

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: P642835

Luminaire Tested: GWS-SA6D-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-760-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

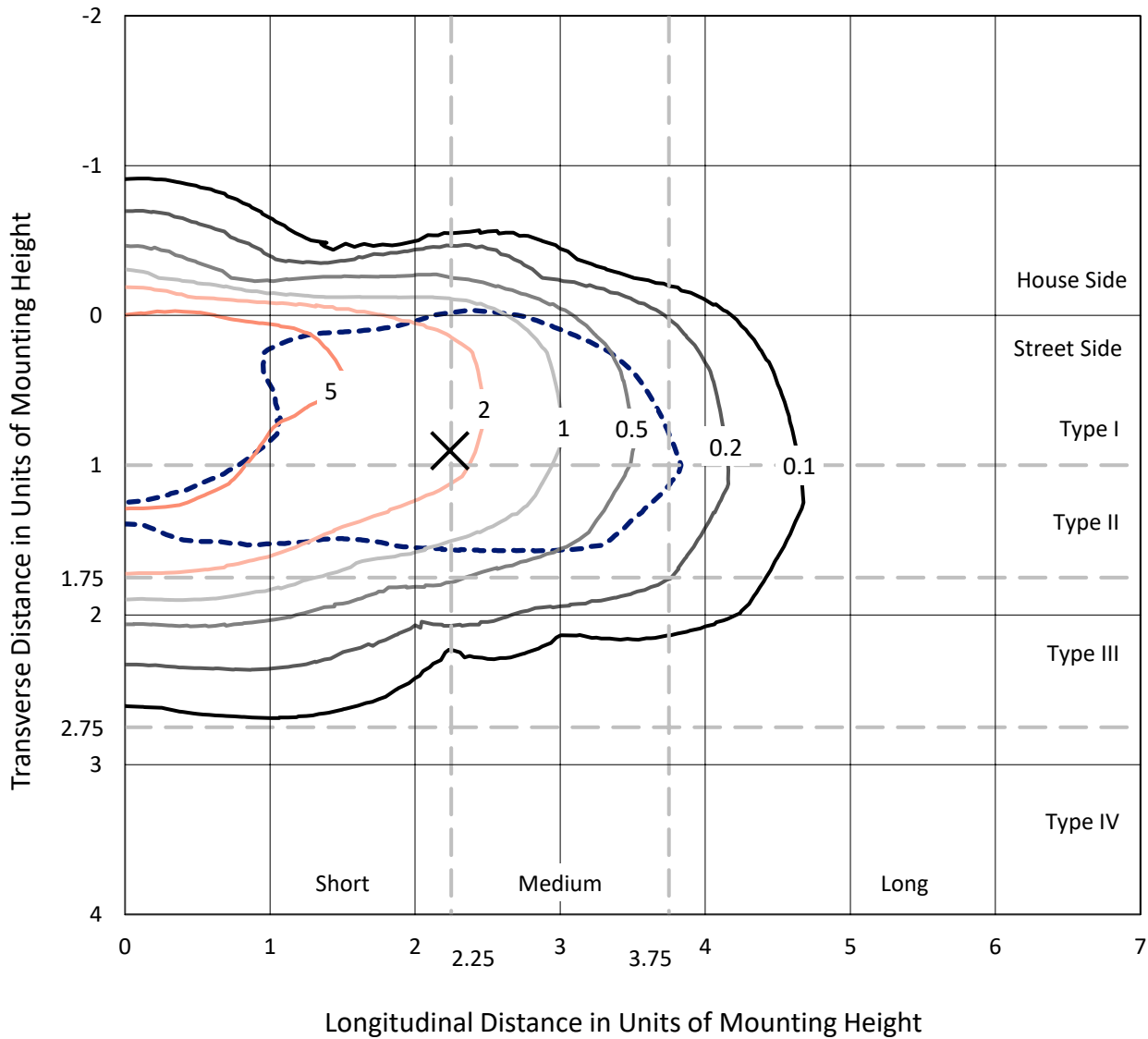
Lumens per Lamp: N/A  
Luminaire Lumens: 27071.3 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

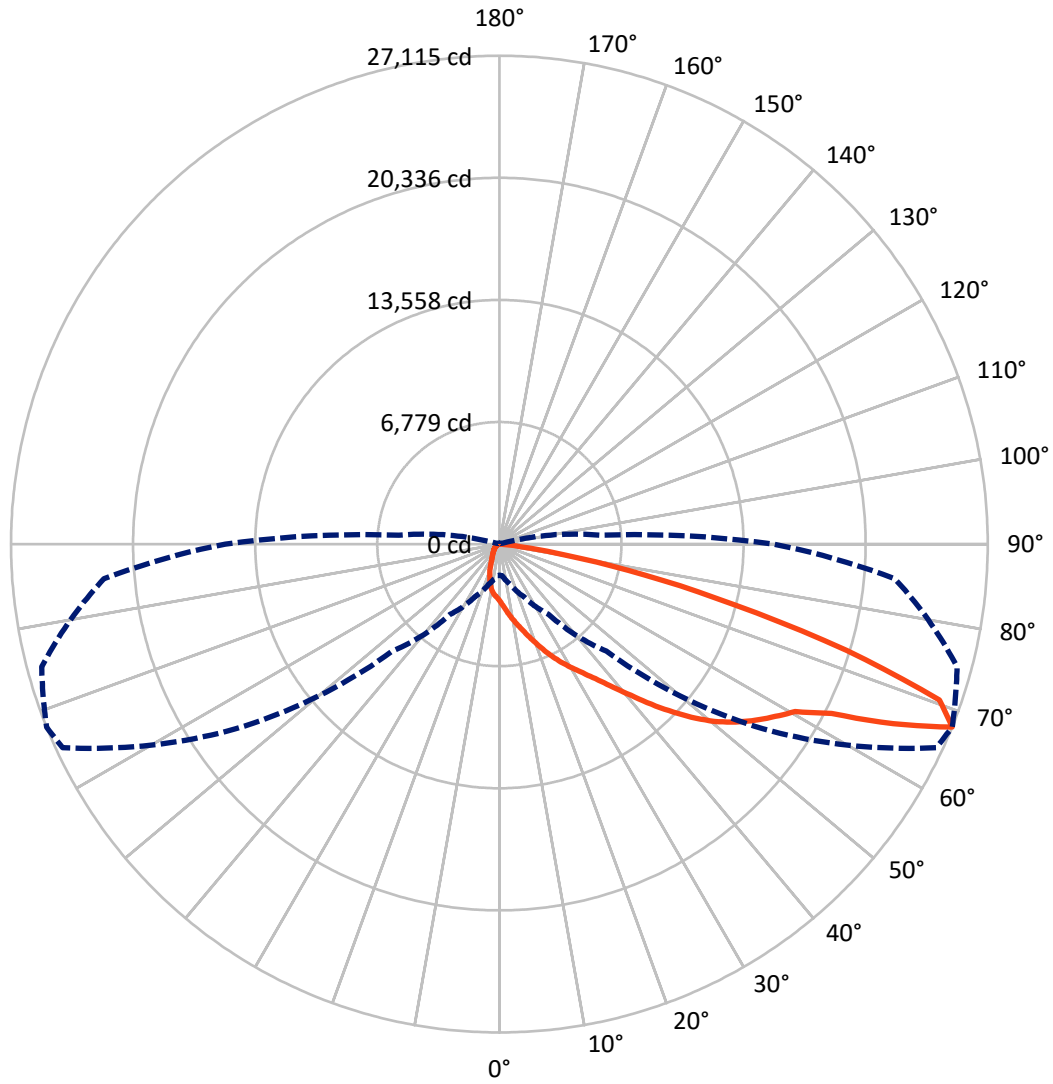
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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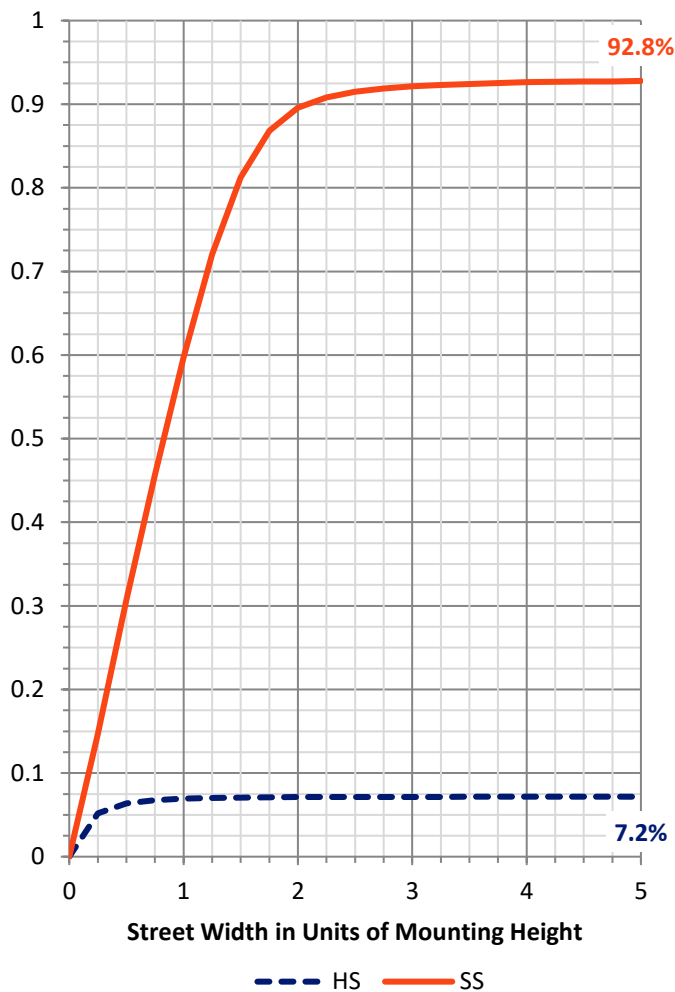
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1954.9	0.0	1954.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25116.4	0.0	25116.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27071.3	0.0	27071.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.3	1.1
10°-20°	882.4	3.3
20°-30°	1516.3	5.6
30°-40°	2636.3	9.7
40°-50°	4600.1	17.0
50°-60°	6938.2	25.6
60°-70°	6957.2	25.7
70°-80°	3069.5	11.3
80°-90°	164.0	0.6
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°	27071.3	100.0
0°-180°	27071.3	100.0

**Coefficient of Utilization**



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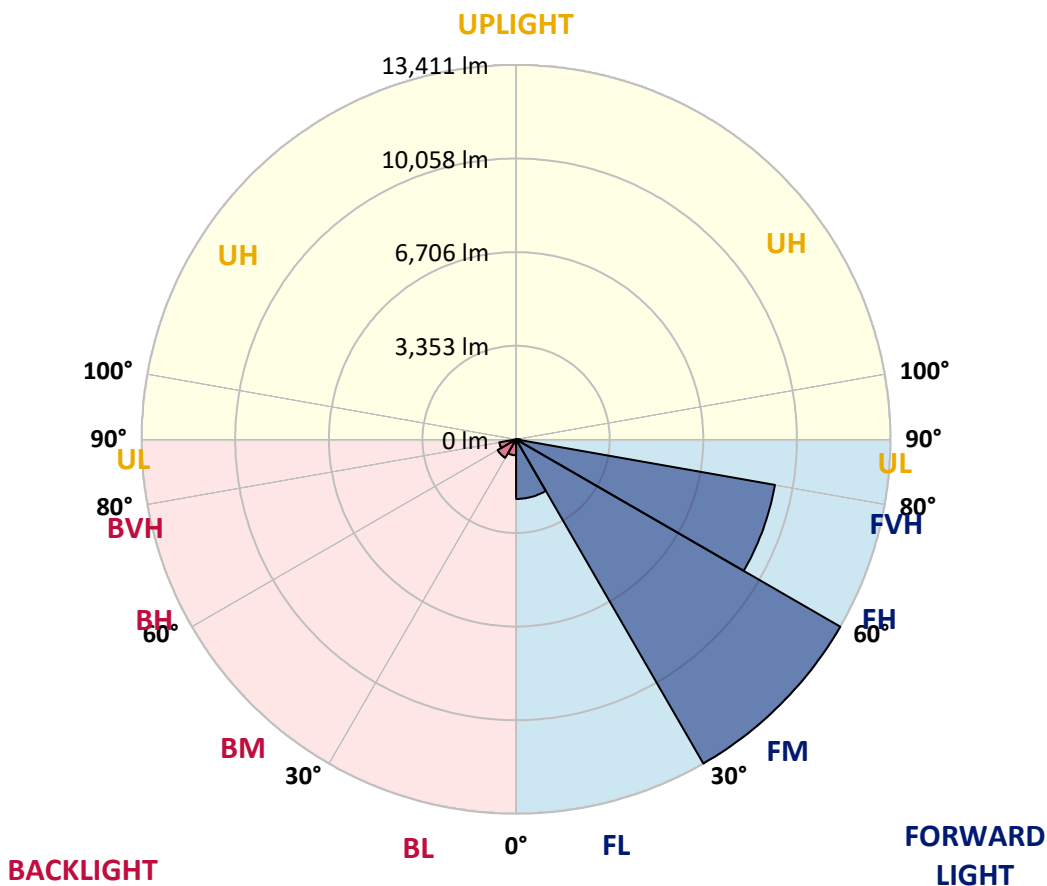
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.0	7.9			
FM (30°-60°)	13411.1	49.5			
FH (60°-80°)	9416.6	34.8			G4/12000
FVH (80°-90°)	154.7	0.6			G2/225
BL (0°-30°)	571.9	2.1	B2/1000		
BM (30°-60°)	763.6	2.8	B1/1000		
BH (60°-80°)	610.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.3	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3668.6	3691.9	3668.6	3673.8	3606.4	3575.3	3507.9	3414.7	3391.4	3331.8	3241.1
5°	4116.8	4137.5	4114.2	4109.0	4031.3	3974.3	3862.9	3702.3	3655.6	3539.0	3360.3
7.5°	4360.3	4373.3	4381.0	4394.0	4365.5	4318.9	4217.8	4018.3	3969.1	3780.0	3528.7
10°	4386.2	4396.6	4435.4	4513.2	4570.2	4598.7	4541.7	4357.7	4280.0	4096.1	3735.9
12.5°	4313.7	4329.2	4391.4	4520.9	4679.0	4824.1	4860.3	4699.7	4629.8	4394.0	3979.5
15°	4217.8	4230.8	4316.3	4492.4	4730.8	4997.7	5147.9	5078.0	5000.2	4754.1	4248.9
17.5°	4070.1	4088.3	4207.5	4445.8	4754.1	5135.0	5458.8	5482.1	5427.7	5160.9	4546.9
20°	3987.2	4000.2	4106.4	4352.5	4738.6	5236.0	5749.0	5969.2	5909.6	5629.8	4888.8
22.5°	4057.2	4067.6	4137.5	4329.2	4686.8	5293.0	6018.4	6456.3	6422.6	6132.4	5249.0
25°	4425.1	4458.8	4417.3	4451.0	4710.1	5324.1	6236.1	6943.3	6951.1	6658.4	5622.0
27.5°	5171.2	5127.2	5028.7	4860.3	4891.4	5407.0	6422.6	7401.9	7469.3	7171.3	5953.7
30°	5930.3	5904.4	5844.8	5583.2	5365.5	5590.9	6580.6	7870.8	7977.1	7676.5	6249.0
32.5°	6782.7	6808.6	6702.4	6388.9	6018.4	5964.0	6743.8	8316.5	8516.0	8249.1	6596.2
35°	7800.9	7808.7	7598.8	7251.6	6831.9	6580.6	7036.6	8808.7	9176.6	8979.7	7059.9
37.5°	8793.2	8839.8	8725.8	8179.2	7806.1	7347.5	7521.1	9440.9	9959.0	9881.3	7642.9
40°	9671.5	9744.0	9707.7	9179.2	8689.5	8303.5	8272.4	10181.8	10904.7	10992.8	8412.3
42.5°	10371.0	10417.6	10446.1	10070.4	9637.8	9420.1	9199.9	11042.0	12021.3	12381.4	9355.4
45°	11109.3	11124.9	11184.5	10930.6	10552.3	10570.5	10295.8	12086.1	13197.5	13920.4	10438.3
47.5°	12049.8	12101.6	12073.1	11806.3	11464.3	11669.0	11428.0	13161.3	14358.2	15562.9	11547.2
50°	13194.9	13249.3	13223.4	12912.5	12531.7	12617.2	12466.9	14205.3	15477.4	17112.2	12469.5
52.5°	13785.6	13829.7	14150.9	14290.8	14091.4	13547.3	13353.0	15353.1	16423.1	18386.9	13316.7
55°	13500.7	13531.7	14231.3	14822.0	15552.6	15008.5	14244.2	16239.1	17257.3	19381.8	13946.3
57.5°	12319.2	12487.6	13438.5	14438.5	15974.9	16451.6	15689.9	17202.9	18060.5	20073.5	14565.5
60°	9896.9	9889.1	11251.8	13047.3	15151.0	16848.0	17731.4	18506.1	18866.2	20604.6	15394.5
62.5°	5469.2	5518.4	7332.0	9697.4	12860.7	15822.0	19262.6	20757.5	20703.1	21532.1	16692.5
65°	2722.9	2821.4	3805.9	5554.7	8557.4	13075.8	19526.8	24192.9	24037.4	23716.2	19374.0
67.5°	1728.1	1766.9	2311.0	3228.1	4756.7	8404.6	17881.7	26755.2	27115.3	26307.0	22034.7
70°	1119.2	1184.0	1606.3	2207.4	2870.6	4331.8	13099.1	25094.5	25920.9	26022.0	20376.6
72.5°	608.8	655.5	1026.0	1575.2	2072.6	2165.9	7357.9	18832.5	20161.6	22073.6	15941.2
75°	347.2	380.8	562.2	1070.0	1520.8	1318.7	3261.8	12606.8	13454.0	15775.4	11422.8
77.5°	209.9	238.4	316.1	520.8	953.4	880.9	1233.2	7673.9	8212.8	9412.4	5995.1
80°	95.9	114.0	199.5	287.6	520.8	417.1	471.5	3577.9	3694.5	3862.9	1984.6
82.5°	44.0	51.8	90.7	171.0	295.4	240.9	181.4	826.5	1163.3	1101.1	505.2
85°	5.2	5.2	33.7	70.0	82.9	62.2	75.1	186.5	235.8	331.6	145.1
87.5°	0.0	0.0	2.6	2.6	5.2	7.8	15.5	23.3	33.7	54.4	36.3
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°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3199.6	3127.1	3062.3	2966.5	2901.7	2829.2	2779.9	2720.3	2697.0	2678.9	2653.0
5°	3272.2	3155.6	2997.6	2821.4	2676.3	2539.0	2412.0	2329.1	2256.6	2246.2	2210.0
7.5°	3391.4	3217.8	2950.9	2663.3	2417.2	2189.2	2010.5	1865.4	1792.8	1769.5	1728.1
10°	3549.4	3311.0	2881.0	2440.5	2085.6	1813.6	1611.5	1448.3	1334.3	1292.8	1261.7
12.5°	3725.6	3396.5	2769.6	2165.9	1761.7	1450.8	1194.4	1020.8	948.2	922.3	899.0
15°	3927.7	3476.9	2593.4	1891.3	1445.7	1067.4	886.1	810.9	779.8	772.1	764.3
17.5°	4122.0	3528.7	2383.5	1606.3	1111.5	829.1	743.6	715.1	707.3	699.5	694.3
20°	4342.2	3564.9	2137.4	1336.9	862.7	702.1	660.7	639.9	624.4	608.8	606.2
22.5°	4567.6	3564.9	1870.6	1072.6	722.8	629.6	582.9	544.1	515.6	500.0	494.8
25°	4782.6	3515.7	1606.3	857.6	637.3	559.6	500.0	456.0	417.1	399.0	393.8
27.5°	4935.5	3388.8	1375.7	725.4	577.7	497.4	424.9	375.7	344.6	326.4	323.8
30°	5031.3	3199.6	1163.3	647.7	525.9	432.7	360.1	318.7	295.4	282.4	277.2
32.5°	5103.9	2966.5	974.1	593.3	476.7	375.7	313.5	279.8	259.1	248.7	246.1
35°	5249.0	2746.2	834.2	544.1	424.9	329.0	274.6	248.7	233.2	220.2	217.6
37.5°	5451.0	2562.3	722.8	500.0	375.7	292.8	248.7	225.4	212.4	199.5	196.9
40°	5749.0	2445.7	639.9	456.0	331.6	264.3	228.0	207.3	189.1	176.2	173.6
42.5°	6207.6	2391.3	585.5	411.9	292.8	238.4	209.9	183.9	165.8	152.9	150.3
45°	6754.2	2419.8	538.9	367.9	266.9	220.2	186.5	160.6	142.5	129.5	126.9
47.5°	7339.7	2520.8	500.0	326.4	240.9	202.1	165.8	137.3	121.8	108.8	106.2
50°	7951.2	2686.7	466.3	287.6	220.2	181.4	142.5	119.2	103.6	93.3	90.7
52.5°	8482.3	2912.1	432.7	259.1	202.1	160.6	124.4	103.6	88.1	77.7	75.1
55°	8990.1	3124.5	406.8	233.2	181.4	139.9	108.8	88.1	75.1	64.8	62.2
57.5°	9541.9	3349.9	375.7	209.9	163.2	124.4	95.9	75.1	64.8	54.4	51.8
60°	10345.1	3684.1	329.0	191.7	142.5	108.8	82.9	67.4	57.0	44.0	41.5
62.5°	11503.1	4293.0	277.2	165.8	121.8	93.3	70.0	57.0	46.6	36.3	31.1
65°	13669.1	5329.3	228.0	137.3	98.5	77.7	59.6	46.6	36.3	25.9	23.3
67.5°	15228.7	5598.7	183.9	111.4	80.3	59.6	49.2	36.3	25.9	18.1	15.5
70°	13314.1	4020.9	142.5	90.7	67.4	46.6	38.9	28.5	18.1	13.0	10.4
72.5°	10031.6	2627.1	106.2	70.0	51.8	38.9	28.5	23.3	15.5	10.4	7.8
75°	7070.3	1518.2	77.7	51.8	36.3	28.5	23.3	18.1	13.0	7.8	7.8
77.5°	3624.5	627.0	54.4	36.3	25.9	18.1	15.5	10.4	10.4	7.8	5.2
80°	1101.1	207.3	31.1	23.3	18.1	13.0	7.8	7.8	7.8	5.2	2.6
82.5°	251.3	67.4	18.1	18.1	13.0	10.4	7.8	2.6	2.6	0.0	0.0
85°	64.8	20.7	15.5	13.0	13.0	10.4	5.2	2.6	0.0	0.0	0.0
87.5°	23.3	13.0	13.0	13.0	10.4	7.8	5.2	0.0	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)