

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: P637474

Luminaire Tested: GWS-SA4C-830-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-830-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

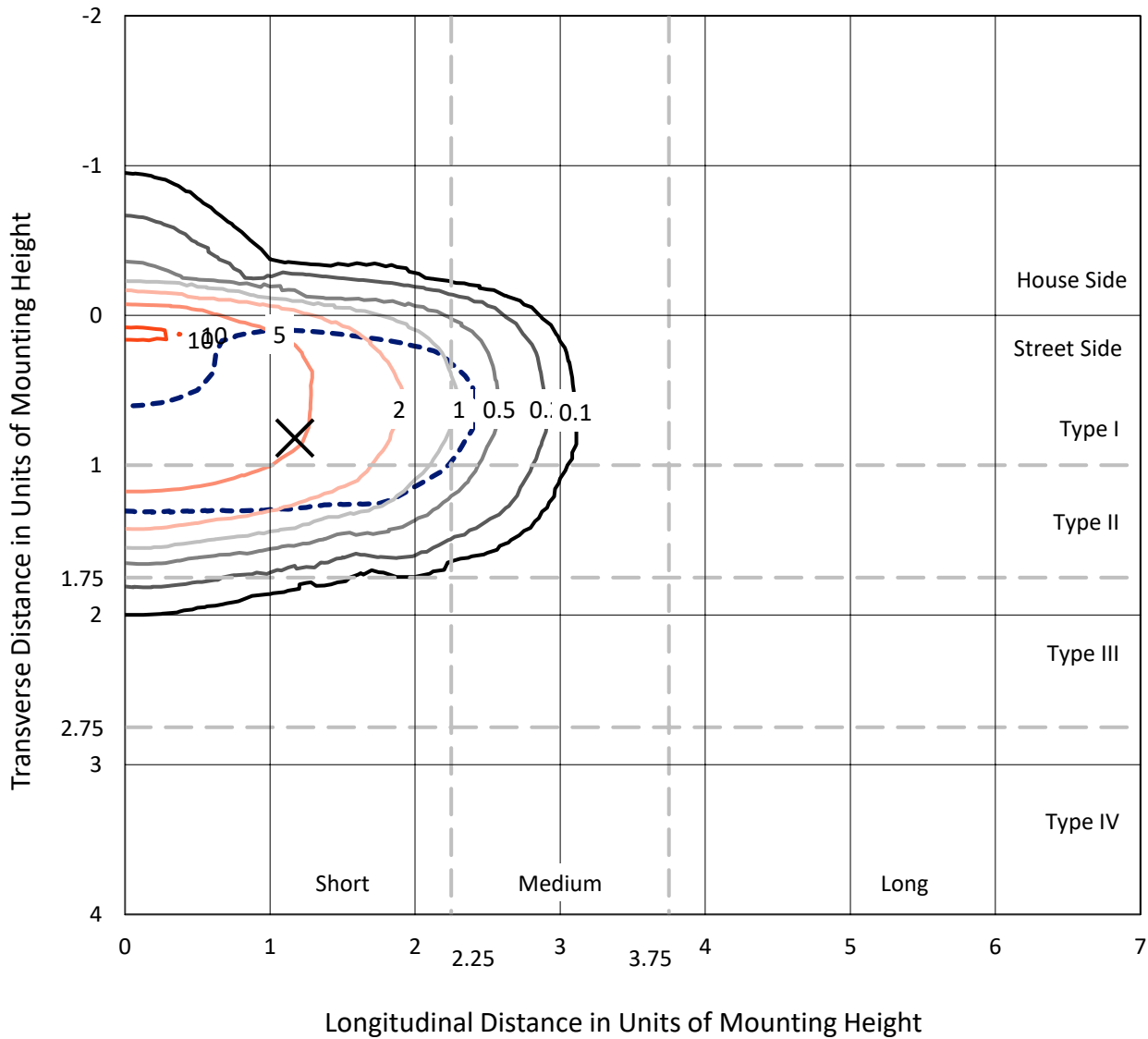
Lumens per Lamp: N/A  
Luminaire Lumens: 12931.5 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

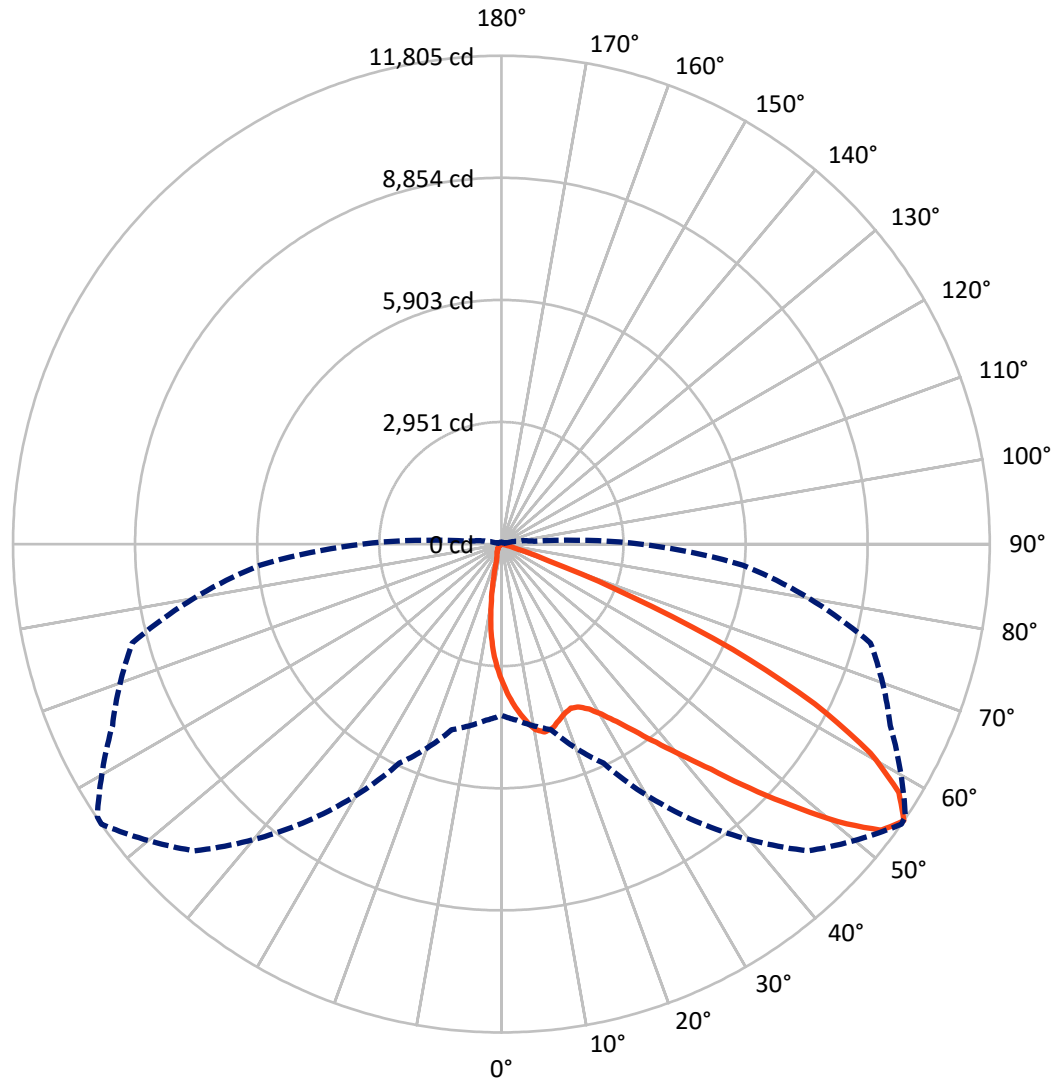
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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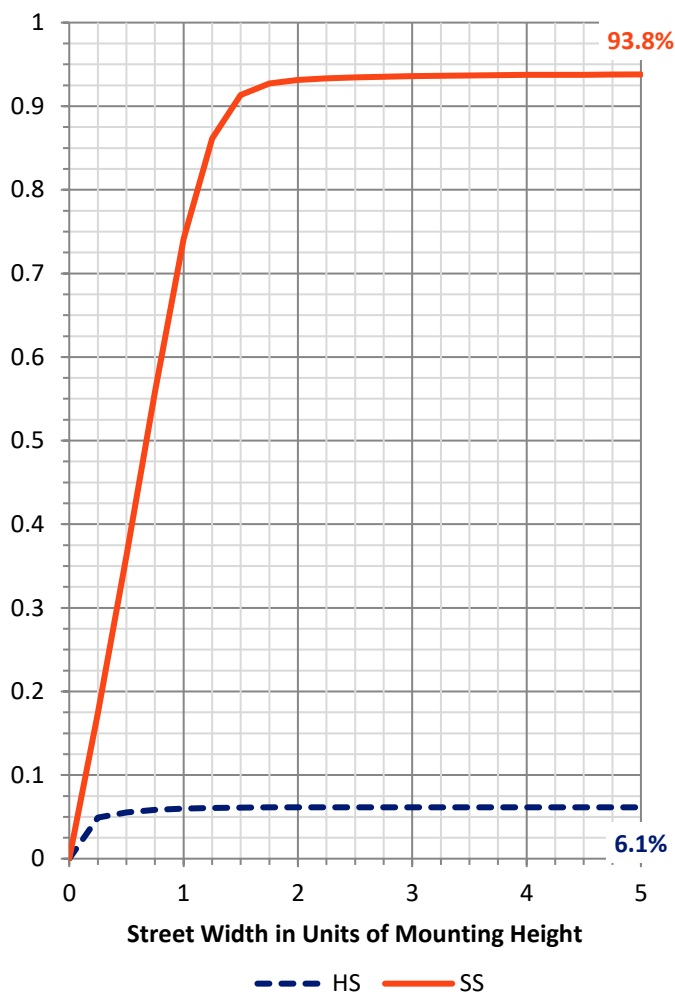
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	797.9	0.0	797.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	12133.6	0.0	12133.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12931.5	0.0	12931.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.2	2.3
10°-20°	711.8	5.5
20°-30°	1185.4	9.2
30°-40°	2020.0	15.6
40°-50°	3297.4	25.5
50°-60°	3452.2	26.7
60°-70°	1741.2	13.5
70°-80°	219.9	1.7
80°-90°	8.3	0.1
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°	12931.5	100.0
0°-180°	12931.5	100.0

**Coefficient of Utilization**



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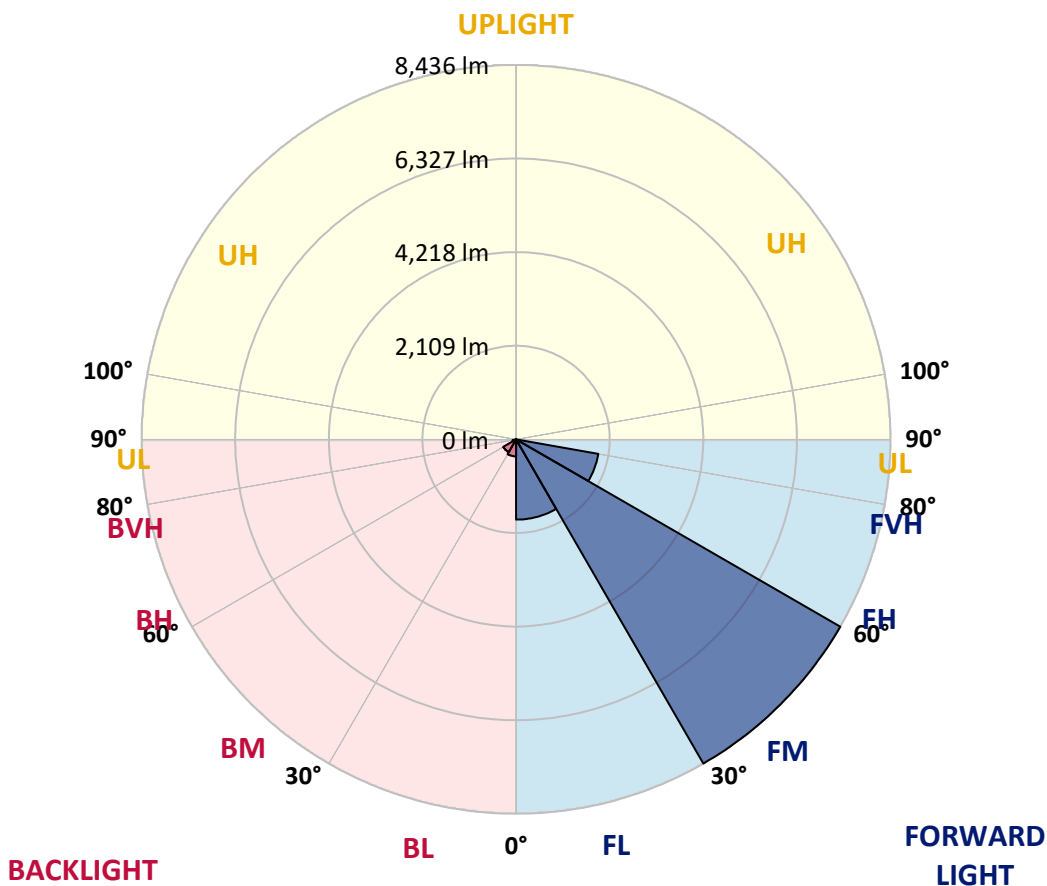
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.9	14.0			
FM (30°-60°)	8435.9	65.2			
FH (60°-80°)	1881.1	14.5			G2/5000
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	383.5	3.0	B1/500		
BM (30°-60°)	333.6	2.6	B1/1000		
BH (60°-80°)	80.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7
2.5°	3894.6	3875.8	3904.5	3871.4	3815.0	3767.5	3705.5	3683.4	3583.9	3490.0	3399.3
5°	4367.7	4373.3	4364.4	4318.0	4238.4	4149.9	4025.0	3997.4	3823.8	3644.7	3451.3
7.5°	4484.9	4481.6	4500.4	4518.1	4504.8	4460.6	4324.6	4297.0	4081.4	3812.8	3530.9
10°	4123.4	4125.6	4164.3	4283.7	4431.8	4585.5	4564.5	4549.0	4337.9	4002.9	3619.3
12.5°	3612.7	3632.6	3673.5	3843.7	4094.7	4444.0	4660.7	4676.2	4573.3	4211.9	3723.2
15°	3391.6	3396.0	3429.2	3532.0	3718.8	4149.9	4619.8	4662.9	4770.1	4421.9	3836.0
17.5°	3386.1	3391.6	3406.0	3451.3	3572.9	3918.9	4488.2	4563.4	4918.3	4647.4	3970.9
20°	3593.9	3590.6	3580.6	3556.3	3609.4	3842.6	4366.6	4449.5	4999.0	4867.4	4106.8
22.5°	3970.9	3966.4	3922.2	3821.6	3778.5	3912.3	4306.9	4382.1	5047.6	5063.1	4218.5
25°	4405.3	4436.3	4353.4	4200.8	4094.7	4090.3	4360.0	4413.1	5089.6	5236.6	4294.8
27.5°	4881.8	4891.7	4821.0	4649.6	4496.0	4375.5	4513.7	4553.4	5136.0	5391.4	4337.9
30°	5404.7	5401.3	5320.6	5121.7	4934.8	4761.3	4772.3	4787.8	5244.4	5568.3	4385.4
32.5°	6058.0	6072.4	5928.7	5657.8	5433.4	5193.5	5110.6	5112.8	5440.0	5796.0	4457.3
35°	6945.7	6910.3	6720.2	6334.4	5951.9	5693.2	5551.7	5539.5	5741.8	6102.2	4582.2
37.5°	7791.4	7794.7	7595.7	7171.2	6688.1	6280.2	6080.1	6046.9	6166.3	6526.7	4790.0
40°	8378.4	8389.4	8306.5	8084.3	7572.5	6995.4	6701.4	6667.1	6716.9	7064.0	5062.0
42.5°	8689.0	8720.0	8743.2	8795.2	8407.1	7888.7	7436.5	7433.2	7381.2	7676.4	5377.0
45°	8701.2	8747.6	8889.1	9244.0	9288.2	8907.9	8416.0	8341.9	8141.8	8332.0	5658.9
47.5°	8220.3	8327.5	8628.2	9331.3	9795.6	9921.6	9434.1	9388.8	8827.2	8850.4	5870.1
50°	7099.4	7211.0	7764.8	8883.6	9923.8	10726.4	10551.7	10457.8	9399.8	9193.1	5971.8
52.5°	5949.7	6051.4	6427.2	7817.9	9392.1	10979.6	11493.6	11382.0	9913.9	9312.5	5929.8
55°	4140.0	4276.0	4643.0	5843.5	8167.2	10486.5	11805.4	11782.1	10372.7	9237.3	5864.5
57.5°	2029.7	2164.5	2530.4	3602.7	6050.3	9155.5	11328.9	11451.6	10646.8	9156.6	5811.5
60°	847.9	903.2	1029.2	1580.8	3385.0	6919.2	10253.3	10423.5	10478.8	9047.2	5805.9
62.5°	491.9	500.8	514.0	655.5	1316.6	3966.4	8505.5	8747.6	9595.5	8902.4	5718.6
65°	371.4	374.8	369.2	402.4	543.9	1504.6	6145.3	6474.8	8009.2	8336.4	5373.7
67.5°	305.1	305.1	290.7	297.4	341.6	563.8	3392.7	3852.6	5926.4	6851.7	4437.4
70°	243.2	248.7	242.1	233.3	244.3	311.7	1207.2	1496.8	3451.3	4046.0	2587.9
72.5°	184.6	184.6	195.7	189.0	181.3	195.7	421.2	473.1	1385.2	1687.0	934.1
75°	142.6	147.0	154.8	148.1	137.1	116.1	202.3	214.5	417.9	392.4	208.9
77.5°	73.0	74.1	98.4	108.3	101.7	70.8	88.4	97.3	136.0	121.6	77.4
80°	44.2	46.4	55.3	85.1	67.4	37.6	36.5	38.7	64.1	55.3	32.1
82.5°	18.8	19.9	31.0	31.0	27.6	14.4	14.4	14.4	31.0	28.7	13.3
85°	0.0	0.0	5.5	4.4	4.4	5.5	5.5	5.5	7.7	11.1	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	3.3
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°	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7
2.5°	3340.7	3270.0	3174.9	3088.7	2972.6	2907.4	2816.7	2742.7	2679.7	2659.8	2650.9
5°	3341.8	3220.2	3016.8	2813.4	2563.6	2366.8	2164.5	2004.2	1872.7	1830.7	1819.6
7.5°	3364.0	3184.9	2855.4	2486.2	2068.3	1723.4	1415.0	1138.6	1010.4	967.3	958.4
10°	3393.8	3155.0	2668.6	2093.8	1493.5	1050.2	744.0	567.1	483.1	436.7	443.3
12.5°	3432.5	3130.7	2461.9	1669.3	988.3	577.1	409.0	342.7	325.0	316.2	311.7
15°	3484.5	3102.0	2205.4	1248.1	605.8	371.4	315.1	297.4	290.7	286.3	285.2
17.5°	3537.5	3068.8	1944.5	877.7	402.4	308.4	283.0	274.2	269.7	266.4	265.3
20°	3593.9	3012.4	1638.3	604.7	317.3	277.5	260.9	250.9	245.4	239.9	238.8
22.5°	3618.2	2921.8	1345.4	423.4	281.9	255.4	234.4	222.2	215.6	211.1	211.1
25°	3595.0	2774.7	1042.5	321.7	256.5	231.0	210.0	196.8	191.2	186.8	186.8
27.5°	3533.1	2585.7	760.6	266.4	228.8	205.6	185.7	173.6	169.1	166.9	166.9
30°	3464.6	2346.9	536.2	228.8	197.9	179.1	162.5	154.8	153.7	151.4	151.4
32.5°	3406.0	2123.6	369.2	201.2	174.7	155.9	144.8	141.5	142.6	140.4	141.5
35°	3373.9	1904.7	274.2	179.1	155.9	138.2	132.7	132.7	132.7	131.6	131.6
37.5°	3387.2	1689.2	223.3	163.6	139.3	126.0	120.5	122.7	124.9	124.9	124.9
40°	3453.5	1497.9	197.9	149.2	124.9	115.0	110.5	113.9	117.2	119.4	119.4
42.5°	3537.5	1343.2	179.1	137.1	115.0	103.9	101.7	105.0	108.3	110.5	110.5
45°	3590.6	1187.3	160.3	121.6	105.0	91.8	91.8	96.2	95.1	96.2	96.2
47.5°	3614.9	1063.5	141.5	105.0	89.5	79.6	80.7	82.9	80.7	82.9	82.9
50°	3555.2	938.5	124.9	87.3	74.1	69.6	71.9	70.8	70.8	75.2	75.2
52.5°	3445.8	845.7	110.5	74.1	63.0	61.9	64.1	59.7	60.8	60.8	59.7
55°	3365.1	792.6	98.4	64.1	54.2	55.3	54.2	46.4	42.0	37.6	36.5
57.5°	3325.3	771.6	89.5	57.5	48.6	48.6	44.2	32.1	24.3	18.8	16.6
60°	3316.4	746.2	80.7	49.7	43.1	40.9	32.1	18.8	12.2	8.8	7.7
62.5°	3232.4	684.3	73.0	39.8	37.6	33.2	19.9	11.1	6.6	4.4	3.3
65°	2957.1	562.7	65.2	31.0	28.7	24.3	12.2	6.6	3.3	1.1	0.0
67.5°	2352.4	399.1	57.5	23.2	19.9	15.5	7.7	4.4	1.1	0.0	0.0
70°	1356.4	215.6	47.5	16.6	13.3	9.9	5.5	2.2	0.0	0.0	0.0
72.5°	453.2	100.6	36.5	11.1	9.9	7.7	3.3	1.1	0.0	0.0	0.0
75°	99.5	59.7	24.3	7.7	6.6	5.5	2.2	0.0	0.0	0.0	0.0
77.5°	37.6	42.0	12.2	5.5	4.4	3.3	1.1	0.0	0.0	0.0	0.0
80°	14.4	27.6	5.5	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	11.1	3.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	5.5	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	1.1	0.0	0.0	0.0	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)