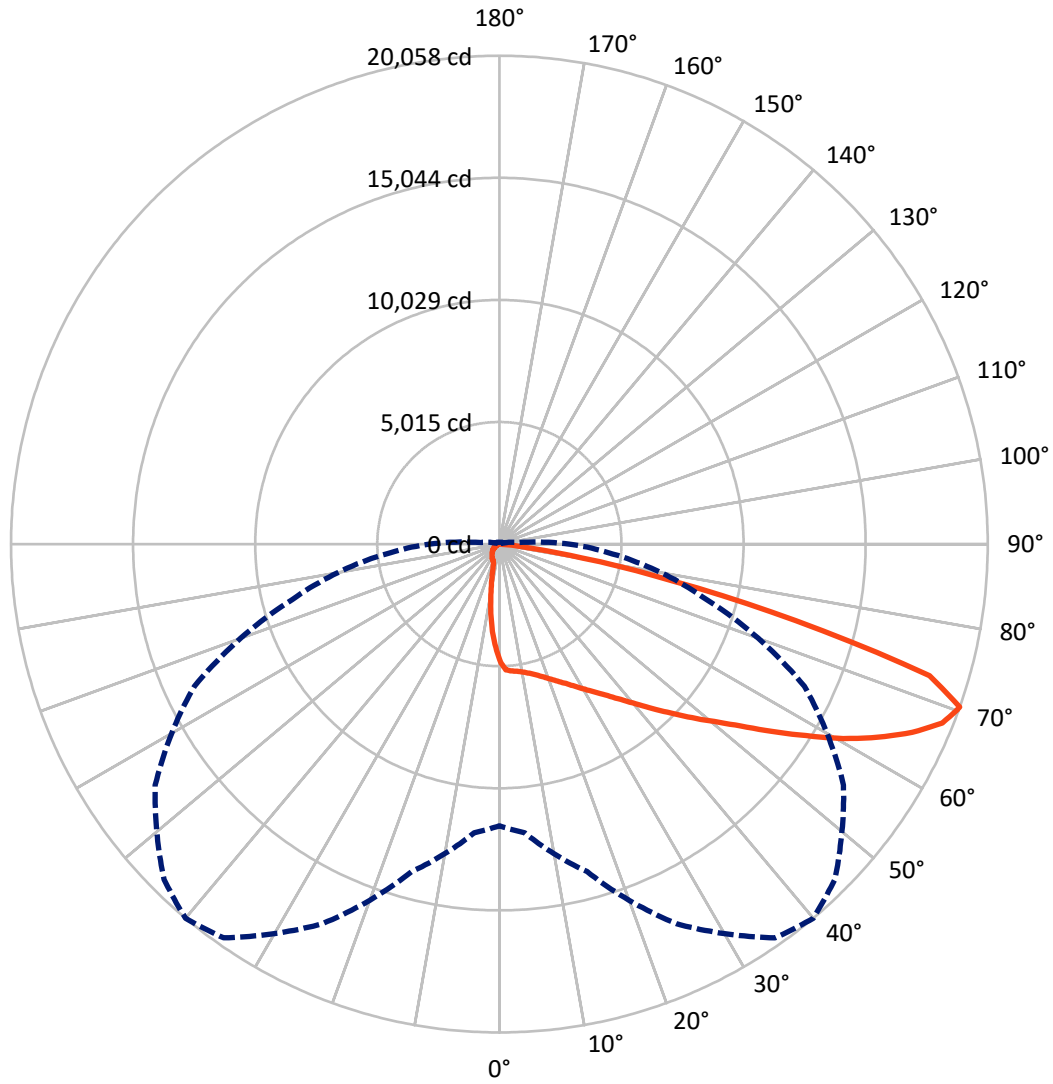
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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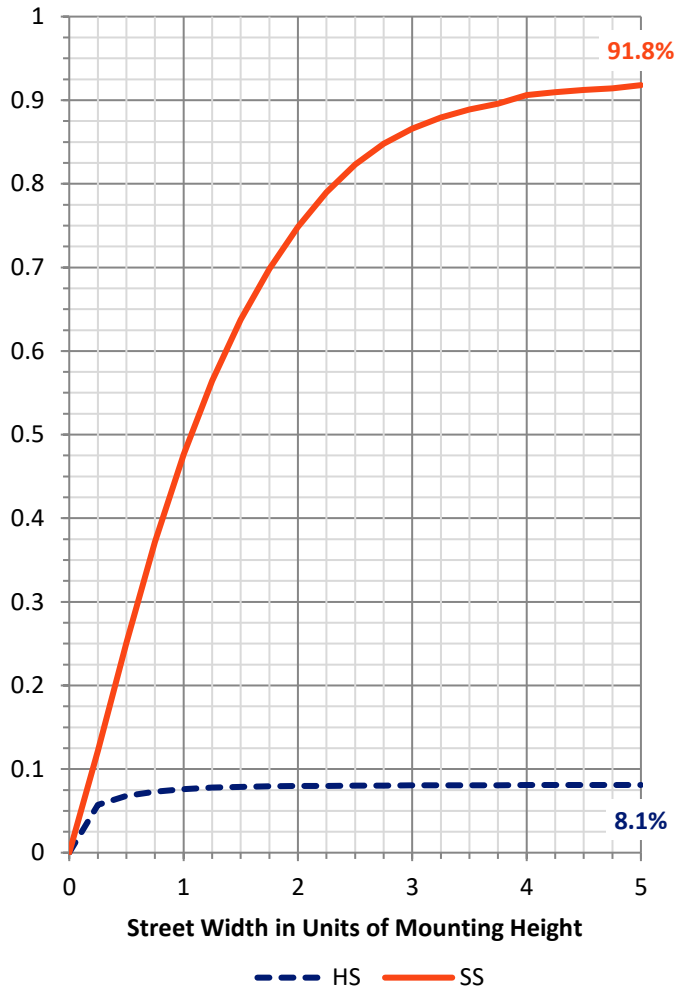
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2328.6	0.0	2328.6
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	26146.9	0.0	26146.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	28475.5	0.0	28475.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.4	1.4
10°-20°	1035.8	3.6
20°-30°	1733.6	6.1
30°-40°	2722.8	9.6
40°-50°	4306.8	15.1
50°-60°	6282.5	22.1
60°-70°	7788.1	27.4
70°-80°	3940.3	13.8
80°-90°	257.2	0.9
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°	28475.5	100.0
0°-180°	28475.5	100.0

**Coefficient of Utilization**



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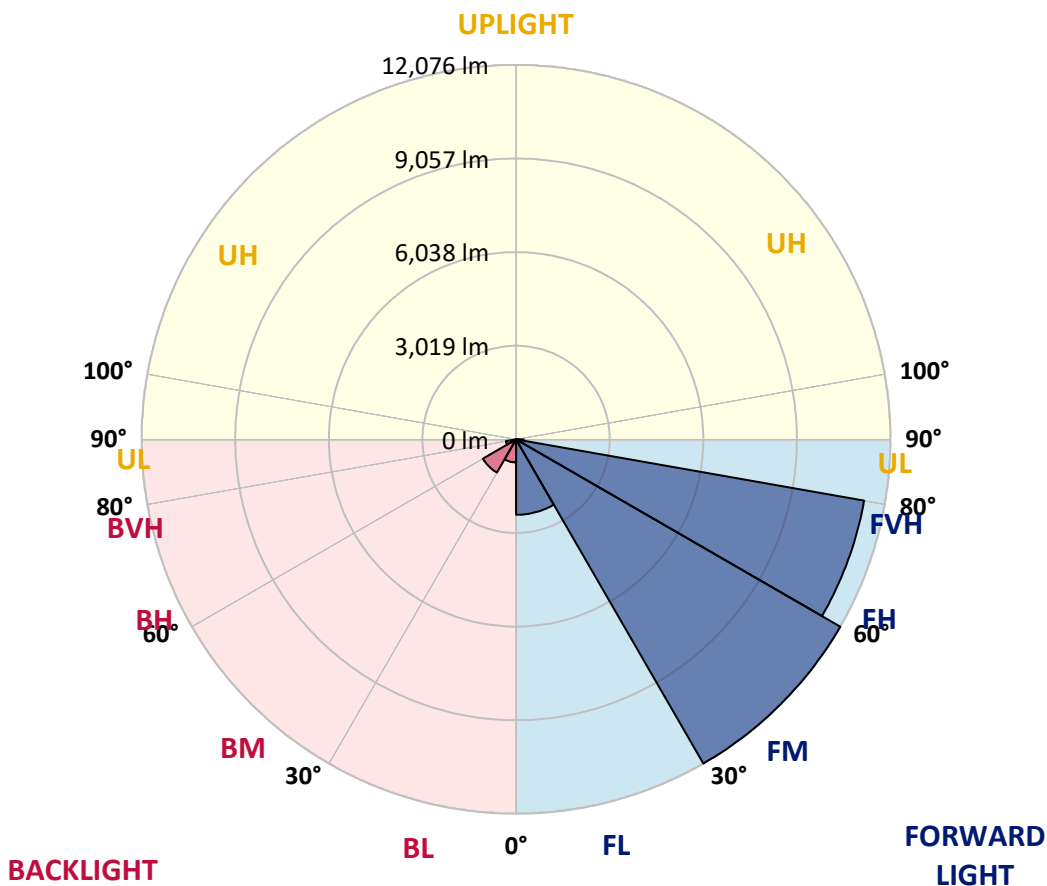
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.1	8.5			
FM (30°-60°)	12076.1	42.4			
FH (60°-80°)	11396.4	40.0			G4/12000
FVH (80°-90°)	240.3	0.8			G3/500
BL (0°-30°)	743.6	2.6	B2/1000		
BM (30°-60°)	1236.0	4.3	B2/2500		
BH (60°-80°)	332.0	1.2	B1/500		G1/500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0
2.5°	5194.7	5212.8	5210.2	5218.0	5199.9	5171.4	5166.2	5127.3	5057.4	4969.3	4870.8
5°	5300.9	5321.6	5306.1	5298.3	5264.6	5233.5	5225.8	5184.3	5104.0	4984.8	4813.8
7.5°	5391.6	5396.8	5386.4	5368.3	5319.0	5277.6	5249.1	5192.1	5096.2	4977.0	4780.1
10°	5407.1	5404.5	5409.7	5412.3	5381.2	5344.9	5321.6	5243.9	5122.1	4995.2	4782.7
12.5°	5389.0	5389.0	5422.7	5461.5	5461.5	5443.4	5420.1	5350.1	5207.6	5057.4	4834.5
15°	5412.3	5420.1	5484.8	5557.4	5580.7	5562.6	5552.2	5479.7	5332.0	5166.2	4927.8
17.5°	5495.2	5503.0	5606.6	5715.4	5743.9	5723.2	5702.5	5629.9	5471.9	5290.5	5034.0
20°	5617.0	5637.7	5769.8	5909.7	5935.7	5909.7	5868.3	5767.3	5609.2	5425.3	5135.1
22.5°	5839.8	5852.7	5995.2	6142.9	6155.9	6114.4	6052.2	5912.3	5746.5	5567.8	5249.1
25°	6135.2	6153.3	6295.8	6438.3	6404.6	6342.4	6256.9	6098.9	5909.7	5736.2	5394.2
27.5°	6487.5	6508.2	6648.1	6772.5	6684.4	6611.9	6516.0	6319.1	6127.4	5969.3	5580.7
30°	6868.4	6886.5	7010.9	7122.3	7005.7	6920.2	6806.2	6604.1	6409.8	6290.6	5845.0
32.5°	7236.3	7233.7	7352.9	7443.5	7324.4	7257.0	7153.4	6948.7	6793.2	6741.4	6238.8
35°	7578.3	7578.3	7676.7	7767.4	7681.9	7645.6	7549.8	7386.5	7298.4	7360.6	6764.7
37.5°	7922.8	7904.7	7998.0	8099.0	8091.3	8093.8	8039.4	7961.7	7966.9	8187.1	7487.6
40°	8207.8	8200.1	8308.9	8441.0	8544.7	8627.6	8593.9	8622.4	8785.6	9197.5	8412.5
42.5°	8435.8	8454.0	8593.9	8803.7	9065.4	9233.8	9257.1	9373.7	9793.4	10430.8	9456.6
45°	8697.5	8700.1	8894.4	9215.7	9632.8	9899.7	9992.9	10293.5	10889.4	11710.7	10601.8
47.5°	9018.8	8987.7	9205.3	9656.1	10259.8	10653.6	10819.4	11195.1	12117.4	12959.5	11534.5
50°	9373.7	9316.7	9562.9	10176.9	10961.9	11454.2	11791.0	12340.3	13335.1	13985.5	12228.9
52.5°	9785.7	9731.3	10011.1	10775.4	11804.0	12402.4	12835.1	13389.6	14379.3	14767.9	12643.4
55°	10309.0	10254.6	10550.0	11493.0	12798.8	13576.1	14029.5	14495.9	15350.8	15345.7	12943.9
57.5°	10889.4	10814.2	11223.6	12399.8	14039.9	14848.2	15309.4	15537.4	16089.2	15793.9	13146.0
60°	11555.2	11487.9	12055.3	13480.2	15472.6	16221.4	16511.5	16418.3	16695.5	16058.1	13076.1
62.5°	12156.3	12125.2	12829.9	14625.4	16838.0	17470.2	17550.5	17143.7	17141.1	16063.3	12604.5
65°	12780.7	12840.3	13887.0	15944.1	18211.1	18636.0	18498.7	17864.0	17319.9	15428.6	11210.6
67.5°	13013.9	13187.5	14583.9	17135.9	19294.1	19625.8	19384.8	18224.1	16576.3	13293.7	8536.9
70°	11573.4	11899.8	13925.9	17203.3	19742.3	20058.4	19480.7	17255.1	13819.6	8806.3	4676.5
72.5°	8801.1	9182.0	11604.5	14086.5	17755.2	18475.4	17488.3	14058.0	8907.4	3857.8	1570.1
75°	4925.2	5337.2	8643.1	10607.0	11920.5	12578.6	12215.9	9018.8	3945.9	1007.8	468.9
77.5°	1665.9	1803.2	4021.0	6562.6	7868.4	7277.7	6161.1	4479.6	1450.9	383.4	248.7
80°	987.1	1038.9	1497.5	3267.1	4140.2	3432.9	2710.0	1655.6	738.4	204.7	173.6
82.5°	295.4	349.8	826.5	1212.5	1621.9	1010.4	855.0	945.7	383.4	111.4	145.1
85°	0.0	0.0	176.2	375.7	424.9	165.8	165.8	536.3	70.0	46.6	106.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	13.0	7.8	10.4	23.3
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°	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0
2.5°	4800.9	4710.2	4604.0	4502.9	4407.1	4282.7	4223.1	4150.6	4088.4	4054.7	4072.8
5°	4705.0	4562.5	4344.9	4124.6	3901.8	3692.0	3502.8	3375.9	3261.9	3202.3	3215.3
7.5°	4622.1	4430.4	4091.0	3730.8	3373.3	3013.2	2720.4	2492.4	2316.2	2243.7	2230.7
10°	4585.8	4344.9	3865.6	3347.4	2798.1	2313.6	1899.1	1647.8	1469.0	1380.9	1396.5
12.5°	4604.0	4300.8	3673.8	2971.7	2259.2	1694.4	1298.0	1062.3	935.3	883.5	870.5
15°	4655.8	4290.5	3502.8	2588.3	1743.6	1184.0	896.4	800.6	774.7	769.5	769.5
17.5°	4715.4	4293.1	3326.7	2199.6	1323.9	878.3	766.9	748.8	741.0	735.8	738.4
20°	4775.0	4293.1	3124.6	1805.8	994.9	759.1	730.6	717.7	709.9	707.3	707.3
22.5°	4847.5	4293.1	2899.2	1440.5	798.0	720.3	696.9	689.2	681.4	678.8	676.2
25°	4935.6	4295.6	2650.4	1127.0	725.4	686.6	668.4	660.7	652.9	647.7	647.7
27.5°	5062.5	4316.4	2375.8	878.3	684.0	655.5	639.9	632.2	624.4	616.6	616.6
30°	5246.5	4368.2	2067.5	725.4	645.1	621.8	606.3	601.1	593.3	585.5	582.9
32.5°	5521.1	4458.9	1748.8	650.3	608.9	585.5	567.4	562.2	554.4	546.7	544.1
35°	5904.6	4624.7	1437.9	603.7	562.2	538.9	528.5	525.9	515.6	507.8	507.8
37.5°	6466.8	4894.1	1140.0	557.0	523.4	505.2	492.3	487.1	476.7	468.9	466.4
40°	7153.4	5243.9	886.1	520.8	487.1	468.9	456.0	448.2	435.3	424.9	419.7
42.5°	8029.1	5671.4	699.5	481.9	453.4	435.3	424.9	409.4	391.2	375.7	373.1
45°	8941.1	6111.8	577.8	445.6	422.3	406.8	393.8	373.1	347.2	329.0	323.9
47.5°	9640.6	6386.5	505.2	406.8	388.6	375.7	360.1	334.2	303.1	282.4	277.2
50°	10140.6	6427.9	450.8	370.5	360.1	347.2	323.9	292.8	259.1	238.4	233.2
52.5°	10386.8	6241.4	406.8	336.8	329.0	316.1	287.6	253.9	217.6	196.9	191.7
55°	10498.2	5889.0	365.3	308.3	297.9	282.4	251.3	215.0	178.8	160.6	155.5
57.5°	10454.1	5368.3	329.0	279.8	266.9	248.7	215.0	176.2	147.7	129.5	127.0
60°	10127.7	4637.6	292.8	251.3	235.8	215.0	181.4	145.1	119.2	106.2	103.6
62.5°	9423.0	3730.8	256.5	217.6	207.3	186.5	155.5	119.2	98.5	90.7	88.1
65°	7979.8	2637.5	220.2	184.0	178.8	158.0	129.5	98.5	85.5	80.3	77.7
67.5°	5736.2	1603.7	186.5	158.0	152.9	134.7	108.8	85.5	77.7	75.1	75.1
70°	2883.6	759.1	147.7	129.5	129.5	111.4	93.3	77.7	75.1	72.5	72.5
72.5°	979.3	323.9	111.4	101.0	106.2	95.9	80.3	72.5	72.5	72.5	72.5
75°	334.2	171.0	77.7	72.5	77.7	77.7	70.0	70.0	72.5	72.5	72.5
77.5°	217.6	114.0	54.4	49.2	59.6	59.6	59.6	64.8	70.0	70.0	70.0
80°	178.8	62.2	36.3	33.7	44.0	44.0	49.2	59.6	64.8	64.8	64.8
82.5°	152.9	38.9	20.7	23.3	31.1	33.7	41.5	49.2	57.0	59.6	59.6
85°	103.6	20.7	15.5	18.1	20.7	25.9	33.7	41.5	46.6	51.8	51.8
87.5°	28.5	7.8	10.4	13.0	13.0	18.1	25.9	31.1	36.3	38.9	38.9
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)