

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: P638361

Luminaire Tested: **IFLD-S-SA2A-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6196.2 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

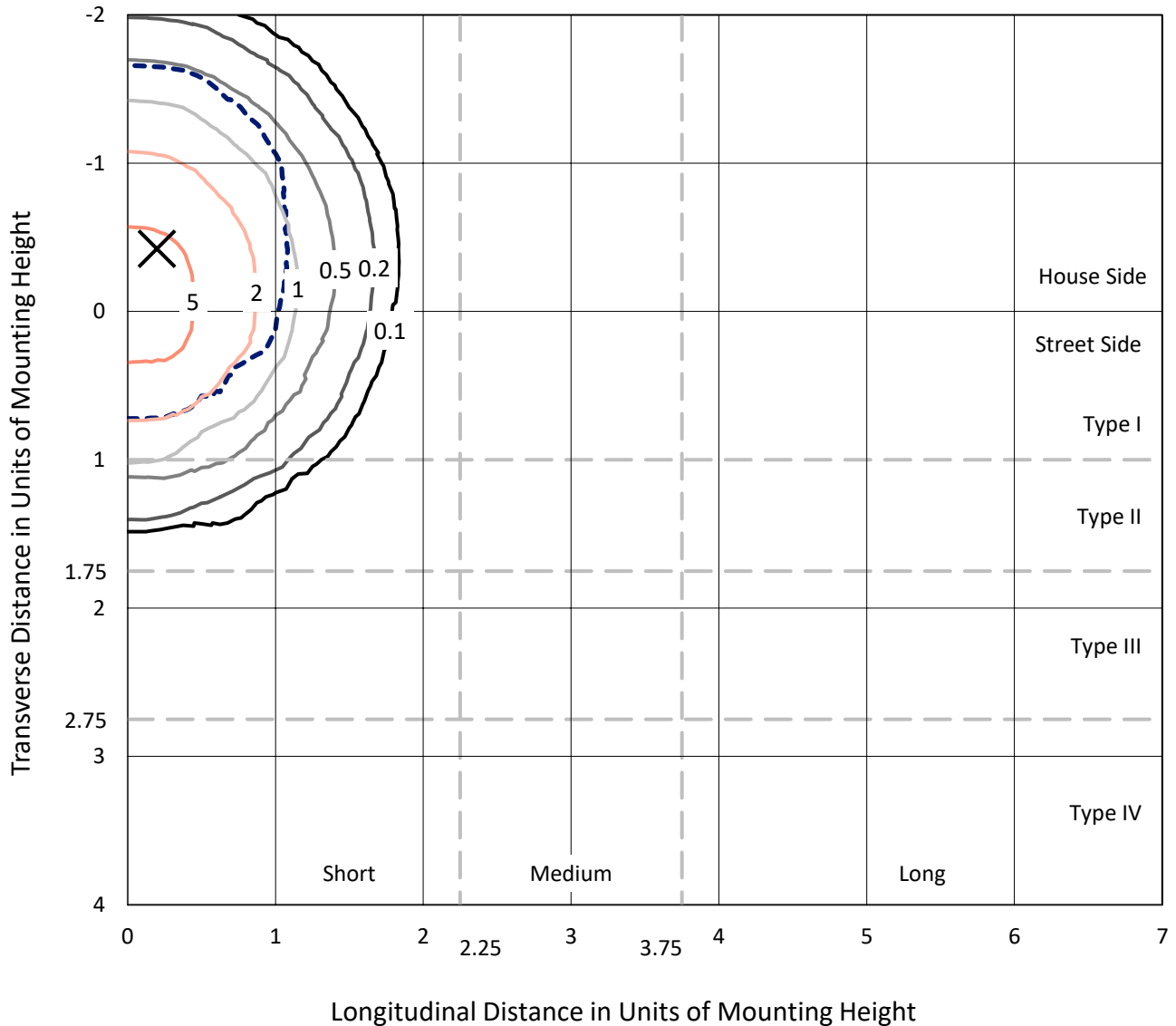
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

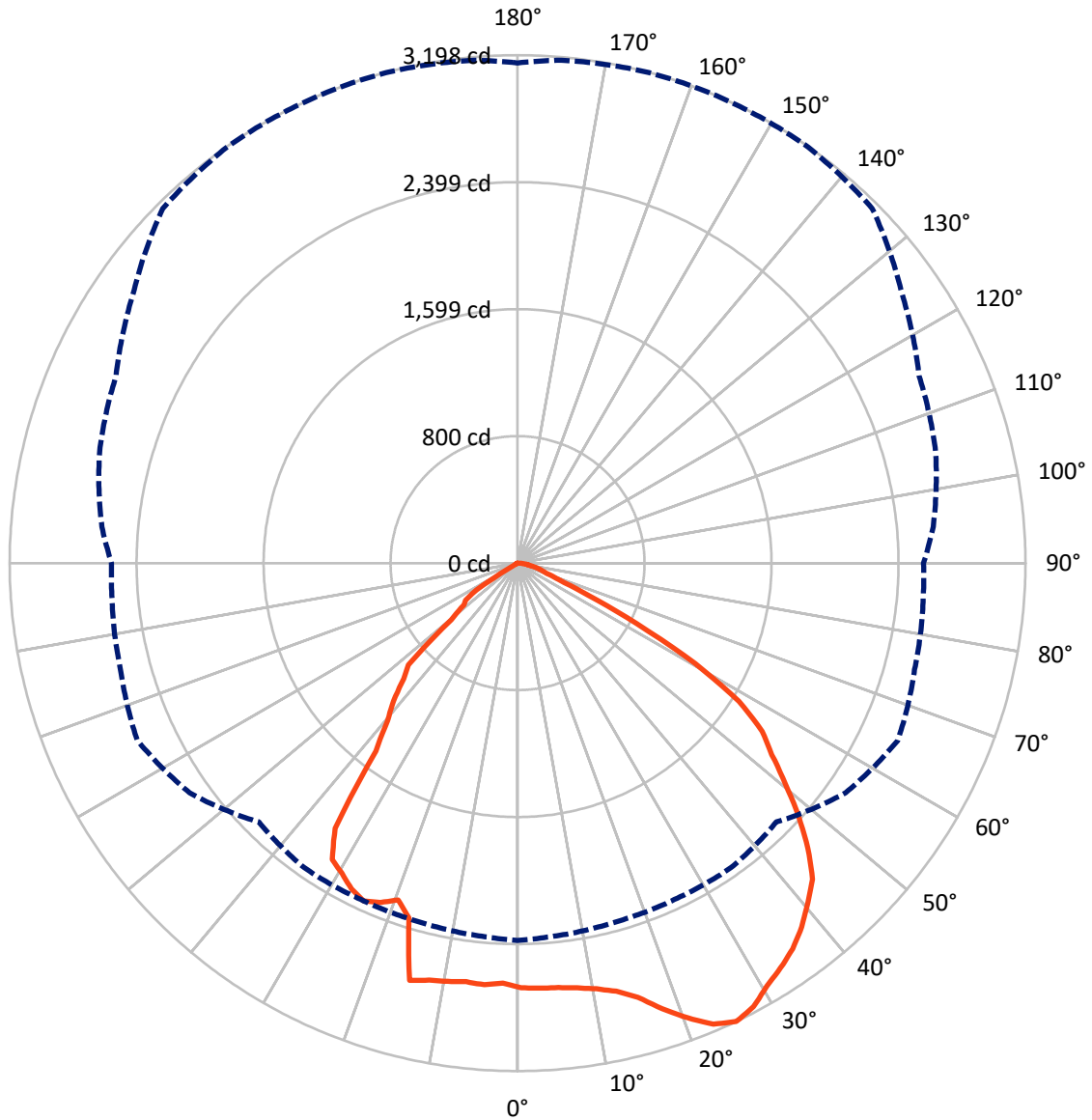
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3836.1	0.0	3836.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2360.1	0.0	2360.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	6196.2	0.0	6196.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	4.1
10°-20°	783.2	12.6
20°-30°	1238.2	20.0
30°-40°	1398.6	22.6
40°-50°	1309.8	21.1
50°-60°	903.0	14.6
60°-70°	242.6	3.9
70°-80°	50.6	0.8
80°-90°	13.7	0.2
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°	6196.2	100.0
0°-180°	6196.2	100.0



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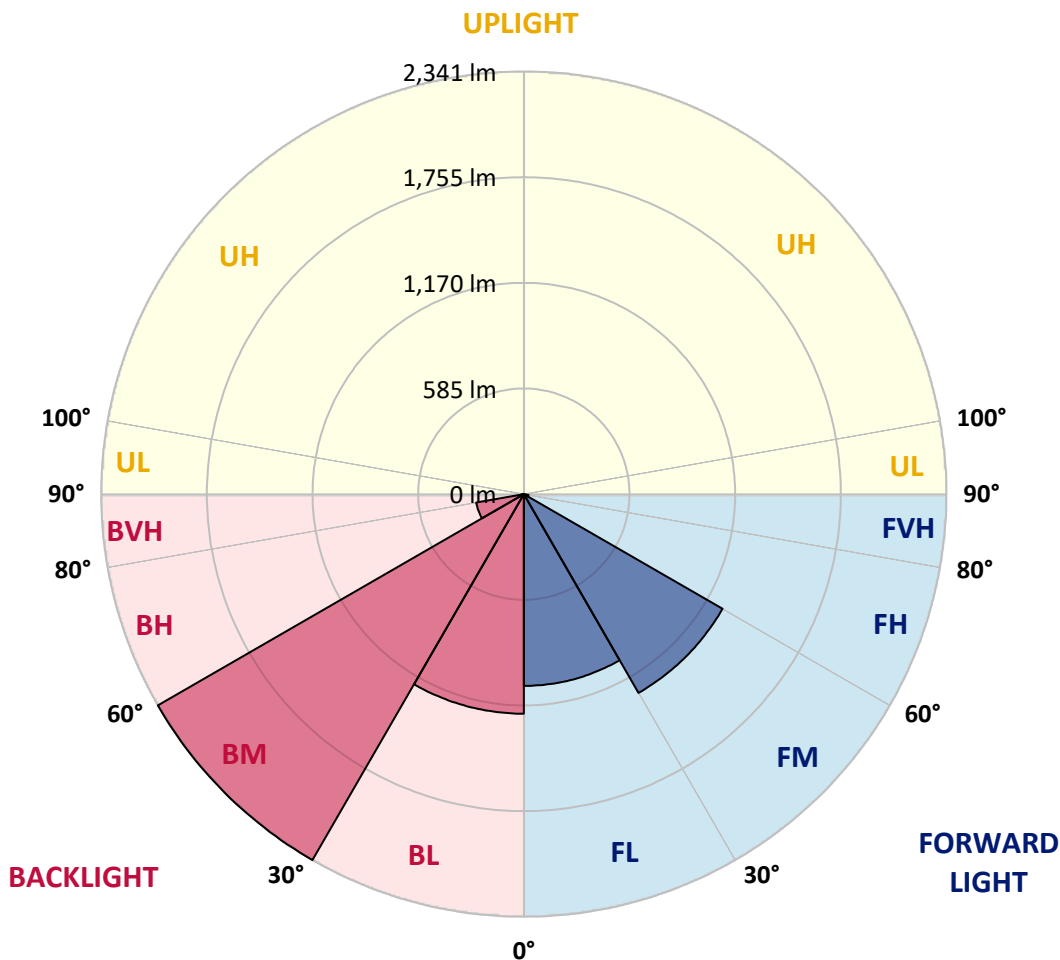
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.8	17.1			
FM (30°-60°)	1271.0	20.5			
FH (60°-80°)	25.5	0.4			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1216.0	19.6	B3/2500		
BM (30°-60°)	2340.5	37.8	B2/2500		
BH (60°-80°)	267.7	4.3	B1/500		G1/500
BVH (80°-90°)	11.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5
2.5°	2685.4	2668.1	2651.7	2646.2	2669.0	2693.6	2678.1	2679.0	2673.5	2683.6
5°	2705.4	2681.7	2670.8	2662.6	2666.2	2691.7	2669.9	2678.1	2669.0	2680.8
7.5°	2698.1	2681.7	2670.8	2655.3	2667.2	2697.2	2676.3	2677.2	2672.6	2683.6
10°	2693.6	2681.7	2668.1	2669.9	2683.6	2709.0	2692.7	2701.8	2695.4	2701.8
12.5°	2704.5	2691.7	2684.5	2684.5	2696.3	2725.4	2717.2	2725.4	2722.7	2728.2
15°	2601.6	2613.4	2682.6	2713.6	2737.3	2766.4	2762.8	2771.0	2772.8	2781.0
17.5°	2194.6	2182.7	2177.3	2336.6	2760.0	2850.2	2847.5	2846.5	2837.4	2831.1
20°	2248.3	2243.7	2237.4	2249.2	2296.5	2893.9	2912.1	2800.1	2767.3	2764.6
22.5°	2333.9	2326.6	2302.9	2303.8	2318.4	2516.0	2822.0	2720.0	2709.0	2702.7
25°	2375.8	2361.2	2342.1	2336.6	2341.2	2304.7	2520.6	2641.7	2587.9	2563.4
27.5°	2302.0	2302.9	2287.4	2302.0	2284.7	2120.8	2028.8	2488.7	2486.9	2475.9
30°	2246.5	2243.7	2225.5	2243.7	2124.4	1941.4	1902.3	2321.1	2302.0	2287.4
32.5°	2076.2	2078.0	2130.8	2201.8	2006.1	1861.3	1742.9	2073.4	2254.7	2246.5
35°	1485.2	1488.8	1676.4	2027.0	1826.7	1701.9	1692.8	1792.1	2180.0	2183.6
37.5°	1429.6	1429.6	1425.1	1482.5	1685.5	1637.3	1655.5	1645.5	1997.0	2006.1
40°	1389.6	1381.4	1375.0	1284.9	1171.9	1591.7	1604.5	1559.0	1887.7	1889.5
42.5°	1341.3	1332.2	1334.0	1167.4	1049.0	1478.8	1443.3	1382.3	1705.6	1707.4
45°	1253.0	1268.5	1279.4	1021.7	1012.6	1056.3	1331.3	1293.1	1582.6	1616.3
47.5°	637.4	651.1	998.9	939.7	960.7	938.8	1124.6	1125.5	1316.7	1428.7
50°	578.2	574.6	575.5	548.2	886.9	759.4	813.2	1031.7	1054.5	1214.7
52.5°	539.1	538.2	482.6	428.9	557.3	668.4	590.1	746.7	784.0	1029.0
55°	398.8	428.0	380.6	403.4	348.8	535.4	532.7	673.8	686.6	825.0
57.5°	3.6	4.6	10.9	306.9	241.3	267.7	367.9	459.9	482.6	642.9
60°	0.9	1.8	4.6	9.1	156.6	164.8	245.9	265.9	299.6	383.4
62.5°	0.0	0.0	1.8	4.6	8.2	67.4	78.3	85.6	132.0	195.8
65°	0.0	0.0	0.9	2.7	4.6	10.9	19.1	40.1	57.4	71.0
67.5°	0.0	0.0	0.9	1.8	3.6	5.5	10.9	15.5	24.6	41.9
70°	0.0	0.0	0.9	1.8	2.7	4.6	7.3	10.9	14.6	20.9
72.5°	0.0	0.0	0.9	1.8	1.8	5.5	5.5	8.2	10.9	13.7
75°	0.0	0.0	0.9	0.9	1.8	3.6	5.5	6.4	7.3	10.9
77.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	7.3	6.4	6.4
80°	0.0	0.0	0.9	2.7	2.7	4.6	5.5	7.3	4.6	4.6
82.5°	0.0	0.0	0.9	3.6	2.7	9.1	9.1	10.0	3.6	3.6
85°	0.0	0.0	2.7	1.8	5.5	9.1	8.2	5.5	4.6	2.7
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	6.4	5.5	1.8	1.8
90°	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°
2673.5	0°	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5	2673.5
2657.1	2.5°	2693.6	2681.7	2706.3	2703.6	2691.7	2686.3	2679.9	2674.4	2634.4
2659.0	5°	2694.5	2676.3	2706.3	2700.9	2699.0	2689.9	2684.5	2692.7	2656.2
2666.2	7.5°	2694.5	2676.3	2709.0	2710.9	2708.1	2700.9	2699.9	2705.4	2675.4
2679.0	10°	2712.7	2705.4	2732.7	2735.5	2731.8	2730.0	2725.4	2721.8	2689.9
2722.7	12.5°	2750.9	2736.4	2767.3	2775.5	2772.8	2777.3	2766.4	2771.9	2739.1
2767.3	15°	2797.4	2798.3	2822.0	2840.2	2838.4	2852.9	2836.5	2851.1	2827.4
2818.3	17.5°	2868.4	2878.4	2912.1	2939.4	2949.4	2960.4	2949.4	2954.0	2920.3
2761.9	20°	2793.7	2831.1	2993.2	3043.2	3064.2	3074.2	3056.0	3061.5	3027.8
2692.7	22.5°	2726.3	2774.6	2918.5	3075.1	3139.8	3159.8	3153.4	3152.5	3139.8
2556.1	25°	2627.1	2724.5	2789.2	2954.9	3158.0	3194.4	3198.0	3197.1	3178.0
2472.3	27.5°	2505.1	2526.9	2694.5	2795.6	3030.5	3168.9	3163.4	3137.0	3111.5
2298.4	30°	2349.4	2448.6	2524.2	2685.4	2865.7	3090.6	3090.6	3070.6	3044.1
2236.4	32.5°	2270.1	2398.5	2468.6	2526.9	2680.8	3003.2	3039.6	3018.7	2997.7
2188.2	35°	2228.2	2247.4	2411.3	2464.1	2594.3	2834.7	2982.2	2961.3	2945.8
2059.8	37.5°	2136.3	2180.9	2257.4	2398.5	2438.6	2697.2	2905.7	2894.8	2876.6
1893.1	40°	1931.4	2050.7	2168.1	2302.0	2343.9	2520.6	2812.9	2817.4	2792.8
1715.6	42.5°	1810.3	1891.3	2075.3	2165.4	2278.3	2406.7	2722.7	2730.0	2712.7
1625.4	45°	1668.2	1758.4	1887.7	2051.6	2205.5	2250.1	2563.4	2639.8	2625.3
1446.0	47.5°	1538.0	1610.9	1769.3	1935.0	2105.3	2098.9	2380.3	2524.2	2504.2
1308.5	50°	1353.2	1480.6	1555.3	1707.4	1961.4	1978.7	2185.4	2388.5	2372.1
1111.8	52.5°	1141.0	1301.3	1444.2	1583.5	1815.7	1856.7	2004.2	2250.1	2239.2
849.6	55°	997.1	1113.7	1274.8	1386.9	1639.1	1748.4	1868.6	2118.1	2112.6
698.4	57.5°	709.4	934.3	1067.2	1223.9	1356.8	1554.4	1643.6	1849.4	1798.4
387.0	60°	480.8	586.4	748.5	917.0	1006.2	1203.8	1286.7	1451.5	1437.8
231.3	62.5°	254.1	351.5	467.1	551.8	616.5	808.6	843.2	1020.8	1016.2
92.9	65°	112.0	148.4	253.1	296.9	363.3	452.6	482.6	546.4	530.9
45.5	67.5°	58.3	88.3	143.0	175.7	221.3	255.0	279.6	299.6	312.3
30.0	70°	35.5	64.7	88.3	122.0	152.1	179.4	198.5	225.8	242.2
15.5	72.5°	26.4	41.0	61.0	93.8	110.2	142.1	161.2	181.2	195.8
12.7	75°	14.6	27.3	49.2	73.8	88.3	115.6	132.9	146.6	151.2
7.3	77.5°	9.1	20.9	41.0	57.4	69.2	93.8	89.2	102.0	112.9
5.5	80°	6.4	15.5	31.9	47.4	48.3	60.1	71.0	82.0	89.2
3.6	82.5°	4.6	12.7	23.7	36.4	31.9	46.4	55.5	63.7	46.4
2.7	85°	3.6	9.1	11.8	21.9	18.2	32.8	28.2	27.3	18.2
1.8	87.5°	2.7	4.6	8.2	10.0	7.3	7.3	9.1	10.9	9.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2673.5
2607.1
2625.3
2640.8
2663.5
2710.0
2788.3
2891.2
3004.1
3098.8
3148.9
3091.5
3034.1
2980.4
2923.9
2858.4
2787.4
2710.9
2627.1
2518.7
2374.9
2246.5
2119.0
1793.0
1438.8
1017.1
524.5
312.3
243.1
198.5
148.4
114.7
90.1
33.7
18.2
9.1
0.0

(END OF REPORT)