

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: P638858

Luminaire Tested: GWS-SA4F-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

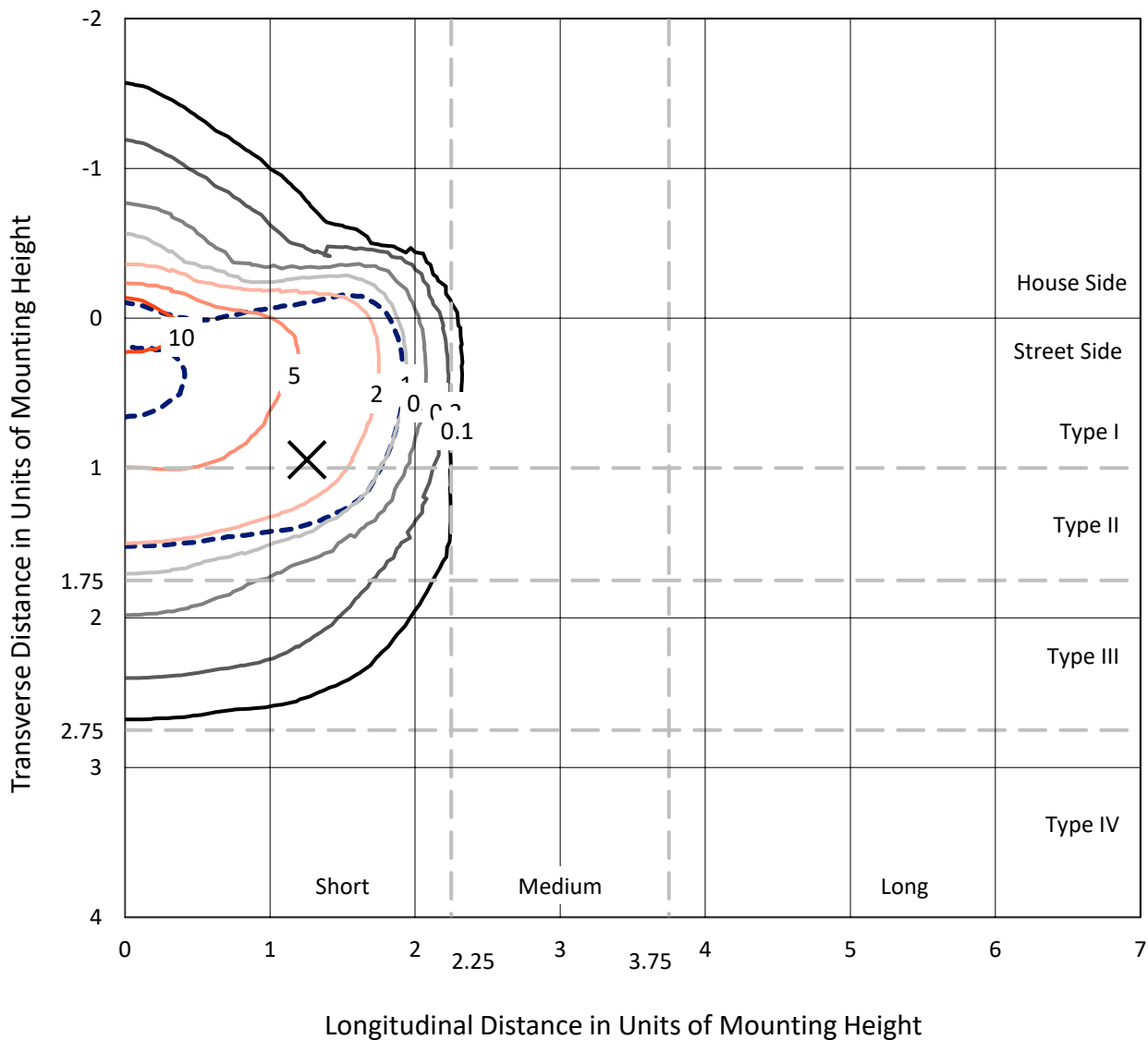
Lumens per Lamp: N/A  
Luminaire Lumens: 20077.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

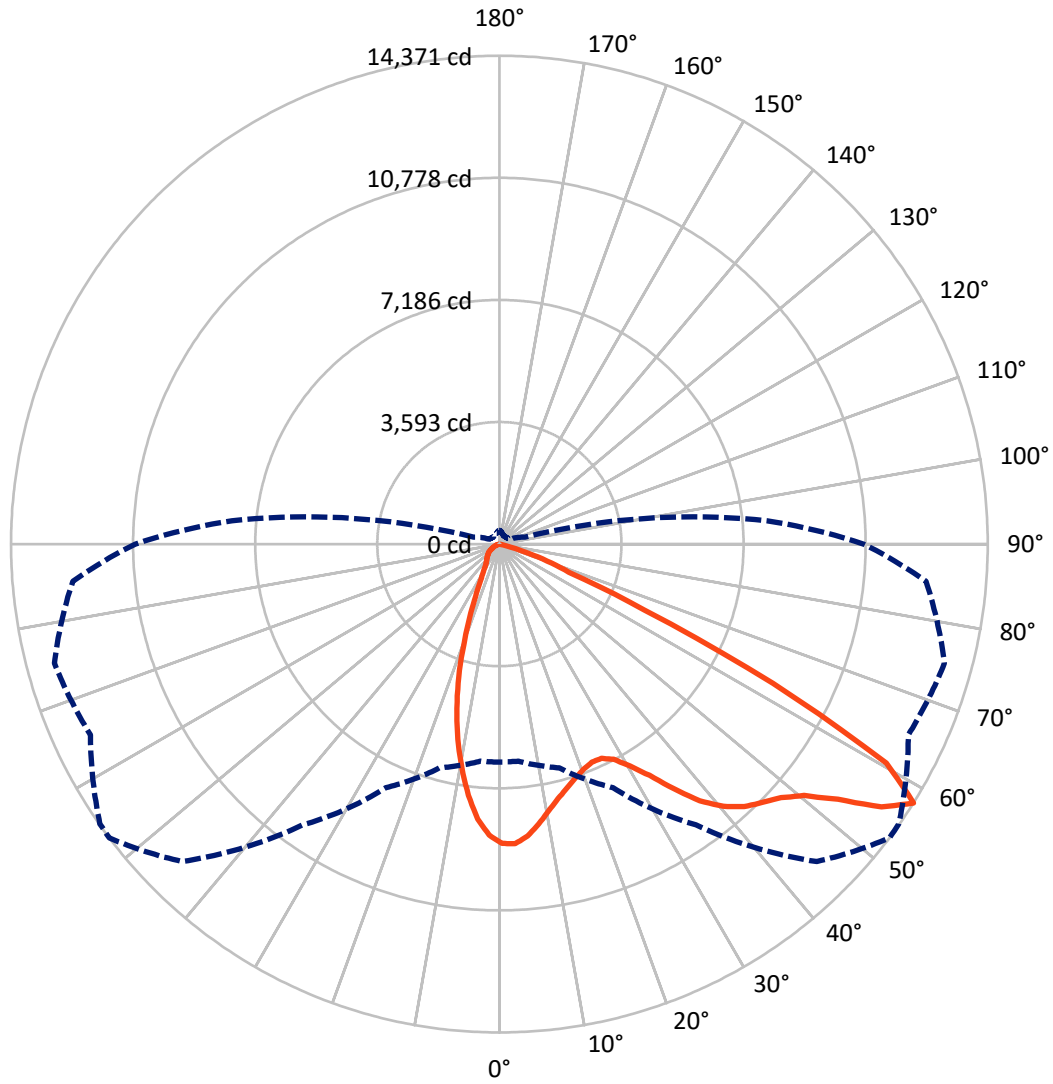
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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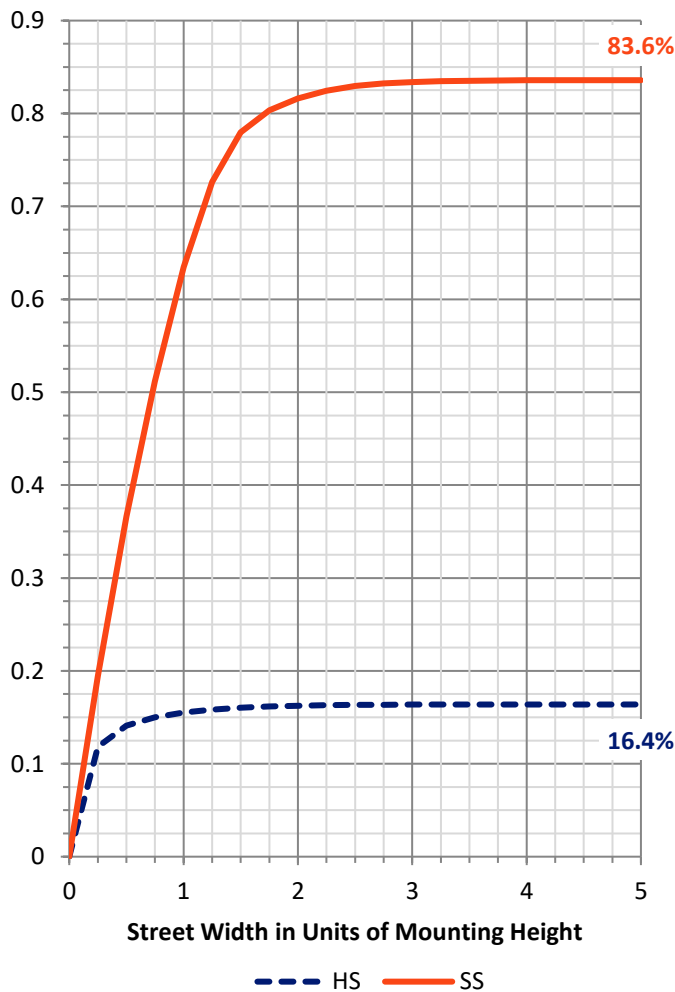
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3316.6	0.0	3316.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16761.3	0.0	16761.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20077.9	0.0	20077.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.5	3.8
10°-20°	1654.3	8.2
20°-30°	2155.1	10.7
30°-40°	3126.0	15.6
40°-50°	4510.6	22.5
50°-60°	5455.2	27.2
60°-70°	2223.3	11.1
70°-80°	199.8	1.0
80°-90°	0.0	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°	20077.9	100.0
0°-180°	20077.9	100.0

**Coefficient of Utilization**



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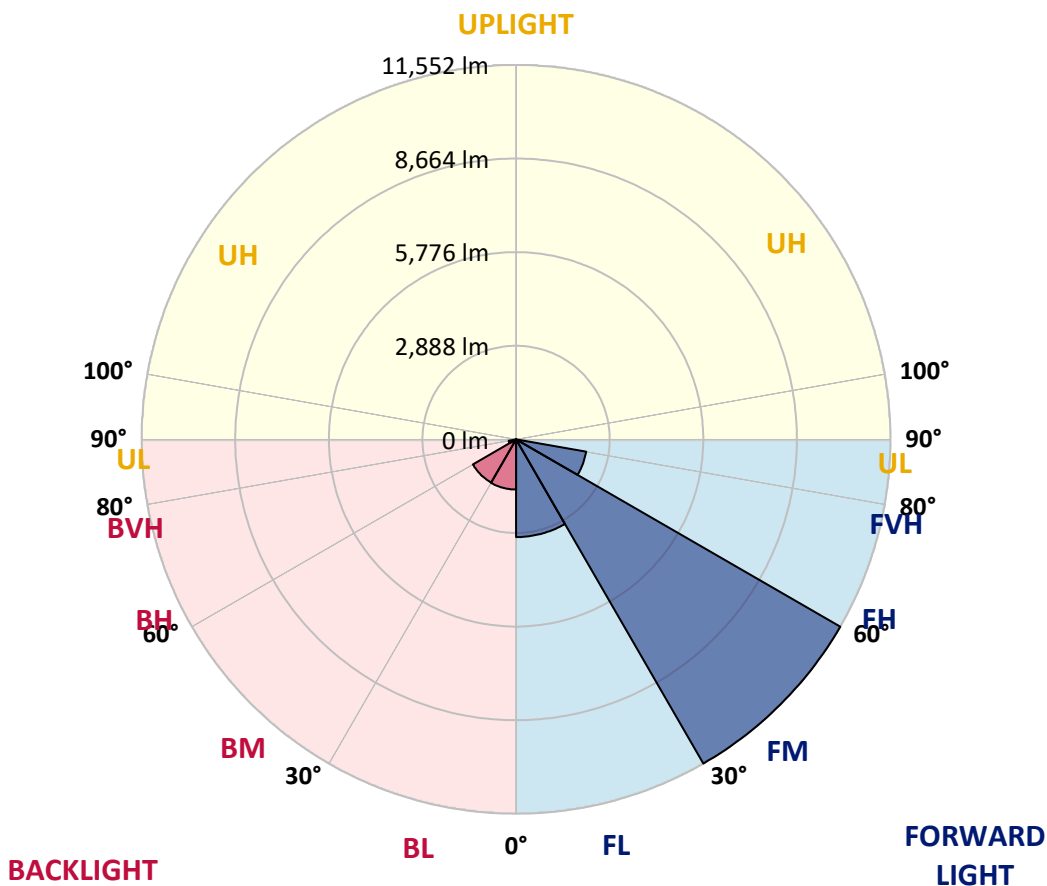
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3015.0	15.0			
FM (30°-60°)	11552.4	57.5			
FH (60°-80°)	2193.8	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1547.9	7.7	B3/2500		
BM (30°-60°)	1539.4	7.7	B2/2500		
BH (60°-80°)	229.3	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	53°	55°	65°	75°	85°
0°	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3
2.5°	8684.3	8704.0	8738.4	8782.7	8812.2	8827.0	8827.0	8868.8	8841.8	8819.6	8795.0
5°	8312.7	8332.4	8379.1	8450.5	8521.9	8573.5	8632.6	8676.9	8694.1	8694.1	8652.3
7.5°	7788.5	7815.6	7845.1	7943.6	8098.6	8214.3	8315.1	8379.1	8472.6	8502.2	8443.1
10°	7225.0	7252.1	7318.5	7453.9	7631.0	7803.3	7975.6	8056.8	8216.7	8300.4	8233.9
12.5°	6747.6	6759.9	6848.5	7010.9	7237.3	7473.5	7682.7	7766.4	7992.8	8118.3	8039.5
15°	6353.9	6361.2	6449.8	6629.5	6890.3	7180.7	7444.0	7530.1	7808.2	7997.7	7879.6
17.5°	6056.1	6058.6	6134.8	6329.3	6602.4	6924.8	7237.3	7343.1	7702.4	7931.3	7754.1
20°	5906.0	5898.6	5952.7	6122.5	6380.9	6703.3	7072.4	7202.9	7643.3	7921.4	7658.1
22.5°	5908.5	5891.2	5913.4	6034.0	6253.0	6555.7	6969.1	7116.7	7648.3	7963.2	7576.9
25°	6048.7	6024.1	6029.0	6093.0	6248.0	6523.7	6983.8	7141.3	7746.7	8103.5	7547.4
27.5°	6285.0	6257.9	6257.9	6289.9	6373.6	6624.6	7168.4	7348.0	8010.0	8376.7	7608.9
30°	6590.1	6563.0	6553.2	6585.2	6654.1	6885.4	7579.4	7766.4	8460.3	8824.5	7805.8
32.5°	6939.5	6907.6	6924.8	6969.1	7035.5	7355.4	8108.4	8357.0	9023.9	9427.4	8160.1
35°	7308.7	7281.6	7360.3	7456.3	7559.7	8007.5	8839.3	9055.9	9715.4	10178.0	8701.5
37.5°	7660.6	7648.3	7813.1	8014.9	8229.0	8790.1	9582.5	9749.8	10308.4	10995.0	9363.5
40°	8012.5	8010.0	8293.0	8647.4	8989.4	9570.2	10146.0	10283.8	10670.2	11629.9	9998.4
42.5°	8406.2	8406.2	8797.5	9269.9	9725.2	10229.7	10559.4	10620.9	10832.6	11996.5	10475.8
45°	8782.7	8804.9	9257.6	9806.4	10345.3	10744.0	10844.9	10849.8	10899.0	12213.1	10871.9
47.5°	9080.5	9100.2	9641.5	10274.0	10854.7	11135.3	11150.0	11127.9	11073.7	12419.8	11177.1
50°	9321.6	9351.2	9917.1	10586.5	11204.2	11511.8	11625.0	11602.8	11465.0	12641.3	11391.2
52.5°	9439.7	9481.6	10013.1	10741.5	11593.0	12156.5	12471.5	12523.2	12050.7	12764.3	11595.4
55°	8494.8	8556.3	9046.0	10042.6	11809.5	13153.1	13647.8	13637.9	12685.6	13131.0	12092.5
57.5°	6415.4	6410.5	6816.5	7906.6	10086.9	13209.7	14371.2	14351.6	13278.6	13556.7	12601.9
60°	4368.0	4338.4	4446.7	4973.3	7052.7	10761.2	13079.3	13345.1	12857.8	12523.2	10699.7
62.5°	3595.3	3568.2	3533.8	3388.6	4050.5	6703.3	9036.2	9439.7	9375.8	8704.0	6710.7
65°	2943.2	2965.3	3061.3	2999.8	2817.7	3437.8	4690.3	4929.0	4505.8	3792.1	2345.2
67.5°	2170.5	2180.3	2305.8	2630.6	2532.2	2288.6	2207.4	2246.7	1316.5	605.4	391.3
70°	1282.1	1289.5	1405.1	1840.7	2054.8	1757.0	1491.3	1469.1	521.7	162.4	177.2
72.5°	725.9	711.2	733.3	876.1	1119.7	932.7	767.8	698.9	157.5	91.1	91.1
75°	344.5	334.7	287.9	270.7	246.1	157.5	98.4	83.7	39.4	36.9	36.9
77.5°	2.5	7.4	4.9	7.4	7.4	4.9	2.5	2.5	7.4	7.4	9.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3	8807.3
2.5°	8750.7	8676.9	8659.7	8654.7	8585.8	8512.0	8435.7	8406.2	8361.9	8334.8	8357.0
5°	8585.8	8480.0	8386.5	8300.4	8147.8	7980.5	7835.3	7741.8	7653.2	7594.1	7608.9
7.5°	8352.1	8214.3	8000.2	7781.1	7500.6	7249.6	6969.1	6796.8	6636.9	6548.3	6590.1
10°	8103.5	7921.4	7579.4	7207.8	6767.3	6373.6	5972.4	5645.1	5455.7	5276.0	5295.7
12.5°	7859.9	7618.7	7106.9	6543.3	5987.2	5406.4	4801.1	4348.3	4038.2	3814.3	3779.8
15°	7633.5	7323.4	6646.7	5903.5	5145.6	4372.9	3600.2	2953.0	2593.7	2372.2	2357.5
17.5°	7431.7	7047.8	6169.3	5234.2	4284.3	3295.1	2406.7	1921.9	1715.2	1619.2	1609.4
20°	7237.3	6769.7	5682.1	4555.0	3344.3	2313.2	1661.1	1437.1	1370.7	1331.3	1336.2
22.5°	7050.3	6467.1	5170.2	3802.0	2507.6	1624.1	1287.0	1200.9	1193.5	1198.4	1200.9
25°	6892.8	6189.0	4643.6	3076.0	1789.0	1237.8	1075.4	1050.8	1072.9	1104.9	1109.8
27.5°	6811.6	5962.6	4129.3	2345.2	1294.4	1006.5	932.7	942.5	981.9	1016.3	1021.2
30°	6833.7	5792.8	3597.7	1700.4	996.6	849.0	824.4	844.1	883.4	915.4	920.4
32.5°	6991.2	5706.7	3053.9	1237.8	819.5	740.7	730.9	745.6	780.1	804.7	807.2
35°	7303.7	5726.4	2537.1	947.4	703.8	659.5	657.0	666.9	684.1	701.3	703.8
37.5°	7763.9	5886.3	2027.7	787.5	637.4	605.4	595.5	595.5	607.8	615.2	620.1
40°	8258.5	6127.5	1624.1	696.4	590.6	556.1	536.5	529.1	538.9	548.8	551.2
42.5°	8667.0	6368.6	1319.0	632.4	553.7	506.9	482.3	477.4	489.7	506.9	511.9
45°	8979.6	6555.7	1100.0	580.8	511.9	460.2	433.1	433.1	455.3	484.8	489.7
47.5°	9265.0	6705.8	937.6	534.0	472.5	418.3	391.3	396.2	433.1	472.5	479.9
50°	9459.4	6826.3	817.0	492.2	440.5	383.9	359.3	369.1	413.4	460.2	467.6
52.5°	9668.6	6974.0	738.2	455.3	411.0	356.8	334.7	342.1	391.3	442.9	452.8
55°	10246.9	7468.6	735.8	406.0	359.3	319.9	310.1	312.5	361.7	420.8	433.1
57.5°	10719.4	7904.2	785.0	342.1	300.2	280.5	275.6	278.1	322.4	388.8	403.6
60°	8868.8	6142.2	649.7	283.0	251.0	246.1	238.7	243.6	285.5	344.5	356.8
62.5°	5249.0	3511.6	310.1	216.6	214.1	209.2	201.8	211.6	251.0	302.7	310.1
65°	1793.9	1040.9	196.9	177.2	182.1	174.7	167.3	177.2	211.6	241.2	243.6
67.5°	344.5	275.6	157.5	147.6	150.1	135.3	132.9	142.7	162.4	167.3	164.9
70°	179.6	160.0	120.6	120.6	115.7	96.0	96.0	105.8	105.8	98.4	96.0
72.5°	93.5	88.6	78.7	88.6	73.8	59.1	59.1	64.0	59.1	49.2	49.2
75°	36.9	36.9	34.5	44.3	32.0	27.1	24.6	29.5	22.1	17.2	17.2
77.5°	9.8	9.8	9.8	12.3	7.4	7.4	4.9	4.9	2.5	0.0	0.0
80°	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)