

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: P643935

Luminaire Tested: GWS-SA6F-830-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

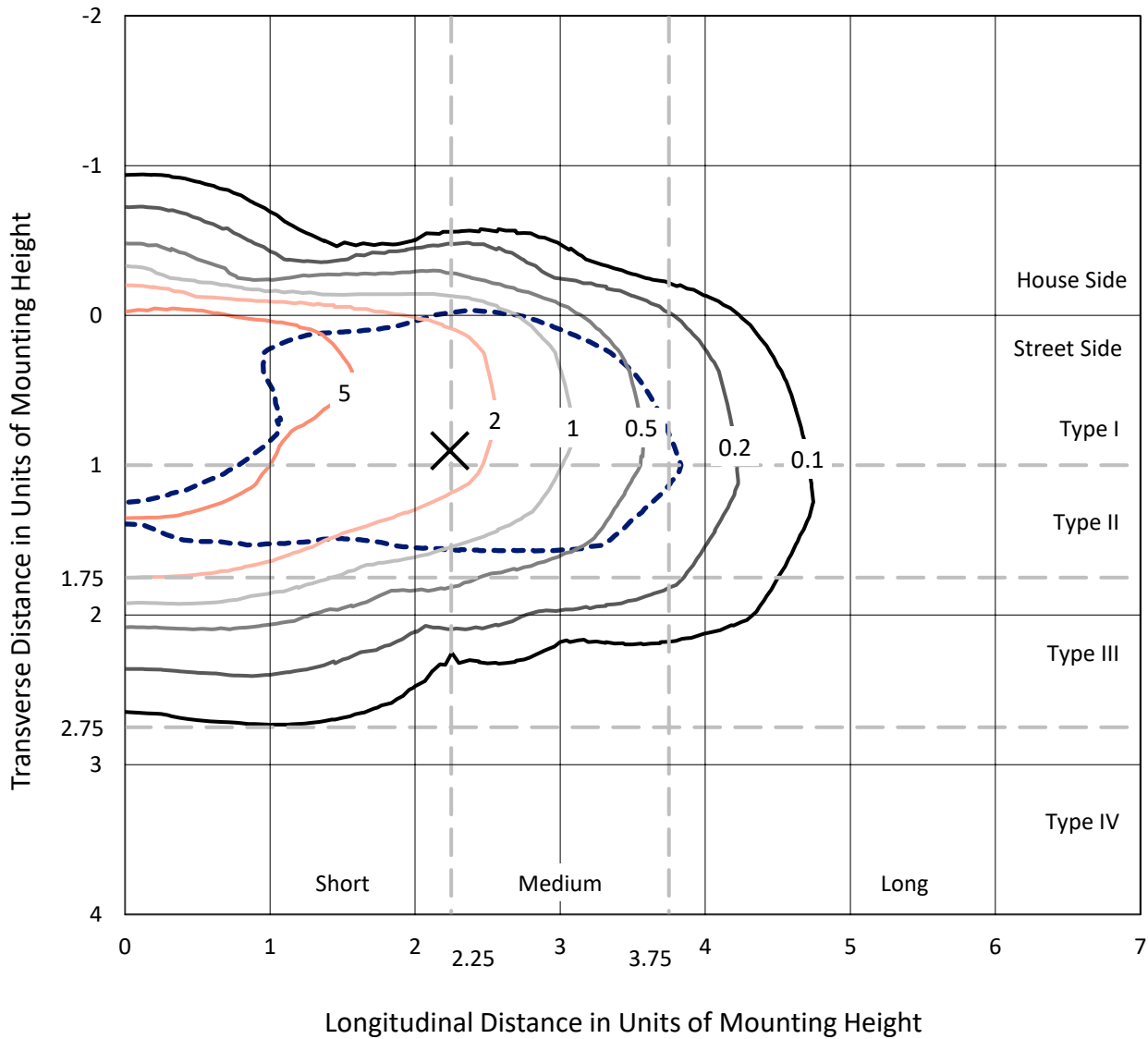
Lumens per Lamp: N/A  
Luminaire Lumens: 29615.4 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

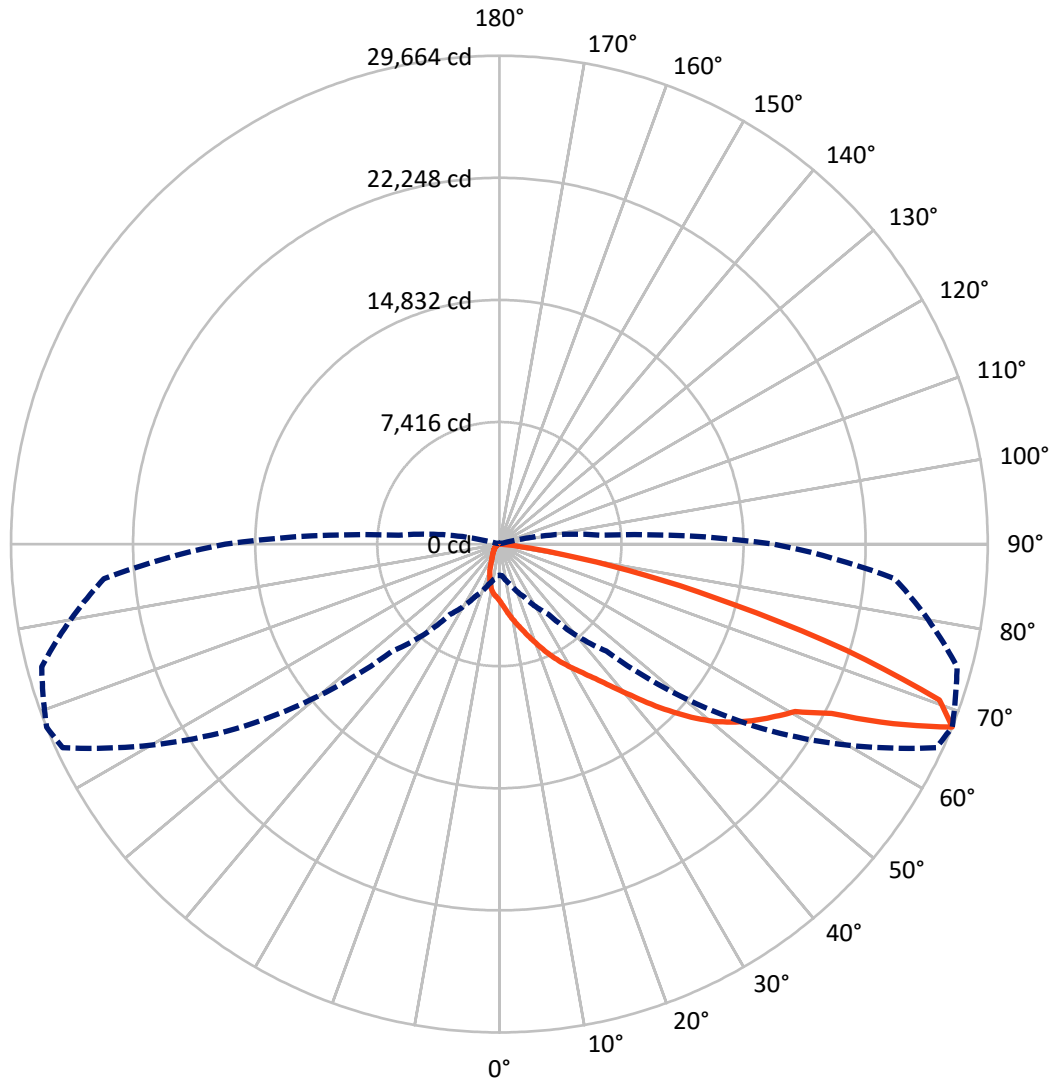
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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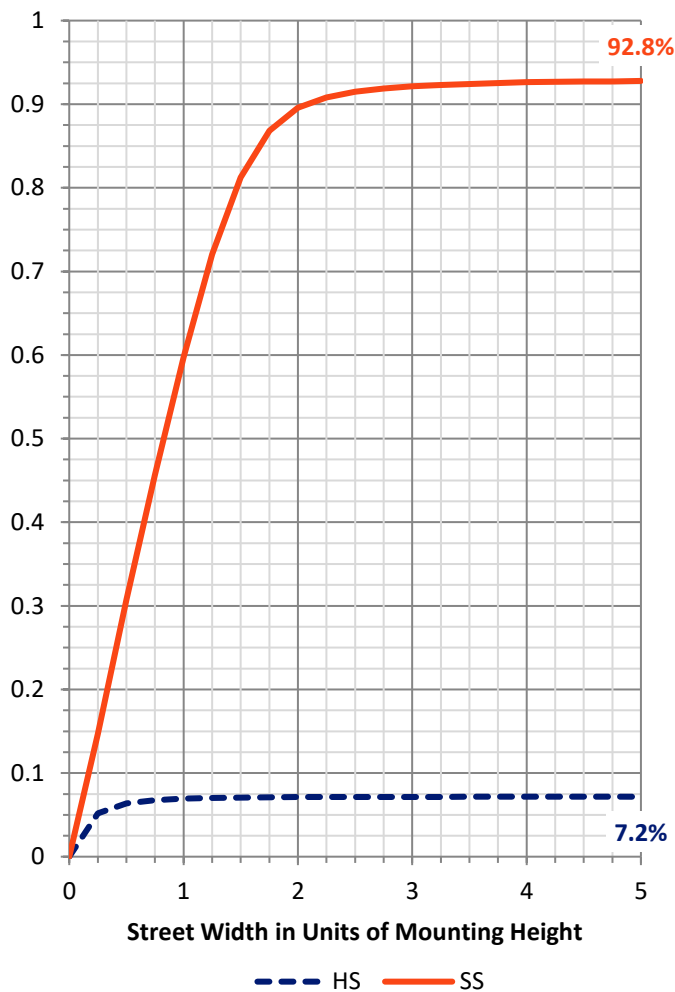
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2138.6	0.0	2138.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	27476.8	0.0	27476.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	29615.4	0.0	29615.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.1	1.1
10°-20°	965.3	3.3
20°-30°	1658.8	5.6
30°-40°	2884.1	9.7
40°-50°	5032.4	17.0
50°-60°	7590.2	25.6
60°-70°	7611.0	25.7
70°-80°	3358.0	11.3
80°-90°	179.4	0.6
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°	29615.4	100.0
0°-180°	29615.4	100.0

**Coefficient of Utilization**



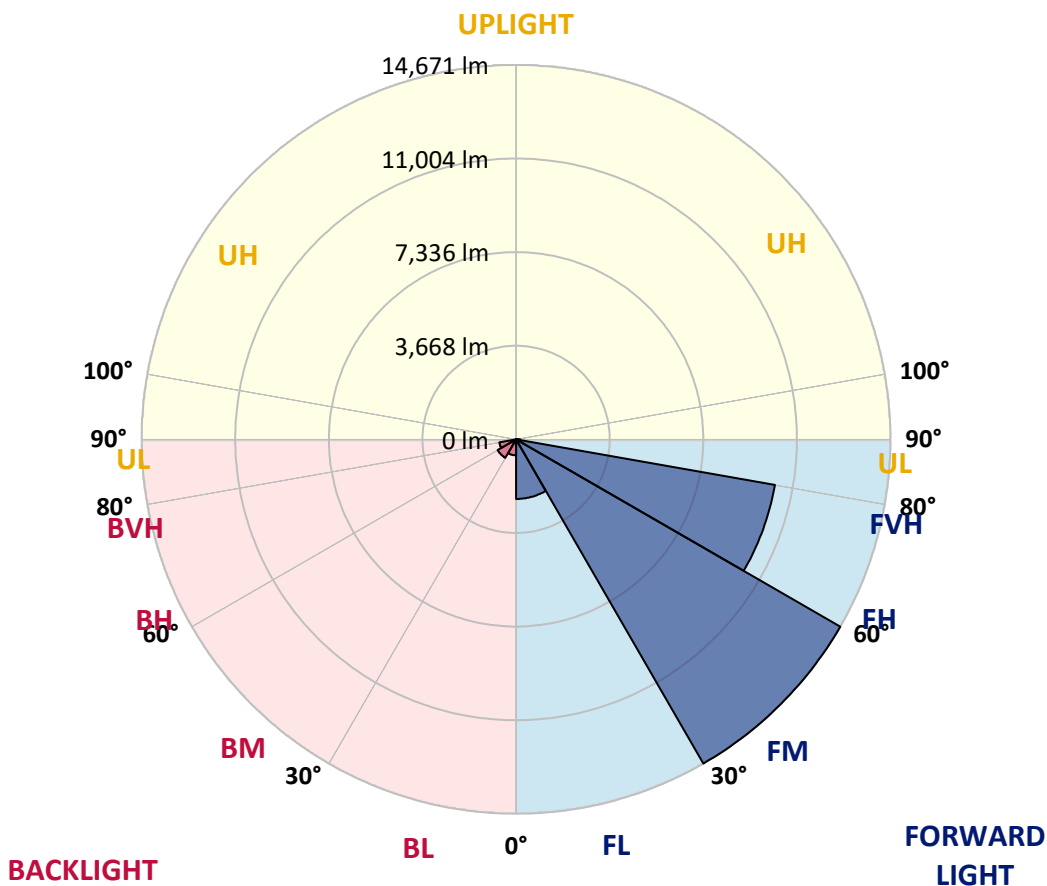
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.6	7.9			
FM (30°-60°)	14671.4	49.5			
FH (60°-80°)	10301.6	34.8			G4/12000
FVH (80°-90°)	169.2	0.6			G2/225
BL (0°-30°)	625.7	2.1	B2/1000		
BM (30°-60°)	835.4	2.8	B1/1000		
BH (60°-80°)	667.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5
2.5°	4013.3	4038.8	4013.3	4019.0	3945.3	3911.3	3837.6	3735.6	3710.1	3644.9	3545.7
5°	4503.7	4526.3	4500.8	4495.2	4410.1	4347.8	4225.9	4050.2	3999.2	3871.6	3676.1
7.5°	4770.1	4784.3	4792.8	4806.9	4775.8	4724.7	4614.2	4396.0	4342.1	4135.2	3860.3
10°	4798.4	4809.8	4852.3	4937.3	4999.7	5030.8	4968.5	4767.3	4682.2	4481.0	4087.0
12.5°	4719.1	4736.1	4804.1	4945.8	5118.7	5277.4	5317.1	5141.4	5064.9	4806.9	4353.4
15°	4614.2	4628.4	4721.9	4914.6	5175.4	5467.3	5631.7	5555.2	5470.2	5200.9	4648.2
17.5°	4452.6	4472.5	4602.9	4863.6	5200.9	5617.5	5971.8	5997.3	5937.8	5645.9	4974.2
20°	4362.0	4376.1	4492.3	4761.6	5183.9	5728.1	6289.3	6530.2	6465.0	6158.9	5348.3
22.5°	4438.5	4449.8	4526.3	4736.1	5127.2	5790.4	6584.0	7063.0	7026.2	6708.7	5742.2
25°	4840.9	4877.8	4832.4	4869.3	5152.7	5824.4	6822.1	7595.9	7604.4	7284.1	6150.4
27.5°	5657.2	5609.0	5501.3	5317.1	5351.1	5915.1	7026.2	8097.5	8171.2	7845.3	6513.2
30°	6487.7	6459.3	6394.1	6107.9	5869.8	6116.4	7199.1	8610.5	8726.7	8398.0	6836.3
32.5°	7420.1	7448.5	7332.3	6989.3	6584.0	6524.5	7377.6	9098.0	9316.3	9024.3	7216.1
35°	8534.0	8542.5	8312.9	7933.1	7474.0	7199.1	7697.9	9636.5	10039.0	9823.6	7723.4
37.5°	9619.5	9670.5	9545.8	8947.8	8539.7	8038.0	8227.9	10328.1	10895.0	10809.9	8361.1
40°	10580.4	10659.7	10620.0	10041.8	9506.2	9083.9	9049.8	11138.7	11929.5	12025.8	9202.9
42.5°	11345.6	11396.6	11427.8	11016.8	10543.5	10305.4	10064.5	12079.7	13151.0	13545.0	10234.6
45°	12153.4	12170.4	12235.6	11957.8	11544.0	11563.8	11263.4	13221.9	14437.8	15228.6	11419.3
47.5°	13182.2	13238.9	13207.7	12915.8	12541.7	12765.6	12502.0	14398.1	15707.6	17025.5	12632.4
50°	14435.0	14494.5	14466.1	14126.0	13709.4	13802.9	13638.5	15540.3	16932.0	18720.4	13641.4
52.5°	15081.2	15129.4	15480.8	15633.9	15415.6	14820.4	14607.9	16795.9	17966.5	20114.9	14568.2
55°	14769.4	14803.4	15568.7	16214.9	17014.2	16419.0	15582.8	17765.2	18879.1	21203.2	15256.9
57.5°	13477.0	13661.2	14701.4	15795.4	17476.1	17997.7	17164.4	18819.6	19757.7	21960.0	15934.3
60°	10826.9	10818.4	12309.3	14273.4	16574.8	18431.3	19397.8	20245.2	20639.2	22541.0	16841.3
62.5°	5983.2	6037.0	8021.0	10608.7	14069.3	17308.9	21072.8	22708.2	22648.7	23555.7	18261.2
65°	2978.8	3086.5	4163.6	6076.7	9361.6	14304.6	21361.9	26466.5	26296.4	25945.0	21194.7
67.5°	1890.5	1933.0	2528.2	3531.5	5203.7	9194.4	19562.2	29269.6	29663.5	28779.2	24105.5
70°	1224.4	1295.3	1757.3	2414.8	3140.4	4738.9	14330.1	27452.8	28356.9	28467.5	22291.6
72.5°	666.1	717.1	1122.4	1723.2	2267.4	2369.5	8049.3	20602.4	22056.3	24148.0	17439.3
75°	379.8	416.6	615.0	1170.6	1663.7	1442.6	3568.4	13791.6	14718.4	17257.9	12496.3
77.5°	229.6	260.8	345.8	569.7	1043.0	963.7	1349.1	8395.1	8984.7	10296.9	6558.5
80°	104.9	124.7	218.2	314.6	569.7	456.3	515.8	3914.1	4041.7	4225.9	2171.1
82.5°	48.2	56.7	99.2	187.1	323.1	263.6	198.4	904.1	1272.6	1204.6	552.7
85°	5.7	5.7	36.8	76.5	90.7	68.0	82.2	204.1	257.9	362.8	158.7
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	17.0	25.5	36.8	59.5	39.7
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°	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5
2.5°	3500.3	3421.0	3350.1	3245.2	3174.4	3095.0	3041.2	2976.0	2950.5	2930.6	2902.3
5°	3579.7	3452.1	3279.3	3086.5	2927.8	2777.6	2638.7	2548.0	2468.7	2457.3	2417.6
7.5°	3710.1	3520.2	3228.2	2913.6	2644.4	2395.0	2199.4	2040.7	1961.3	1935.8	1890.5
10°	3883.0	3622.2	3151.7	2669.9	2281.6	1984.0	1762.9	1584.4	1459.7	1414.3	1380.3
12.5°	4075.7	3715.7	3029.8	2369.5	1927.3	1587.2	1306.6	1116.7	1037.3	1009.0	983.5
15°	4296.8	3803.6	2837.1	2069.0	1581.5	1167.7	969.3	887.1	853.1	844.6	836.1
17.5°	4509.3	3860.3	2607.5	1757.3	1215.9	907.0	813.4	782.3	773.8	765.3	759.6
20°	4750.2	3900.0	2338.3	1462.5	943.8	768.1	722.7	700.1	683.1	666.1	663.2
22.5°	4996.8	3900.0	2046.3	1173.4	790.8	688.7	637.7	595.2	564.0	547.0	541.3
25°	5232.1	3846.1	1757.3	938.1	697.2	612.2	547.0	498.8	456.3	436.5	430.8
27.5°	5399.3	3707.2	1505.0	793.6	632.0	544.2	464.8	411.0	377.0	357.1	354.3
30°	5504.2	3500.3	1272.6	708.6	575.4	473.3	394.0	348.6	323.1	308.9	303.3
32.5°	5583.5	3245.2	1065.7	649.0	521.5	411.0	342.9	306.1	283.4	272.1	269.3
35°	5742.2	3004.3	912.6	595.2	464.8	360.0	300.4	272.1	255.1	240.9	238.1
37.5°	5963.3	2803.1	790.8	547.0	411.0	320.3	272.1	246.6	232.4	218.2	215.4
40°	6289.3	2675.6	700.1	498.8	362.8	289.1	249.4	226.7	206.9	192.7	189.9
42.5°	6790.9	2616.0	640.5	450.6	320.3	260.8	229.6	201.2	181.4	167.2	164.4
45°	7389.0	2647.2	589.5	402.5	291.9	240.9	204.1	175.7	155.9	141.7	138.9
47.5°	8029.5	2757.8	547.0	357.1	263.6	221.1	181.4	150.2	133.2	119.0	116.2
50°	8698.4	2939.1	510.2	314.6	240.9	198.4	155.9	130.4	113.4	102.0	99.2
52.5°	9279.4	3185.7	473.3	283.4	221.1	175.7	136.0	113.4	96.4	85.0	82.2
55°	9834.9	3418.1	445.0	255.1	198.4	153.1	119.0	96.4	82.2	70.9	68.0
57.5°	10438.6	3664.7	411.0	229.6	178.6	136.0	104.9	82.2	70.9	59.5	56.7
60°	11317.3	4030.3	360.0	209.7	155.9	119.0	90.7	73.7	62.4	48.2	45.3
62.5°	12584.2	4696.4	303.3	181.4	133.2	102.0	76.5	62.4	51.0	39.7	34.0
65°	14953.6	5830.1	249.4	150.2	107.7	85.0	65.2	51.0	39.7	28.3	25.5
67.5°	16659.9	6124.9	201.2	121.9	87.9	65.2	53.9	39.7	28.3	19.8	17.0
70°	14565.3	4398.8	155.9	99.2	73.7	51.0	42.5	31.2	19.8	14.2	11.3
72.5°	10974.3	2874.0	116.2	76.5	56.7	42.5	31.2	25.5	17.0	11.3	8.5
75°	7734.7	1660.9	85.0	56.7	39.7	31.2	25.5	19.8	14.2	8.5	8.5
77.5°	3965.2	685.9	59.5	39.7	28.3	19.8	17.0	11.3	11.3	8.5	5.7
80°	1204.6	226.7	34.0	25.5	19.8	14.2	8.5	8.5	8.5	5.7	2.8
82.5°	274.9	73.7	19.8	19.8	14.2	11.3	8.5	2.8	2.8	0.0	0.0
85°	70.9	22.7	17.0	14.2	14.2	11.3	5.7	2.8	0.0	0.0	0.0
87.5°	25.5	14.2	14.2	14.2	11.3	8.5	5.7	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)