

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509191

Luminaire Tested: **VERD-CA2-120-760-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-120-760-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17111 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

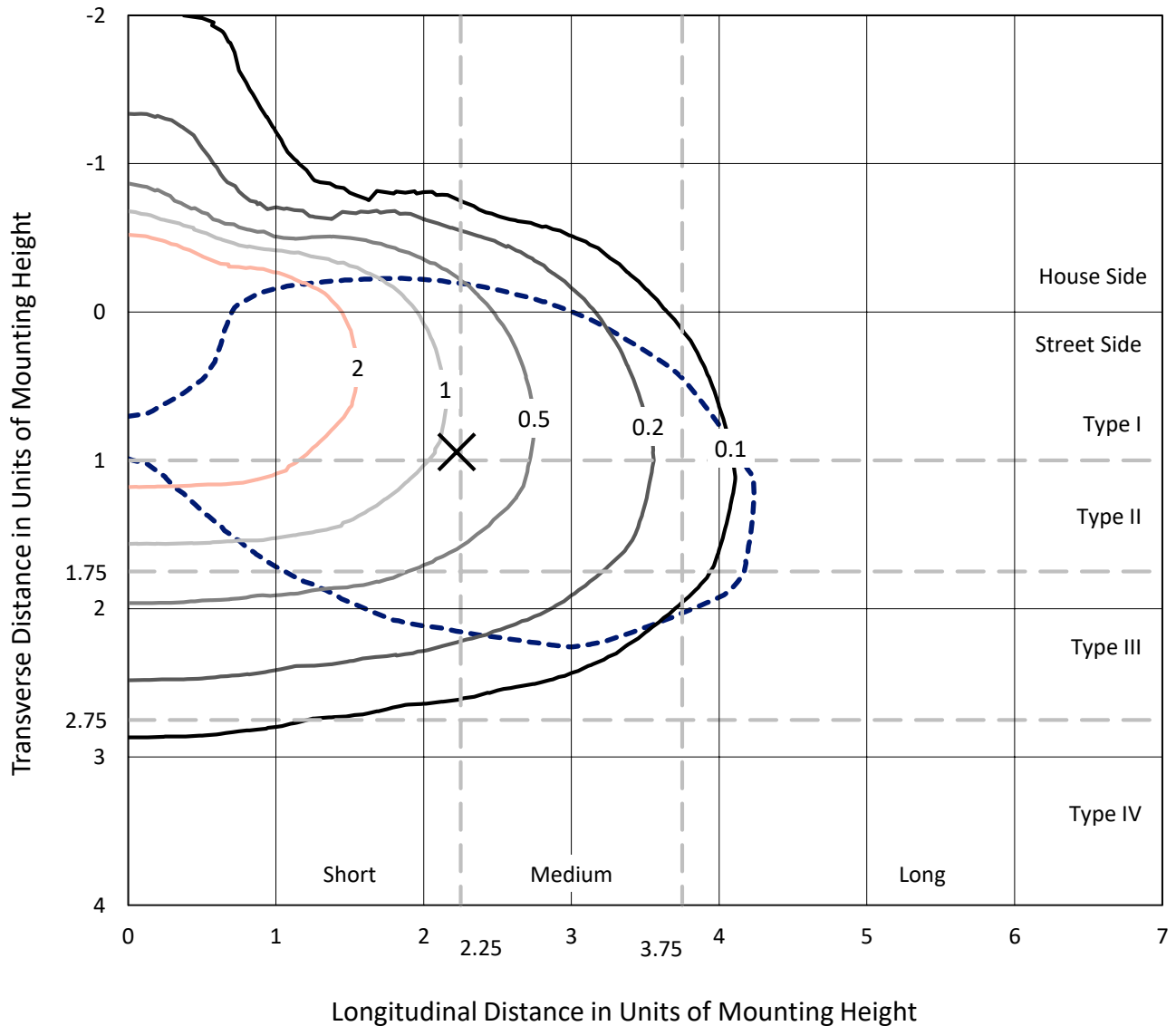
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509191  
 CATALOG NUMBER: VERD-CA2-120-760-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

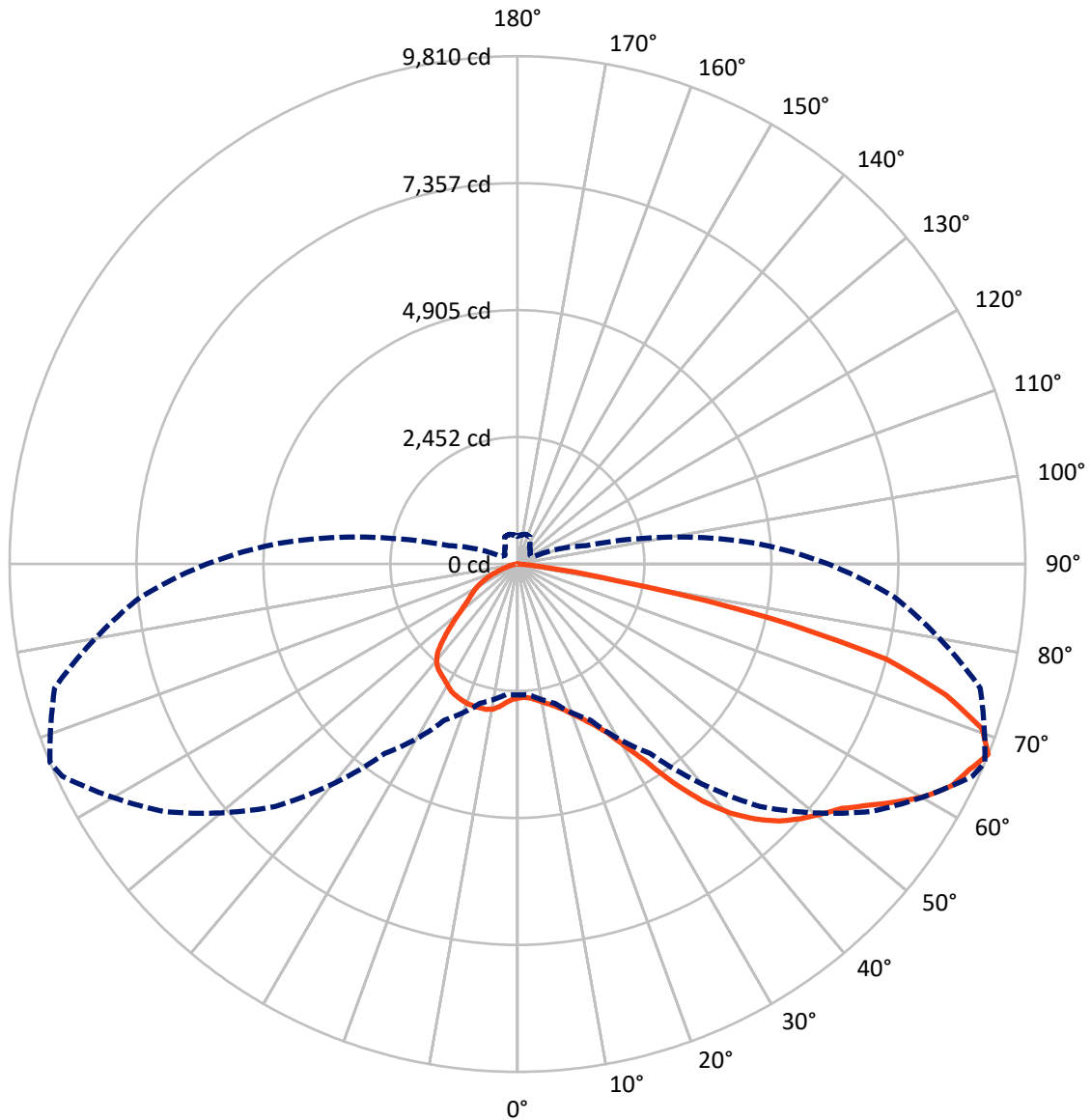
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P509191  
CATALOG NUMBER: VERD-CA2-120-760-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509191

CATALOG NUMBER: VERD-CA2-120-760-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3912.5	0.0	3912.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	13198.5	0.0	13198.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	17111.0	0.0	17111.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.1	1.5
10°-20°	839.0	4.9
20°-30°	1449.7	8.5
30°-40°	2200.5	12.9
40°-50°	2990.1	17.5
50°-60°	3556.2	20.8
60°-70°	3658.8	21.4
70°-80°	1995.9	11.7
80°-90°	158.6	0.9
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°	17111.0	100.0
0°-180°	17111.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509191

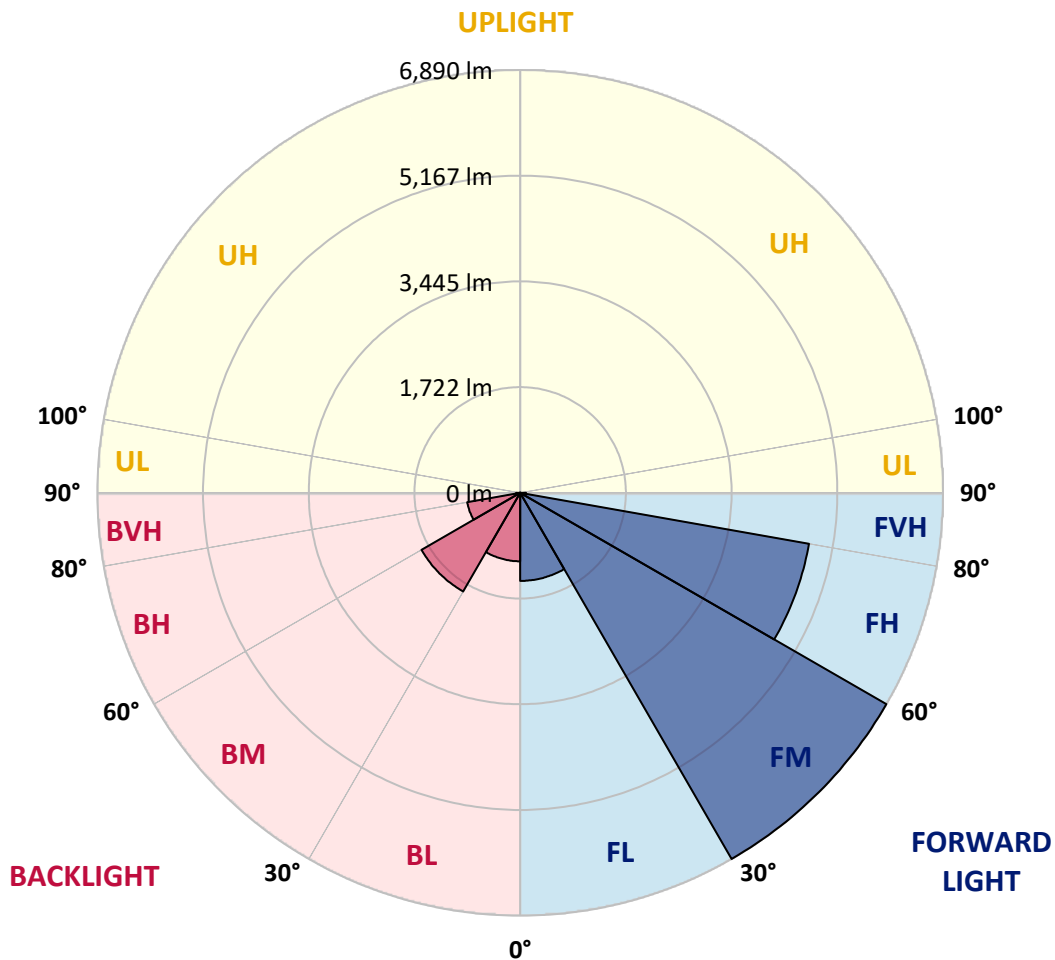
CATALOG NUMBER: VERD-CA2-120-760-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.2	8.4			
FM (30°-60°)	6889.6	40.3			
FH (60°-80°)	4778.8	27.9			G2/5000
FVH (80°-90°)	94.9	0.6			G1/100
BL (0°-30°)	1115.7	6.5	B3/2500		
BM (30°-60°)	1857.2	10.9	B2/2500		
BH (60°-80°)	876.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	63.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





REPORT NUMBER: P509191  
 CATALOG NUMBER: VERD-CA2-120-760-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6
2.5°	2603.4	2592.3	2577.5	2583.1	2571.9	2590.5	2583.1	2579.3	2579.3	2581.2	2590.5
5°	2662.7	2651.6	2640.5	2638.6	2616.4	2623.8	2612.7	2601.6	2601.6	2599.7	2603.4
7.5°	2766.5	2751.7	2738.7	2736.9	2709.1	2705.4	2672.0	2649.8	2649.8	2647.9	2653.5
10°	2903.6	2898.1	2872.1	2855.4	2822.1	2799.9	2759.1	2723.9	2716.5	2705.4	2720.2
12.5°	3035.2	3033.3	3009.2	2990.7	2944.4	2905.5	2838.8	2790.6	2781.3	2768.4	2779.5
15°	3200.1	3183.4	3157.5	3146.4	3079.7	3020.4	2944.4	2872.1	2862.9	2848.0	2857.3
17.5°	3381.7	3372.4	3331.7	3318.7	3235.3	3166.7	3072.2	2979.6	2964.8	2944.4	2942.5
20°	3600.3	3583.7	3552.2	3515.1	3433.6	3335.4	3226.0	3120.4	3107.4	3090.8	3055.6
22.5°	3835.7	3817.1	3785.6	3746.7	3643.0	3539.2	3402.1	3268.7	3261.2	3250.1	3185.3
25°	4059.9	4028.4	4032.1	3995.0	3902.4	3770.8	3609.6	3450.2	3446.5	3444.7	3340.9
27.5°	4298.9	4265.6	4254.4	4241.5	4154.4	4030.2	3848.6	3696.7	3683.7	3685.6	3528.1
30°	4523.1	4508.3	4499.0	4489.8	4447.2	4336.0	4161.8	4026.5	4067.3	4063.6	3846.8
32.5°	4697.3	4686.2	4725.1	4769.6	4758.5	4665.8	4545.4	4484.2	4525.0	4656.5	4467.5
35°	4851.1	4845.5	4919.7	5014.2	5080.9	5014.2	5001.2	5095.7	5190.2	5408.8	5299.5
37.5°	5017.9	5010.5	5073.5	5234.7	5351.4	5371.8	5470.0	5712.7	5803.5	6022.2	5792.4
40°	5016.0	5025.3	5177.2	5382.9	5596.0	5768.3	5970.3	6205.6	6322.4	6426.1	6070.4
42.5°	4934.5	4940.0	5130.9	5521.9	5831.3	6170.4	6350.2	6652.2	6731.9	6752.3	6398.3
45°	4851.1	4854.8	5062.3	5501.5	6027.7	6546.6	6746.7	7022.8	7083.9	7013.5	6620.7
47.5°	4730.7	4754.7	4979.0	5481.1	6196.4	6893.1	7054.3	7328.5	7352.6	7263.7	6806.0
50°	4588.0	4601.0	4858.5	5414.4	6307.5	7108.0	7298.9	7547.2	7593.5	7493.5	7035.8
52.5°	4413.8	4424.9	4704.7	5325.5	6368.7	7272.9	7486.0	7782.5	7845.5	7801.0	7237.7
55°	4213.7	4219.2	4504.6	5180.9	6352.0	7345.2	7649.1	8116.1	8221.7	8112.3	7406.4
57.5°	3963.5	3983.9	4308.2	4964.1	6226.0	7436.0	7943.7	8527.4	8662.7	8429.2	7532.4
60°	3706.0	3726.3	4021.0	4712.1	6014.8	7476.8	8247.6	8970.3	9088.9	8729.4	7610.2
62.5°	3416.9	3444.7	3689.3	4332.3	5636.8	7423.0	8471.8	9357.6	9424.3	8909.1	7589.8
65°	2996.3	3011.1	3277.9	3874.6	5143.9	7143.2	8462.6	9565.1	9587.3	9107.4	7500.9
67.5°	2529.3	2531.2	2783.2	3322.4	4465.7	6620.7	8332.9	9700.4	9809.7	9253.8	7306.3
70°	1923.4	1949.3	2145.8	2546.0	3650.4	5727.6	7904.8	9566.9	9515.1	8853.5	6748.6
72.5°	1373.1	1358.2	1458.3	1728.8	2555.3	4419.4	6815.3	8644.2	8655.3	8064.2	5872.1
75°	730.1	733.8	819.0	1046.9	1304.5	2875.8	5451.5	7302.6	7369.3	6915.3	4595.4
77.5°	163.1	185.3	281.7	400.2	567.0	920.9	2957.4	4790.0	4916.0	4550.9	2518.2
80°	126.0	127.9	185.3	227.9	250.2	441.0	939.5	1738.1	1929.0	1821.5	946.9
82.5°	83.4	85.2	122.3	126.0	120.4	202.0	426.2	520.7	572.6	500.3	352.1
85°	44.5	46.3	55.6	61.1	48.2	59.3	55.6	44.5	46.3	40.8	40.8
87.5°	9.3	5.6	7.4	5.6	5.6	3.7	5.6	5.6	5.6	5.6	5.6
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: P509191  
 CATALOG NUMBER: VERD-CA2-120-760-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6
2.5°	2590.5	2594.2	2603.4	2618.3	2625.7	2642.3	2653.5	2681.3	2720.2	2707.2	2690.5
5°	2605.3	2616.4	2647.9	2686.8	2716.5	2760.9	2783.2	2836.9	2881.4	2877.7	2848.0
7.5°	2660.9	2685.0	2723.9	2781.3	2831.4	2875.8	2907.3	2964.8	3005.5	2988.9	2961.1
10°	2731.3	2755.4	2798.0	2849.9	2886.9	2935.1	2955.5	3001.8	3027.8	3007.4	2983.3
12.5°	2796.1	2809.1	2838.8	2877.7	2898.1	2929.6	2938.8	2972.2	2996.3	2987.0	2957.4
15°	2859.1	2857.3	2862.9	2874.0	2881.4	2888.8	2890.6	2914.7	2931.4	2912.9	2892.5
17.5°	2929.6	2911.0	2886.9	2868.4	2840.6	2827.6	2803.6	2814.7	2812.8	2798.0	2781.3
20°	3018.5	2985.2	2911.0	2853.6	2781.3	2723.9	2673.9	2664.6	2664.6	2623.8	2622.0
22.5°	3124.1	3068.5	2944.4	2818.4	2701.6	2610.8	2518.2	2464.5	2425.6	2395.9	2382.9
25°	3261.2	3159.3	2974.0	2770.2	2597.9	2433.0	2294.0	2219.9	2145.8	2097.6	2090.2
27.5°	3407.6	3296.5	2992.6	2727.6	2455.2	2229.1	2036.4	1884.5	1815.9	1784.4	1754.8
30°	3646.7	3450.2	3025.9	2636.8	2275.5	1979.0	1723.3	1545.4	1478.7	1456.4	1437.9
32.5°	4226.6	3848.6	3057.4	2544.1	2082.7	1702.9	1365.6	1215.6	1158.1	1180.3	1187.8
35°	4953.0	4441.6	3207.5	2436.7	1882.6	1389.7	1050.6	950.6	954.3	987.6	998.8
37.5°	5445.9	4964.1	3513.3	2301.4	1595.4	1030.3	813.5	782.0	809.8	839.4	845.0
40°	5735.0	5203.2	3728.2	2134.6	1256.3	770.8	611.5	589.2	648.5	715.3	756.0
42.5°	6042.6	5407.0	3839.4	1917.8	882.0	557.7	468.8	485.5	580.0	637.4	663.4
45°	6207.5	5566.4	3789.3	1608.4	600.4	433.6	420.6	467.0	561.5	613.3	620.7
47.5°	6385.4	5725.7	3668.9	1286.0	459.5	411.4	413.2	468.8	565.2	620.7	620.7
50°	6539.2	5857.3	3454.0	1008.0	437.3	396.5	415.1	478.1	570.7	618.9	617.0
52.5°	6717.1	5916.6	3148.2	815.3	415.1	383.6	416.9	485.5	561.5	589.2	585.5
55°	6772.6	5873.9	3001.8	681.9	398.4	376.2	424.3	496.6	557.7	563.3	554.0
57.5°	6772.6	5759.1	2835.1	581.8	383.6	376.2	428.0	494.7	578.1	613.3	609.6
60°	6743.0	5638.6	2579.3	520.7	363.2	372.4	429.9	522.5	687.5	726.4	724.5
62.5°	6648.5	5444.1	2264.3	459.5	342.8	374.3	424.3	561.5	785.7	769.0	728.2
65°	6424.3	5077.2	1836.3	403.9	320.6	374.3	416.9	617.0	698.6	667.1	652.2
67.5°	6001.8	4615.8	1365.6	346.5	294.6	350.2	405.8	578.1	593.0	557.7	535.5
70°	5444.1	3909.8	876.5	292.8	266.8	329.8	398.4	542.9	572.6	530.0	502.2
72.5°	4536.1	3105.6	507.7	239.0	226.1	303.9	383.6	526.2	563.3	505.9	467.0
75°	3200.1	1960.5	333.5	176.0	181.6	259.4	355.8	492.9	528.1	457.7	402.1
77.5°	1630.6	735.6	237.2	129.7	122.3	198.3	307.6	454.0	520.7	461.4	394.7
80°	576.3	370.6	155.7	85.2	79.7	122.3	235.3	385.4	489.2	450.3	437.3
82.5°	246.4	185.3	85.2	53.7	48.2	61.1	133.4	303.9	429.9	407.7	492.9
85°	35.2	31.5	24.1	20.4	20.4	27.8	42.6	150.1	290.9	331.7	402.1
87.5°	5.6	5.6	5.6	3.7	3.7	3.7	1.9	22.2	96.4	144.5	200.1
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)