

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: P641439

Luminaire Tested: GWS-SA5F-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641439  
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-SA5F-830-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

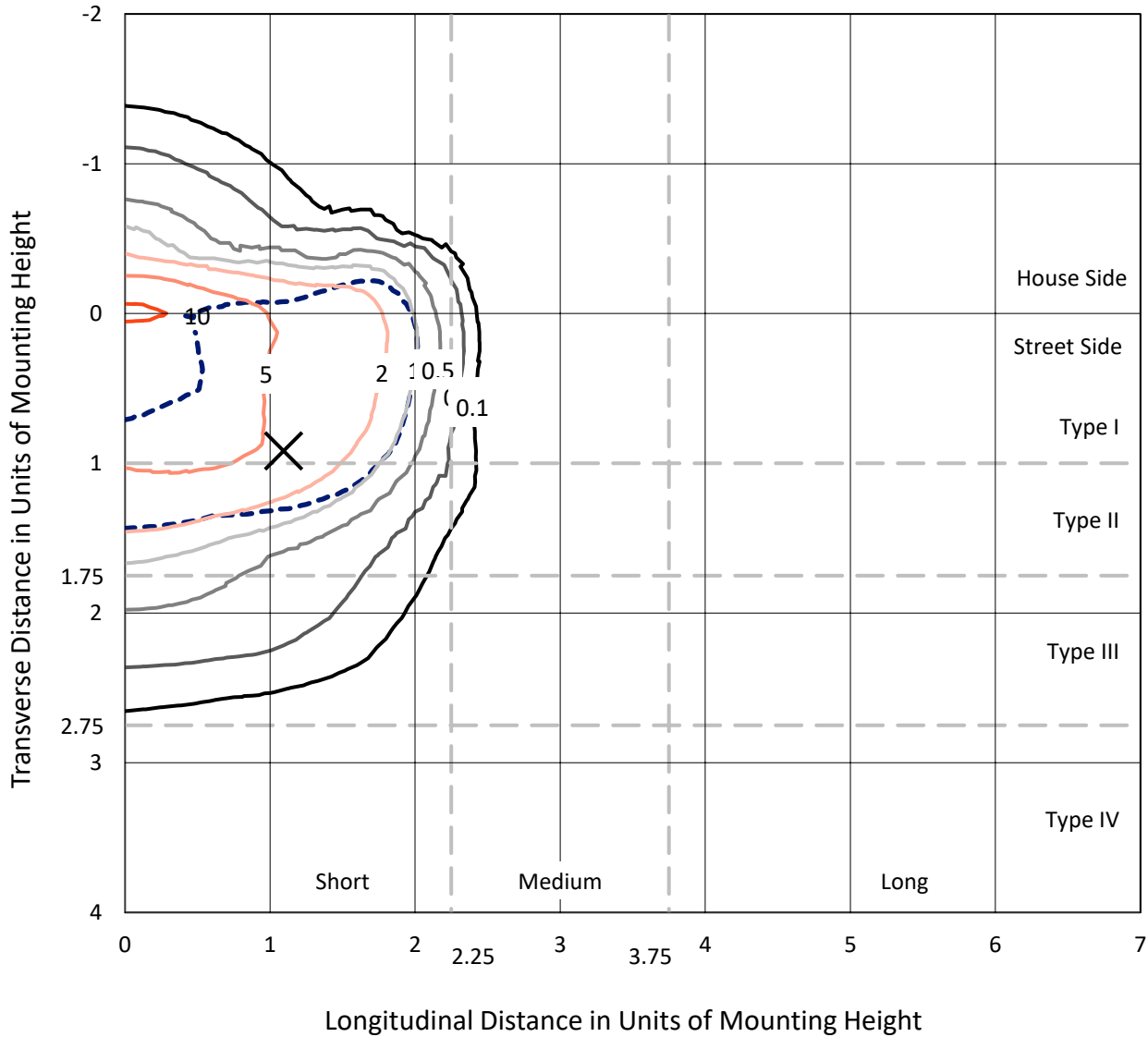
Lumens per Lamp: N/A  
Luminaire Lumens: 19469.1 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

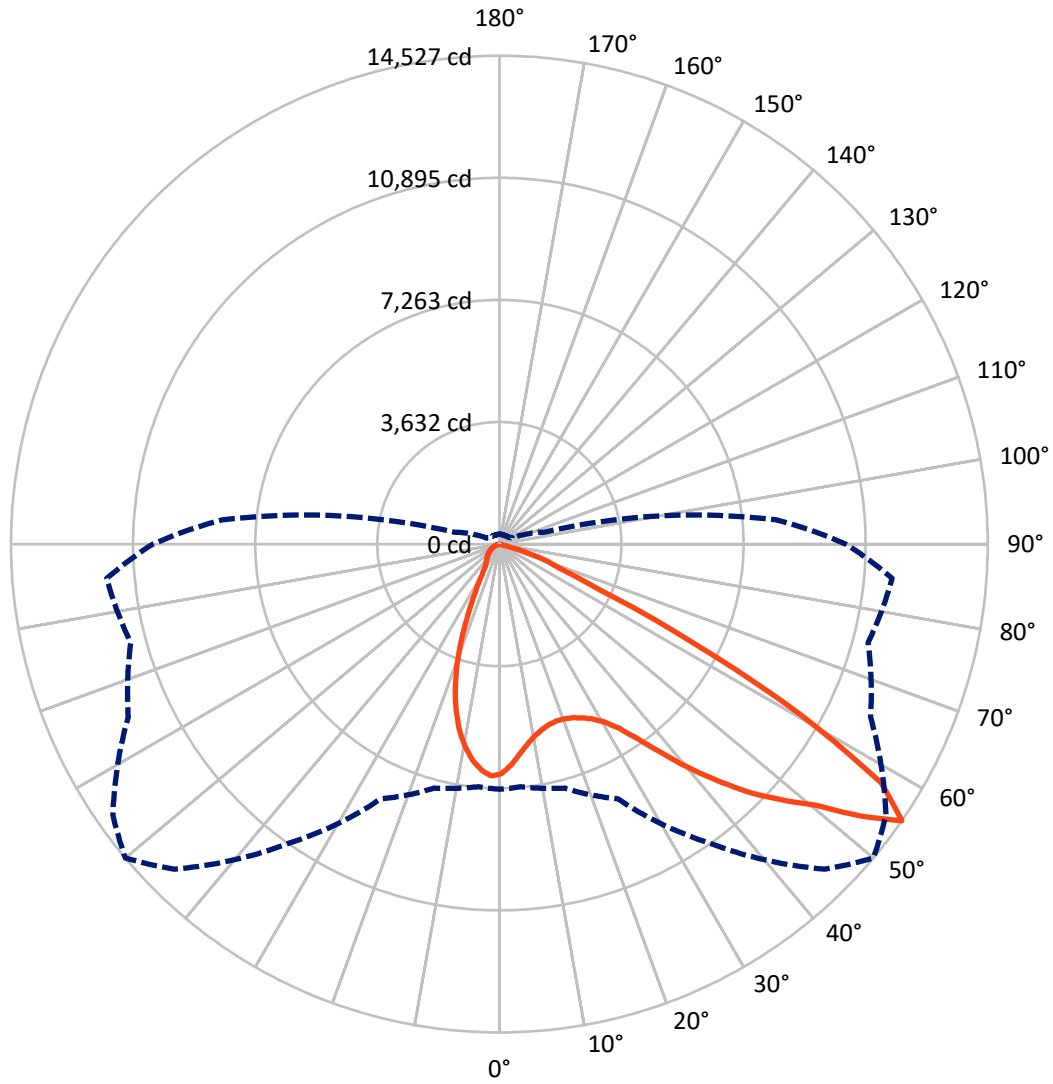
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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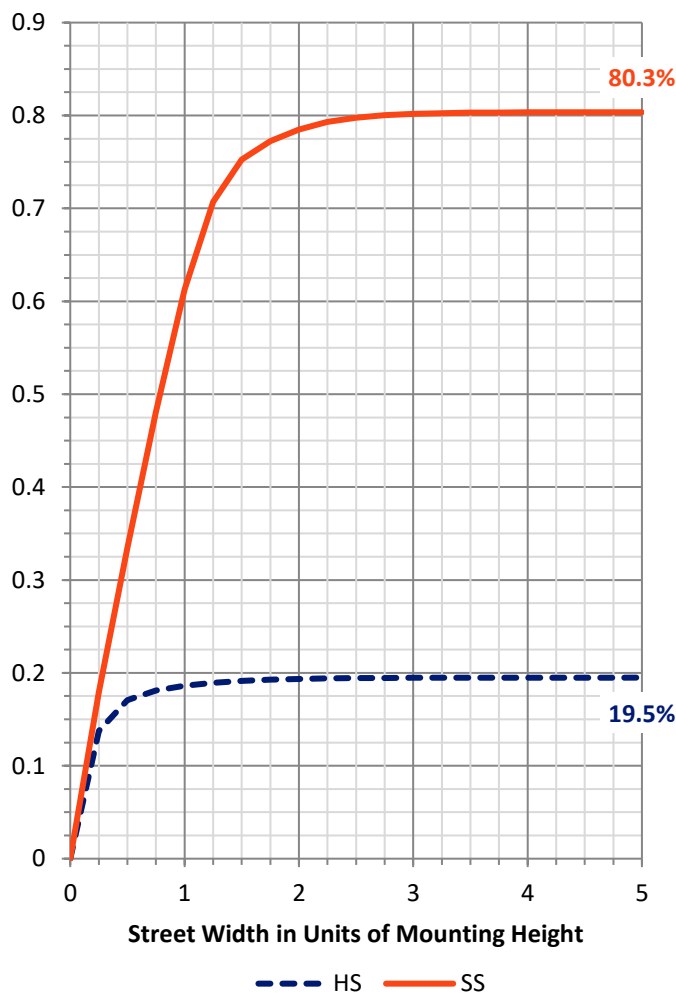
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3836.3	0.0	3836.3
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	15632.8	0.0	15632.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	19469.1	0.0	19469.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.9	3.1
10°-20°	1476.2	7.6
20°-30°	2082.3	10.7
30°-40°	3081.4	15.8
40°-50°	4445.4	22.8
50°-60°	5243.7	26.9
60°-70°	2339.1	12.0
70°-80°	201.1	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°	19469.1	100.0
0°-180°	19469.1	100.0

**Coefficient of Utilization**



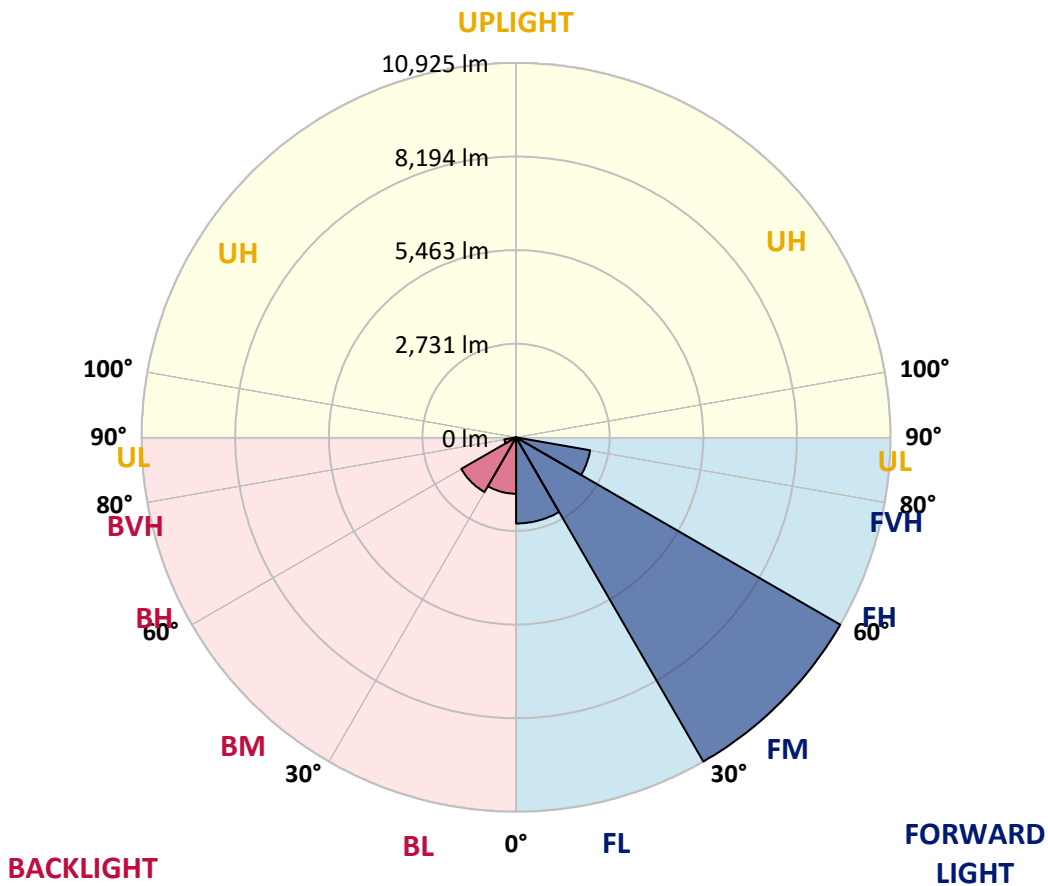
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.5	12.9			
FM (30°-60°)	10925.4	56.1			
FH (60°-80°)	2193.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1644.9	8.4	B3/2500		
BM (30°-60°)	1845.0	9.5	B2/2500		
BH (60°-80°)	346.4	1.8	B1/500		G1/500
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°	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8
2.5°	6346.0	6350.7	6353.1	6417.3	6441.1	6536.1	6586.0	6612.2	6681.1	6761.9	6828.5
5°	5920.5	5913.4	5925.3	6006.1	6058.4	6198.6	6274.7	6327.0	6479.1	6669.2	6828.5
7.5°	5549.8	5564.0	5578.3	5666.2	5744.7	5896.8	6006.1	6084.5	6296.1	6578.9	6847.5
10°	5288.3	5288.3	5309.7	5409.5	5502.2	5690.0	5799.3	5899.1	6151.1	6498.1	6868.9
12.5°	5095.8	5098.2	5124.3	5238.4	5345.4	5540.3	5654.3	5751.8	6029.9	6417.3	6873.6
15°	5005.5	4998.4	5019.7	5141.0	5259.8	5442.8	5561.6	5656.7	5944.3	6372.1	6897.4
17.5°	4981.7	4977.0	4993.6	5112.4	5233.7	5411.9	5528.4	5623.4	5932.4	6386.4	6968.7
20°	5050.6	5041.1	5034.0	5136.2	5250.3	5426.2	5547.4	5654.3	5989.5	6464.8	7078.0
22.5°	5214.6	5214.6	5198.0	5247.9	5324.0	5483.2	5609.2	5749.4	6139.2	6621.7	7239.6
25°	5516.5	5492.7	5461.8	5483.2	5473.7	5573.5	5723.3	5918.2	6422.0	6880.8	7436.9
27.5°	5861.1	5882.5	5830.2	5832.6	5749.4	5713.8	5887.3	6182.0	6842.7	7246.8	7729.3
30°	6329.3	6312.7	6315.1	6308.0	6115.4	5946.7	6134.4	6526.6	7372.7	7805.3	8109.5
32.5°	6695.4	6719.1	6797.6	6842.7	6590.8	6319.8	6519.5	6994.8	7976.4	8442.3	8575.4
35°	7082.8	7125.6	7284.8	7432.2	7220.6	6909.3	7123.2	7615.2	8544.5	9072.1	9110.2
37.5°	7491.6	7577.1	7767.3	8026.4	7993.1	7717.4	7912.3	8344.8	8991.3	9452.4	9552.2
40°	7959.8	8043.0	8354.4	8727.5	8805.9	8744.1	8808.3	9060.3	9286.0	9469.1	9742.4
42.5°	8473.2	8587.3	8981.8	9480.9	9775.7	9830.3	9680.6	9654.4	9414.4	9278.9	9702.0
45°	9079.3	9212.4	9659.2	10305.7	10773.9	10847.6	10588.5	10253.4	9495.2	9138.7	9580.8
47.5°	9759.0	9885.0	10329.5	11106.7	11803.0	11831.6	11380.0	10840.5	9735.3	9300.3	9673.5
50°	9987.2	10065.6	10450.7	11363.3	12646.8	12865.5	12211.9	11501.2	10217.7	9775.7	10125.0
52.5°	9202.9	9233.8	9568.9	10491.1	12475.7	13880.3	13426.4	12487.6	11075.8	10500.6	10821.4
55°	7291.9	7242.0	7513.0	8359.1	10842.8	13673.6	14526.8	14037.2	12181.0	11351.5	11727.0
57.5°	5100.6	5041.1	4979.3	5552.1	8090.5	11591.5	13386.0	14253.5	13233.9	12195.2	12703.8
60°	4192.6	4135.6	3836.1	3572.3	4891.4	8323.5	10281.9	11914.8	13148.3	12152.4	12672.9
62.5°	3622.2	3588.9	3467.7	3108.8	2878.3	4751.2	6438.7	8002.6	10089.4	9542.7	9571.3
65°	2845.0	2835.5	2918.7	2956.7	2545.5	2628.7	3284.7	4159.4	5454.7	5143.3	4877.1
67.5°	1944.2	1922.8	2079.7	2557.4	2448.1	2074.9	1922.8	1939.4	2360.1	1442.7	1145.6
70°	1235.9	1186.0	1188.4	1585.3	1991.7	1637.6	1483.1	1304.8	1174.1	213.9	242.4
72.5°	791.5	760.6	653.6	715.4	922.2	798.6	805.7	694.0	463.5	114.1	133.1
75°	332.7	306.6	235.3	187.8	185.4	116.5	102.2	95.1	64.2	64.2	68.9
77.5°	2.4	0.0	0.0	2.4	4.8	2.4	2.4	4.8	9.5	14.3	16.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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°	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8
2.5°	6868.9	6811.8	6876.0	6899.8	6897.4	6899.8	6830.8	6783.3	6780.9	6721.5	6693.0
5°	6895.0	6849.9	6897.4	6866.5	6792.8	6700.1	6576.5	6469.6	6422.0	6353.1	6319.8
7.5°	6944.9	6897.4	6890.3	6766.7	6583.7	6388.8	6170.1	5975.2	5870.6	5744.7	5751.8
10°	6980.6	6925.9	6833.2	6581.3	6277.1	5965.7	5640.1	5350.1	5167.1	4998.4	4969.8
12.5°	6994.8	6914.0	6697.7	6317.5	5889.6	5483.2	5005.5	4591.9	4306.7	4085.7	4054.8
15°	7021.0	6890.3	6524.2	5999.0	5411.9	4836.7	4228.3	3662.6	3284.7	3030.4	3051.8
17.5°	7061.4	6864.1	6329.3	5642.5	4898.5	4085.7	3263.3	2614.4	2267.4	2120.1	2122.5
20°	7118.4	6833.2	6115.4	5250.3	4282.9	3237.2	2281.7	1792.1	1694.6	1689.9	1682.8
22.5°	7194.5	6802.3	5887.3	4820.1	3553.3	2267.4	1518.8	1366.6	1407.0	1485.5	1499.7
25°	7284.8	6764.3	5632.9	4335.2	2757.1	1487.9	1138.5	1114.7	1212.2	1316.7	1340.5
27.5°	7425.0	6745.3	5343.0	3783.8	1934.7	1067.2	931.7	946.0	1033.9	1121.8	1143.2
30°	7662.7	6780.9	5026.9	3165.9	1243.1	850.9	808.1	829.5	877.0	922.2	941.2
32.5°	7986.0	6885.5	4720.3	2490.9	886.5	739.2	729.7	741.6	760.6	786.7	793.8
35°	8363.9	7066.1	4404.2	1782.6	732.0	675.0	665.5	665.5	675.0	679.8	682.1
37.5°	8675.2	7256.3	4107.1	1186.0	656.0	625.1	610.8	603.7	601.3	606.1	608.5
40°	8810.7	7334.7	3783.8	862.8	601.3	579.9	558.5	537.2	537.2	553.8	556.2
42.5°	8715.6	7246.8	3410.7	713.0	563.3	532.4	499.1	480.1	489.6	506.3	511.0
45°	8513.6	7030.5	2999.5	629.8	525.3	484.9	446.8	434.9	444.5	465.8	470.6
47.5°	8480.3	6887.9	2507.5	575.2	484.9	444.5	404.1	392.2	404.1	420.7	425.4
50°	8810.7	7011.5	1960.8	527.6	446.8	401.7	368.4	356.5	363.6	373.2	377.9
52.5°	9414.4	7470.2	1582.9	482.5	401.7	358.9	337.5	323.2	323.2	332.7	335.1
55°	10305.7	8271.2	1366.6	430.2	349.4	325.6	306.6	292.3	292.3	297.1	299.5
57.5°	11332.4	9240.9	1416.6	361.3	306.6	294.7	278.1	266.2	271.0	271.0	271.0
60°	11189.8	9169.6	1516.4	304.2	271.0	266.2	251.9	247.2	259.1	249.6	244.8
62.5°	8242.6	6334.1	793.8	249.6	232.9	228.2	218.7	228.2	244.8	218.7	209.2
65°	4002.5	3066.0	318.5	204.4	197.3	192.5	187.8	202.0	211.5	171.1	161.6
67.5°	941.2	765.3	206.8	173.5	164.0	154.5	159.2	161.6	154.5	116.5	111.7
70°	244.8	240.1	161.6	145.0	130.7	121.2	121.2	118.8	102.2	73.7	68.9
72.5°	133.1	130.7	116.5	109.3	90.3	80.8	83.2	73.7	57.0	42.8	40.4
75°	66.5	71.3	66.5	61.8	49.9	45.2	45.2	40.4	28.5	16.6	16.6
77.5°	14.3	16.6	16.6	14.3	11.9	9.5	9.5	11.9	4.8	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	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)