

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: P643939

Luminaire Tested: GWS-SA6F-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

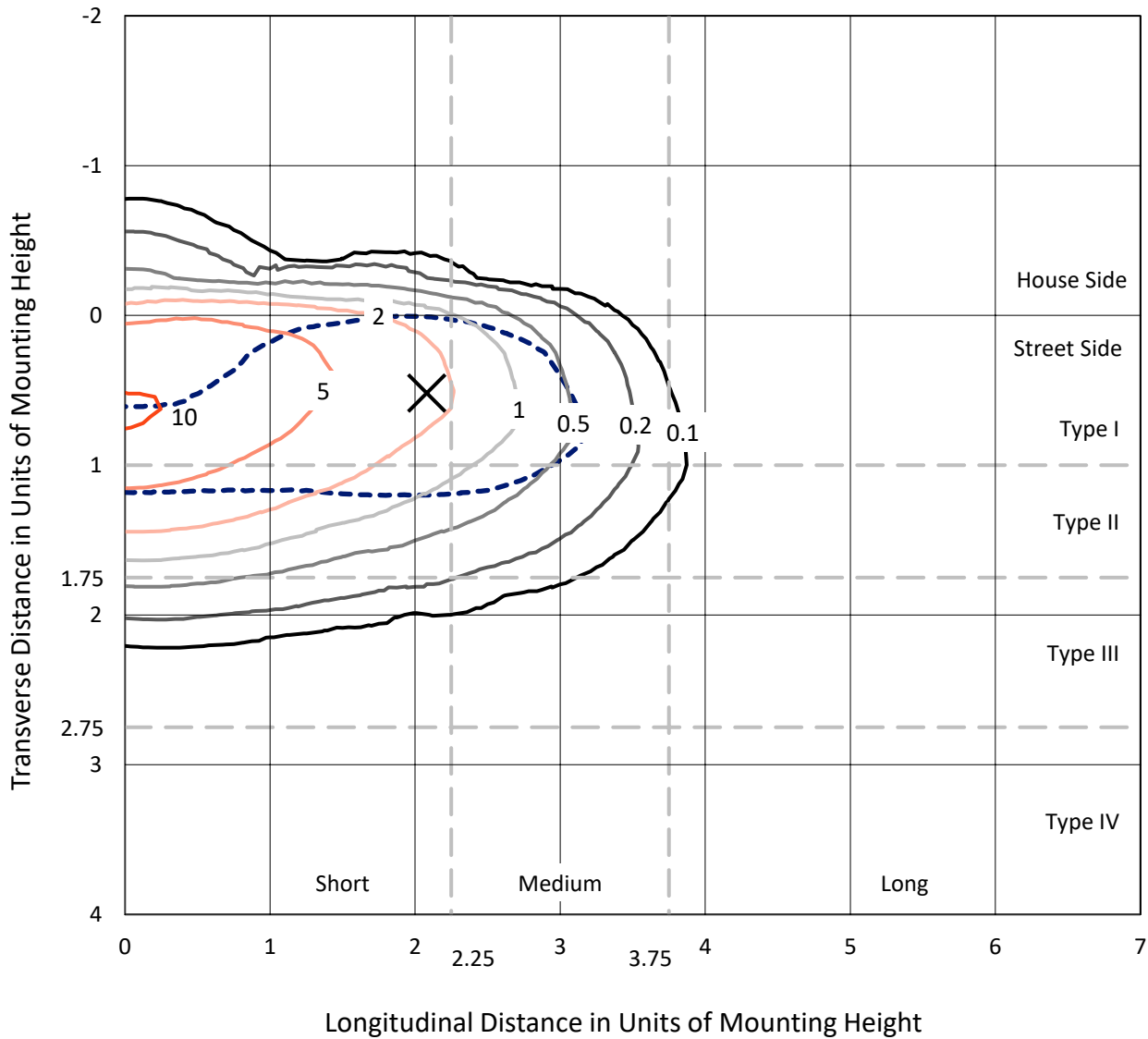
Lumens per Lamp: N/A  
Luminaire Lumens: 31885.6 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

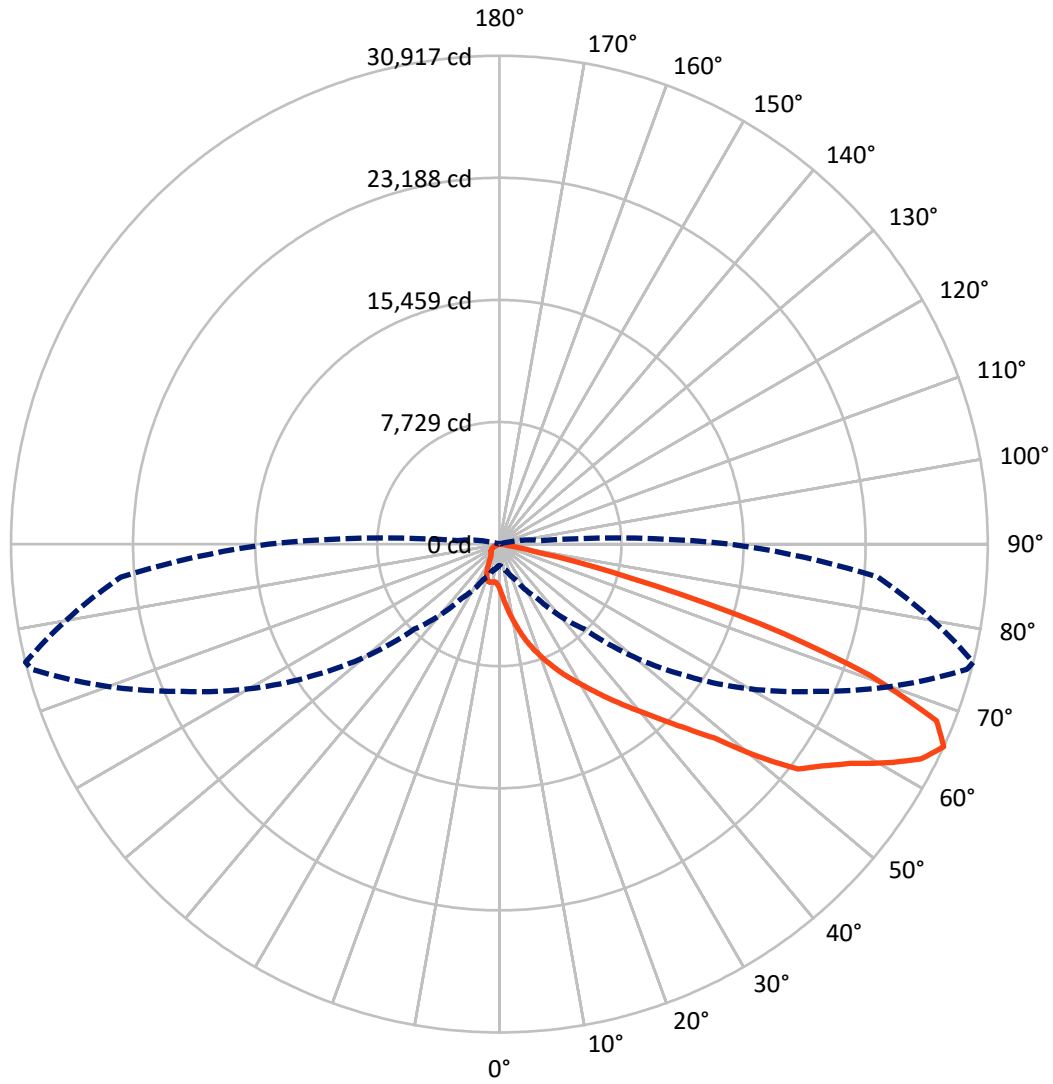
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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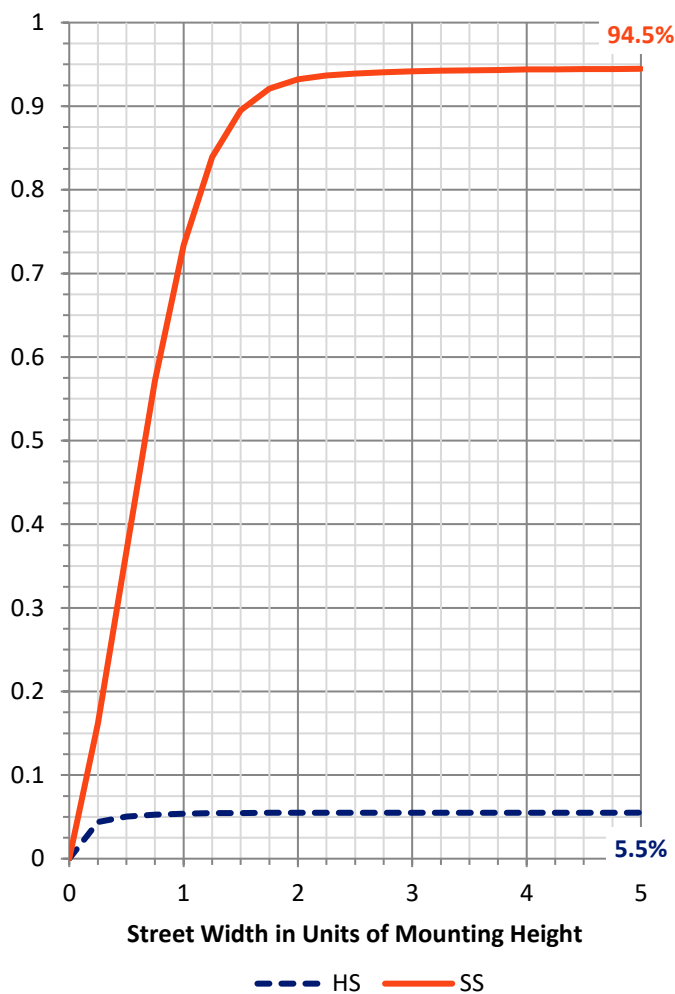
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1763.1	0.0	1763.1
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	30122.5	0.0	30122.5
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	31885.6	0.0	31885.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.4	1.1
10°-20°	1303.2	4.1
20°-30°	2658.6	8.3
30°-40°	4728.5	14.8
40°-50°	6989.8	21.9
50°-60°	8002.8	25.1
60°-70°	6105.8	19.1
70°-80°	1710.4	5.4
80°-90°	43.0	0.1
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°	31885.6	100.0
0°-180°	31885.6	100.0

**Coefficient of Utilization**



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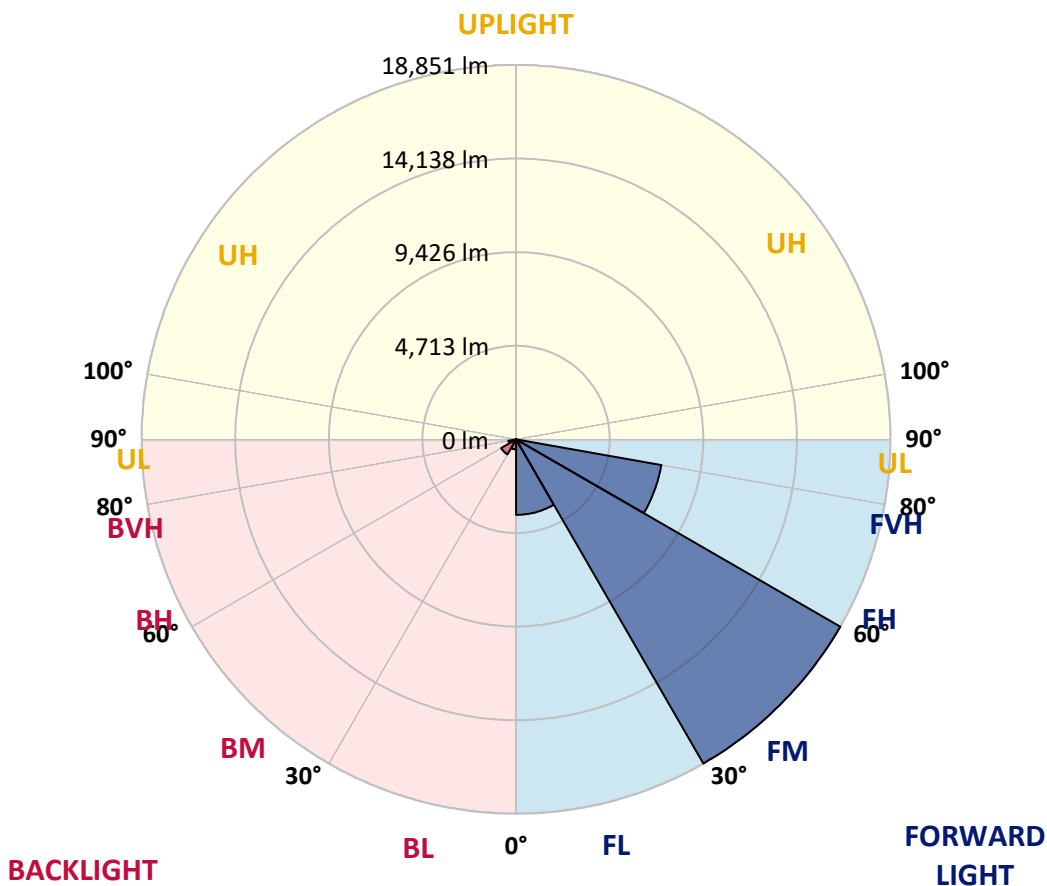
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3802.1	11.9			
FM (30°-60°)	18851.3	59.1			
FH (60°-80°)	7428.6	23.3			G3/7500
FVH (80°-90°)	40.5	0.1			G1/100
BL (0°-30°)	503.1	1.6	B2/1000		
BM (30°-60°)	869.9	2.7	B1/1000		
BH (60°-80°)	387.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
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°	75°	76°	85°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	4350.8	4416.0	4364.9	4279.9	4115.5	3956.8	3752.7	3472.1	3248.2	3219.9	3010.1
5°	5875.7	5870.0	5759.5	5648.9	5476.0	5203.9	4792.9	4271.4	3769.7	3727.2	3256.7
7.5°	6782.7	6791.2	6728.8	6643.8	6473.7	6193.1	5765.1	5135.9	4401.8	4316.8	3594.0
10°	7545.1	7542.3	7496.9	7457.2	7304.2	7117.1	6657.9	5966.4	5082.0	4948.8	3971.0
12.5°	8117.7	8137.5	8160.2	8199.9	8134.7	7950.4	7516.8	6762.8	5770.8	5623.4	4401.8
15°	8571.2	8576.8	8661.9	8814.9	8868.8	8772.4	8378.4	7533.8	6451.0	6323.5	4897.8
17.5°	8707.2	8718.5	8863.1	9143.7	9427.1	9481.0	9183.4	8310.4	7120.0	6983.9	5379.6
20°	8993.5	9019.0	9126.7	9373.3	9730.4	10019.5	9903.3	9095.5	7788.9	7610.3	5872.8
22.5°	9894.8	9909.0	9872.1	9903.3	10087.5	10422.0	10492.9	9855.1	8474.8	8284.9	6405.7
25°	11445.2	11450.9	11193.0	10949.2	10810.3	10872.7	11028.6	10555.2	9155.0	8968.0	6901.7
27.5°	13055.1	13075.0	12766.0	12352.2	11856.2	11572.8	11527.4	11195.8	9841.0	9634.0	7392.1
30°	14571.5	14571.5	14245.6	13741.1	13077.8	12525.1	12199.2	11842.0	10575.1	10348.3	7893.7
32.5°	15934.9	15923.5	15506.9	14959.8	14305.1	13698.5	13012.6	12516.6	11391.4	11139.1	8472.0
35°	17060.1	17031.8	16558.4	16034.1	15334.0	14883.3	14118.0	13242.2	12275.7	12023.4	9067.2
37.5°	17910.4	17879.2	17445.6	16890.0	16241.0	15949.0	15308.5	14112.4	13208.2	12978.6	9727.6
40°	18372.4	18310.1	18009.6	17595.8	17051.6	16796.5	16530.1	15192.3	14305.1	14018.8	10507.0
42.5°	18508.5	18434.8	18236.4	18043.6	17714.9	17513.6	17799.9	16411.0	15509.7	15263.1	11397.0
45°	18106.0	18063.5	18046.5	18185.4	18244.9	18301.6	19007.3	17760.2	16839.0	16652.0	12516.6
47.5°	17136.6	17125.3	17275.5	17853.7	18483.0	19081.0	20319.6	19424.0	18562.3	18361.1	14081.2
50°	15345.3	15461.5	15881.0	16895.7	18154.2	19523.2	21546.9	21731.2	21351.4	21056.6	16121.9
52.5°	12544.9	12768.9	13709.9	15251.8	17060.1	19398.5	22113.8	23579.2	23967.5	23661.4	17584.5
55°	9843.8	10053.5	10892.5	12848.2	15260.3	18449.0	22139.3	24216.9	25064.4	24781.0	18573.7
57.5°	7332.5	7525.3	8287.7	10158.4	12811.4	16581.1	21532.8	24571.2	26365.4	26184.0	20135.4
60°	4792.9	4982.8	5671.6	7307.0	9937.3	13860.1	20039.0	24497.5	28136.9	28119.8	22054.3
62.5°	2658.6	2808.9	3307.7	4583.2	6935.7	10733.8	17692.2	23757.7	29851.6	29959.4	23635.9
65°	1360.5	1456.9	1760.1	2519.8	4197.7	7610.3	14605.5	22062.8	30645.3	30917.4	24052.5
67.5°	890.0	921.2	994.9	1309.5	2247.7	4787.3	10991.7	19344.6	29528.5	29846.0	22655.2
70°	722.8	748.3	790.8	873.0	1159.3	2542.4	7219.2	15450.2	24673.2	24888.7	18040.8
72.5°	530.0	564.0	646.2	700.1	836.1	1394.5	3755.5	10141.4	16943.9	17323.7	11337.5
75°	391.1	411.0	479.0	552.7	683.1	881.5	1437.0	5331.5	8749.7	8528.6	4761.8
77.5°	235.3	249.4	306.1	354.3	487.5	549.9	501.7	1969.9	2661.5	2502.8	1150.8
80°	116.2	130.4	201.2	266.4	311.8	221.1	209.7	549.9	592.4	592.4	289.1
82.5°	39.7	51.0	107.7	175.7	153.1	85.0	99.2	141.7	158.7	167.2	85.0
85°	0.0	0.0	25.5	51.0	22.7	11.3	25.5	31.2	39.7	42.5	28.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.5	11.3	11.3
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°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2896.7	2763.5	2562.3	2380.9	2242.0	2111.6	2012.4	1933.0	1918.9	1873.5	1879.2
5°	3027.1	2786.2	2414.9	2128.6	1927.4	1791.3	1678.0	1592.9	1556.1	1519.2	1490.9
7.5°	3228.4	2879.7	2358.2	2009.6	1774.3	1564.6	1388.8	1247.1	1179.1	1136.6	1108.2
10°	3474.9	3010.1	2361.0	1938.7	1590.1	1269.8	1028.9	873.0	799.3	776.6	773.8
12.5°	3769.7	3174.5	2383.7	1822.5	1323.7	943.8	762.4	691.6	668.9	649.1	649.1
15°	4081.5	3358.7	2383.7	1609.9	1009.0	736.9	660.4	615.1	586.7	575.4	569.7
17.5°	4410.3	3531.6	2327.0	1318.0	773.8	649.1	586.7	544.2	521.5	504.5	498.9
20°	4761.8	3696.0	2185.3	1009.0	663.2	581.0	521.5	479.0	456.3	439.3	439.3
22.5°	5118.9	3849.1	1955.7	776.6	586.7	515.9	459.2	419.5	396.8	379.8	379.8
25°	5450.5	3951.1	1660.9	640.6	530.0	459.2	408.2	368.5	343.0	331.6	326.0
27.5°	5759.5	4016.3	1335.0	564.0	476.2	411.0	357.1	320.3	300.4	291.9	286.3
30°	6079.7	4033.3	1020.4	513.0	430.8	362.8	311.8	283.4	266.4	255.1	255.1
32.5°	6391.5	4013.5	779.5	470.5	391.1	320.3	277.8	252.3	238.1	229.6	226.8
35°	6709.0	3922.8	632.1	433.7	351.5	280.6	246.6	226.8	218.2	206.9	206.9
37.5°	7054.8	3800.9	549.9	396.8	311.8	252.3	221.1	206.9	195.6	187.1	184.2
40°	7485.6	3659.2	504.5	365.6	274.9	226.8	198.4	184.2	175.7	167.2	164.4
42.5°	7995.8	3520.3	481.8	331.6	246.6	201.2	178.6	161.6	153.1	141.7	138.9
45°	8718.5	3489.1	456.3	294.8	221.1	181.4	155.9	138.9	127.5	119.0	116.2
47.5°	9880.6	3577.0	413.8	255.1	195.6	158.7	133.2	119.0	104.9	96.4	90.7
50°	11034.2	3554.3	371.3	221.1	172.9	136.1	113.4	99.2	85.0	76.5	73.7
52.5°	11663.5	3446.6	331.6	195.6	150.2	116.2	96.4	79.4	70.9	62.4	59.5
55°	12233.2	3404.1	291.9	170.1	127.5	102.0	79.4	65.2	59.5	51.0	48.2
57.5°	13349.9	3503.3	257.9	147.4	110.5	87.9	68.0	53.9	48.2	39.7	36.8
60°	14517.7	3514.6	221.1	127.5	96.4	73.7	53.9	42.5	36.8	28.3	25.5
62.5°	15127.1	3228.4	181.4	107.7	79.4	62.4	45.4	34.0	28.3	17.0	17.0
65°	14616.9	2610.5	153.1	87.9	62.4	48.2	34.0	25.5	17.0	8.5	2.8
67.5°	12936.1	1856.5	127.5	70.9	45.4	34.0	25.5	17.0	2.8	0.0	0.0
70°	9472.5	1060.1	99.2	51.0	34.0	22.7	17.0	8.5	0.0	0.0	0.0
72.5°	5821.8	566.9	73.7	34.0	25.5	17.0	14.2	5.7	0.0	0.0	0.0
75°	2208.0	272.1	45.4	22.7	19.8	14.2	8.5	2.8	0.0	0.0	0.0
77.5°	598.1	133.2	25.5	17.0	14.2	8.5	5.7	0.0	0.0	0.0	0.0
80°	155.9	62.4	17.0	11.3	8.5	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	53.9	28.3	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
85°	22.7	11.3	5.7	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	2.8	2.8	2.8	2.8	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)