

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: P643639

Luminaire Tested: GWS-SA6F-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

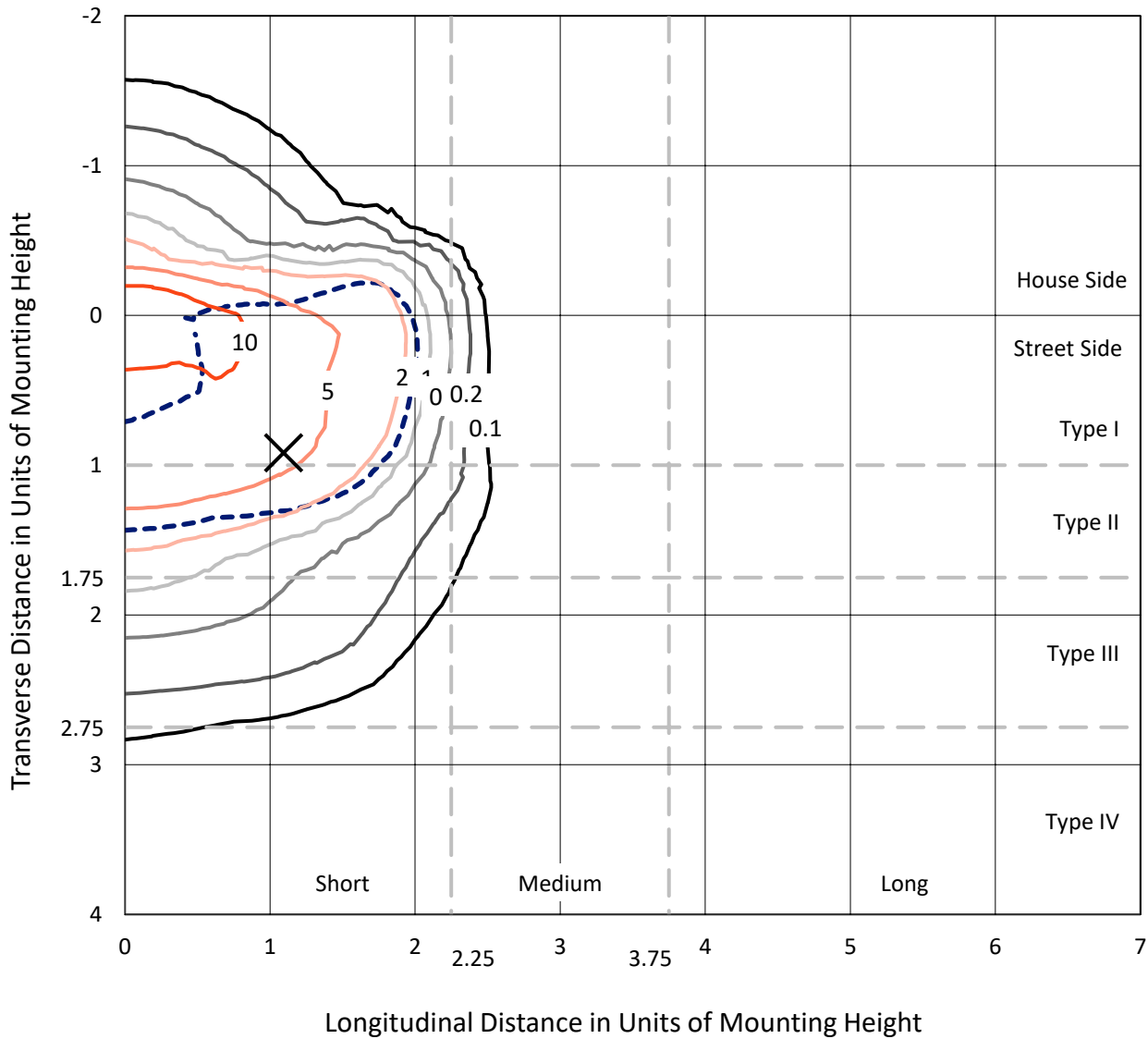
Lumens per Lamp: N/A  
Luminaire Lumens: 28823.9 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

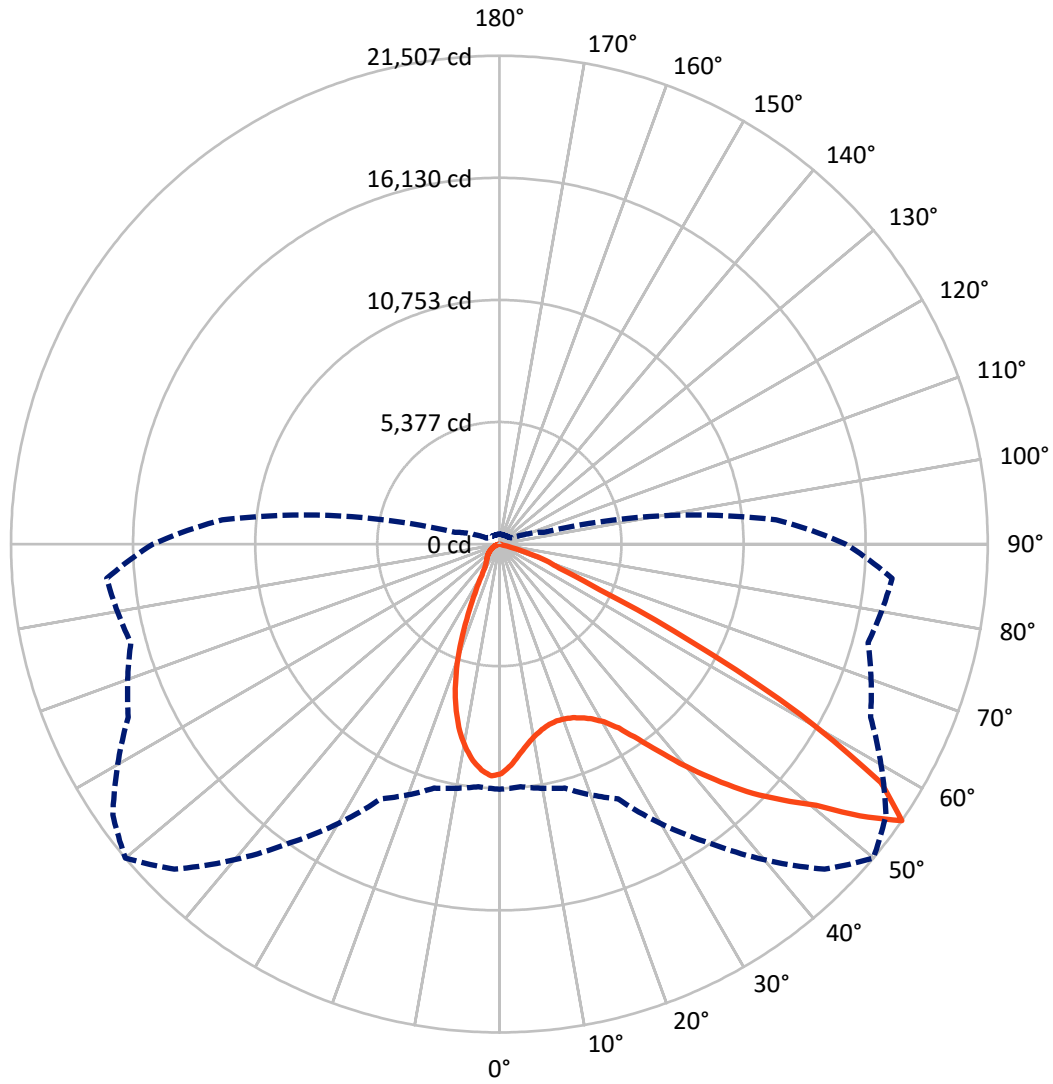
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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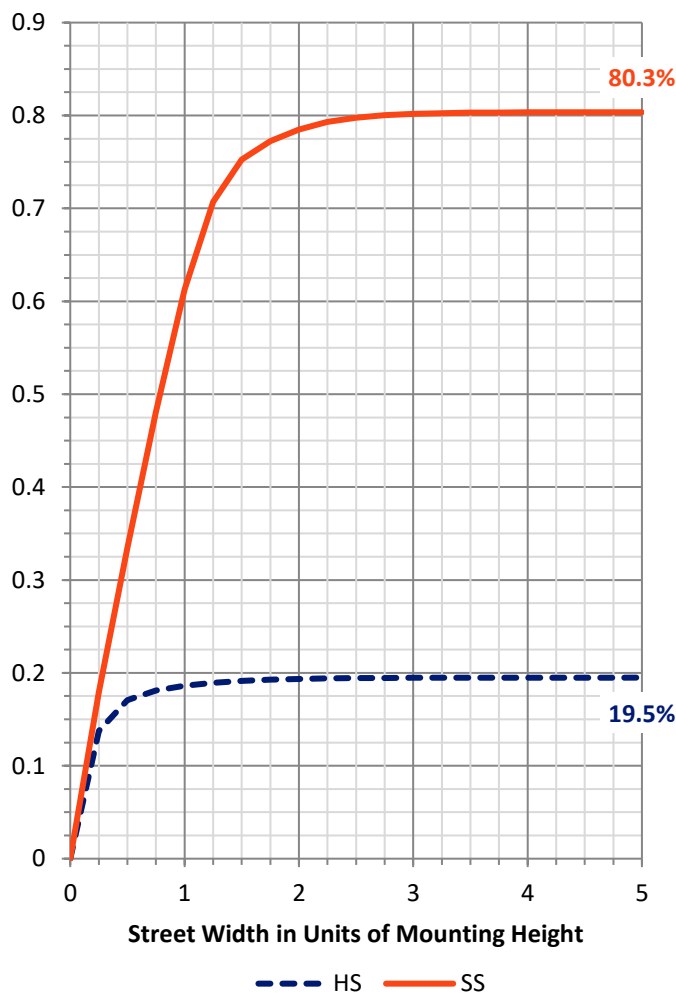
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5679.7	0.0	5679.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	23144.2	0.0	23144.2
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	28823.9	0.0	28823.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.1	3.1
10°-20°	2185.6	7.6
20°-30°	3082.8	10.7
30°-40°	4561.9	15.8
40°-50°	6581.4	22.8
50°-60°	7763.2	26.9
60°-70°	3463.0	12.0
70°-80°	297.7	1.0
80°-90°	0.1	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°	28823.9	100.0
0°-180°	28823.9	100.0

**Coefficient of Utilization**



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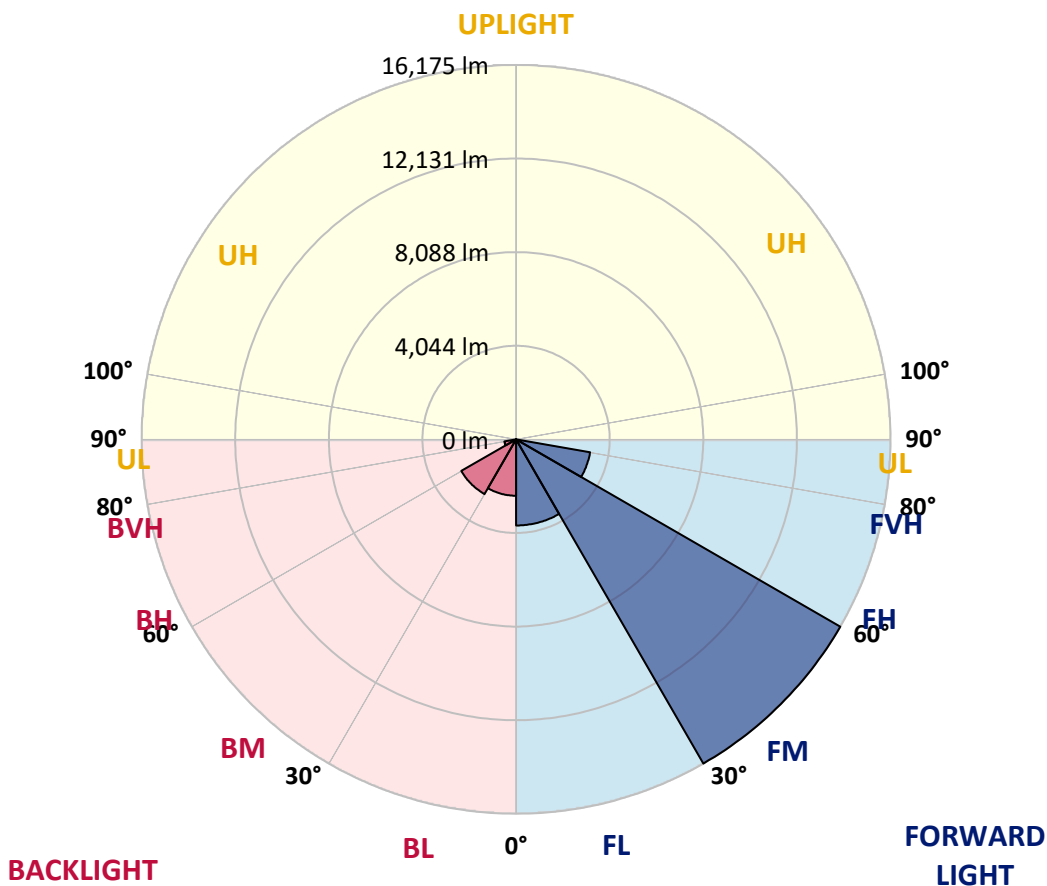
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3721.3	12.9			
FM (30°-60°)	16175.0	56.1			
FH (60°-80°)	3247.9	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2435.2	8.4	B3/2500		
BM (30°-60°)	2731.5	9.5	B3/5000		
BH (60°-80°)	512.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0
2.5°	9395.2	9402.2	9405.7	9500.8	9535.9	9676.7	9750.6	9789.3	9891.3	10011.0	10109.5
5°	8765.3	8754.8	8772.4	8892.0	8969.4	9177.0	9289.6	9367.0	9592.2	9873.7	10109.5
7.5°	8216.4	8237.5	8258.6	8388.8	8504.9	8730.1	8892.0	9008.1	9321.3	9740.0	10137.7
10°	7829.3	7829.3	7861.0	8008.8	8146.0	8424.0	8585.9	8733.7	9106.7	9620.4	10169.3
12.5°	7544.3	7547.8	7586.5	7755.4	7913.8	8202.3	8371.2	8515.5	8927.2	9500.8	10176.4
15°	7410.6	7400.0	7431.7	7611.2	7787.1	8058.0	8234.0	8374.7	8800.5	9433.9	10211.6
17.5°	7375.4	7368.4	7393.0	7568.9	7748.4	8012.3	8184.7	8325.5	8782.9	9455.0	10317.1
20°	7477.4	7463.4	7452.8	7604.1	7773.0	8033.4	8212.9	8371.2	8867.4	9571.1	10479.0
22.5°	7720.2	7720.2	7695.6	7769.5	7882.1	8117.9	8304.4	8512.0	9089.1	9803.4	10718.3
25°	8167.1	8131.9	8086.2	8117.9	8103.8	8251.6	8473.3	8761.8	9507.8	10186.9	11010.3
27.5°	8677.4	8709.0	8631.6	8635.1	8512.0	8459.2	8716.1	9152.4	10130.6	10728.8	11443.1
30°	9370.6	9345.9	9349.4	9338.9	9053.9	8804.0	9082.0	9662.6	10915.3	11555.7	12006.1
32.5°	9912.5	9947.6	10063.8	10130.6	9757.6	9356.5	9652.1	10355.8	11809.1	12498.8	12695.8
35°	10486.0	10549.4	10785.1	11003.3	10690.1	10229.1	10545.8	11274.2	12650.1	13431.3	13487.6
37.5°	11091.3	11217.9	11499.4	11883.0	11833.7	11425.5	11714.1	12354.5	13311.6	13994.3	14142.1
40°	11784.5	11907.6	12368.6	12921.0	13037.1	12945.7	13040.7	13413.7	13747.9	14018.9	14423.6
42.5°	12544.5	12713.4	13297.5	14036.5	14472.8	14553.8	14332.1	14293.4	13938.0	13737.4	14363.7
45°	13441.8	13638.9	14300.4	15257.5	15950.7	16059.8	15676.2	15180.1	14057.6	13529.8	14184.3
47.5°	14448.2	14634.7	15292.7	16443.3	17474.4	17516.6	16848.0	16049.2	14413.0	13769.1	14321.5
50°	14786.0	14902.1	15472.2	16823.4	18723.5	19047.3	18079.6	17027.5	15127.3	14472.8	14990.1
52.5°	13624.8	13670.5	14166.7	15532.0	18470.2	20549.8	19877.7	18487.8	16397.6	15546.1	16021.1
55°	10795.7	10721.8	11122.9	12375.6	16052.8	20243.6	21506.9	20782.0	18033.8	16805.8	17361.8
57.5°	7551.3	7463.4	7371.9	8219.9	11978.0	17161.2	19817.9	21102.2	19592.7	18055.0	18808.0
60°	6207.2	6122.7	5679.3	5288.8	7241.7	12322.8	15222.3	17639.7	19466.0	17991.6	18762.2
62.5°	5362.6	5313.4	5133.9	4602.6	4261.3	7034.1	9532.4	11847.8	14937.3	14128.0	14170.2
65°	4212.0	4197.9	4321.1	4377.4	3768.6	3891.8	4863.0	6157.9	8075.6	7614.7	7220.6
67.5°	2878.4	2846.7	3078.9	3786.2	3624.4	3071.9	2846.7	2871.3	3494.2	2135.9	1696.1
70°	1829.8	1755.9	1759.4	2347.0	2948.8	2424.5	2195.7	1931.8	1738.3	316.7	358.9
72.5°	1171.8	1126.0	967.7	1059.2	1365.3	1182.3	1192.9	1027.5	686.2	168.9	197.1
75°	492.6	453.9	348.4	278.0	274.5	172.4	151.3	140.8	95.0	95.0	102.0
77.5°	3.5	0.0	0.0	3.5	7.0	3.5	3.5	7.0	14.1	21.1	24.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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°	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0	10113.0
2.5°	10169.3	10084.9	10179.9	10215.1	10211.6	10215.1	10113.0	10042.7	10039.1	9951.2	9908.9
5°	10208.0	10141.2	10211.6	10165.8	10056.7	9919.5	9736.5	9578.2	9507.8	9405.7	9356.5
7.5°	10281.9	10211.6	10201.0	10018.0	9747.1	9458.5	9134.8	8846.3	8691.4	8504.9	8515.5
10°	10334.7	10253.8	10116.5	9743.6	9293.1	8832.2	8350.1	7920.8	7649.9	7400.0	7357.8
12.5°	10355.8	10236.2	9916.0	9353.0	8719.6	8117.9	7410.6	6798.3	6376.1	6048.8	6003.1
15°	10394.5	10201.0	9659.1	8881.4	8012.3	7160.8	6259.9	5422.5	4863.0	4486.5	4518.1
17.5°	10454.4	10162.3	9370.6	8353.6	7252.2	6048.8	4831.3	3870.7	3356.9	3138.8	3142.3
20°	10538.8	10116.5	9053.9	7773.0	6340.9	4792.6	3378.0	2653.2	2508.9	2501.9	2491.3
22.5°	10651.4	10070.8	8716.1	7136.1	5260.6	3356.9	2248.5	2023.3	2083.1	2199.2	2220.4
25°	10785.1	10014.5	8339.6	6418.3	4081.8	2202.8	1685.5	1650.3	1794.6	1949.4	1984.6
27.5°	10992.7	9986.4	7910.3	5601.9	2864.3	1579.9	1379.4	1400.5	1530.7	1660.9	1692.5
30°	11344.6	10039.1	7442.3	4687.0	1840.3	1259.7	1196.4	1228.1	1298.4	1365.3	1393.4
32.5°	11823.2	10194.0	6988.3	3687.7	1312.5	1094.3	1080.3	1097.9	1126.0	1164.7	1175.3
35°	12382.7	10461.4	6520.3	2639.1	1083.8	999.3	985.3	985.3	999.3	1006.4	1009.9
37.5°	12843.6	10742.9	6080.5	1755.9	971.2	925.4	904.3	893.8	890.3	897.3	900.8
40°	13044.2	10859.0	5601.9	1277.3	890.3	858.6	826.9	795.2	795.2	819.9	823.4
42.5°	12903.4	10728.8	5049.5	1055.6	834.0	788.2	738.9	710.8	724.9	749.5	756.5
45°	12604.3	10408.6	4440.7	932.5	777.7	717.8	661.5	643.9	658.0	689.7	696.7
47.5°	12555.1	10197.5	3712.3	851.5	717.8	658.0	598.2	580.6	598.2	622.8	629.9
50°	13044.2	10380.5	2903.0	781.2	661.5	594.7	545.4	527.8	538.4	552.5	559.5
52.5°	13938.0	11059.6	2343.5	714.3	594.7	531.3	499.7	478.6	478.6	492.6	496.2
55°	15257.5	12245.4	2023.3	636.9	517.3	482.1	453.9	432.8	432.8	439.8	443.4
57.5°	16777.6	13681.1	2097.2	534.9	453.9	436.3	411.7	394.1	401.1	401.1	401.1
60°	16566.5	13575.5	2245.0	450.4	401.1	394.1	373.0	366.0	383.5	369.5	362.4
62.5°	12203.2	9377.6	1175.3	369.5	344.8	337.8	323.7	337.8	362.4	323.7	309.7
65°	5925.7	4539.3	471.5	302.6	292.1	285.0	278.0	299.1	313.2	253.4	239.3
67.5°	1393.4	1133.1	306.1	256.9	242.8	228.7	235.8	239.3	228.7	172.4	165.4
70°	362.4	355.4	239.3	214.6	193.5	179.5	179.5	175.9	151.3	109.1	102.0
72.5°	197.1	193.5	172.4	161.9	133.7	119.6	123.2	109.1	84.5	63.3	59.8
75°	98.5	105.6	98.5	91.5	73.9	66.9	66.9	59.8	42.2	24.6	24.6
77.5°	21.1	24.6	24.6	21.1	17.6	14.1	14.1	17.6	7.0	0.0	0.0
80°	3.5	3.5	3.5	3.5	3.5	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)