

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: P637866

Luminaire Tested: GWS-SA4D-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

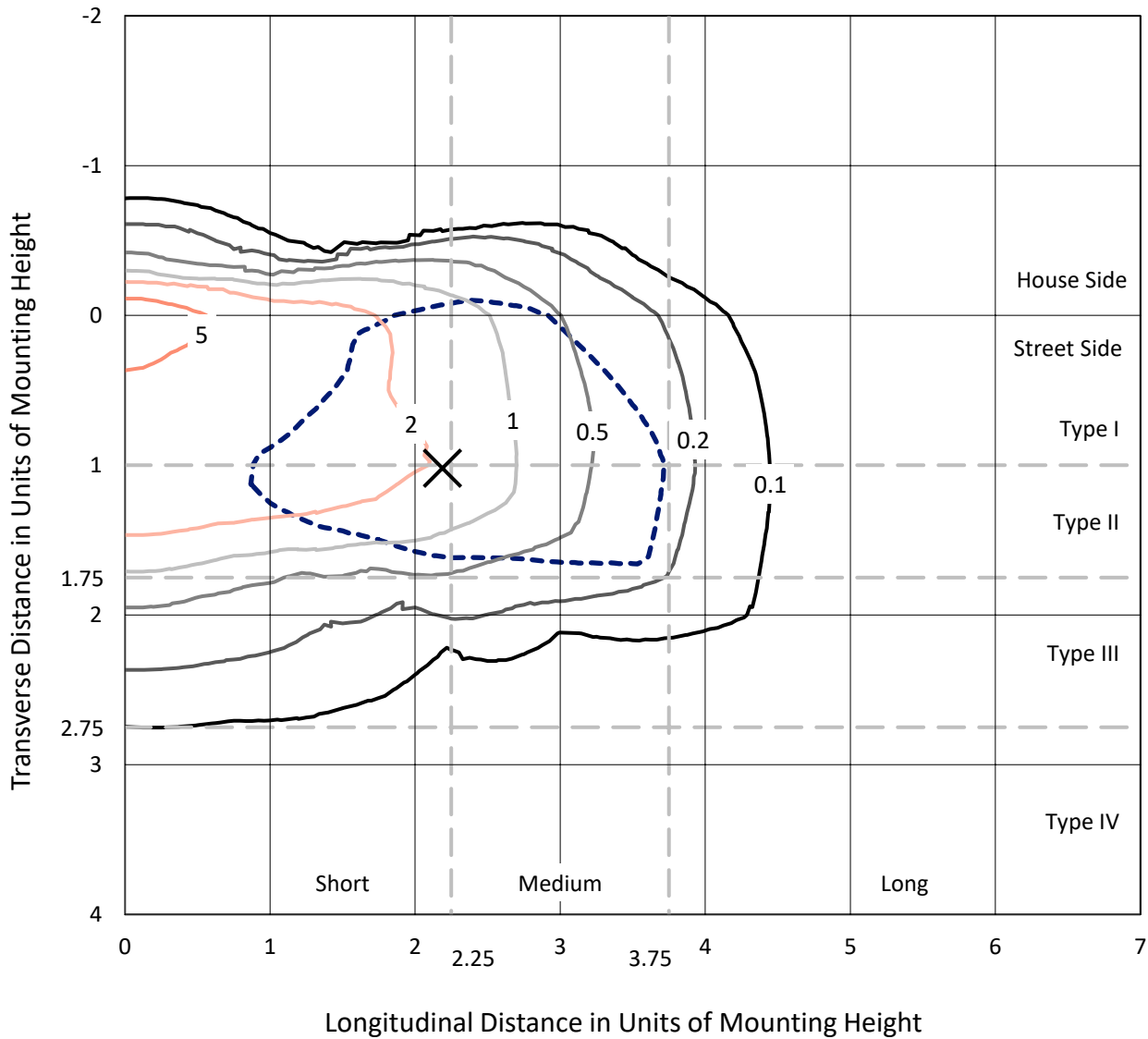
Lumens per Lamp: N/A  
Luminaire Lumens: 19585.5 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

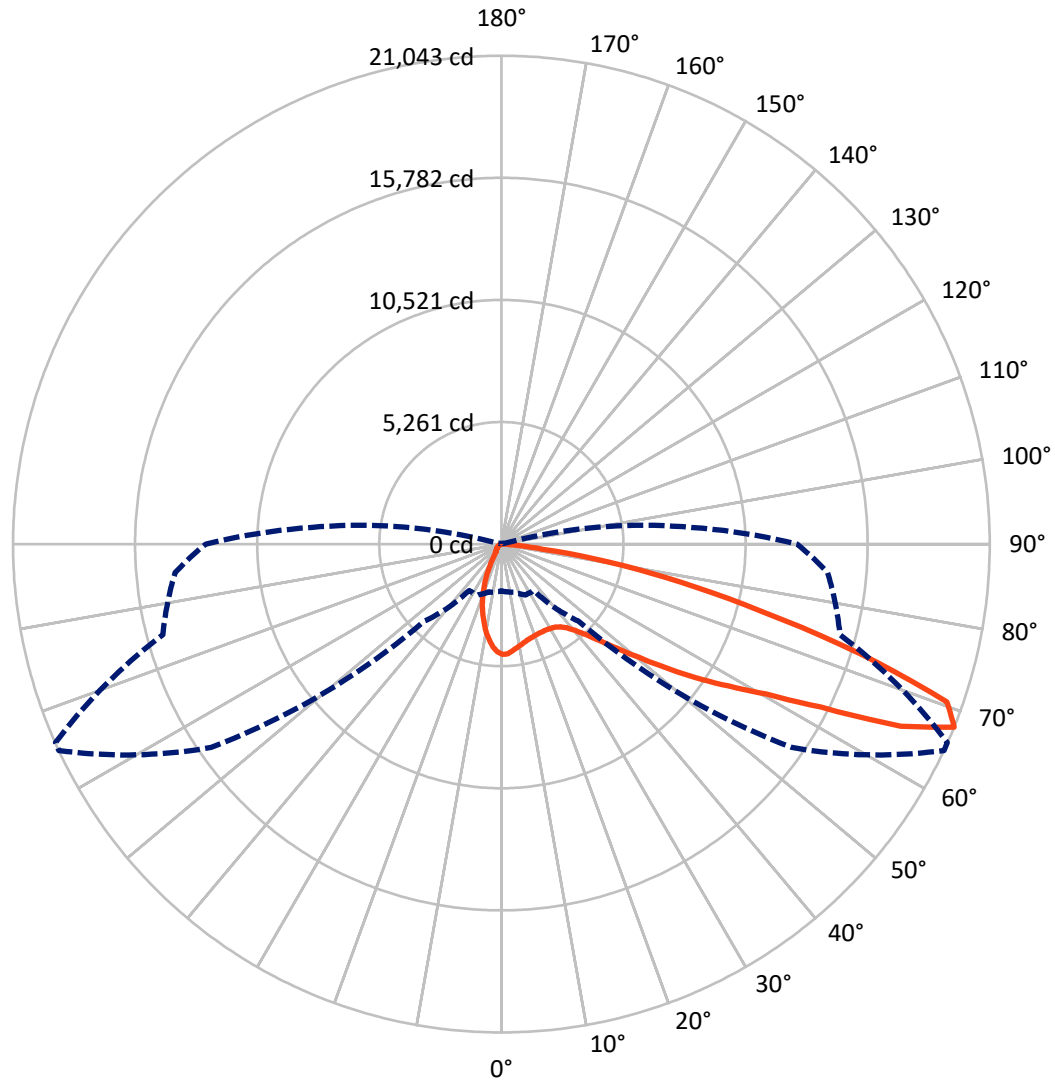
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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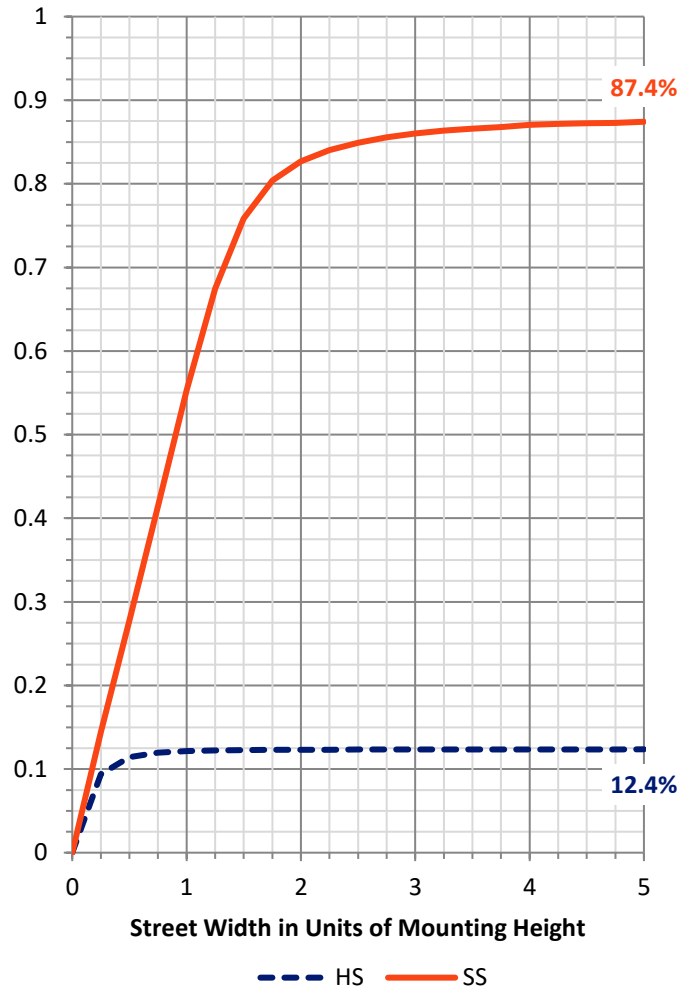
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2445.7	0.0	2445.7
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	17139.9	0.0	17139.9
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	19585.5	0.0	19585.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.5	2.0
10°-20°	886.9	4.5
20°-30°	1267.3	6.5
30°-40°	1843.7	9.4
40°-50°	2887.6	14.7
50°-60°	4504.7	23.0
60°-70°	4948.2	25.3
70°-80°	2633.4	13.4
80°-90°	219.3	1.1
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°	19585.5	100.0
0°-180°	19585.5	100.0

**Coefficient of Utilization**



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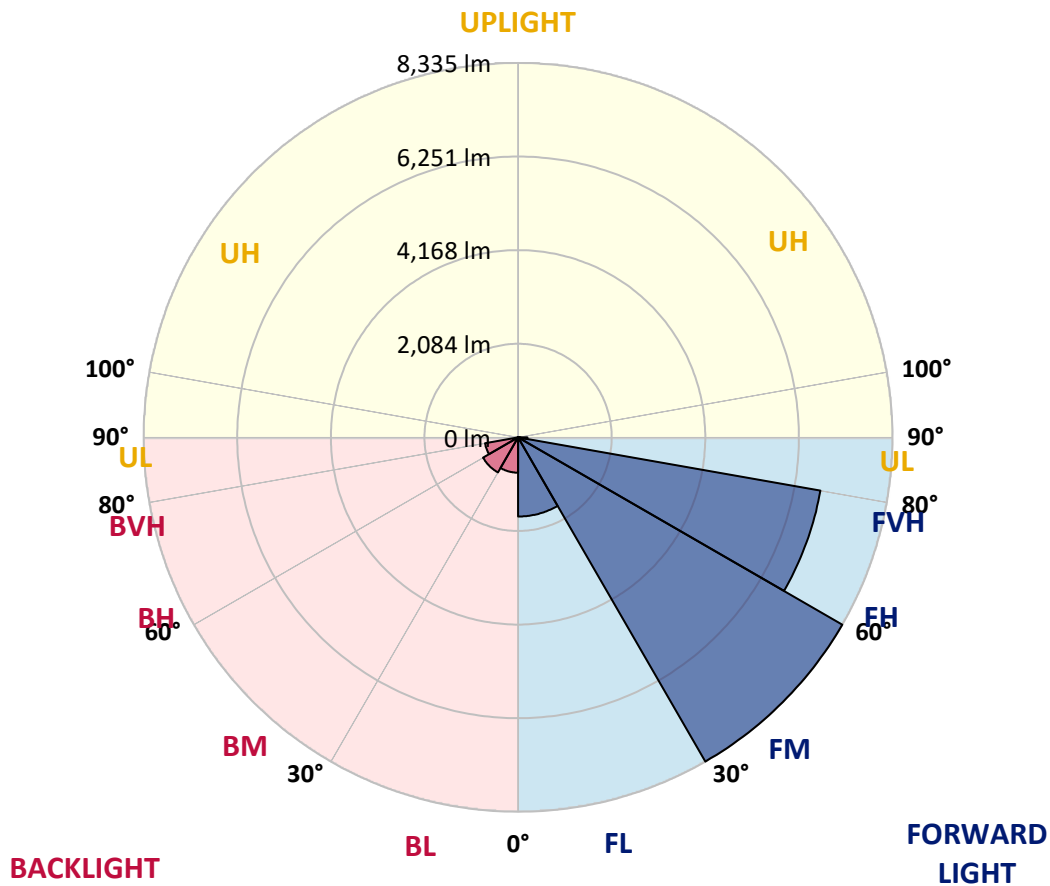
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.6	9.0			
FM (30°-60°)	8335.2	42.6			
FH (60°-80°)	6834.6	34.9			G3/7500
FVH (80°-90°)	207.5	1.1			G2/225
BL (0°-30°)	786.1	4.0	B2/1000		
BM (30°-60°)	900.8	4.6	B1/1000		
BH (60°-80°)	747.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1
2.5°	4585.4	4599.6	4580.1	4627.9	4636.8	4689.9	4720.0	4741.2	4739.5	4766.0	4766.0
5°	4316.2	4330.3	4319.7	4371.1	4411.8	4495.1	4564.1	4643.8	4647.4	4728.8	4759.0
7.5°	4087.7	4089.5	4089.5	4153.2	4206.4	4309.1	4411.8	4534.0	4548.2	4673.9	4753.6
10°	3900.0	3905.3	3907.1	3979.7	4038.1	4162.1	4293.2	4440.2	4456.1	4626.1	4750.1
12.5°	3770.7	3772.5	3779.5	3855.7	3919.5	4048.7	4181.6	4349.8	4371.1	4571.2	4734.2
15°	3708.7	3705.1	3708.7	3772.5	3836.2	3960.2	4096.6	4277.2	4300.2	4525.2	4735.9
17.5°	3705.1	3699.8	3696.3	3744.1	3784.8	3894.7	4032.8	4229.4	4254.2	4503.9	4755.4
20°	3756.5	3753.0	3735.3	3756.5	3765.4	3855.7	3992.1	4192.2	4217.0	4500.4	4797.9
22.5°	3891.1	3882.3	3855.7	3836.2	3788.4	3841.5	3963.7	4165.6	4194.0	4509.2	4852.8
25°	4091.3	4087.7	4054.1	4006.2	3884.0	3862.8	3965.5	4165.6	4192.2	4519.9	4911.3
27.5°	4392.3	4371.1	4328.6	4245.3	4070.0	3946.0	4000.9	4176.3	4202.8	4534.0	4959.1
30°	4698.7	4697.0	4682.8	4597.8	4337.4	4105.4	4075.3	4204.6	4229.4	4546.4	5003.4
32.5°	5015.8	5021.1	5056.5	4991.0	4705.8	4342.7	4209.9	4263.0	4280.8	4571.2	5042.3
35°	5316.9	5327.5	5421.3	5444.4	5153.9	4702.3	4429.5	4379.9	4381.7	4626.1	5093.7
37.5°	5605.5	5641.0	5791.5	5903.1	5711.8	5138.0	4746.6	4578.3	4564.1	4735.9	5171.6
40°	5933.2	6000.5	6190.0	6379.5	6319.3	5713.6	5178.7	4882.9	4852.8	4937.8	5311.5
42.5°	6296.3	6368.9	6620.4	6886.1	6914.4	6409.6	5718.9	5327.5	5276.1	5277.9	5573.7
45°	6685.9	6783.3	7075.6	7458.1	7629.9	7185.4	6384.8	5927.9	5876.5	5800.4	5995.2
47.5°	7197.8	7282.8	7564.4	8005.4	8334.8	8017.8	7258.0	6700.1	6606.2	6494.6	6650.5
50°	7638.8	7713.2	7955.8	8508.4	9193.8	9091.1	8248.0	7665.3	7575.0	7385.5	7514.8
52.5°	7736.2	7794.6	8017.8	8639.4	9850.9	10446.0	9461.2	8832.5	8768.7	8418.1	8467.6
55°	7298.7	7387.3	7587.4	8278.1	10022.7	11770.8	11035.7	10148.4	10015.6	9455.9	9544.5
57.5°	6193.6	6351.2	6538.9	7436.9	9556.9	12475.7	13235.5	11542.3	11421.8	10454.8	10456.6
60°	4539.3	4666.9	4792.6	5614.4	8451.7	12427.8	15231.5	13107.9	12888.3	11271.3	11241.2
62.5°	3301.3	3366.9	3365.1	3657.3	5803.9	11609.6	16280.0	15467.1	14955.2	12144.5	11972.7
65°	2596.4	2594.7	2670.8	2766.5	3241.1	8961.8	16409.3	18911.8	18359.3	13315.2	12957.4
67.5°	2020.8	2059.8	2136.0	2417.6	2435.3	4689.9	15272.2	21042.5	21031.9	15102.2	14110.4
70°	1558.6	1611.7	1719.7	2130.6	2249.3	2624.8	11427.2	20367.7	20539.5	15901.0	13293.9
72.5°	1000.7	997.1	1156.5	1721.5	2160.7	2187.3	6319.3	16179.0	16373.9	14402.6	10748.8
75°	559.7	563.2	653.5	1053.8	2013.7	2058.0	3129.5	11537.0	11691.1	11228.8	8258.7
77.5°	219.6	226.7	306.4	554.4	1328.3	1838.4	1859.7	7867.2	7890.3	6958.7	5065.4
80°	88.6	93.9	155.9	343.6	809.4	1238.0	1328.3	4635.0	4541.1	2693.8	1473.6
82.5°	26.6	28.3	62.0	194.8	423.3	880.2	896.2	1778.2	1679.0	579.2	375.5
85°	1.8	1.8	14.2	60.2	150.5	221.4	596.9	579.2	513.6	145.2	166.5
87.5°	0.0	0.0	1.8	1.8	3.5	7.1	63.8	106.3	108.0	26.6	74.4
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°	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1	4750.1
2.5°	4766.0	4702.3	4697.0	4647.4	4597.8	4535.8	4463.2	4410.0	4372.9	4307.3	4294.9
5°	4759.0	4673.9	4594.2	4452.6	4294.9	4124.9	3976.1	3838.0	3751.2	3692.8	3668.0
7.5°	4744.8	4636.8	4452.6	4185.1	3921.2	3623.7	3391.7	3179.1	3033.9	2948.9	2911.7
10°	4734.2	4588.9	4289.6	3884.0	3474.9	3064.0	2711.6	2396.3	2221.0	2082.8	2059.8
12.5°	4712.9	4519.9	4080.6	3531.6	3003.8	2458.3	2008.4	1622.3	1354.9	1234.5	1192.0
15°	4691.7	4447.2	3871.6	3159.6	2490.2	1817.2	1271.7	899.7	715.5	658.9	655.3
17.5°	4688.1	4381.7	3644.9	2807.2	1951.8	1190.2	724.4	582.7	543.7	529.6	529.6
20°	4698.7	4326.8	3421.8	2401.6	1422.2	724.4	540.2	504.8	481.7	469.3	469.3
22.5°	4709.4	4270.1	3207.5	1992.5	944.0	529.6	476.4	446.3	419.8	405.6	398.5
25°	4716.4	4208.1	2970.1	1581.6	616.3	460.5	418.0	379.0	347.1	329.4	329.4
27.5°	4714.7	4133.8	2731.0	1179.6	478.2	409.1	357.8	317.0	285.1	265.7	267.4
30°	4700.5	4052.3	2483.1	823.6	418.0	357.8	306.4	263.9	232.0	216.1	214.3
32.5°	4689.9	3965.5	2196.2	579.2	375.5	313.5	260.4	219.6	193.1	180.7	178.9
35°	4677.5	3880.5	1923.4	441.0	338.3	271.0	219.6	186.0	164.7	154.1	154.1
37.5°	4681.0	3791.9	1627.6	379.0	301.1	235.6	187.7	159.4	141.7	131.1	129.3
40°	4735.9	3738.8	1337.2	343.6	267.4	203.7	162.9	138.1	120.4	109.8	108.0
42.5°	4872.3	3740.6	1059.1	317.0	237.3	173.6	141.7	118.7	102.7	90.3	88.6
45°	5145.1	3815.0	812.9	288.7	205.4	150.5	122.2	101.0	85.0	74.4	72.6
47.5°	5591.4	4036.3	616.3	263.9	178.9	131.1	104.5	85.0	70.8	62.0	60.2
50°	6301.6	4436.6	485.3	233.8	150.5	113.4	88.6	70.8	58.4	49.6	47.8
52.5°	7155.3	5037.0	416.2	207.2	129.3	99.2	76.2	58.4	47.8	40.7	39.0
55°	8136.5	5754.3	384.3	180.7	109.8	85.0	62.0	47.8	39.0	33.7	30.1
57.5°	9036.2	6400.8	382.6	154.1	93.9	72.6	51.4	40.7	33.7	26.6	24.8
60°	9912.9	6941.0	359.5	127.5	81.5	60.2	44.3	33.7	28.3	23.0	21.3
62.5°	10708.1	7380.2	301.1	102.7	69.1	49.6	37.2	30.1	24.8	19.5	19.5
65°	11707.0	7939.9	230.2	83.2	56.7	40.7	31.9	26.6	23.0	17.7	17.7
67.5°	12739.6	8235.6	164.7	69.1	46.0	35.4	28.3	24.8	19.5	15.9	15.9
70°	11538.7	6958.7	118.7	56.7	39.0	30.1	24.8	23.0	19.5	15.9	14.2
72.5°	9011.4	5017.5	88.6	44.3	33.7	28.3	23.0	21.3	17.7	14.2	14.2
75°	6682.4	2925.9	67.3	35.4	26.6	23.0	23.0	21.3	17.7	14.2	12.4
77.5°	3632.5	1020.2	51.4	28.3	21.3	17.7	19.5	19.5	15.9	12.4	10.6
80°	961.7	279.8	35.4	21.3	17.7	14.2	14.2	17.7	14.2	10.6	10.6
82.5°	279.8	81.5	24.8	17.7	14.2	12.4	12.4	12.4	10.6	8.9	7.1
85°	136.4	30.1	17.7	14.2	12.4	10.6	8.9	8.9	7.1	5.3	5.3
87.5°	60.2	12.4	14.2	12.4	12.4	8.9	7.1	5.3	5.3	3.5	1.8
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)