

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: P1211578

Luminaire Tested: **ARCH4-50-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

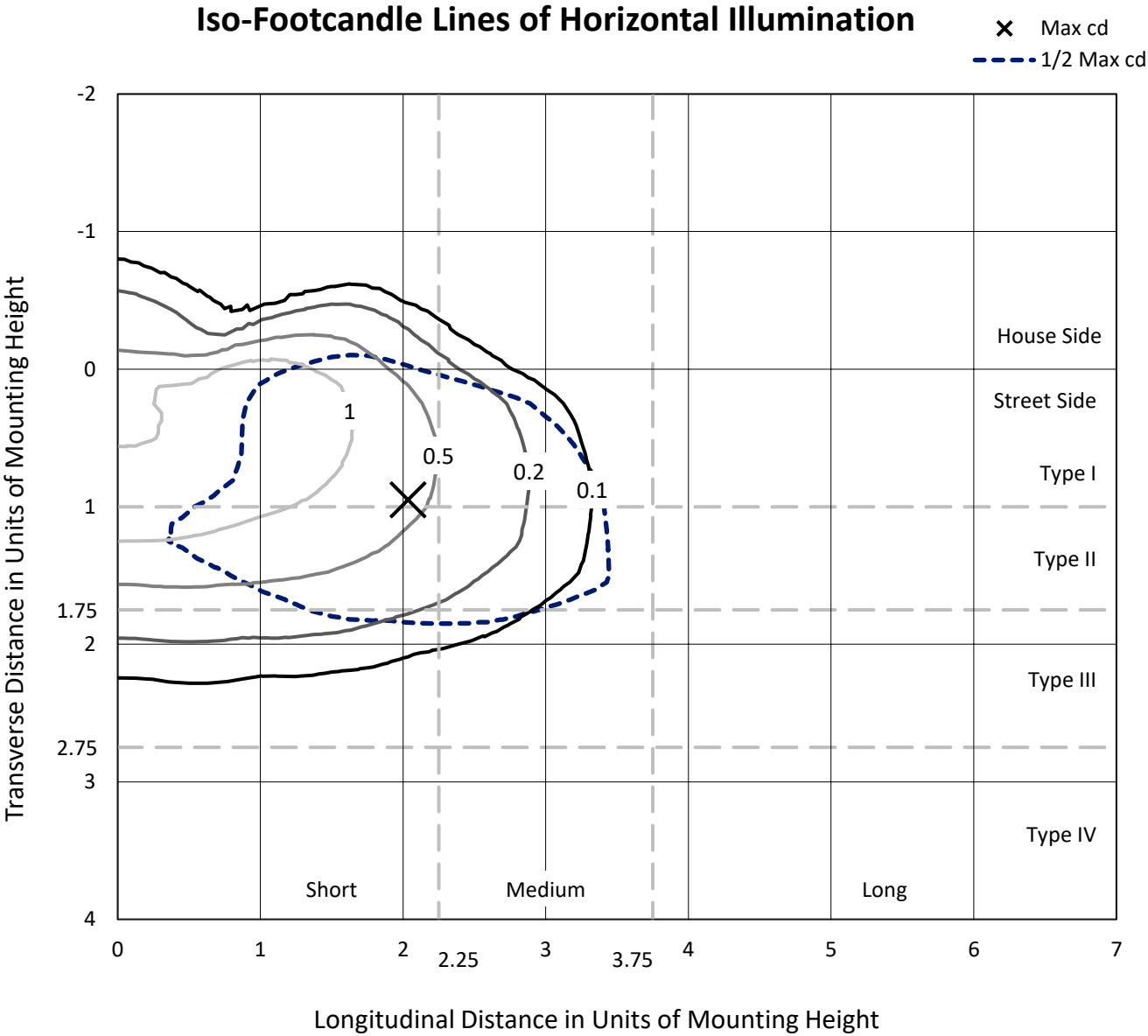
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6195 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.2
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



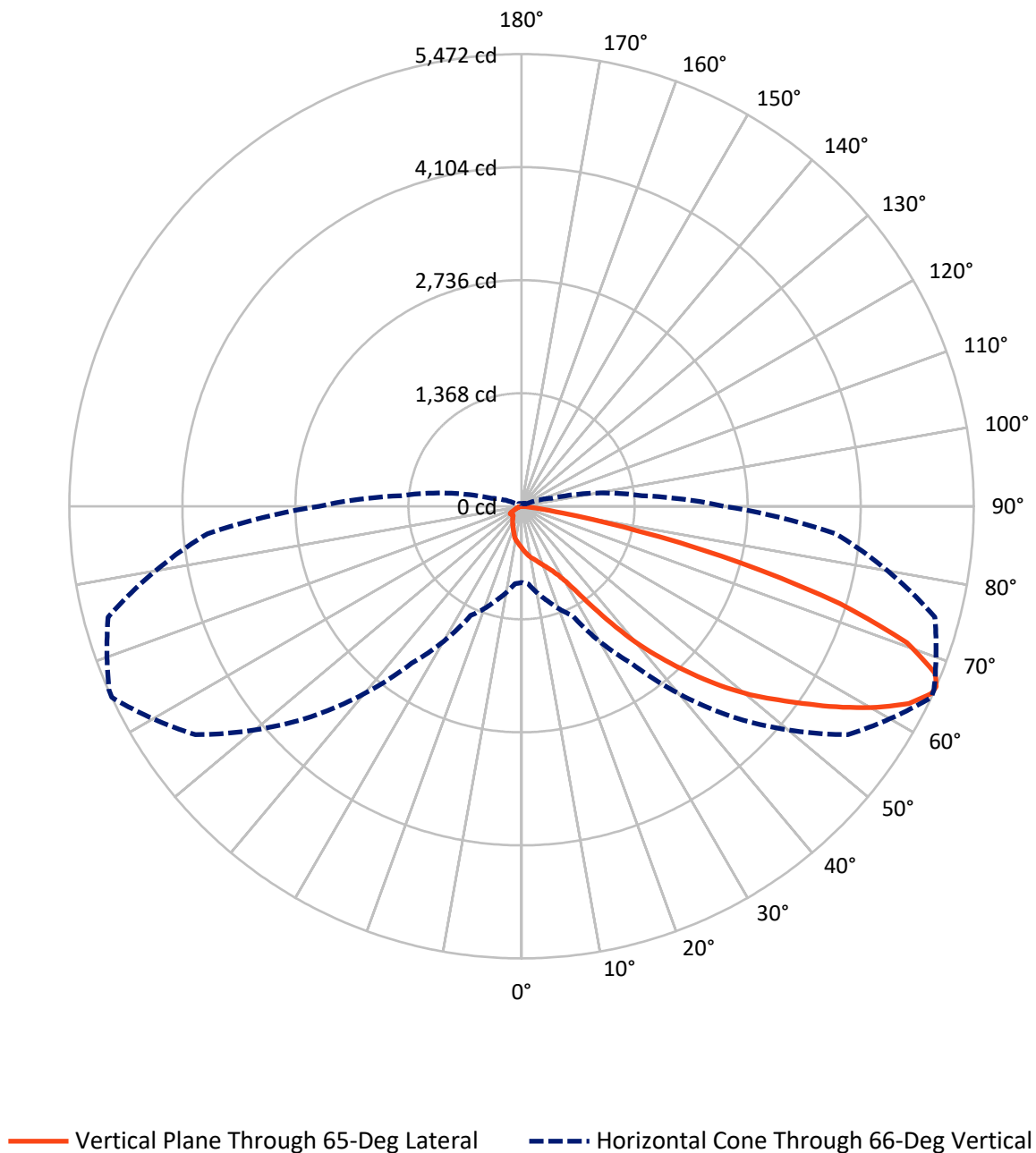
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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.1	0.0	731.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5463.9	0.0	5463.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	6195.0	0.0	6195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	141.6	2.3
20°-30°	259.3	4.2
30°-40°	526.8	8.5
40°-50°	1112.5	18.0
50°-60°	1710.2	27.6
60°-70°	1721.4	27.8
70°-80°	643.2	10.4
80°-90°	32.1	0.5
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°	6195.0	100.0
0°-180°	6195.0	100.0

Coefficient of Utilization



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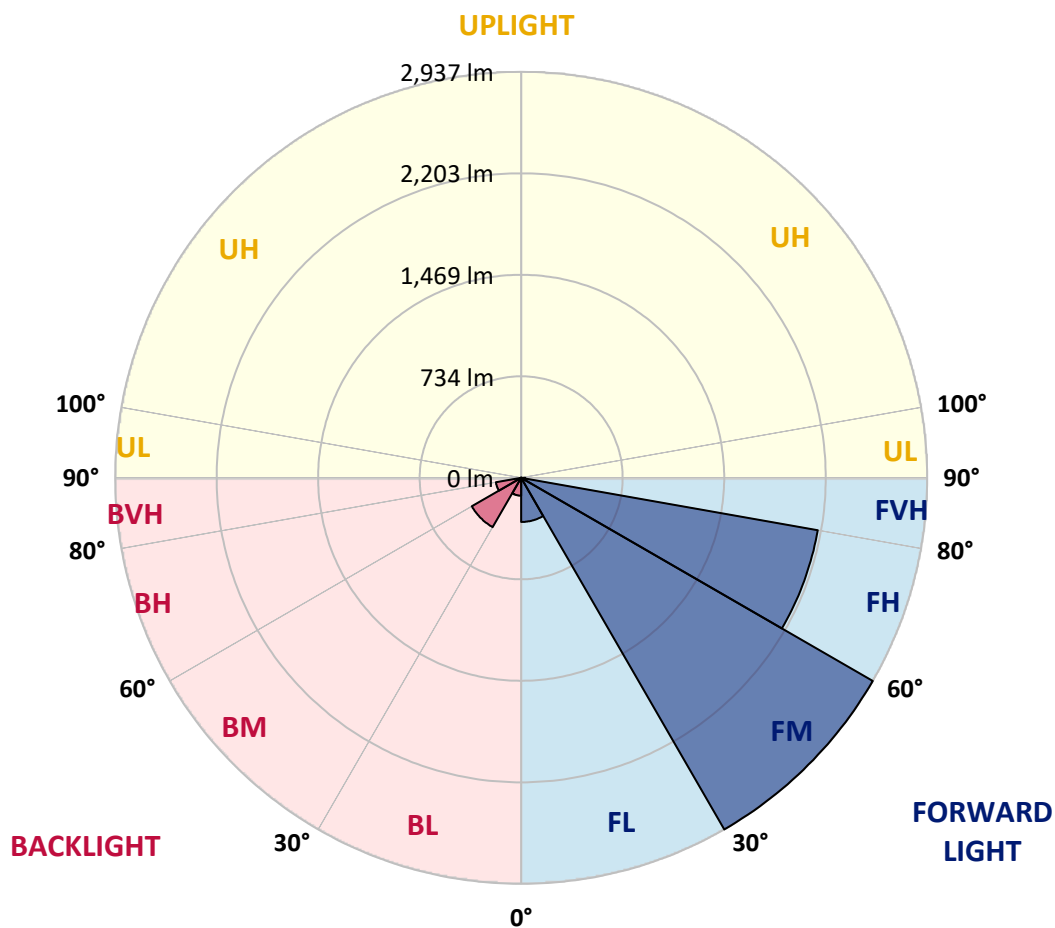
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.3	5.2			
FM	(30°-60°)	2937.2	47.4			
FH	(60°-80°)	2178.9	35.2			G2/5000
FVH	(80°-90°)	28.4	0.5			G1/100
BL	(0°-30°)	129.4	2.1	B1/500		
BM	(30°-60°)	412.2	6.7	B1/1000		
BH	(60°-80°)	185.7	3.0	B1/500		G1/500
BVH	(80°-90°)	3.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
2.5°	575.5	576.7	574.4	569.9	565.4	559.8	550.8	536.2	533.9	523.8	512.6
5°	614.9	617.1	613.8	612.6	610.4	602.5	590.1	568.8	566.5	546.3	520.5
7.5°	628.4	631.7	629.5	629.5	629.5	626.1	620.5	601.4	598.0	572.2	532.8
10°	638.5	640.7	639.6	644.1	647.5	645.2	641.9	630.6	627.2	601.4	549.7
12.5°	654.2	655.3	656.5	658.7	664.3	666.6	665.5	655.3	653.1	635.1	571.0
15°	668.8	668.8	670.0	680.1	687.9	692.4	693.6	685.7	683.4	668.8	598.0
17.5°	682.3	683.4	686.8	698.1	711.6	720.5	726.2	722.8	719.4	708.2	629.5
20°	702.6	704.8	708.2	723.9	737.4	752.0	763.3	762.1	761.0	753.1	666.6
22.5°	737.4	739.7	745.3	759.9	773.4	791.4	810.5	809.3	806.0	800.4	710.4
25°	790.2	790.2	793.6	806.0	822.8	844.2	862.2	865.6	862.2	858.8	765.5
27.5°	856.6	857.7	857.7	871.2	886.9	913.9	936.4	939.7	939.7	936.4	839.7
30°	948.7	945.4	943.1	954.4	971.2	1010.6	1049.9	1056.6	1053.3	1058.9	944.2
32.5°	1107.2	1101.6	1082.5	1084.8	1094.9	1148.8	1215.1	1238.8	1237.6	1247.7	1112.9
35°	1326.4	1315.2	1287.1	1263.5	1262.4	1320.8	1422.0	1510.8	1509.7	1544.5	1369.1
37.5°	1573.7	1588.3	1535.5	1495.0	1482.7	1528.8	1659.2	1851.4	1861.5	1922.2	1705.3
40°	1904.2	1913.2	1845.8	1788.4	1730.0	1746.8	1918.8	2217.8	2235.8	2303.3	2041.4
42.5°	2192.0	2201.0	2161.6	2091.9	2017.7	1986.3	2180.7	2550.6	2565.2	2658.5	2387.6
45°	2387.6	2394.3	2407.8	2414.6	2330.2	2265.0	2501.1	2892.3	2910.3	3018.2	2725.9
47.5°	2540.5	2546.1	2573.1	2640.5	2623.6	2571.9	2827.1	3247.5	3252.0	3372.3	3055.3
50°	2611.3	2624.8	2691.1	2794.5	2868.7	2883.3	3181.2	3583.6	3596.0	3710.6	3366.7
52.5°	2532.6	2537.1	2704.6	2899.0	3048.5	3196.9	3536.4	3895.0	3931.0	4016.4	3646.6
55°	2267.3	2299.9	2553.9	2895.7	3190.2	3494.8	3916.3	4231.1	4263.7	4317.6	3892.7
57.5°	1959.3	1995.3	2304.4	2750.7	3250.9	3770.2	4268.2	4588.6	4611.0	4625.6	4118.7
60°	1692.9	1726.6	2044.7	2473.0	3190.2	3964.7	4595.3	4943.8	4962.9	4923.5	4232.2
62.5°	1365.8	1399.5	1719.9	2105.4	2951.9	4004.0	4838.1	5259.6	5267.5	5160.7	4162.5
65°	1029.7	1052.2	1319.7	1650.2	2534.8	3794.9	4893.2	5456.4	5448.5	5229.3	3953.4
66°	922.9	942.0	1178.1	1459.1	2317.9	3603.8	4819.0	5472.1	5464.2	5178.7	3816.3
67.5°	795.9	801.5	995.9	1193.8	1939.1	3198.0	4593.0	5400.1	5406.9	5039.3	3565.6
70°	621.6	620.5	732.9	830.7	1324.2	2275.2	3830.9	4947.1	4979.7	4513.2	3040.7
72.5°	397.9	384.4	449.6	508.1	771.1	1320.8	2793.4	4032.1	4087.2	3545.4	2265.0
75°	237.2	223.7	239.4	254.0	369.8	635.1	1642.3	2743.9	2796.7	2272.9	1347.8
77.5°	177.6	172.0	173.1	160.7	164.1	238.3	749.8	1450.1	1488.3	930.7	511.5
80°	136.0	121.4	113.5	119.2	107.9	94.4	278.8	499.1	522.7	220.3	106.8
82.5°	91.1	78.7	73.1	79.8	68.6	52.8	67.4	96.7	94.4	59.6	41.6
85°	47.2	40.5	40.5	40.5	34.8	25.9	29.2	39.3	39.3	31.5	24.7
87.5°	13.5	12.4	14.6	13.5	10.1	10.1	11.2	13.5	13.5	12.4	11.2
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°	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
2.5°	503.6	499.1	486.7	477.7	468.7	460.9	451.9	449.6	445.1	446.3	444.0
5°	507.0	494.6	473.2	453.0	437.3	423.8	406.9	400.2	391.2	387.8	385.6
7.5°	511.5	493.5	462.0	433.9	406.9	379.9	353.0	337.2	327.1	322.6	319.2
10°	521.6	498.0	456.4	412.5	366.5	328.2	301.3	290.0	283.3	282.1	281.0
12.5°	535.1	504.7	450.8	385.6	324.9	288.9	272.0	268.7	267.5	267.5	266.4
15°	555.3	516.0	441.8	354.1	292.3	267.5	259.7	254.0	251.8	251.8	251.8
17.5°	575.5	529.4	428.3	321.5	269.8	254.0	246.2	242.8	240.6	241.7	240.6
20°	601.4	545.2	410.3	293.4	255.2	242.8	234.9	231.6	230.4	230.4	230.4
22.5°	630.6	563.2	387.8	272.0	242.8	231.6	223.7	220.3	218.1	219.2	219.2
25°	670.0	585.7	364.2	250.7	230.4	220.3	211.3	206.8	206.8	208.0	209.1
27.5°	720.5	612.6	340.6	237.2	219.2	209.1	199.0	194.5	195.6	197.8	197.8
30°	794.7	649.7	317.0	222.6	206.8	195.6	186.6	182.1	184.4	188.8	188.8
32.5°	900.4	710.4	296.8	205.7	188.8	176.5	167.5	164.1	169.7	178.7	178.7
35°	1089.2	821.7	284.4	188.8	169.7	155.1	143.9	140.5	148.4	159.6	159.6
37.5°	1342.2	1000.4	288.9	174.2	154.0	137.1	124.8	120.3	125.9	136.0	139.4
40°	1624.3	1216.3	328.2	161.9	139.4	122.5	110.2	105.7	109.0	113.5	114.7
42.5°	1906.5	1445.6	402.4	152.9	128.1	110.2	98.9	95.5	97.8	98.9	100.0
45°	2187.5	1672.7	495.7	147.3	118.0	100.0	88.8	88.8	89.9	89.9	89.9
47.5°	2453.9	1894.1	593.5	146.1	109.0	89.9	80.9	82.1	82.1	83.2	83.2
50°	2705.7	2091.9	692.4	149.5	101.2	80.9	74.2	74.2	74.2	75.3	74.2
52.5°	2915.9	2265.0	795.9	155.1	93.3	74.2	67.4	67.4	67.4	68.6	67.4
55°	3114.9	2422.4	901.5	163.0	86.6	68.6	61.8	59.6	59.6	60.7	59.6
57.5°	3276.7	2527.0	1001.6	164.1	80.9	62.9	57.3	54.0	54.0	54.0	54.0
60°	3283.5	2466.3	1030.8	143.9	74.2	57.3	51.7	47.2	48.3	48.3	48.3
62.5°	3068.8	2147.0	828.5	107.9	66.3	51.7	47.2	42.7	42.7	42.7	42.7
65°	2647.2	1670.4	485.6	85.4	57.3	46.1	41.6	38.2	38.2	38.2	37.1
66°	2449.4	1464.7	372.1	77.6	54.0	45.0	40.5	37.1	36.0	34.8	34.8
67.5°	2126.8	1157.8	232.7	68.6	49.5	41.6	37.1	33.7	32.6	31.5	31.5
70°	1601.8	735.2	113.5	52.8	42.7	36.0	32.6	29.2	28.1	27.0	25.9
72.5°	1124.1	430.5	59.6	40.5	34.8	31.5	28.1	24.7	23.6	22.5	22.5
75°	635.1	208.0	39.3	29.2	28.1	25.9	23.6	20.2	19.1	19.1	19.1
77.5°	240.6	71.9	27.0	21.4	22.5	20.2	16.9	16.9	15.7	16.9	15.7
80°	62.9	31.5	16.9	15.7	16.9	14.6	12.4	13.5	13.5	13.5	13.5
82.5°	33.7	18.0	10.1	11.2	10.1	10.1	7.9	9.0	10.1	9.0	10.1
85°	23.6	9.0	5.6	5.6	4.5	4.5	3.4	4.5	5.6	4.5	4.5
87.5°	12.4	3.4	3.4	3.4	3.4	2.2	1.1	0.0	1.1	1.1	1.1
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)