

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: P1211658

Luminaire Tested: **ARCH4-70-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211658
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: ARCH4-70-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA 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: 9267 lumens
Efficiency: N/A
Efficacy: 125.6 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): 73.8
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

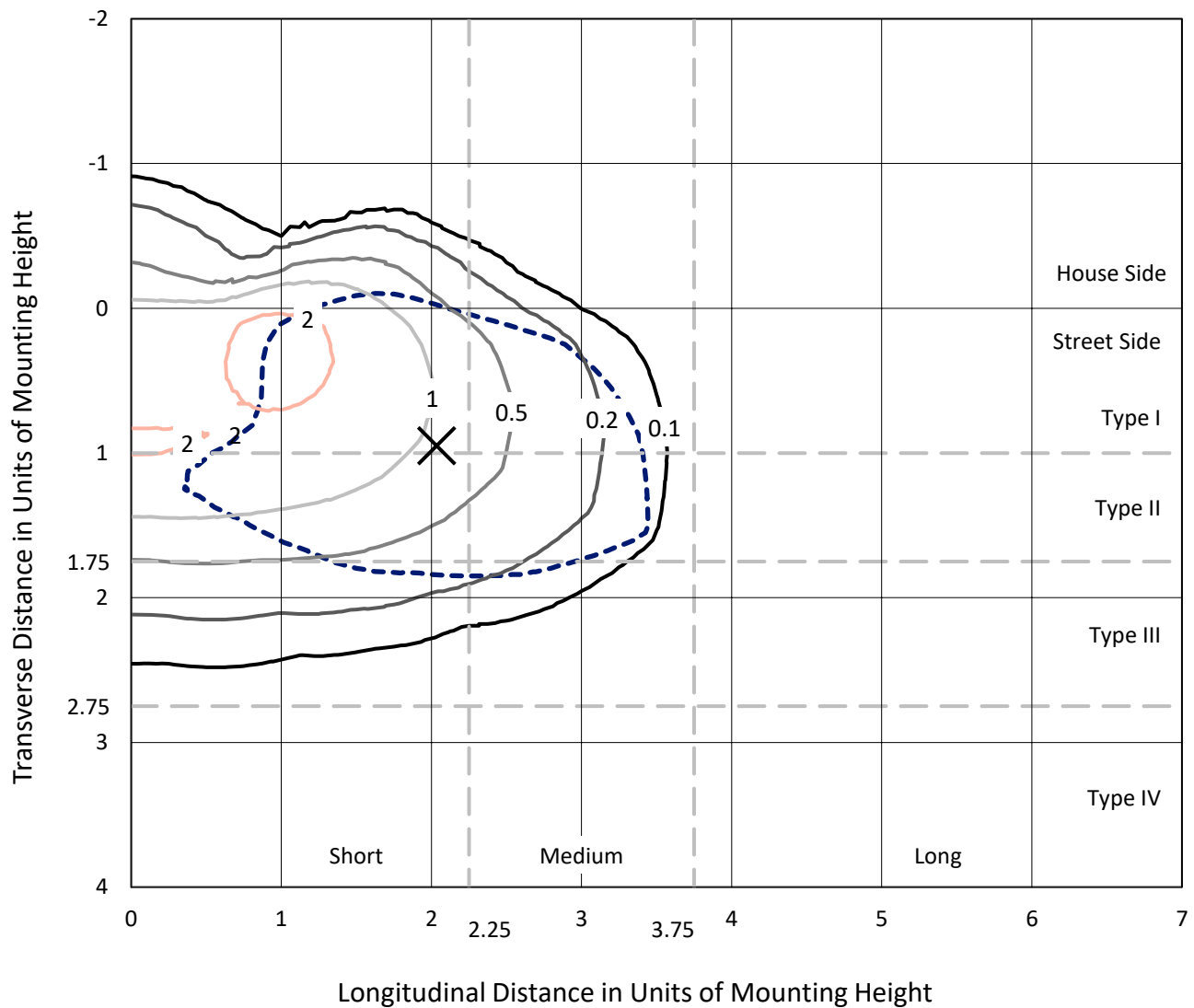


REPORT NUMBER: P1211658

CATALOG NUMBER: ARCH4-70-750-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

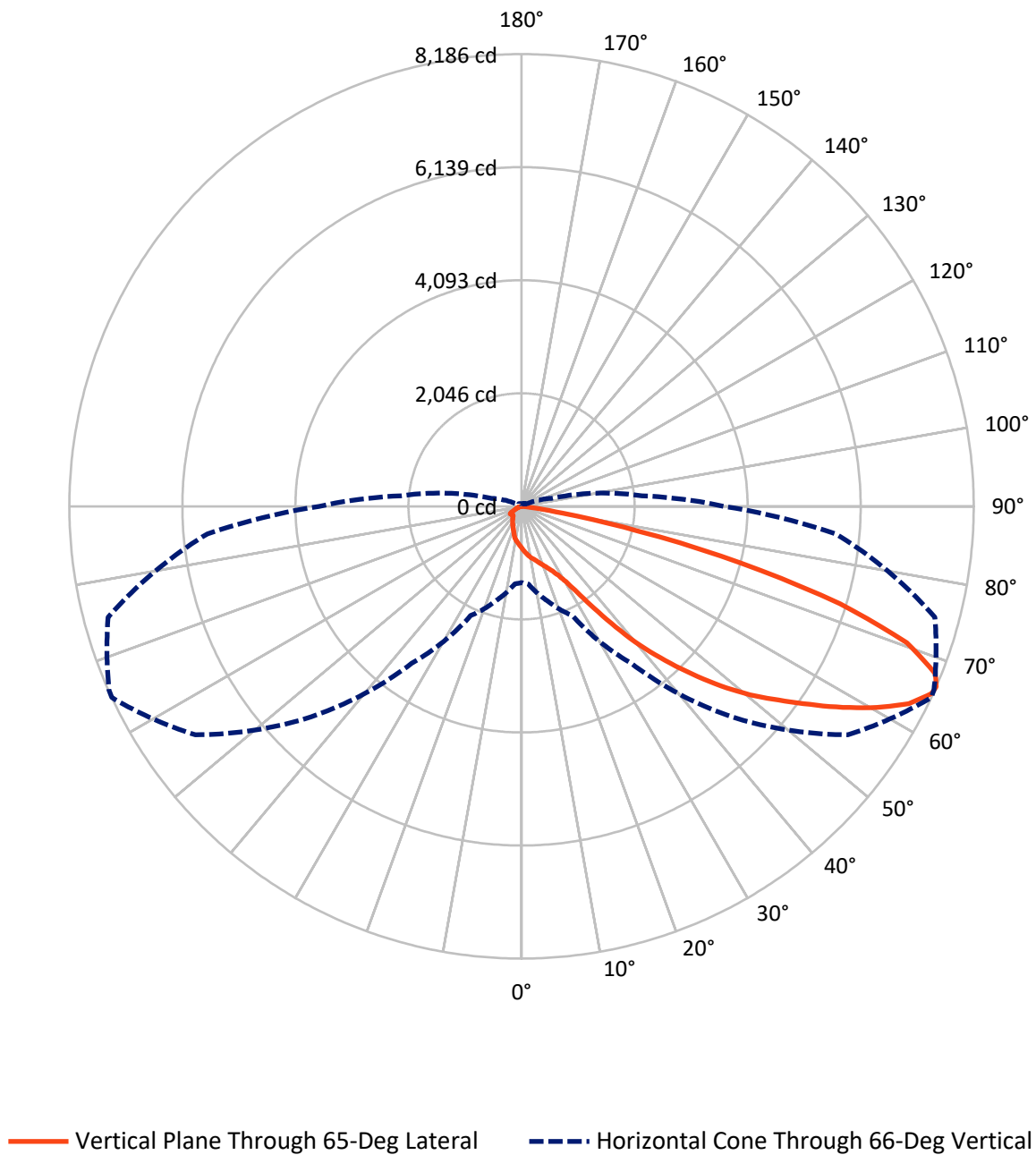
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

REPORT NUMBER: P1211658
CATALOG NUMBER: ARCH4-70-750-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211658

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.7	0.0	1093.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8173.3	0.0	8173.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	9267.0	0.0	9267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	0.8
10°-20°	211.9	2.3
20°-30°	387.8	4.2
30°-40°	788.0	8.5
40°-50°	1664.1	18.0
50°-60°	2558.3	27.6
60°-70°	2575.1	27.8
70°-80°	962.2	10.4
80°-90°	48.1	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°	9267.0	100.0
0°-180°	9267.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211658

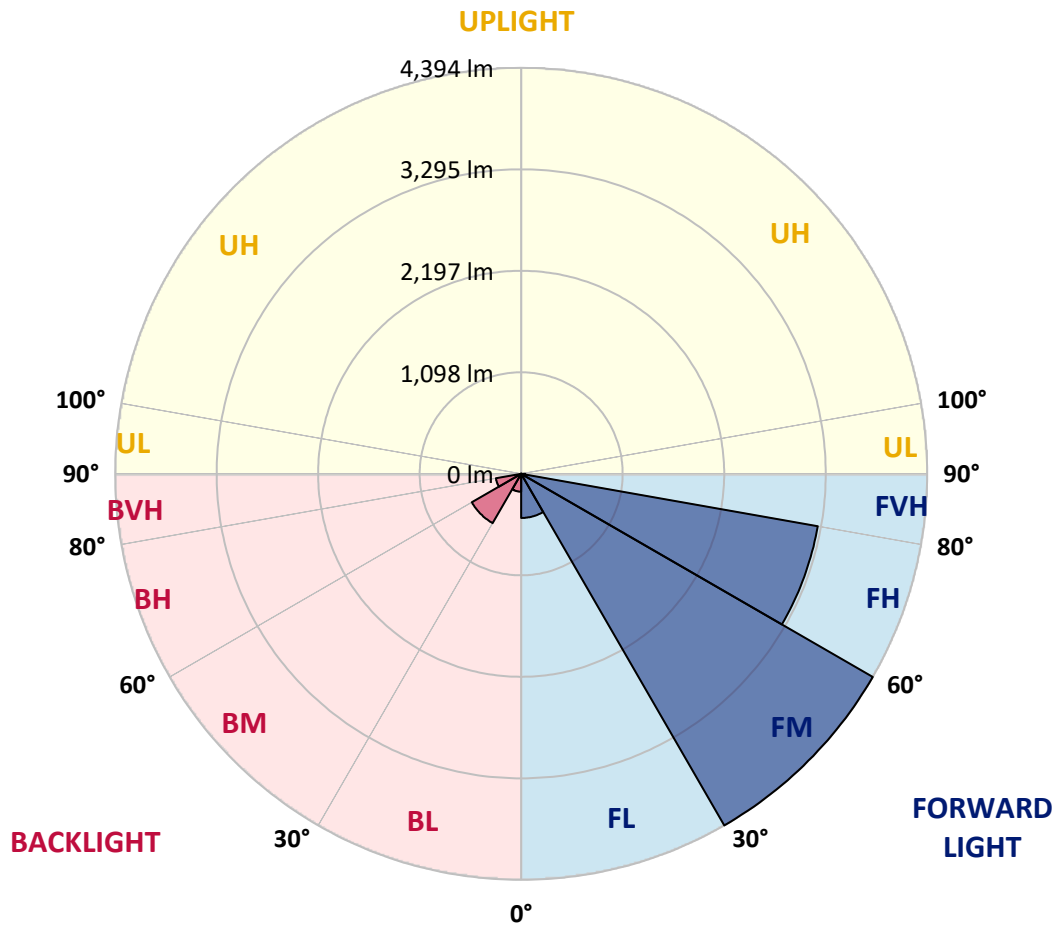
CATALOG NUMBER: ARCH4-70-750-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.7	5.2			
FM	(30°-60°)	4393.8	47.4			
FH	(60°-80°)	3259.4	35.2			G2/5000
FVH	(80°-90°)	42.4	0.5			G1/100
BL	(0°-30°)	193.6	2.1	B1/500		
BM	(30°-60°)	616.6	6.7	B1/1000		
BH	(60°-80°)	277.8	3.0	B1/500		G1/500
BVH	(80°-90°)	5.6	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



REPORT NUMBER: P1211658

CATALOG NUMBER: ARCH4-70-750-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
2.5°	860.9	862.6	859.3	852.5	845.8	837.4	823.9	802.1	798.7	783.6	766.8
5°	919.8	923.2	918.1	916.4	913.1	901.3	882.8	850.8	847.5	817.2	778.5
7.5°	940.0	945.0	941.6	941.6	941.6	936.6	928.2	899.6	894.6	855.9	797.0
10°	955.1	958.5	956.8	963.5	968.6	965.2	960.1	943.3	938.3	899.6	822.3
12.5°	978.6	980.3	982.0	985.4	993.8	997.1	995.5	980.3	977.0	950.1	854.2
15°	1000.5	1000.5	1002.2	1017.3	1029.1	1035.8	1037.5	1025.7	1022.4	1000.5	894.6
17.5°	1020.7	1022.4	1027.4	1044.2	1064.4	1077.9	1086.3	1081.2	1076.2	1059.4	941.6
20°	1050.9	1054.3	1059.4	1082.9	1103.1	1124.9	1141.7	1140.1	1138.4	1126.6	997.1
22.5°	1103.1	1106.4	1114.8	1136.7	1156.9	1183.8	1212.4	1210.7	1205.6	1197.2	1062.7
25°	1182.1	1182.1	1187.1	1205.6	1230.9	1262.8	1289.7	1294.8	1289.7	1284.7	1145.1
27.5°	1281.3	1283.0	1283.0	1303.2	1326.7	1367.1	1400.7	1405.7	1405.7	1400.7	1256.1
30°	1419.2	1414.2	1410.8	1427.6	1452.8	1511.7	1570.5	1580.6	1575.6	1584.0	1412.5
32.5°	1656.3	1647.9	1619.3	1622.7	1637.8	1718.5	1817.7	1853.0	1851.3	1866.5	1664.7
35°	1984.2	1967.4	1925.3	1890.0	1888.3	1975.8	2127.1	2260.0	2258.3	2310.4	2048.1
37.5°	2354.1	2376.0	2296.9	2236.4	2217.9	2286.9	2481.9	2769.5	2784.6	2875.4	2550.9
40°	2848.5	2861.9	2761.0	2675.3	2587.8	2613.1	2870.3	3317.6	3344.5	3445.4	3053.6
42.5°	3279.0	3292.4	3233.6	3129.3	3018.3	2971.2	3262.1	3815.4	3837.2	3976.8	3571.5
45°	3571.5	3581.6	3601.8	3611.9	3485.8	3388.3	3741.4	4326.5	4353.4	4514.9	4077.7
47.5°	3800.2	3808.6	3849.0	3949.9	3924.7	3847.3	4229.0	4857.9	4864.6	5044.5	4570.4
50°	3906.2	3926.3	4025.5	4180.2	4291.2	4313.1	4758.7	5360.7	5379.2	5550.7	5036.1
52.5°	3788.5	3795.2	4045.7	4336.6	4560.3	4782.2	5290.0	5826.4	5880.3	6008.0	5454.8
55°	3391.6	3440.4	3820.4	4331.6	4772.1	5227.8	5858.4	6329.2	6378.0	6458.7	5823.1
57.5°	2930.9	2984.7	3447.1	4114.7	4862.9	5639.8	6384.7	6863.9	6897.6	6919.4	6161.1
60°	2532.4	2582.8	3058.7	3699.3	4772.1	5930.7	6874.0	7395.3	7423.9	7365.0	6330.9
62.5°	2043.0	2093.5	2572.7	3149.5	4415.7	5989.6	7237.2	7867.8	7879.6	7719.8	6226.6
65°	1540.3	1573.9	1974.1	2468.5	3791.8	5676.8	7319.6	8162.1	8150.3	7822.4	5913.9
66°	1380.5	1409.1	1762.2	2182.6	3467.3	5390.9	7208.7	8185.6	8173.8	7746.7	5708.7
67.5°	1190.5	1198.9	1489.8	1785.8	2900.6	4783.9	6870.7	8078.0	8088.1	7538.2	5333.8
70°	929.9	928.2	1096.3	1242.6	1980.8	3403.4	5730.6	7400.3	7449.1	6751.3	4548.5
72.5°	595.3	575.1	672.6	760.0	1153.5	1975.8	4178.6	6031.6	6114.0	5303.5	3388.3
75°	354.8	334.6	358.2	380.0	553.2	950.1	2456.7	4104.6	4183.6	3400.0	2016.1
77.5°	265.7	257.3	259.0	240.5	245.5	356.5	1121.6	2169.2	2226.3	1392.3	765.1
80°	203.5	181.6	169.8	178.2	161.4	141.2	417.0	746.6	781.9	329.6	159.7
82.5°	136.2	117.7	109.3	119.4	102.6	79.0	100.9	144.6	141.2	89.1	62.2
85°	70.6	60.5	60.5	60.5	52.1	38.7	43.7	58.9	58.9	47.1	37.0
87.5°	20.2	18.5	21.9	20.2	15.1	15.1	16.8	20.2	20.2	18.5	16.8
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: P1211658

CATALOG NUMBER: ARCH4-70-750-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
2.5°	753.3	746.6	728.1	714.6	701.2	689.4	676.0	672.6	665.9	667.6	664.2
5°	758.4	739.9	707.9	677.7	654.1	633.9	608.7	598.6	585.2	580.1	576.8
7.5°	765.1	738.2	691.1	649.1	608.7	568.4	528.0	504.5	489.3	482.6	477.5
10°	780.2	744.9	682.7	617.1	548.2	491.0	450.6	433.8	423.7	422.1	420.4
12.5°	800.4	755.0	674.3	576.8	486.0	432.1	406.9	401.9	400.2	400.2	398.5
15°	830.7	771.8	660.8	529.7	437.2	400.2	388.4	380.0	376.7	376.7	376.7
17.5°	860.9	792.0	640.7	480.9	403.6	380.0	368.3	363.2	359.8	361.5	359.8
20°	899.6	815.5	613.8	438.9	381.7	363.2	351.4	346.4	344.7	344.7	344.7
22.5°	943.3	842.4	580.1	406.9	363.2	346.4	334.6	329.6	326.2	327.9	327.9
25°	1002.2	876.1	544.8	375.0	344.7	329.6	316.1	309.4	309.4	311.1	312.8
27.5°	1077.9	916.4	509.5	354.8	327.9	312.8	297.6	290.9	292.6	295.9	295.9
30°	1188.8	971.9	474.2	332.9	309.4	292.6	279.1	272.4	275.8	282.5	282.5
32.5°	1346.9	1062.7	443.9	307.7	282.5	264.0	250.5	245.5	253.9	267.4	267.4
35°	1629.4	1229.2	425.4	282.5	253.9	232.0	215.2	210.2	222.0	238.8	238.8
37.5°	2007.7	1496.5	432.1	260.6	230.4	205.1	186.6	179.9	188.3	203.5	208.5
40°	2429.8	1819.4	491.0	242.1	208.5	183.3	164.8	158.1	163.1	169.8	171.5
42.5°	2851.8	2162.4	602.0	228.7	191.7	164.8	148.0	142.9	146.3	148.0	149.7
45°	3272.2	2502.1	741.5	220.3	176.6	149.7	132.8	132.8	134.5	134.5	134.5
47.5°	3670.7	2833.4	887.8	218.6	163.1	134.5	121.1	122.8	122.8	124.4	124.4
50°	4047.4	3129.3	1035.8	223.6	151.3	121.1	111.0	111.0	111.0	112.7	111.0
52.5°	4361.8	3388.3	1190.5	232.0	139.6	111.0	100.9	100.9	100.9	102.6	100.9
55°	4659.5	3623.7	1348.6	243.8	129.5	102.6	92.5	89.1	89.1	90.8	89.1
57.5°	4901.6	3780.0	1498.2	245.5	121.1	94.2	85.8	80.7	80.7	80.7	80.7
60°	4911.7	3689.2	1541.9	215.2	111.0	85.8	77.3	70.6	72.3	72.3	72.3
62.5°	4590.5	3211.7	1239.3	161.4	99.2	77.3	70.6	63.9	63.9	63.9	63.9
65°	3960.0	2498.7	726.4	127.8	85.8	68.9	62.2	57.2	57.2	57.2	55.5
66°	3664.0	2191.0	556.6	116.0	80.7	67.3	60.5	55.5	53.8	52.1	52.1
67.5°	3181.4	1732.0	348.1	102.6	74.0	62.2	55.5	50.4	48.8	47.1	47.1
70°	2396.2	1099.7	169.8	79.0	63.9	53.8	48.8	43.7	42.0	40.4	38.7
72.5°	1681.5	644.0	89.1	60.5	52.1	47.1	42.0	37.0	35.3	33.6	33.6
75°	950.1	311.1	58.9	43.7	42.0	38.7	35.3	30.3	28.6	28.6	28.6
77.5°	359.8	107.6	40.4	31.9	33.6	30.3	25.2	25.2	23.5	25.2	23.5
80°	94.2	47.1	25.2	23.5	25.2	21.9	18.5	20.2	20.2	20.2	20.2
82.5°	50.4	26.9	15.1	16.8	15.1	15.1	11.8	13.5	15.1	13.5	15.1
85°	35.3	13.5	8.4	8.4	6.7	6.7	5.0	6.7	8.4	6.7	6.7
87.5°	18.5	5.0	5.0	5.0	5.0	3.4	1.7	0.0	1.7	1.7	1.7
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)