

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: P636216

Luminaire Tested: GWS-SA3F-735-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636216  
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-SA3F-735-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

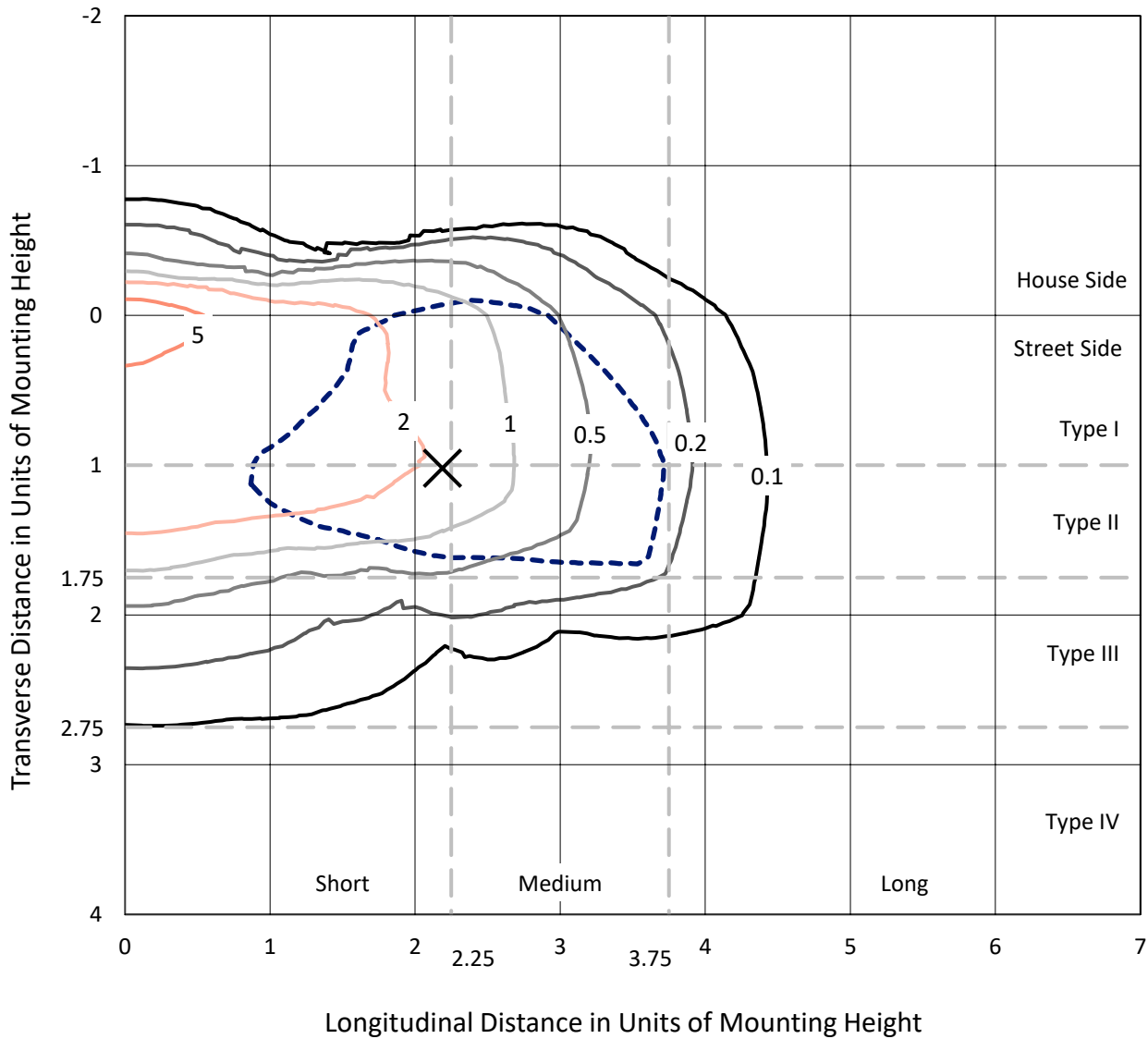
Lumens per Lamp: N/A  
Luminaire Lumens: 19116.7 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

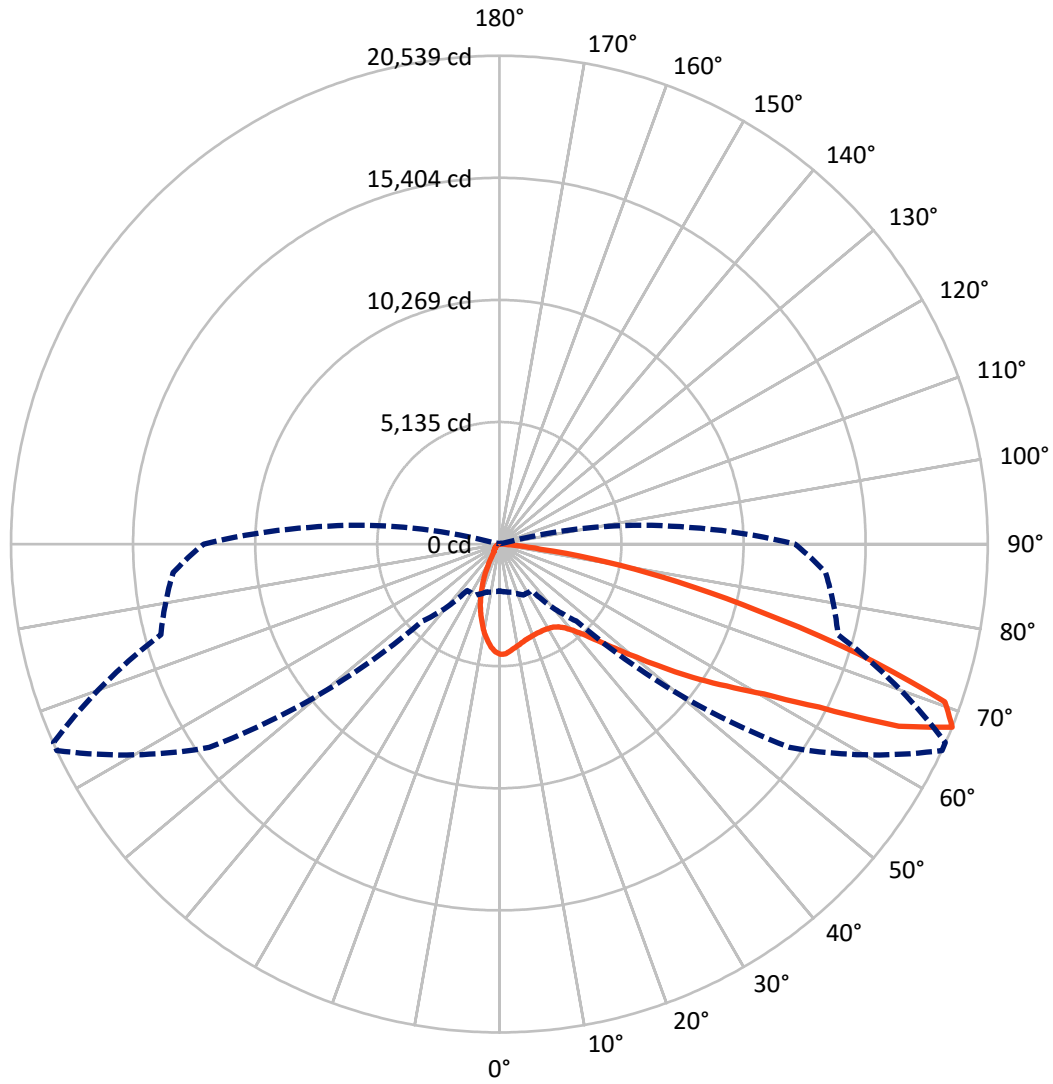
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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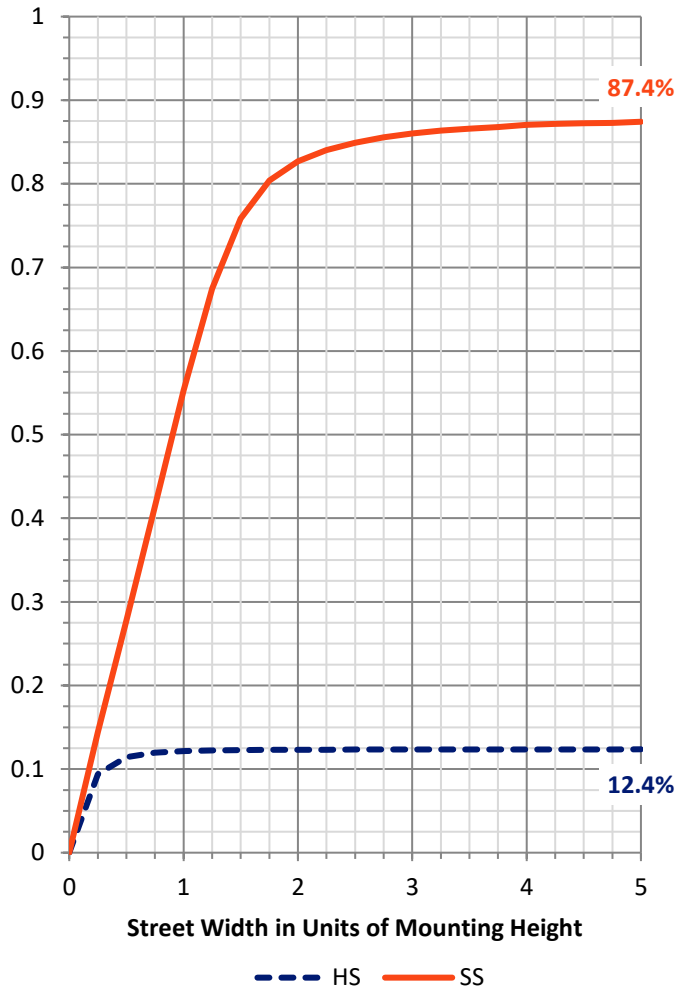
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2387.1	0.0	2387.1
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	16729.6	0.0	16729.6
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	19116.7	0.0	19116.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.1	2.0
10°-20°	865.6	4.5
20°-30°	1236.9	6.5
30°-40°	1799.6	9.4
40°-50°	2818.5	14.7
50°-60°	4396.9	23.0
60°-70°	4829.7	25.3
70°-80°	2570.4	13.4
80°-90°	214.0	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°	19116.7	100.0
0°-180°	19116.7	100.0

**Coefficient of Utilization**



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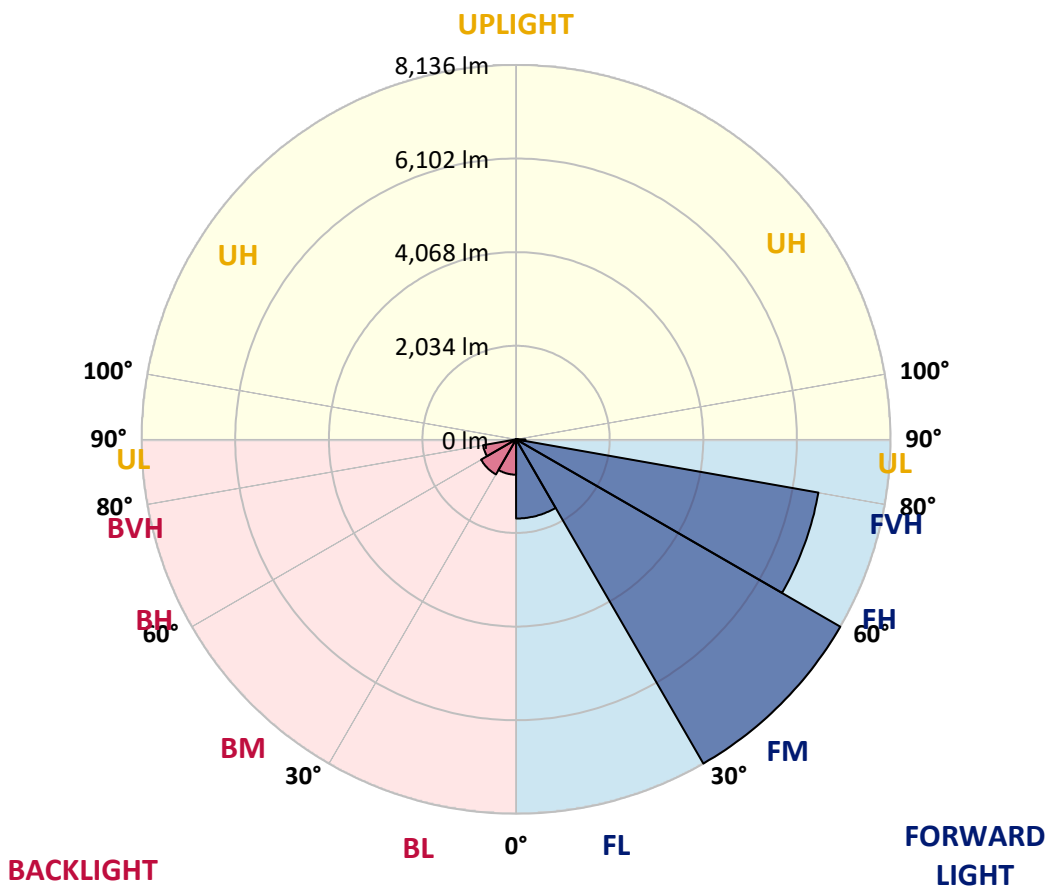
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.4	9.0			
FM (30°-60°)	8135.7	42.6			
FH (60°-80°)	6671.0	34.9			G3/7500
FVH (80°-90°)	202.5	1.1			G2/225
BL (0°-30°)	767.3	4.0	B2/1000		
BM (30°-60°)	879.3	4.6	B1/1000		
BH (60°-80°)	729.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.4	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°	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4
2.5°	4475.6	4489.5	4470.4	4517.1	4525.8	4577.6	4607.0	4627.8	4626.0	4652.0	4652.0
5°	4212.9	4226.7	4216.3	4266.5	4306.2	4387.5	4454.9	4532.7	4536.1	4615.7	4645.0
7.5°	3989.9	3991.6	3991.6	4053.8	4105.7	4206.0	4306.2	4425.5	4439.3	4562.1	4639.9
10°	3806.6	3811.8	3813.5	3884.4	3941.5	4062.5	4190.4	4333.9	4349.4	4515.4	4636.4
12.5°	3680.4	3682.2	3689.1	3763.4	3825.6	3951.8	4081.5	4245.7	4266.5	4461.8	4620.8
15°	3619.9	3616.5	3619.9	3682.2	3744.4	3865.4	3998.5	4174.8	4197.3	4416.9	4622.6
17.5°	3616.5	3611.3	3607.8	3654.5	3694.3	3801.4	3936.3	4128.2	4152.4	4396.1	4641.6
20°	3666.6	3663.1	3645.9	3666.6	3675.2	3763.4	3896.5	4091.9	4116.1	4392.7	4683.1
22.5°	3798.0	3789.3	3763.4	3744.4	3697.7	3749.6	3868.9	4065.9	4093.6	4401.3	4736.7
25°	3993.3	3989.9	3957.0	3910.3	3791.1	3770.3	3870.6	4065.9	4091.9	4411.7	4793.7
27.5°	4287.2	4266.5	4225.0	4143.7	3972.6	3851.6	3905.2	4076.3	4102.2	4425.5	4840.4
30°	4586.3	4584.5	4570.7	4487.7	4233.6	4007.2	3977.8	4104.0	4128.2	4437.6	4883.6
32.5°	4895.7	4900.9	4935.5	4871.5	4593.2	4238.8	4109.1	4161.0	4178.3	4461.8	4921.6
35°	5189.6	5200.0	5291.6	5314.1	5030.5	4589.7	4323.5	4275.1	4276.8	4515.4	4971.8
37.5°	5471.4	5505.9	5652.9	5761.8	5575.1	5015.0	4632.9	4468.7	4454.9	4622.6	5047.8
40°	5791.2	5856.9	6041.8	6226.8	6168.0	5576.8	5054.7	4766.1	4736.7	4819.6	5184.4
42.5°	6145.6	6216.4	6461.9	6721.2	6748.9	6256.2	5582.0	5200.0	5149.8	5151.6	5440.3
45°	6525.9	6621.0	6906.2	7279.6	7447.3	7013.4	6232.0	5786.0	5735.9	5661.5	5851.7
47.5°	7025.5	7108.5	7383.3	7813.8	8135.3	7825.9	7084.3	6539.7	6448.1	6339.2	6491.3
50°	7455.9	7528.5	7765.4	8304.7	8973.7	8873.5	8050.6	7481.9	7393.7	7208.7	7334.9
52.5°	7551.0	7608.1	7825.9	8432.7	9615.1	10195.9	9234.8	8621.1	8558.8	8216.6	8265.0
55°	7124.0	7210.5	7405.8	8080.0	9782.8	11489.0	10771.6	9905.5	9775.9	9229.6	9316.0
57.5°	6045.3	6199.2	6382.4	7258.9	9328.1	12177.0	12918.7	11266.0	11148.5	10204.6	10206.3
60°	4430.7	4555.2	4677.9	5480.0	8249.4	12130.4	14866.9	12794.2	12579.8	11001.5	10972.1
62.5°	3222.3	3286.3	3284.6	3569.8	5665.0	11331.7	15890.3	15096.8	14597.2	11853.8	11686.1
65°	2534.3	2532.6	2606.9	2700.2	3163.5	8747.3	16016.5	18459.2	17919.8	12996.4	12647.2
67.5°	1972.5	2010.5	2084.8	2359.7	2377.0	4577.6	14906.7	20538.8	20528.4	14740.7	13772.6
70°	1521.3	1573.1	1678.6	2079.6	2195.5	2561.9	11153.6	19880.2	20047.9	15520.4	12975.7
72.5°	976.7	973.3	1128.8	1680.3	2109.0	2135.0	6168.0	15791.8	15981.9	14057.9	10491.5
75°	546.3	549.7	637.9	1028.6	1965.5	2008.8	3054.6	11260.8	11411.2	10960.0	8061.0
77.5°	214.4	221.3	299.1	541.1	1296.5	1794.4	1815.1	7678.9	7701.4	6792.1	4944.1
80°	86.4	91.6	152.1	335.4	790.0	1208.4	1296.5	4524.0	4432.4	2629.4	1438.3
82.5°	25.9	27.7	60.5	190.2	413.2	859.2	874.7	1735.6	1638.8	565.3	366.5
85°	1.7	1.7	13.8	58.8	146.9	216.1	582.6	565.3	501.3	141.8	162.5
87.5°	0.0	0.0	1.7	1.7	3.5	6.9	62.2	103.7	105.5	25.9	72.6
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°	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4	4636.4
2.5°	4652.0	4589.7	4584.5	4536.1	4487.7	4427.2	4356.4	4304.5	4268.2	4204.2	4192.1
5°	4645.0	4562.1	4484.3	4346.0	4192.1	4026.2	3881.0	3746.1	3661.4	3604.4	3580.2
7.5°	4631.2	4525.8	4346.0	4084.9	3827.4	3536.9	3310.5	3103.0	2961.3	2878.3	2842.0
10°	4620.8	4479.1	4186.9	3791.1	3391.7	2990.7	2646.7	2338.9	2167.8	2033.0	2010.5
12.5°	4600.1	4411.7	3982.9	3447.0	2931.9	2399.5	1960.4	1583.5	1322.5	1204.9	1163.4
15°	4579.4	4340.8	3779.0	3084.0	2430.6	1773.7	1241.2	878.2	698.4	643.1	639.6
17.5°	4575.9	4276.8	3557.7	2740.0	1905.0	1161.7	707.0	568.7	530.7	516.9	516.9
20°	4586.3	4223.2	3339.9	2344.1	1388.2	707.0	527.3	492.7	470.2	458.1	458.1
22.5°	4596.6	4167.9	3130.7	1944.8	921.4	516.9	465.0	435.6	409.7	395.9	389.0
25°	4603.6	4107.4	2899.0	1543.7	601.6	449.5	408.0	369.9	338.8	321.5	321.5
27.5°	4601.8	4034.8	2665.7	1151.3	466.8	399.3	349.2	309.4	278.3	259.3	261.0
30°	4588.0	3955.3	2423.7	803.9	408.0	349.2	299.1	257.6	226.5	210.9	209.2
32.5°	4577.6	3870.6	2143.6	565.3	366.5	306.0	254.1	214.4	188.4	176.3	174.6
35°	4565.5	3787.6	1877.4	430.4	330.2	264.5	214.4	181.5	160.8	150.4	150.4
37.5°	4569.0	3701.2	1588.7	369.9	293.9	229.9	183.2	155.6	138.3	127.9	126.2
40°	4622.6	3649.3	1305.2	335.4	261.0	198.8	159.0	134.8	117.6	107.2	105.5
42.5°	4755.7	3651.0	1033.8	309.4	231.6	169.4	138.3	115.8	100.3	88.2	86.4
45°	5021.9	3723.6	793.5	281.8	200.5	146.9	119.3	98.5	83.0	72.6	70.9
47.5°	5457.5	3939.7	601.6	257.6	174.6	127.9	102.0	83.0	69.1	60.5	58.8
50°	6150.8	4330.4	473.7	228.2	146.9	110.6	86.4	69.1	57.0	48.4	46.7
52.5°	6984.0	4916.5	406.2	202.3	126.2	96.8	74.3	57.0	46.7	39.8	38.0
55°	7941.7	5616.6	375.1	176.3	107.2	83.0	60.5	46.7	38.0	32.8	29.4
57.5°	8819.9	6247.6	373.4	150.4	91.6	70.9	50.1	39.8	32.8	25.9	24.2
60°	9675.6	6774.8	350.9	124.5	79.5	58.8	43.2	32.8	27.7	22.5	20.7
62.5°	10451.8	7203.5	293.9	100.3	67.4	48.4	36.3	29.4	24.2	19.0	19.0
65°	11426.8	7749.8	224.7	81.2	55.3	39.8	31.1	25.9	22.5	17.3	17.3
67.5°	12434.6	8038.5	160.8	67.4	44.9	34.6	27.7	24.2	19.0	15.6	15.6
70°	11262.5	6792.1	115.8	55.3	38.0	29.4	24.2	22.5	19.0	15.6	13.8
72.5°	8795.7	4897.4	86.4	43.2	32.8	27.7	22.5	20.7	17.3	13.8	13.8
75°	6522.4	2855.8	65.7	34.6	25.9	22.5	22.5	20.7	17.3	13.8	12.1
77.5°	3545.6	995.7	50.1	27.7	20.7	17.3	19.0	19.0	15.6	12.1	10.4
80°	938.7	273.1	34.6	20.7	17.3	13.8	13.8	17.3	13.8	10.4	10.4
82.5°	273.1	79.5	24.2	17.3	13.8	12.1	12.1	12.1	10.4	8.6	6.9
85°	133.1	29.4	17.3	13.8	12.1	10.4	8.6	8.6	6.9	5.2	5.2
87.5°	58.8	12.1	13.8	12.1	12.1	8.6	6.9	5.2	5.2	3.5	1.7
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)