

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: P633904

Luminaire Tested: GWS-SA2F-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633904  
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-SA2F-760-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

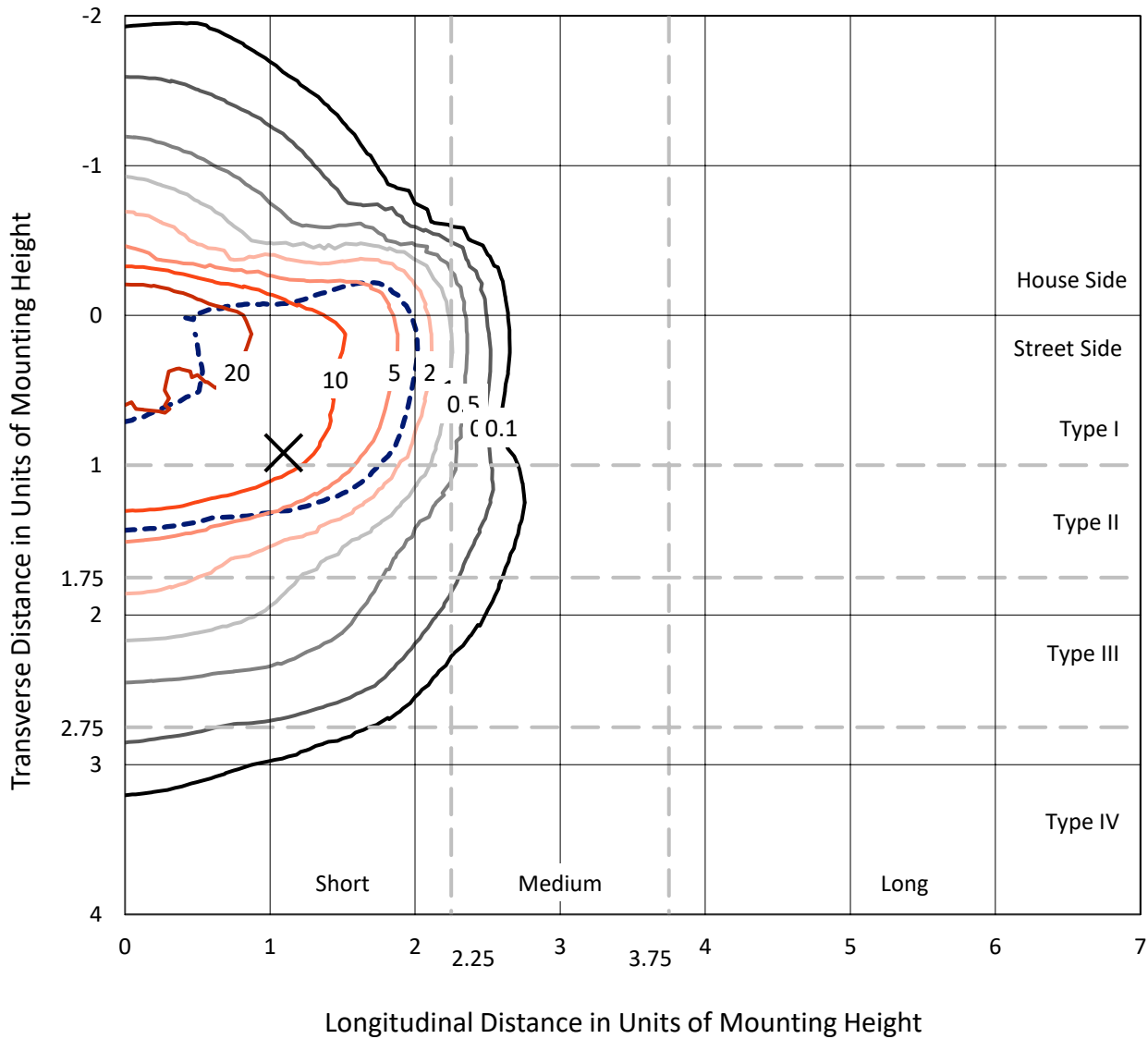
Lumens per Lamp: N/A  
Luminaire Lumens: 9610.5 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

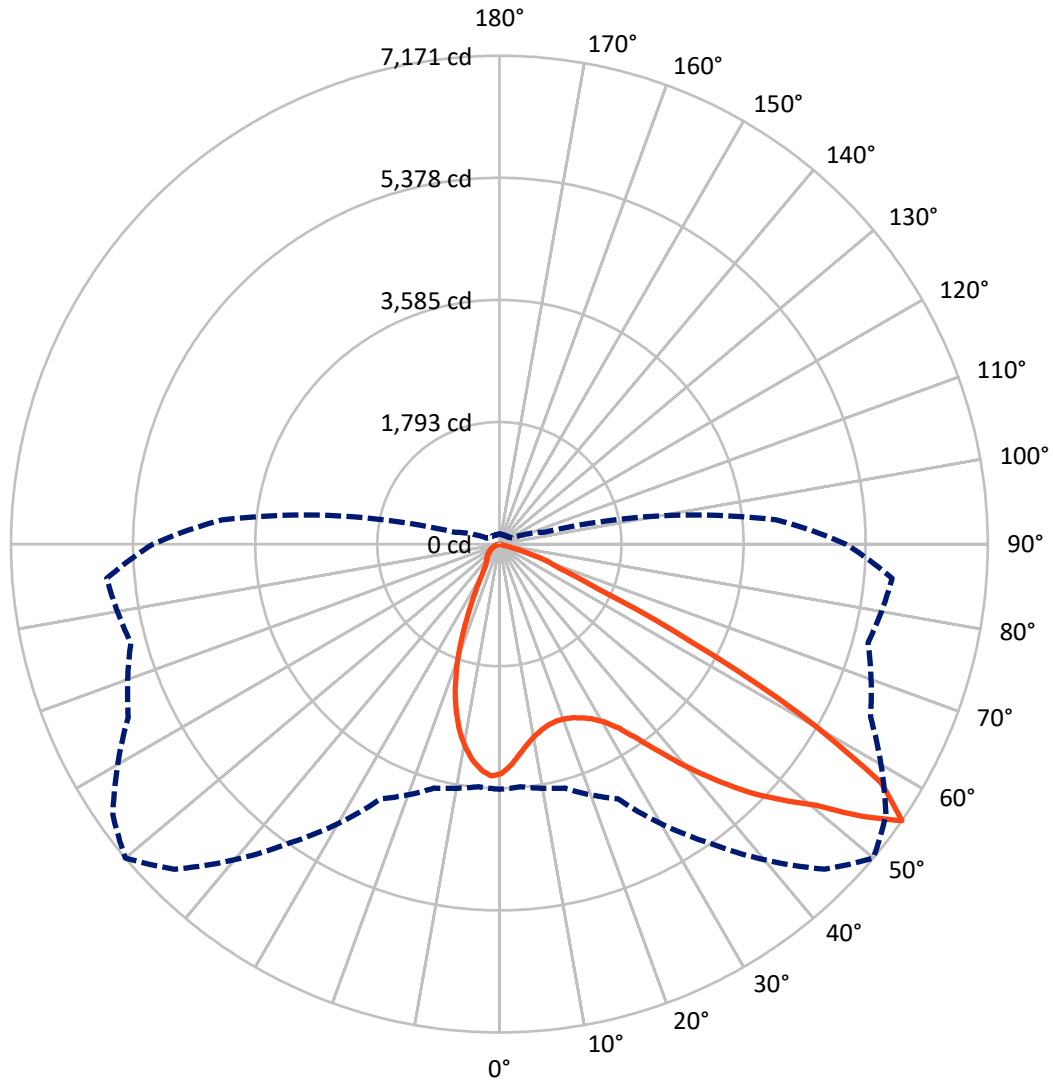
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.7 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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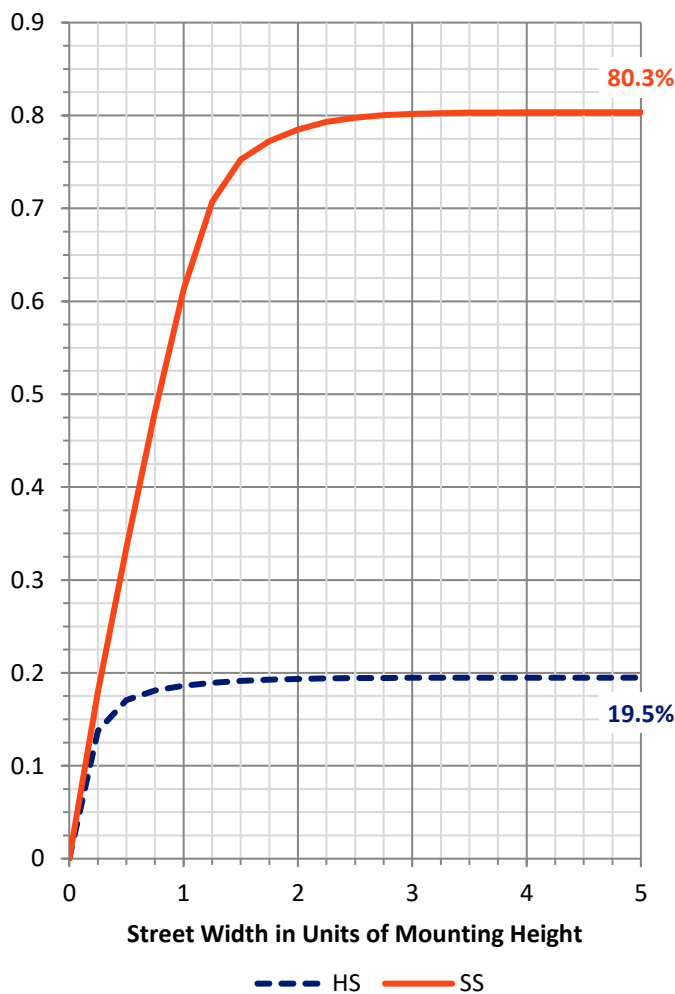
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1893.7	0.0	1893.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	7716.8	0.0	7716.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	9610.5	0.0	9610.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.1	3.1
10°-20°	728.7	7.6
20°-30°	1027.9	10.7
30°-40°	1521.0	15.8
40°-50°	2194.4	22.8
50°-60°	2588.4	26.9
60°-70°	1154.7	12.0
70°-80°	99.3	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°	9610.5	100.0
0°-180°	9610.5	100.0

**Coefficient of Utilization**



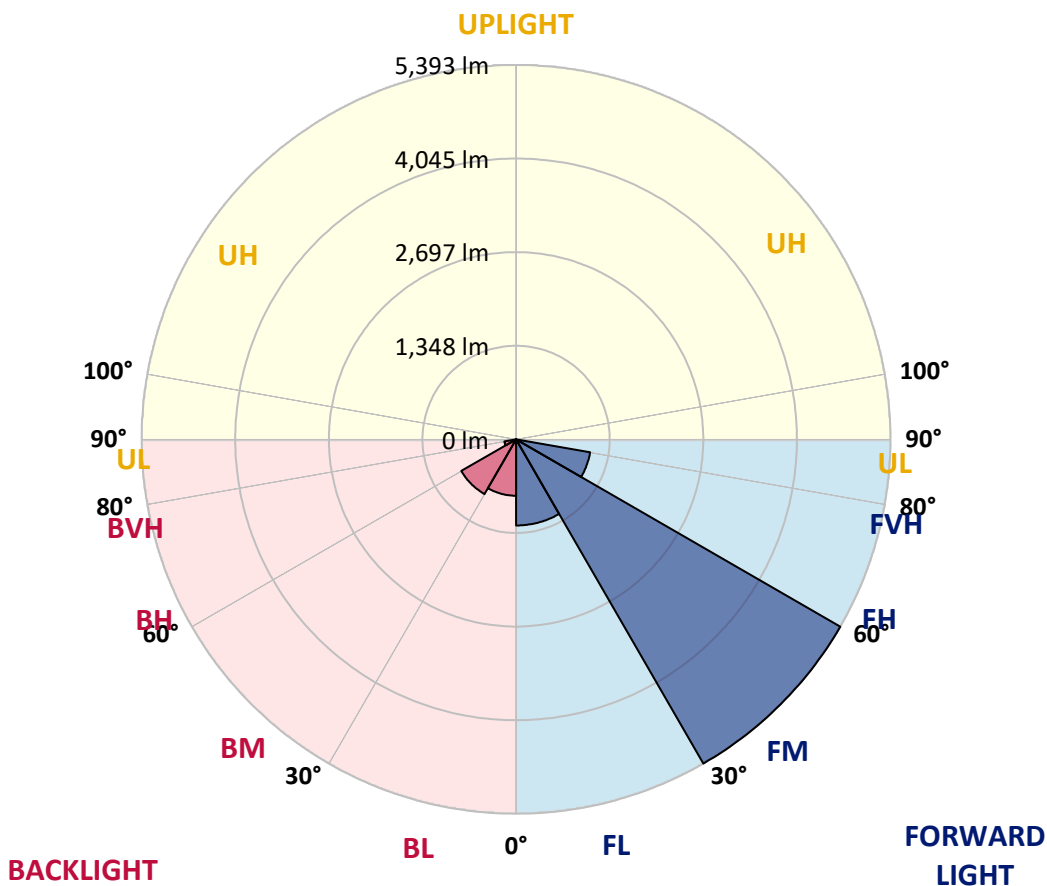
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.7	12.9			
FM (30°-60°)	5393.1	56.1			
FH (60°-80°)	1082.9	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	812.0	8.4	B2/1000		
BM (30°-60°)	910.7	9.5	B1/1000		
BH (60°-80°)	171.0	1.8	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: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3132.6	3134.9	3136.1	3167.8	3179.5	3226.4	3251.1	3264.0	3298.0	3337.9	3370.7
5°	2922.5	2919.0	2924.9	2964.8	2990.6	3059.8	3097.4	3123.2	3198.3	3292.1	3370.7
7.5°	2739.5	2746.6	2753.6	2797.0	2835.7	2910.8	2964.8	3003.5	3107.9	3247.5	3380.1
10°	2610.5	2610.5	2621.0	2670.3	2716.1	2808.7	2862.7	2912.0	3036.4	3207.6	3390.7
12.5°	2515.4	2516.6	2529.5	2585.8	2638.6	2734.8	2791.1	2839.2	2976.5	3167.8	3393.0
15°	2470.8	2467.3	2477.9	2537.7	2596.4	2686.7	2745.4	2792.3	2934.3	3145.5	3404.7
17.5°	2459.1	2456.8	2465.0	2523.6	2583.5	2671.5	2729.0	2775.9	2928.4	3152.5	3439.9
20°	2493.1	2488.4	2484.9	2535.4	2591.7	2678.5	2738.3	2791.1	2956.6	3191.2	3493.9
22.5°	2574.1	2574.1	2565.9	2590.5	2628.1	2706.7	2768.9	2838.1	3030.5	3268.7	3573.7
25°	2723.1	2711.4	2696.1	2706.7	2702.0	2751.3	2825.2	2921.4	3170.1	3396.5	3671.1
27.5°	2893.2	2903.8	2878.0	2879.1	2838.1	2820.5	2906.1	3051.6	3377.8	3577.2	3815.4
30°	3124.3	3116.1	3117.3	3113.8	3018.8	2935.5	3028.1	3221.7	3639.4	3852.9	4003.1
32.5°	3305.0	3316.8	3355.5	3377.8	3253.4	3119.7	3218.2	3452.9	3937.4	4167.4	4233.1
35°	3496.3	3517.4	3596.0	3668.7	3564.3	3410.6	3516.2	3759.1	4217.8	4478.3	4497.0
37.5°	3698.1	3740.3	3834.2	3962.0	3945.6	3809.5	3905.7	4119.3	4438.4	4666.0	4715.3
40°	3929.2	3970.3	4123.9	4308.1	4346.9	4316.4	4348.0	4472.4	4583.9	4674.2	4809.1
42.5°	4182.6	4238.9	4433.7	4680.1	4825.5	4852.5	4778.6	4765.7	4647.2	4580.3	4789.2
45°	4481.8	4547.5	4768.1	5087.2	5318.3	5354.7	5226.8	5061.4	4687.1	4511.1	4729.3
47.5°	4817.3	4879.5	5098.9	5482.6	5826.3	5840.4	5617.5	5351.2	4805.6	4590.9	4775.1
50°	4930.0	4968.7	5158.7	5609.3	6242.8	6350.8	6028.1	5677.3	5043.8	4825.5	4998.0
52.5°	4542.8	4558.0	4723.5	5178.7	6158.3	6851.7	6627.6	6164.2	5467.3	5183.4	5341.8
55°	3599.5	3574.9	3708.6	4126.3	5352.3	6749.7	7170.9	6929.2	6012.9	5603.4	5788.8
57.5°	2517.8	2488.4	2457.9	2740.7	3993.7	5721.9	6607.7	7035.9	6532.6	6019.9	6271.0
60°	2069.6	2041.4	1893.6	1763.4	2414.5	4108.7	5075.4	5881.5	6490.4	5998.8	6255.7
62.5°	1788.0	1771.6	1711.8	1534.6	1420.8	2345.3	3178.3	3950.3	4980.4	4710.6	4724.6
65°	1404.4	1399.7	1440.7	1459.5	1256.5	1297.6	1621.4	2053.2	2692.6	2538.9	2407.5
67.5°	959.7	949.2	1026.6	1262.4	1208.4	1024.2	949.2	957.4	1165.0	712.2	565.5
70°	610.1	585.4	586.6	782.6	983.2	808.4	732.1	644.1	579.6	105.6	119.7
72.5°	390.7	375.4	322.6	353.1	455.2	394.2	397.7	342.6	228.8	56.3	65.7
75°	164.3	151.3	116.2	92.7	91.5	57.5	50.4	46.9	31.7	31.7	34.0
77.5°	1.2	0.0	0.0	1.2	2.3	1.2	1.2	2.3	4.7	7.0	8.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3390.7	3362.5	3394.2	3405.9	3404.7	3405.9	3371.9	3348.4	3347.3	3317.9	3303.8
5°	3403.6	3381.3	3404.7	3389.5	3353.1	3307.4	3246.4	3193.6	3170.1	3136.1	3119.7
7.5°	3428.2	3404.7	3401.2	3340.2	3249.9	3153.7	3045.7	2949.5	2897.9	2835.7	2839.2
10°	3445.8	3418.8	3373.1	3248.7	3098.5	2944.8	2784.1	2641.0	2550.6	2467.3	2453.2
12.5°	3452.9	3413.0	3306.2	3118.5	2907.3	2706.7	2470.8	2266.7	2125.9	2016.8	2001.6
15°	3465.8	3401.2	3220.5	2961.3	2671.5	2387.5	2087.2	1808.0	1621.4	1495.9	1506.4
17.5°	3485.7	3388.3	3124.3	2785.3	2418.1	2016.8	1610.9	1290.6	1119.3	1046.5	1047.7
20°	3513.9	3373.1	3018.8	2591.7	2114.2	1598.0	1126.3	884.6	836.5	834.2	830.7
22.5°	3551.4	3357.8	2906.1	2379.3	1754.0	1119.3	749.7	674.6	694.6	733.3	740.3
25°	3596.0	3339.0	2780.6	2140.0	1361.0	734.4	562.0	550.3	598.4	650.0	661.7
27.5°	3665.2	3329.7	2637.4	1867.8	955.0	526.8	459.9	467.0	510.4	553.8	564.3
30°	3782.5	3347.3	2481.4	1562.8	613.6	420.0	398.9	409.5	432.9	455.2	464.6
32.5°	3942.1	3398.9	2330.1	1229.6	437.6	364.9	360.2	366.1	375.4	388.3	391.9
35°	4128.6	3488.0	2174.0	879.9	361.4	333.2	328.5	328.5	333.2	335.5	336.7
37.5°	4282.3	3581.9	2027.4	585.4	323.8	308.6	301.5	298.0	296.8	299.2	300.3
40°	4349.2	3620.6	1867.8	425.9	296.8	286.3	275.7	265.2	265.2	273.4	274.5
42.5°	4302.3	3577.2	1683.6	352.0	278.1	262.8	246.4	237.0	241.7	249.9	252.2
45°	4202.6	3470.5	1480.6	310.9	259.3	239.3	220.6	214.7	219.4	230.0	232.3
47.5°	4186.1	3400.1	1237.8	283.9	239.3	219.4	199.5	193.6	199.5	207.7	210.0
50°	4349.2	3461.1	967.9	260.5	220.6	198.3	181.9	176.0	179.5	184.2	186.5
52.5°	4647.2	3687.5	781.4	238.2	198.3	177.2	166.6	159.6	159.6	164.3	165.4
55°	5087.2	4082.9	674.6	212.4	172.5	160.7	151.3	144.3	144.3	146.7	147.8
57.5°	5594.0	4561.6	699.3	178.3	151.3	145.5	137.3	131.4	133.7	133.7	133.7
60°	5523.6	4526.4	748.5	150.2	133.7	131.4	124.4	122.0	127.9	123.2	120.8
62.5°	4068.8	3126.7	391.9	123.2	115.0	112.6	107.9	112.6	120.8	107.9	103.2
65°	1975.7	1513.5	157.2	100.9	97.4	95.0	92.7	99.7	104.4	84.5	79.8
67.5°	464.6	377.8	102.1	85.6	81.0	76.3	78.6	79.8	76.3	57.5	55.1
70°	120.8	118.5	79.8	71.6	64.5	59.8	59.8	58.7	50.4	36.4	34.0
72.5°	65.7	64.5	57.5	54.0	44.6	39.9	41.1	36.4	28.2	21.1	19.9
75°	32.9	35.2	32.9	30.5	24.6	22.3	22.3	19.9	14.1	8.2	8.2
77.5°	7.0	8.2	8.2	7.0	5.9	4.7	4.7	5.9	2.3	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	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)