

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: P638771

Luminaire Tested: GWS-SA4F-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

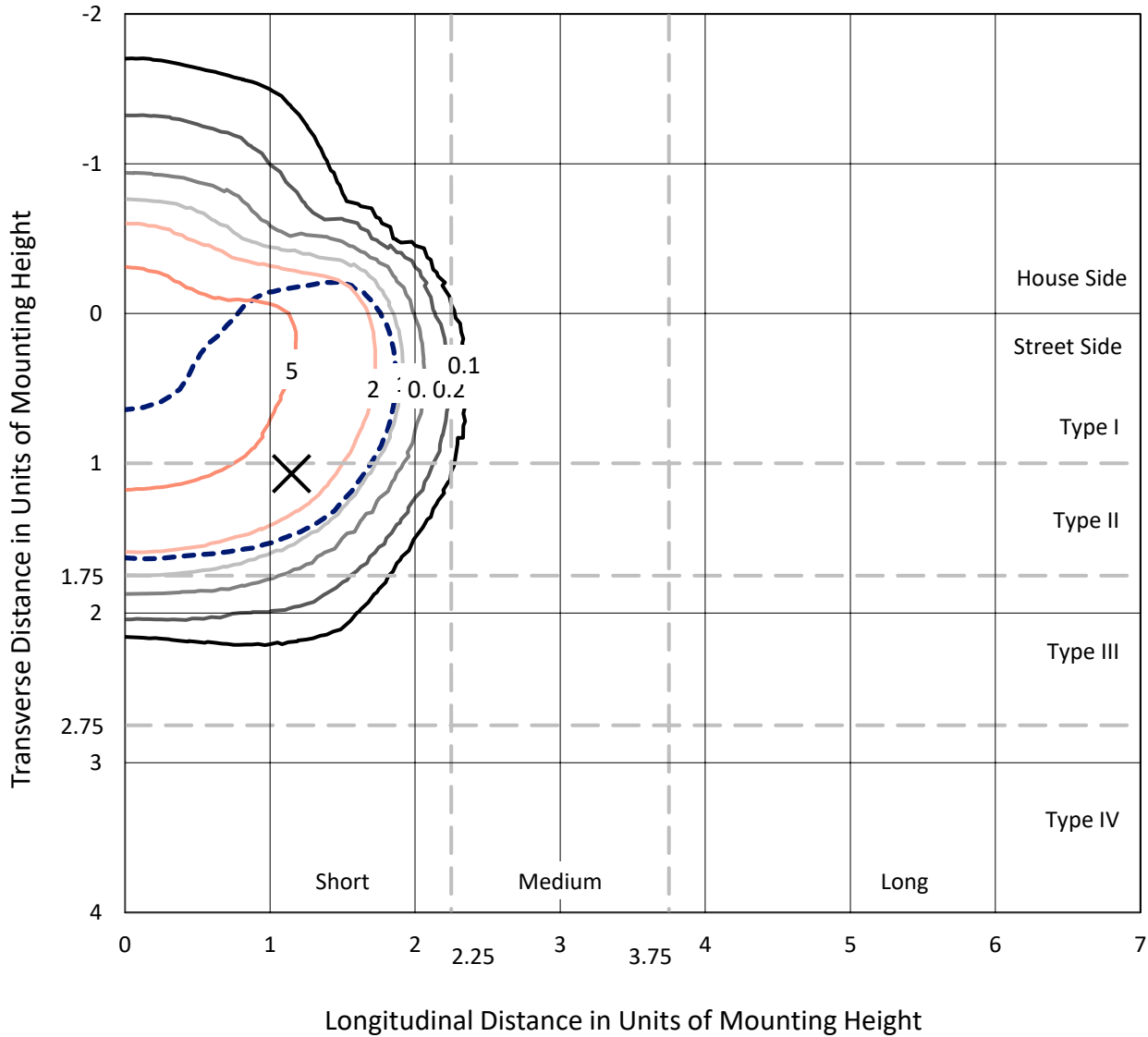
Lumens per Lamp: N/A  
Luminaire Lumens: 21010.6 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

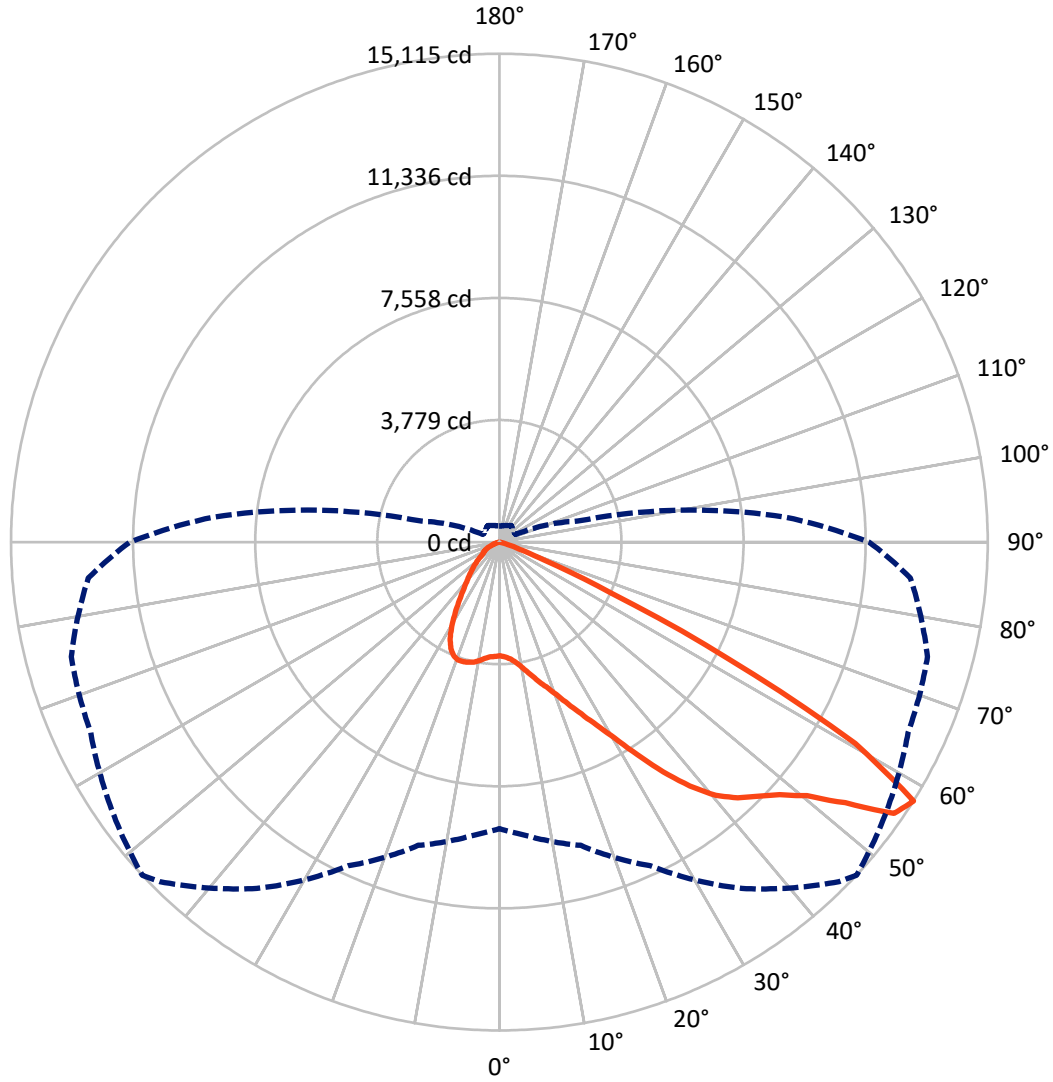
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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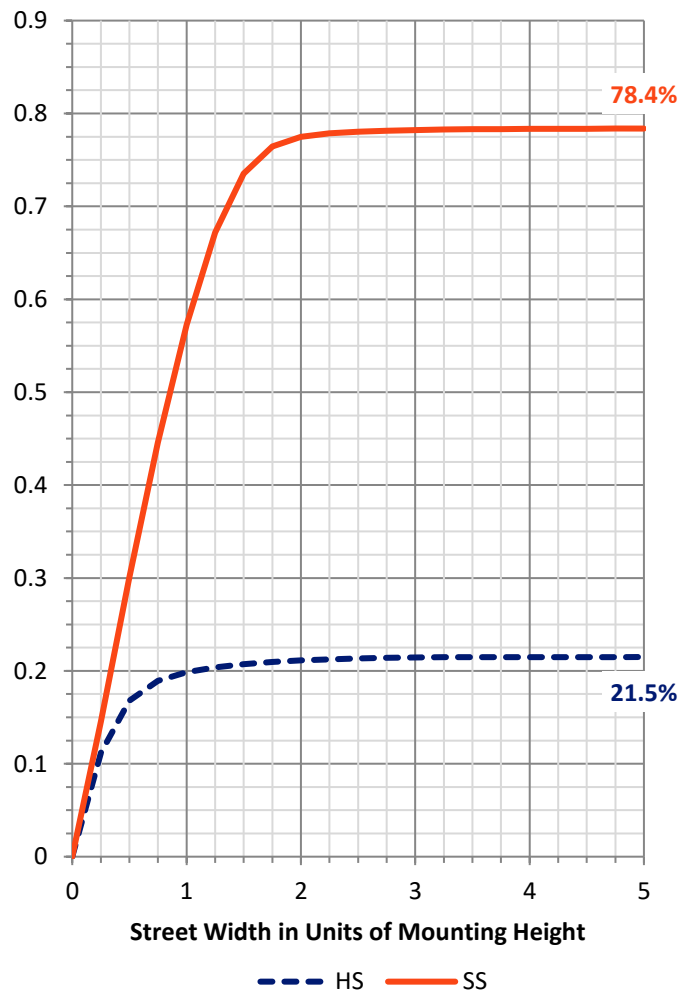
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4558.2	0.0	4558.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	16452.4	0.0	16452.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	21010.6	0.0	21010.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.9	1.7
10°-20°	1180.7	5.6
20°-30°	2192.3	10.4
30°-40°	3509.5	16.7
40°-50°	5130.0	24.4
50°-60°	6331.4	30.1
60°-70°	2115.6	10.1
70°-80°	197.1	0.9
80°-90°	4.1	0.0
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°	21010.6	100.0
0°-180°	21010.6	100.0

**Coefficient of Utilization**



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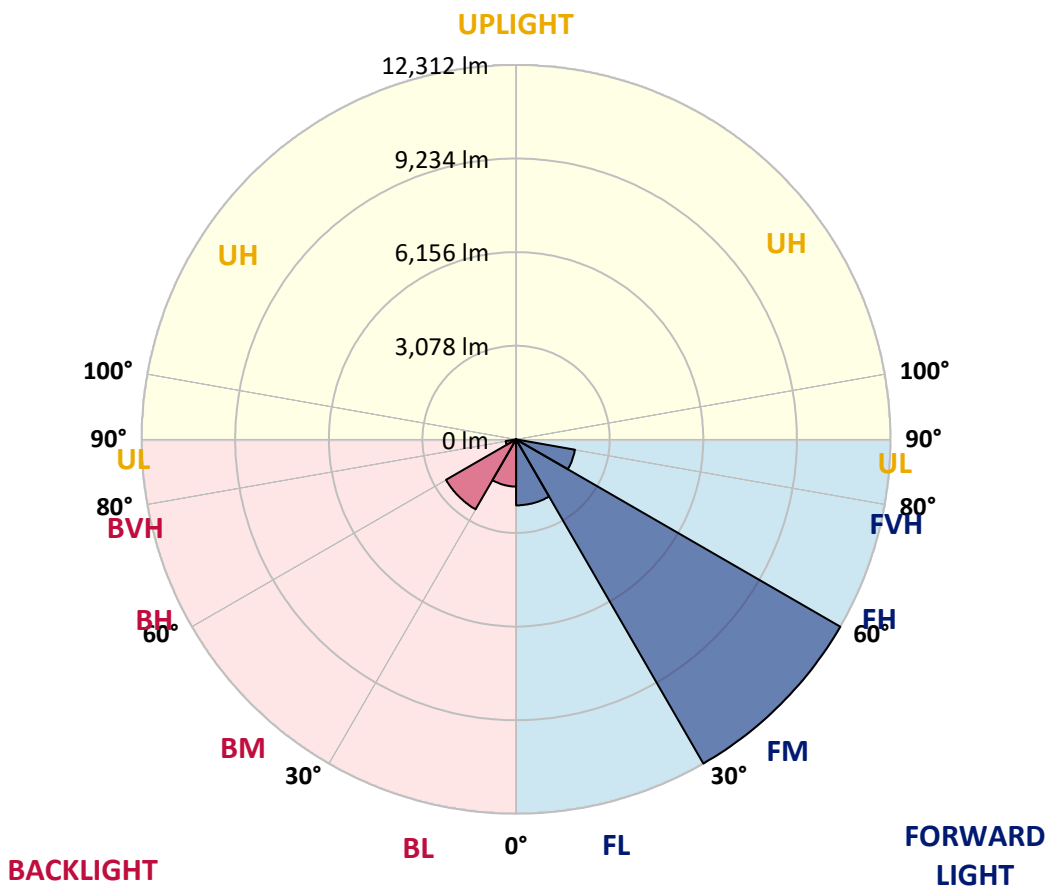
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.4	10.3			
FM (30°-60°)	12312.0	58.6			
FH (60°-80°)	1966.2	9.4			G2/5000
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1551.6	7.4	B3/2500		
BM (30°-60°)	2658.8	12.7	B3/5000		
BH (60°-80°)	346.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2
2.5°	3553.8	3551.3	3548.9	3563.5	3558.7	3556.2	3561.1	3561.1	3561.1	3546.5	3517.2
5°	3639.2	3639.2	3636.7	3651.3	3639.2	3631.8	3634.3	3634.3	3624.5	3597.7	3561.1
7.5°	3773.3	3768.4	3763.5	3778.2	3766.0	3763.5	3768.4	3753.8	3736.7	3692.8	3641.6
10°	3966.0	3966.0	3958.7	3973.3	3963.6	3958.7	3958.7	3948.9	3917.2	3848.9	3773.3
12.5°	4231.9	4219.7	4202.6	4190.4	4185.5	4183.1	4185.5	4170.9	4136.7	4048.9	3944.0
15°	4522.1	4512.4	4485.5	4466.0	4439.2	4434.3	4448.9	4436.7	4402.6	4283.1	4134.3
17.5°	4888.0	4900.2	4831.9	4790.4	4712.4	4707.5	4712.4	4731.9	4707.5	4553.8	4336.7
20°	5200.2	5209.9	5158.7	5129.4	5058.7	5027.0	5036.8	5068.5	5041.6	4861.1	4558.7
22.5°	5534.3	5546.5	5492.9	5431.9	5400.2	5400.2	5436.8	5480.7	5444.1	5207.5	4812.4
25°	5934.4	5944.1	5900.2	5819.7	5763.6	5834.4	5888.0	6005.1	5944.1	5622.1	5112.4
27.5°	6392.9	6395.3	6331.9	6249.0	6219.7	6351.4	6405.1	6585.6	6561.2	6088.0	5429.5
30°	6883.2	6885.6	6871.0	6814.9	6788.0	6961.2	7034.4	7295.4	7278.3	6666.1	5861.2
32.5°	7392.9	7392.9	7419.8	7414.9	7446.6	7729.5	7846.6	8144.2	8127.1	7373.4	6397.8
35°	7905.2	7907.6	7953.9	8071.0	8202.7	8578.4	8732.0	9093.0	9054.0	8219.8	7083.2
37.5°	8488.1	8463.7	8527.1	8702.7	8995.4	9429.6	9575.9	9919.9	9876.0	9085.7	7978.3
40°	9190.6	9146.7	9146.7	9351.5	9683.3	10183.3	10307.7	10478.4	10329.6	9785.7	8856.4
42.5°	9966.2	9924.7	9871.1	10051.6	10329.6	10719.9	10822.3	10776.0	10654.0	10446.7	9856.4
45°	10751.6	10688.2	10724.8	10834.5	10995.5	11180.9	11219.9	11005.3	10949.2	11007.7	10683.3
47.5°	11349.2	11305.3	11395.5	11549.2	11680.9	11707.7	11680.9	11383.3	11378.4	11585.8	11256.5
50°	11549.2	11554.1	11802.9	12139.5	12351.7	12373.6	12337.0	11995.5	11949.2	12010.2	11566.3
52.5°	11568.7	11588.2	11951.6	12593.1	13171.2	13434.6	13405.4	13037.0	12583.4	12517.5	12034.6
55°	11098.0	11212.6	11719.9	12656.5	13885.9	14727.3	14824.9	14120.0	13446.8	13390.7	13041.9
57.5°	8871.0	9105.2	9717.4	11051.6	13088.3	14861.5	15115.2	14607.8	13956.6	13717.6	12771.2
60°	5302.6	5592.9	6180.7	7817.3	9961.3	12215.1	12651.7	12722.4	12422.4	11732.1	9797.9
62.5°	2275.7	2251.3	2975.7	4229.4	5924.6	7763.7	7961.3	8268.6	8529.6	7807.6	5946.6
65°	780.5	848.8	1180.5	1907.4	2966.0	3605.0	3780.6	4056.2	4427.0	3653.8	2178.1
67.5°	482.9	512.2	680.5	1126.9	1600.1	1575.7	1497.6	1453.7	1414.7	968.3	597.6
70°	351.2	375.6	478.1	775.6	1075.6	756.1	656.1	531.7	590.3	543.9	424.4
72.5°	236.6	256.1	329.3	470.7	551.2	368.3	341.5	387.8	468.3	446.4	346.4
75°	141.5	153.7	187.8	229.3	224.4	190.3	192.7	273.2	358.5	334.2	246.4
77.5°	97.6	102.4	124.4	148.8	109.8	58.5	53.7	75.6	122.0	122.0	82.9
80°	24.4	31.7	31.7	19.5	17.1	14.6	14.6	22.0	34.1	24.4	12.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9	4.9	4.9
85°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9	4.9
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9
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°	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2
2.5°	3534.3	3505.0	3524.5	3519.6	3534.3	3539.1	3517.2	3512.3	3514.8	3485.5	3475.7
5°	3568.4	3534.3	3544.0	3534.3	3551.3	3566.0	3558.7	3568.4	3580.6	3558.7	3548.9
7.5°	3641.6	3607.4	3605.0	3590.4	3614.8	3624.5	3622.1	3648.9	3673.3	3658.7	3644.0
10°	3768.4	3722.1	3717.2	3705.0	3712.3	3719.6	3692.8	3697.7	3719.6	3702.6	3695.3
12.5°	3924.5	3868.4	3856.2	3827.0	3827.0	3790.4	3731.8	3719.6	3736.7	3724.5	3712.3
15°	4092.8	4017.2	3997.7	3946.5	3897.7	3829.4	3768.4	3753.8	3766.0	3751.4	3741.6
17.5°	4280.6	4195.3	4131.9	4041.6	3934.3	3853.8	3785.5	3753.8	3734.3	3705.0	3702.6
20°	4466.0	4353.8	4246.5	4102.6	3961.1	3839.2	3727.0	3644.0	3573.3	3529.4	3512.3
22.5°	4680.7	4514.8	4341.6	4139.2	3936.7	3751.4	3553.8	3412.3	3290.4	3248.9	3229.4
25°	4909.9	4695.3	4436.7	4173.3	3853.8	3556.2	3287.9	3078.2	2917.2	2863.5	2841.6
27.5°	5163.6	4868.5	4534.3	4166.0	3683.1	3278.2	2922.1	2661.1	2502.5	2453.7	2470.8
30°	5485.6	5092.9	4656.3	4090.4	3426.9	2887.9	2470.8	2251.3	2131.8	2085.4	2087.9
32.5°	5914.8	5414.8	4834.3	3929.4	3097.7	2444.0	2078.1	1917.1	1836.7	1775.7	1770.8
35°	6529.5	5905.1	5000.2	3670.9	2697.7	2048.9	1783.0	1656.2	1544.0	1473.2	1485.4
37.5°	7266.1	6522.2	5090.4	3322.1	2248.9	1741.5	1561.0	1431.8	1304.9	1200.0	1212.2
40°	8139.3	7329.5	5083.1	2863.5	1839.1	1531.8	1375.7	1224.4	1065.9	970.8	980.5
42.5°	9112.5	8093.0	4924.6	2378.1	1524.4	1361.0	1197.6	1007.4	853.7	795.1	797.6
45°	9956.4	8712.5	4646.5	1875.7	1283.0	1195.2	1012.2	817.1	748.8	707.3	704.9
47.5°	10580.9	9166.2	4248.9	1475.7	1087.8	1043.9	831.7	731.7	678.1	643.9	639.0
50°	10929.7	9324.7	3809.9	1156.1	919.5	885.4	743.9	663.4	626.9	604.9	600.0
52.5°	11398.0	9515.0	3495.2	912.2	770.8	724.4	685.4	617.1	592.7	575.6	568.3
55°	12139.5	9883.3	3222.1	724.4	641.5	631.7	646.4	590.3	575.6	548.8	539.0
57.5°	11441.9	8878.4	2502.5	561.0	541.5	578.1	624.4	563.4	526.8	502.5	492.7
60°	8051.5	5902.6	1258.6	451.2	482.9	541.5	587.8	509.8	473.2	478.1	473.2
62.5°	4439.2	2953.8	565.9	378.1	419.5	478.1	502.5	441.5	417.1	458.6	465.9
65°	1451.3	1004.9	326.8	292.7	331.7	390.3	434.2	419.5	414.6	463.4	478.1
67.5°	446.4	331.7	222.0	209.8	229.3	287.8	365.9	453.7	487.8	502.5	509.8
70°	334.2	261.0	190.3	178.1	187.8	219.5	309.8	378.1	356.1	358.5	353.7
72.5°	268.3	207.3	163.4	156.1	156.1	151.2	163.4	204.9	231.7	243.9	243.9
75°	187.8	146.3	124.4	114.6	90.2	73.2	65.9	65.9	58.5	56.1	53.7
77.5°	63.4	53.7	48.8	39.0	26.8	22.0	19.5	17.1	12.2	7.3	4.9
80°	9.8	7.3	4.9	4.9	4.9	2.4	2.4	2.4	0.0	0.0	0.0
82.5°	4.9	4.9	4.9	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
85°	4.9	4.9	4.9	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.4	2.4	2.4	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)