

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: P639463

Luminaire Tested: GWS-SA5B-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 8250 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

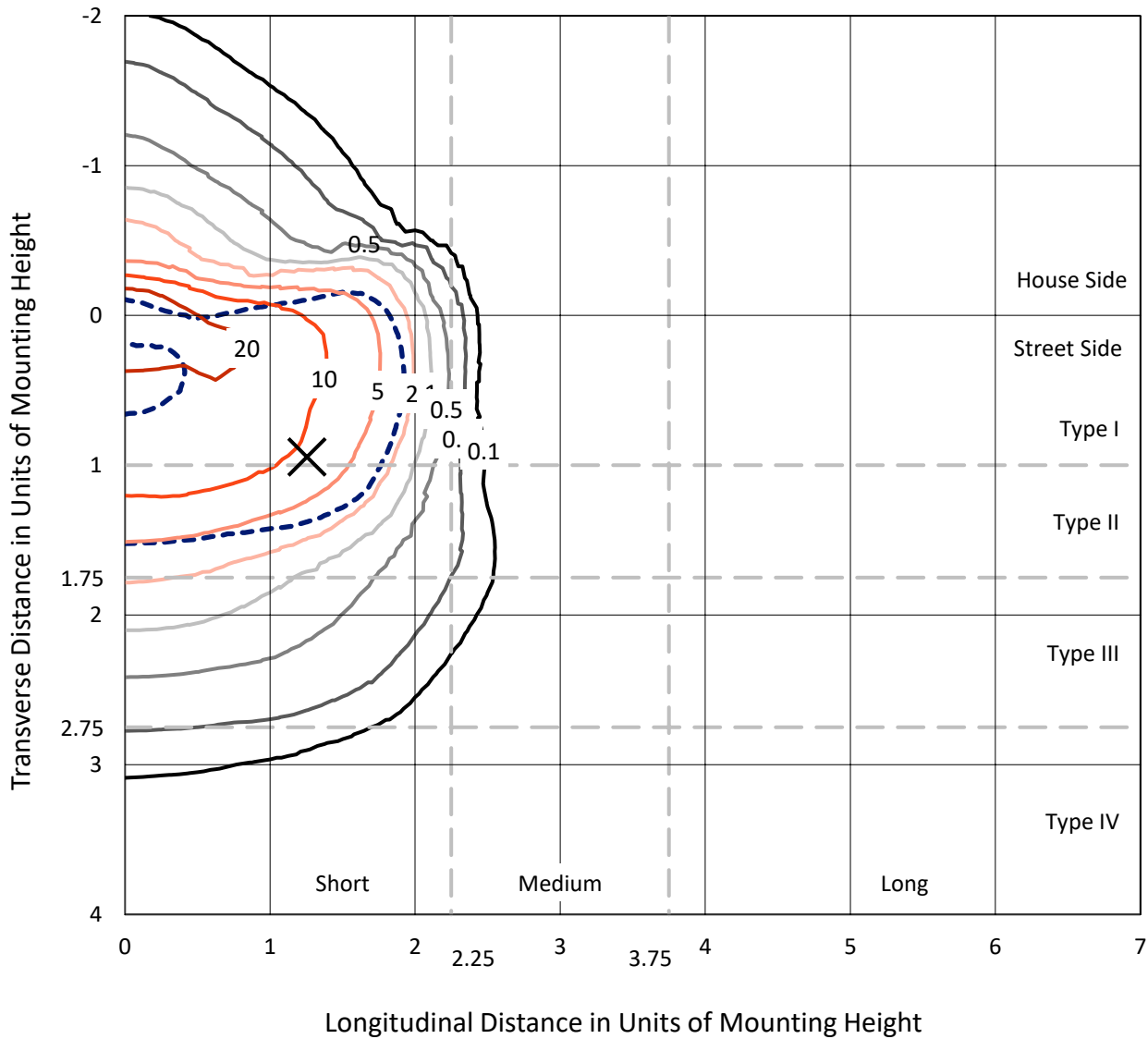
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

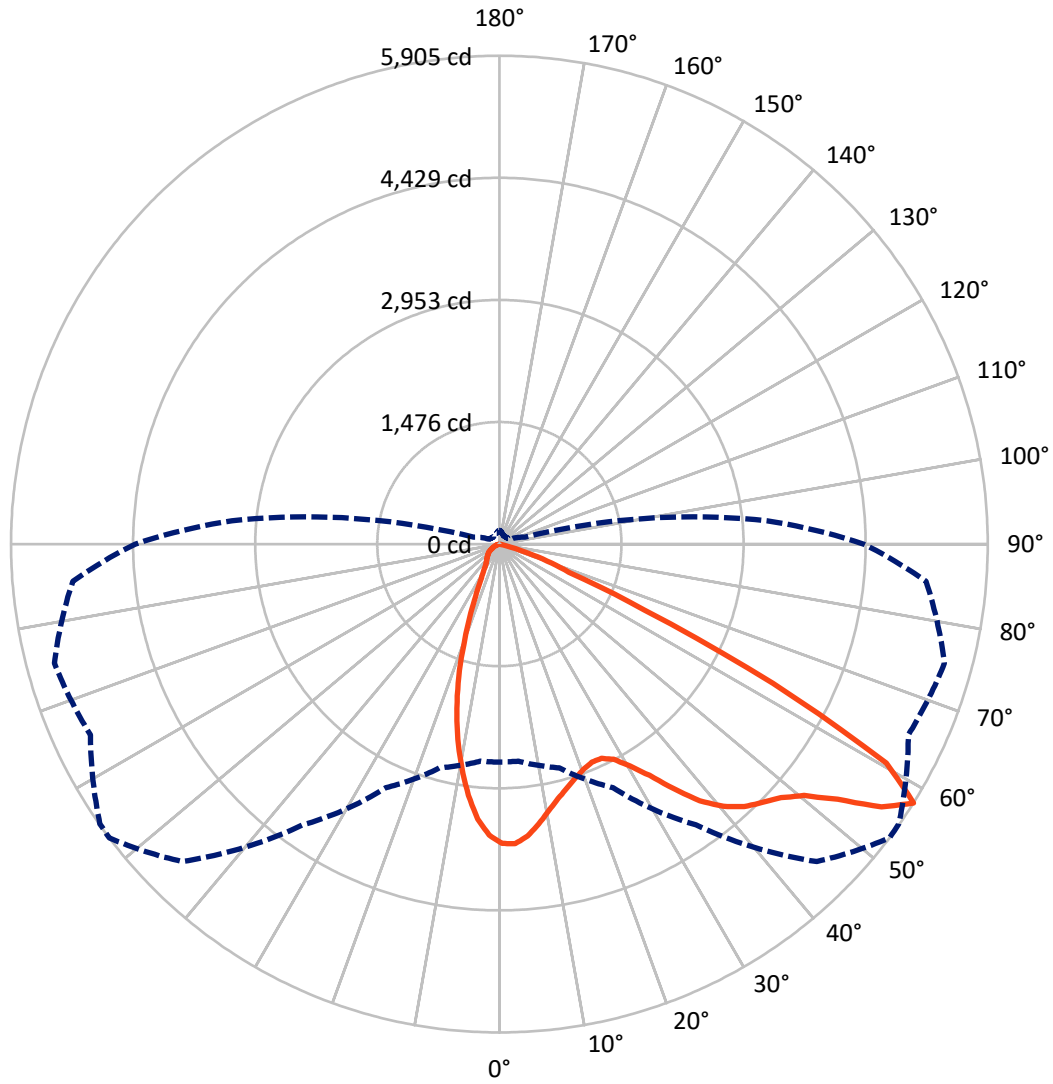
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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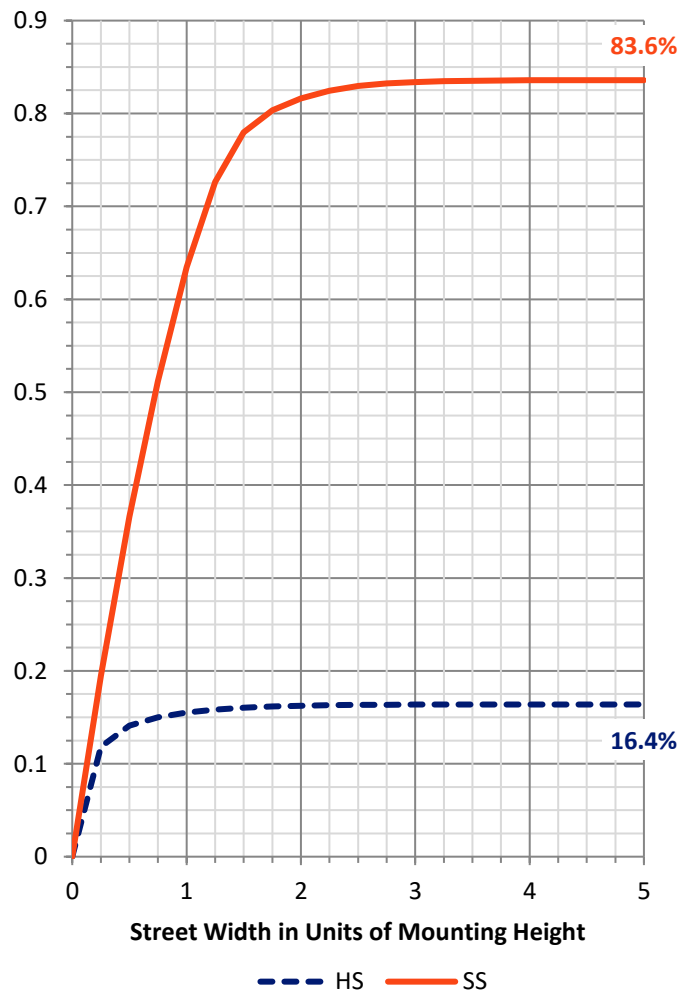
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1362.8	0.0	1362.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6887.2	0.0	6887.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	8250.0	0.0	8250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	3.8
10°-20°	679.7	8.2
20°-30°	885.5	10.7
30°-40°	1284.5	15.6
40°-50°	1853.4	22.5
50°-60°	2241.5	27.2
60°-70°	913.6	11.1
70°-80°	82.1	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°	8250.0	100.0
0°-180°	8250.0	100.0

Coefficient of Utilization



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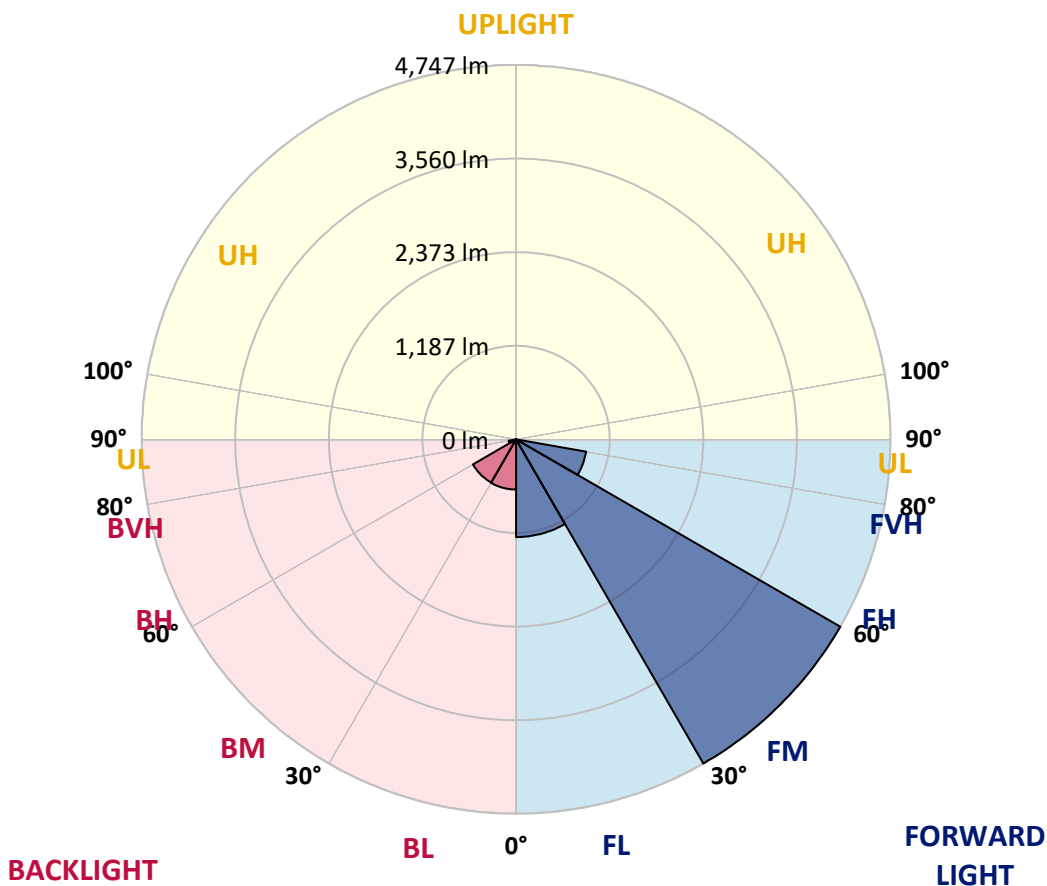
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.9	15.0			
FM (30°-60°)	4746.9	57.5			
FH (60°-80°)	901.4	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	636.0	7.7	B2/1000		
BM (30°-60°)	632.5	7.7	B1/1000		
BH (60°-80°)	94.2	1.1	B0/110		G0/110
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°	53°	55°	65°	75°	85°
0°	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9
2.5°	3568.4	3576.5	3590.6	3608.8	3620.9	3627.0	3627.0	3644.2	3633.1	3624.0	3613.9
5°	3415.7	3423.8	3443.0	3472.3	3501.6	3522.9	3547.1	3565.3	3572.4	3572.4	3555.2
7.5°	3200.3	3211.4	3223.6	3264.0	3327.7	3375.2	3416.7	3443.0	3481.4	3493.5	3469.3
10°	2968.7	2979.9	3007.2	3062.8	3135.6	3206.4	3277.2	3310.5	3376.2	3410.6	3383.3
12.5°	2772.6	2777.6	2814.0	2880.8	2973.8	3070.9	3156.8	3191.2	3284.2	3335.8	3303.4
15°	2610.8	2613.8	2650.2	2724.0	2831.2	2950.5	3058.7	3094.1	3208.4	3286.3	3237.7
17.5°	2488.5	2489.5	2520.8	2600.7	2712.9	2845.4	2973.8	3017.3	3164.9	3258.9	3186.1
20°	2426.8	2423.7	2446.0	2515.8	2621.9	2754.4	2906.1	2959.6	3140.6	3254.9	3146.7
22.5°	2427.8	2420.7	2429.8	2479.3	2569.3	2693.7	2863.6	2924.3	3142.7	3272.1	3113.3
25°	2485.4	2475.3	2477.3	2503.6	2567.3	2680.6	2869.7	2934.4	3183.1	3329.7	3101.2
27.5°	2582.5	2571.4	2571.4	2584.5	2618.9	2722.0	2945.5	3019.3	3291.3	3442.0	3126.5
30°	2707.9	2696.7	2692.7	2705.8	2734.2	2829.2	3114.4	3191.2	3476.3	3626.0	3207.4
32.5°	2851.5	2838.3	2845.4	2863.6	2890.9	3022.3	3331.8	3433.9	3707.9	3873.7	3353.0
35°	3003.1	2992.0	3024.4	3063.8	3106.3	3290.3	3632.1	3721.0	3992.0	4182.1	3575.4
37.5°	3147.7	3142.7	3210.4	3293.3	3381.3	3611.8	3937.4	4006.2	4235.7	4517.8	3847.4
40°	3292.3	3291.3	3407.6	3553.2	3693.7	3932.4	4169.0	4225.6	4384.4	4778.7	4108.3
42.5°	3454.1	3454.1	3614.9	3809.0	3996.1	4203.4	4338.9	4364.1	4451.1	4929.4	4304.5
45°	3608.8	3617.9	3804.0	4029.4	4250.9	4414.7	4456.2	4458.2	4478.4	5018.4	4467.3
47.5°	3731.2	3739.2	3961.7	4221.6	4460.2	4575.5	4581.5	4572.4	4550.2	5103.3	4592.7
50°	3830.3	3842.4	4075.0	4350.0	4603.8	4730.2	4776.7	4767.6	4711.0	5194.3	4680.6
52.5°	3878.8	3896.0	4114.4	4413.7	4763.5	4995.1	5124.5	5145.8	4951.6	5244.9	4764.6
55°	3490.5	3515.8	3717.0	4126.5	4852.5	5404.6	5607.9	5603.8	5212.5	5395.5	4968.8
57.5°	2636.1	2634.1	2800.9	3248.8	4144.7	5427.9	5905.1	5897.1	5456.2	5570.4	5178.1
60°	1794.8	1782.7	1827.2	2043.5	2898.0	4421.8	5374.3	5483.5	5283.3	5145.8	4396.5
62.5°	1477.3	1466.2	1452.0	1392.4	1664.4	2754.4	3713.0	3878.8	3852.5	3576.5	2757.4
65°	1209.3	1218.4	1257.9	1232.6	1157.8	1412.6	1927.3	2025.3	1851.4	1558.2	963.6
67.5°	891.8	895.9	947.5	1080.9	1040.5	940.4	907.0	923.2	541.0	248.7	160.8
70°	526.8	529.8	577.4	756.3	844.3	722.0	612.8	603.7	214.4	66.7	72.8
72.5°	298.3	292.2	301.3	360.0	460.1	383.2	315.5	287.2	64.7	37.4	37.4
75°	141.6	137.5	118.3	111.2	101.1	64.7	40.4	34.4	16.2	15.2	15.2
77.5°	1.0	3.0	2.0	3.0	3.0	2.0	1.0	1.0	3.0	3.0	4.0
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9
2.5°	3595.7	3565.3	3558.3	3556.2	3527.9	3497.6	3466.2	3454.1	3435.9	3424.8	3433.9
5°	3527.9	3484.4	3446.0	3410.6	3347.9	3279.2	3219.5	3181.1	3144.7	3120.4	3126.5
7.5°	3431.9	3375.2	3287.3	3197.3	3082.0	2978.9	2863.6	2792.8	2727.1	2690.7	2707.9
10°	3329.7	3254.9	3114.4	2961.7	2780.7	2618.9	2454.1	2319.6	2241.7	2167.9	2176.0
12.5°	3229.6	3130.5	2920.2	2688.7	2460.1	2221.5	1972.8	1786.7	1659.3	1567.3	1553.1
15°	3136.6	3009.2	2731.1	2425.8	2114.3	1796.8	1479.3	1213.4	1065.8	974.8	968.7
17.5°	3053.7	2895.9	2535.0	2150.7	1760.4	1353.9	988.9	789.7	704.8	665.3	661.3
20°	2973.8	2781.7	2334.8	1871.6	1374.2	950.5	682.5	590.5	563.2	547.0	549.1
22.5°	2897.0	2657.3	2124.4	1562.2	1030.4	667.4	528.8	493.4	490.4	492.4	493.4
25°	2832.2	2543.1	1908.0	1263.9	735.1	508.6	441.9	431.8	440.9	454.0	456.0
27.5°	2798.9	2450.0	1696.7	963.6	531.9	413.6	383.2	387.3	403.5	417.6	419.6
30°	2808.0	2380.3	1478.3	698.7	409.5	348.8	338.7	346.8	363.0	376.1	378.2
32.5°	2872.7	2344.9	1254.8	508.6	336.7	304.4	300.3	306.4	320.5	330.6	331.7
35°	3001.1	2353.0	1042.5	389.3	289.2	271.0	270.0	274.0	281.1	288.2	289.2
37.5°	3190.2	2418.7	833.2	323.6	261.9	248.7	244.7	244.7	249.8	252.8	254.8
40°	3393.4	2517.8	667.4	286.2	242.7	228.5	220.4	217.4	221.4	225.5	226.5
42.5°	3561.3	2616.9	542.0	259.9	227.5	208.3	198.2	196.2	201.2	208.3	210.3
45°	3689.7	2693.7	452.0	238.6	210.3	189.1	178.0	178.0	187.1	199.2	201.2
47.5°	3807.0	2755.4	385.2	219.4	194.1	171.9	160.8	162.8	178.0	194.1	197.2
50°	3886.9	2804.9	335.7	202.2	181.0	157.7	147.6	151.7	169.9	189.1	192.1
52.5°	3972.8	2865.6	303.3	187.1	168.9	146.6	137.5	140.6	160.8	182.0	186.1
55°	4210.4	3068.9	302.3	166.8	147.6	131.5	127.4	128.4	148.6	172.9	178.0
57.5°	4404.6	3247.8	322.6	140.6	123.4	115.3	113.2	114.3	132.5	159.8	165.8
60°	3644.2	2523.8	266.9	116.3	103.1	101.1	98.1	100.1	117.3	141.6	146.6
62.5°	2156.8	1442.9	127.4	89.0	88.0	85.9	82.9	87.0	103.1	124.4	127.4
65°	737.1	427.7	80.9	72.8	74.8	71.8	68.8	72.8	87.0	99.1	100.1
67.5°	141.6	113.2	64.7	60.7	61.7	55.6	54.6	58.6	66.7	68.8	67.7
70°	73.8	65.7	49.5	49.5	47.5	39.4	39.4	43.5	43.5	40.4	39.4
72.5°	38.4	36.4	32.4	36.4	30.3	24.3	24.3	26.3	24.3	20.2	20.2
75°	15.2	15.2	14.2	18.2	13.1	11.1	10.1	12.1	9.1	7.1	7.1
77.5°	4.0	4.0	4.0	5.1	3.0	3.0	2.0	2.0	1.0	0.0	0.0
80°	0.0	1.0	0.0	1.0	0.0	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)