

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: P636817

Luminaire Tested: GWS-SA4B-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13052 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

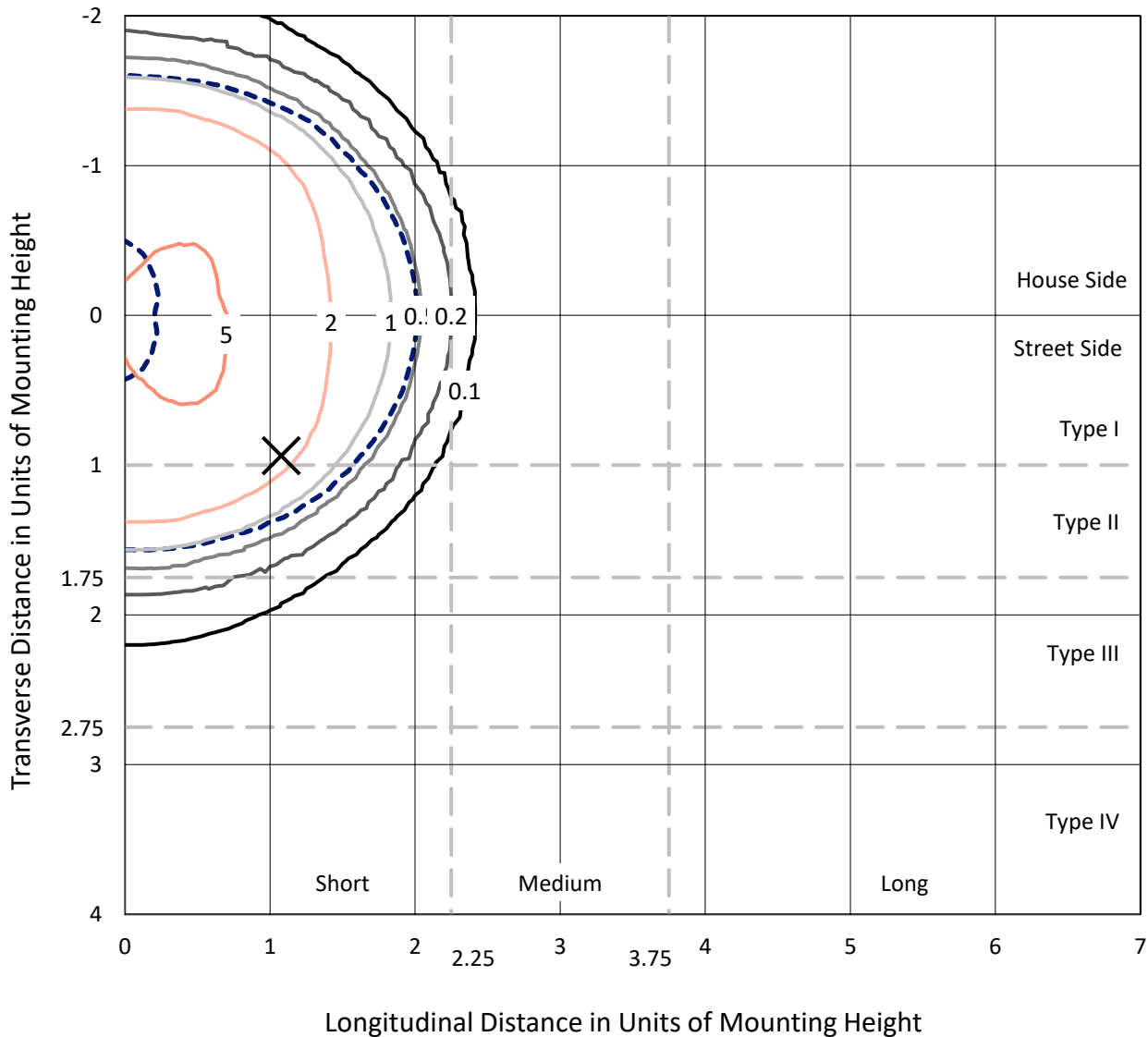
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

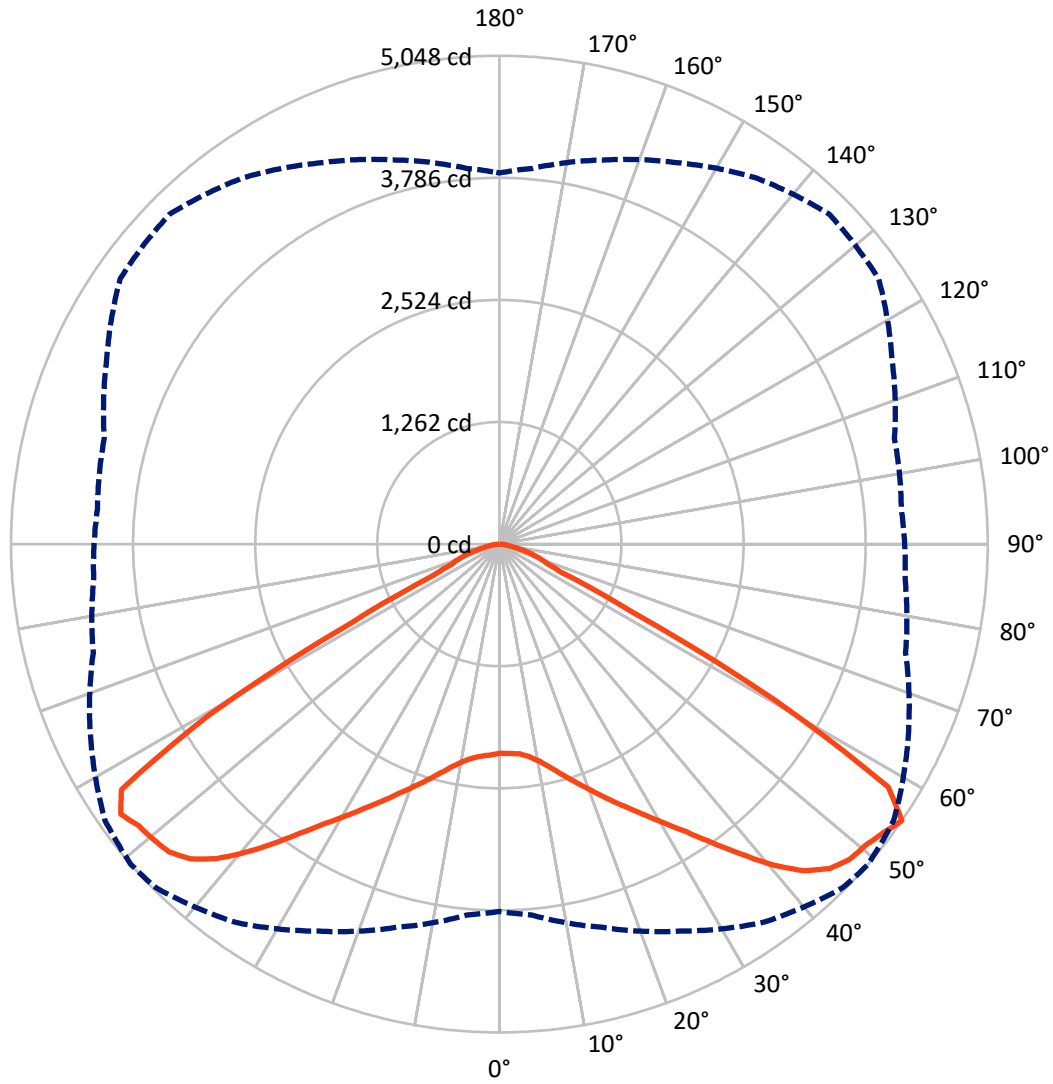
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

REPORT NUMBER: P636817
CATALOG NUMBER: GWS-SA4B-750-U-RW-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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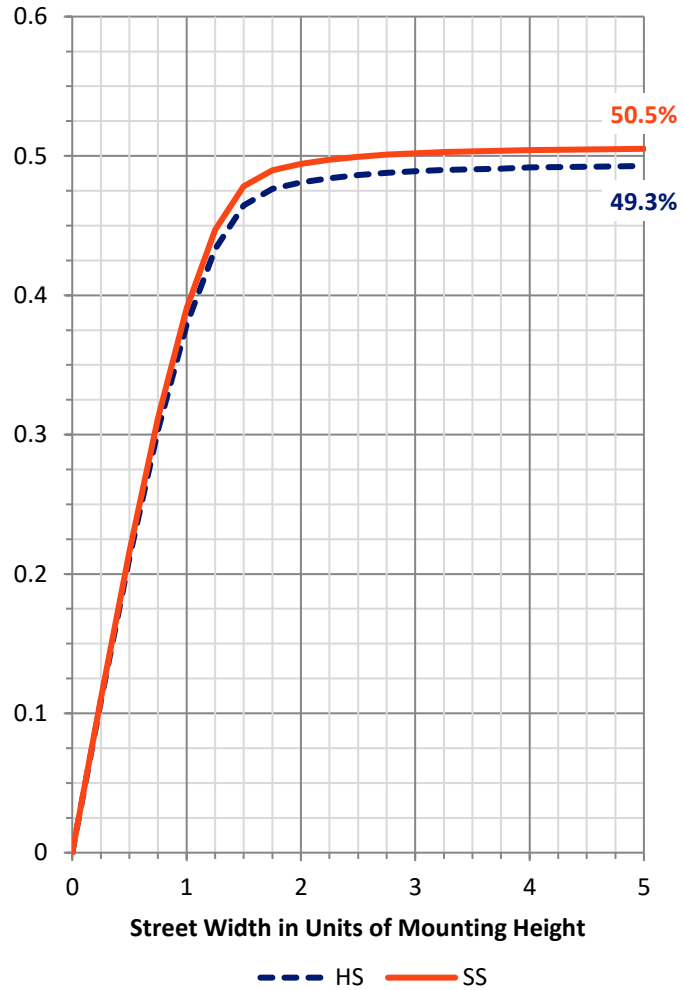
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6462.0	0.0	6462.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6590.0	0.0	6590.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	13052.0	0.0	13052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	1.6
10°-20°	695.7	5.3
20°-30°	1325.1	10.2
30°-40°	2246.3	17.2
40°-50°	3380.6	25.9
50°-60°	3700.4	28.4
60°-70°	1170.1	9.0
70°-80°	280.8	2.2
80°-90°	42.1	0.3
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°	13052.0	100.0
0°-180°	13052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636817

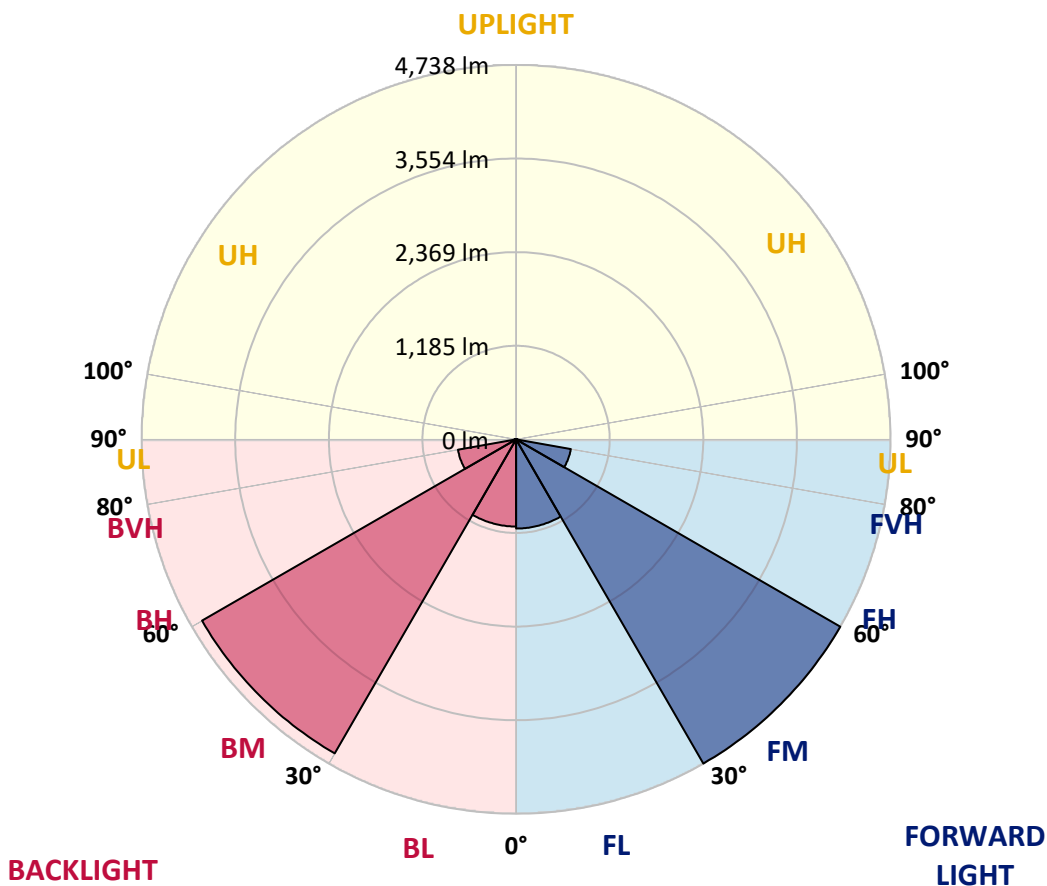
CATALOG NUMBER: GWS-SA4B-750-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.5	8.6			
FM (30°-60°)	4738.2	36.3			
FH (60°-80°)	703.8	5.4			G1/1800
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1103.3	8.5	B3/2500		
BM (30°-60°)	4589.0	35.2	B3/5000		
BH (60°-80°)	747.1	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P636817
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1
2.5°	2130.3	2132.4	2136.7	2144.1	2151.5	2162.1	2166.4	2171.7	2170.6	2177.0	2177.0
5°	2119.7	2122.9	2129.2	2139.9	2152.6	2172.8	2178.1	2190.8	2203.5	2219.5	2224.8
7.5°	2132.4	2136.7	2144.1	2161.1	2180.2	2206.7	2217.3	2238.6	2263.0	2291.6	2303.3
10°	2156.8	2162.1	2174.9	2202.5	2233.3	2273.6	2283.1	2309.7	2349.0	2388.2	2411.6
12.5°	2184.4	2192.9	2216.3	2259.8	2305.4	2358.5	2373.4	2406.3	2448.7	2499.7	2531.5
15°	2216.3	2223.7	2259.8	2321.4	2392.5	2462.5	2479.5	2511.4	2559.1	2609.0	2653.6
17.5°	2283.1	2295.9	2338.3	2409.5	2492.2	2575.0	2594.1	2630.2	2668.4	2707.7	2750.2
20°	2374.4	2385.0	2439.2	2527.3	2624.9	2700.3	2719.4	2751.2	2769.3	2789.5	2825.5
22.5°	2465.7	2480.6	2542.1	2646.2	2760.8	2842.5	2857.4	2887.1	2874.4	2868.0	2891.3
25°	2579.3	2599.5	2660.0	2773.5	2890.3	2991.1	3002.8	3028.3	3007.0	2974.1	2973.1
27.5°	2720.5	2738.5	2801.1	2917.9	3033.6	3138.7	3161.0	3194.9	3148.2	3107.9	3079.2
30°	2888.2	2899.8	2968.8	3093.0	3211.9	3311.7	3340.3	3374.3	3339.3	3272.4	3243.7
32.5°	3083.5	3099.4	3179.0	3309.6	3415.7	3515.5	3544.1	3586.6	3548.4	3473.0	3436.9
35°	3318.0	3334.0	3417.8	3560.1	3668.3	3771.3	3791.4	3826.5	3778.7	3691.7	3663.0
37.5°	3572.8	3593.0	3699.1	3833.9	3947.5	4067.4	4068.5	4079.1	4011.2	3902.9	3871.1
40°	3859.4	3885.9	3992.1	4132.2	4269.1	4366.7	4365.7	4336.0	4221.3	4053.6	4004.8
42.5°	4142.8	4164.0	4271.2	4415.6	4552.5	4644.8	4617.2	4545.1	4379.5	4151.3	4086.5
45°	4347.6	4363.6	4476.1	4638.5	4777.5	4834.8	4784.9	4697.9	4473.9	4212.8	4117.3
47.5°	4444.2	4465.5	4579.0	4740.4	4897.5	4930.4	4870.9	4789.2	4529.1	4270.2	4141.7
50°	4392.2	4419.8	4548.2	4697.9	4875.2	4943.1	4900.6	4818.9	4587.5	4326.4	4185.2
52.5°	4257.4	4284.0	4446.4	4627.9	4828.5	4963.3	4962.2	4895.3	4654.4	4342.3	4187.4
55°	3796.8	3848.8	4101.4	4414.5	4771.2	5022.7	5048.2	4977.1	4665.0	4346.6	4209.7
57.5°	2471.0	2562.3	2802.2	3209.8	3925.2	4568.4	4740.4	4757.4	4588.6	4328.5	4213.9
60°	1031.7	1105.0	1295.0	1565.6	2156.8	2922.1	3255.4	3589.8	3993.1	4139.6	4174.6
62.5°	641.1	647.5	666.6	728.1	925.6	1299.2	1513.6	1826.7	2426.4	2937.0	3172.6
65°	578.5	581.7	585.9	581.7	591.2	636.9	694.2	803.5	1047.6	1301.3	1602.8
67.5°	509.5	513.7	516.9	513.7	516.9	519.0	525.4	535.0	579.5	615.6	643.2
70°	411.8	418.2	423.5	421.4	434.1	434.1	440.5	447.9	470.2	496.8	515.9
72.5°	314.2	308.9	315.2	317.4	329.0	335.4	345.0	353.5	378.9	394.9	419.3
75°	203.8	198.5	208.0	213.3	229.3	237.8	246.3	254.7	272.8	283.4	306.8
77.5°	110.4	109.3	118.9	126.3	143.3	153.9	160.3	166.6	181.5	184.7	199.5
80°	63.7	63.7	70.1	75.4	86.0	97.7	104.0	109.3	119.9	123.1	129.5
82.5°	35.0	35.0	38.2	41.4	49.9	56.3	61.6	65.8	75.4	78.5	81.7
85°	17.0	15.9	18.0	20.2	23.4	26.5	29.7	31.8	39.3	41.4	45.6
87.5°	2.1	2.1	2.1	3.2	4.2	6.4	7.4	7.4	11.7	13.8	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636817

CATALOG NUMBER: GWS-SA4B-750-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1	2162.1
2.5°	2183.4	2169.6	2178.1	2181.2	2181.2	2178.1	2164.3	2160.0	2153.7	2144.1	2144.1
5°	2232.2	2221.6	2223.7	2218.4	2205.7	2189.7	2164.3	2151.5	2140.9	2129.2	2128.2
7.5°	2316.1	2302.3	2300.1	2280.0	2246.0	2212.0	2173.8	2150.5	2134.5	2119.7	2118.6
10°	2425.4	2412.6	2396.7	2356.4	2306.5	2256.6	2204.6	2172.8	2149.4	2128.2	2127.1
12.5°	2547.4	2532.6	2502.9	2443.4	2380.8	2332.0	2272.5	2223.7	2188.7	2160.0	2154.7
15°	2680.1	2658.9	2607.9	2537.9	2476.3	2424.3	2360.6	2290.6	2237.5	2191.9	2186.6
17.5°	2782.0	2754.4	2699.2	2633.4	2582.5	2530.5	2447.7	2359.6	2283.1	2225.8	2217.3
20°	2852.1	2829.8	2767.2	2718.3	2688.6	2643.0	2546.4	2446.6	2360.6	2288.5	2284.2
22.5°	2916.8	2890.3	2828.7	2800.1	2800.1	2769.3	2676.9	2559.1	2458.3	2374.4	2363.8
25°	2990.1	2961.4	2914.7	2911.5	2926.4	2912.6	2801.1	2674.8	2557.0	2462.5	2445.5
27.5°	3092.0	3060.1	3032.5	3051.6	3072.9	3058.0	2933.8	2787.3	2663.1	2567.6	2552.8
30°	3254.4	3215.1	3189.6	3213.0	3254.4	3210.8	3076.0	2921.1	2795.8	2690.7	2683.3
32.5°	3443.3	3398.7	3372.2	3409.3	3446.5	3378.5	3244.8	3096.2	2964.6	2854.2	2841.5
35°	3670.4	3614.2	3574.9	3624.8	3663.0	3596.1	3463.5	3322.3	3175.8	3061.2	3044.2
37.5°	3872.1	3804.2	3777.6	3847.7	3898.7	3855.1	3710.8	3578.1	3417.8	3292.6	3285.1
40°	4018.6	3951.7	3932.6	4048.3	4137.5	4126.9	3997.4	3845.6	3694.9	3550.5	3536.7
42.5°	4082.3	4035.6	4039.8	4195.9	4333.8	4401.8	4286.1	4123.7	3978.3	3828.6	3819.0
45°	4096.1	4067.4	4101.4	4296.7	4478.2	4617.2	4518.5	4382.7	4218.1	4073.8	4069.5
47.5°	4110.9	4095.0	4147.0	4354.0	4569.5	4730.8	4675.6	4535.5	4368.9	4227.7	4217.1
50°	4146.0	4139.6	4198.0	4394.3	4613.0	4761.6	4699.0	4559.9	4389.0	4250.0	4224.5
52.5°	4156.6	4146.0	4229.8	4457.0	4685.2	4760.5	4625.7	4444.2	4272.3	4117.3	4090.8
55°	4189.5	4170.4	4227.7	4480.3	4784.9	4822.1	4621.5	4349.8	4109.9	3898.7	3836.0
57.5°	4198.0	4176.7	4213.9	4442.1	4676.7	4643.8	4062.1	3510.2	3058.0	2823.4	2850.0
60°	4152.3	4158.7	4095.0	4069.5	3751.1	3311.7	2486.9	1988.1	1561.4	1380.9	1420.2
62.5°	3161.0	3187.5	2969.9	2582.5	1985.9	1574.1	1041.3	808.8	684.6	652.8	658.1
65°	1595.3	1631.4	1405.3	1162.3	864.0	698.4	604.0	584.9	578.5	571.1	571.1
67.5°	631.6	642.2	633.7	593.3	551.9	537.1	532.8	530.7	523.3	519.0	520.1
70°	507.4	515.9	503.1	477.6	460.7	459.6	457.5	453.2	447.9	447.9	451.1
72.5°	414.0	422.5	404.4	388.5	375.7	366.2	360.9	357.7	350.3	350.3	353.5
75°	304.6	309.9	295.1	293.0	279.2	269.6	261.1	256.9	247.3	243.1	246.3
77.5°	202.7	201.7	194.2	194.2	188.9	177.3	167.7	158.2	145.4	136.9	139.0
80°	131.6	131.6	128.4	128.4	123.1	113.6	101.9	92.3	84.9	78.5	78.5
82.5°	83.9	82.8	81.7	80.7	78.5	69.0	60.5	54.1	48.8	44.6	45.6
85°	46.7	46.7	44.6	44.6	40.3	35.0	30.8	26.5	23.4	22.3	22.3
87.5°	15.9	15.9	14.9	14.9	12.7	9.6	7.4	6.4	5.3	4.2	5.3
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)