

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: P1211482

Luminaire Tested: **ARCH4-290-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211482
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: ARCH4-290-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA 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: 27152 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 289.7
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

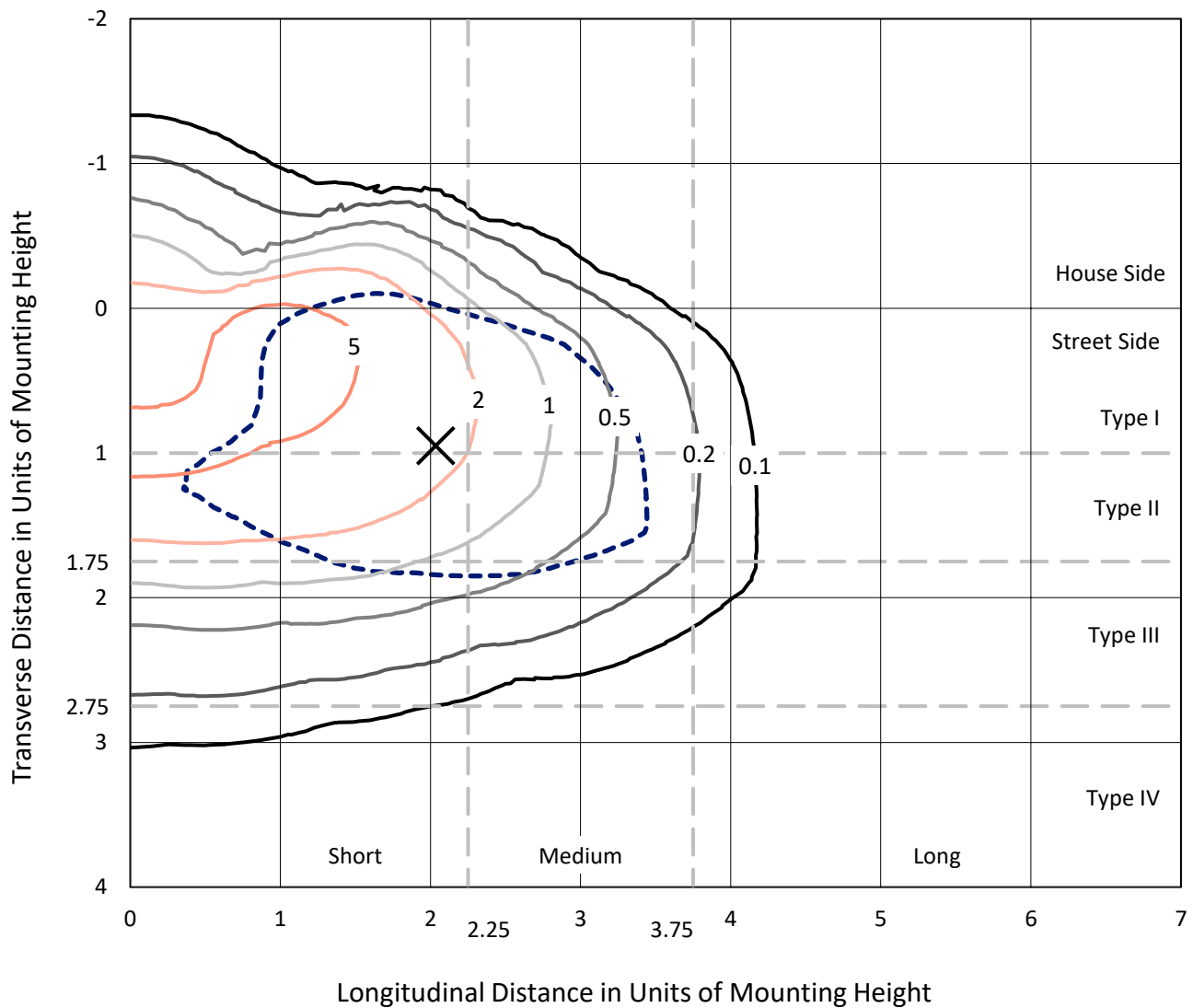


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Iso-Footcandle Lines of Horizontal Illumination

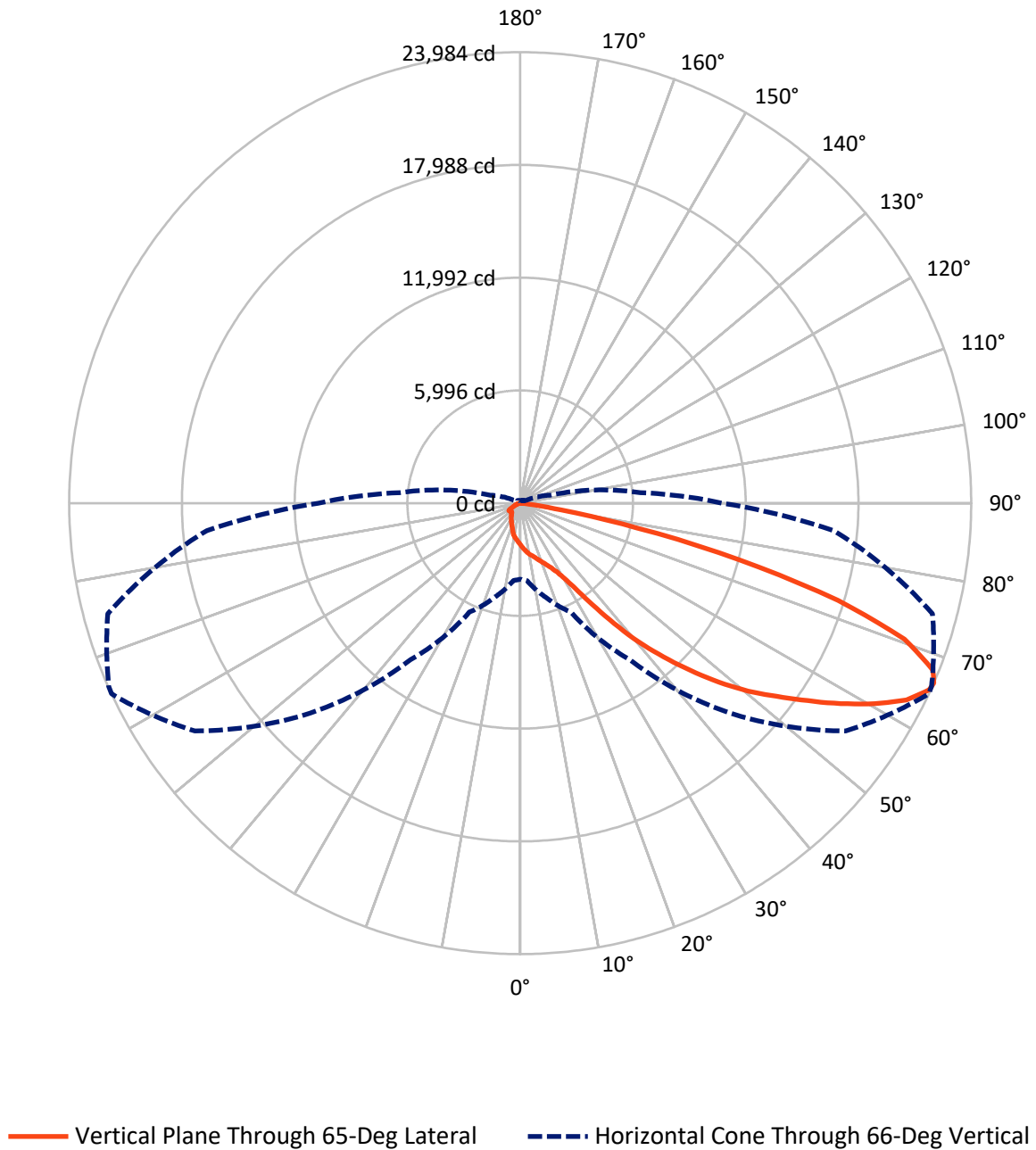
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3204.5	0.0	3204.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23947.5	0.0	23947.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	27152.0	0.0	27152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	0.8
10°-20°	620.8	2.3
20°-30°	1136.3	4.2
30°-40°	2308.9	8.5
40°-50°	4875.8	18.0
50°-60°	7495.6	27.6
60°-70°	7544.9	27.8
70°-80°	2819.2	10.4
80°-90°	140.8	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°	27152.0	100.0
0°-180°	27152.0	100.0

Coefficient of Utilization



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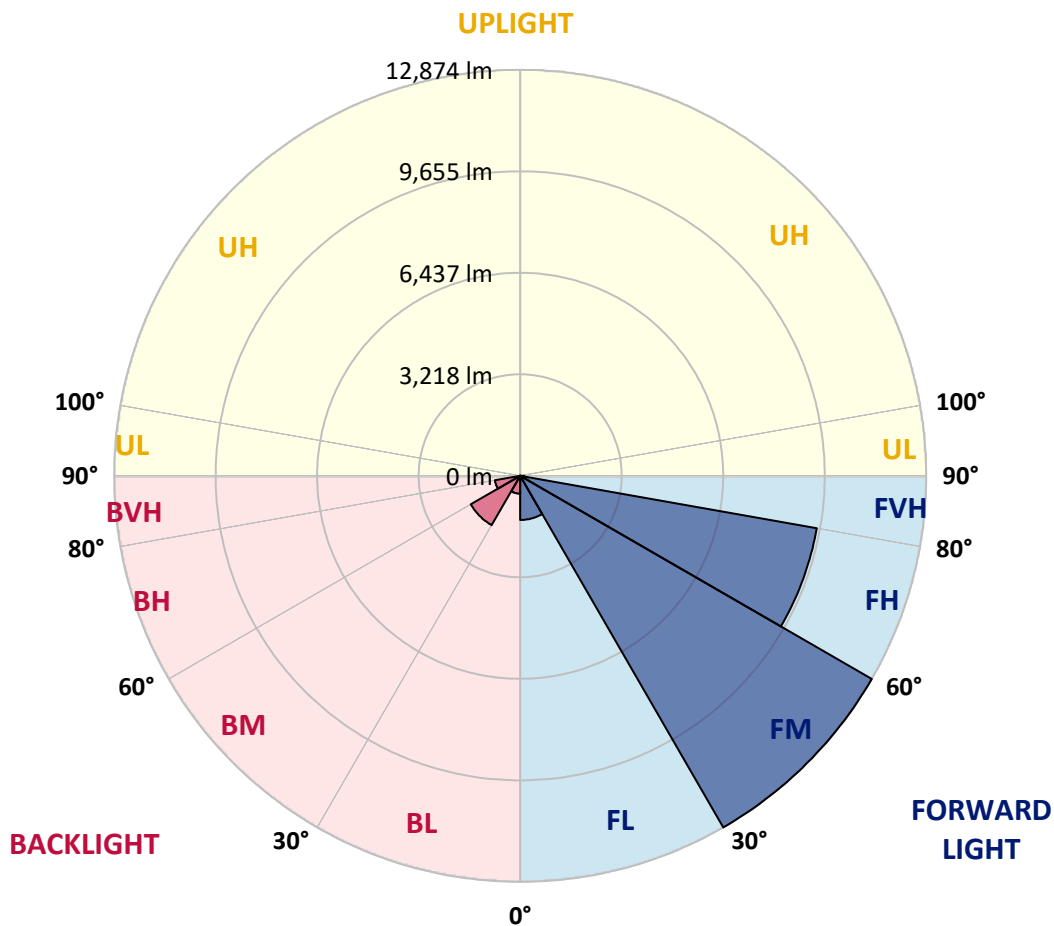
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.6	5.2			
FM	(30°-60°)	12873.6	47.4			
FH	(60°-80°)	9550.0	35.2			G4/12000
FVH	(80°-90°)	124.3	0.5			G2/225
BL	(0°-30°)	567.2	2.1	B2/1000		
BM	(30°-60°)	1806.7	6.7	B2/2500		
BH	(60°-80°)	814.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2.5°	2522.5	2527.4	2517.6	2497.9	2478.2	2453.5	2414.1	2350.1	2340.2	2295.9	2246.6
5°	2694.9	2704.8	2690.0	2685.1	2675.2	2640.8	2586.6	2493.0	2483.1	2394.4	2281.1
7.5°	2754.1	2768.9	2759.0	2759.0	2759.0	2744.2	2719.6	2635.8	2621.0	2507.7	2335.3
10°	2798.4	2808.3	2803.3	2823.0	2837.8	2828.0	2813.2	2763.9	2749.1	2635.8	2409.2
12.5°	2867.4	2872.3	2877.2	2887.1	2911.7	2921.6	2916.7	2872.3	2862.5	2783.6	2502.8
15°	2931.4	2931.4	2936.4	2980.7	3015.2	3034.9	3039.8	3005.3	2995.5	2931.4	2621.0
17.5°	2990.6	2995.5	3010.3	3059.5	3118.7	3158.1	3182.7	3167.9	3153.1	3103.9	2759.0
20°	3079.2	3089.1	3103.9	3172.8	3232.0	3296.0	3345.3	3340.4	3335.4	3300.9	2921.6
22.5°	3232.0	3241.8	3266.5	3330.5	3389.6	3468.5	3552.2	3547.3	3532.5	3507.9	3113.7
25°	3463.5	3463.5	3478.3	3532.5	3606.4	3700.0	3778.8	3793.6	3778.8	3764.1	3355.1
27.5°	3754.2	3759.1	3759.1	3818.3	3887.2	4005.5	4104.0	4118.8	4118.8	4104.0	3680.3
30°	4158.2	4143.4	4133.6	4182.8	4256.7	4429.2	4601.6	4631.2	4616.4	4641.0	4138.5
32.5°	4852.9	4828.2	4744.5	4754.3	4798.7	5035.2	5325.8	5429.3	5424.4	5468.7	4877.5
35°	5813.6	5764.3	5641.2	5537.7	5532.8	5789.0	6232.4	6621.6	6616.7	6769.4	6000.8
37.5°	6897.5	6961.5	6730.0	6552.6	6498.4	6700.4	7271.9	8114.4	8158.7	8424.8	7473.9
40°	8346.0	8385.4	8089.8	7838.5	7582.3	7656.2	8410.0	9720.5	9799.4	10095.0	8947.0
42.5°	9607.2	9646.6	9474.2	9168.7	8843.6	8705.6	9558.0	11178.9	11242.9	11651.8	10464.5
45°	10464.5	10494.0	10553.2	10582.7	10213.2	9927.5	10962.1	12676.6	12755.4	13228.4	11947.4
47.5°	11134.5	11159.2	11277.4	11573.0	11499.1	11272.5	12390.9	14233.5	14253.2	14780.3	13391.0
50°	11444.9	11504.0	11794.7	12248.0	12573.1	12637.2	13942.8	15706.6	15760.8	16263.3	14755.7
52.5°	11100.0	11119.7	11853.8	12706.2	13361.4	14011.8	15499.6	17071.3	17228.9	17603.4	15982.5
55°	9937.3	10080.2	11193.6	12691.4	13982.2	15317.4	17164.9	18544.4	18687.3	18923.8	17061.4
57.5°	8587.4	8745.0	10099.9	12055.8	14248.2	16524.4	18707.0	20111.1	20209.7	20273.7	18051.7
60°	7419.7	7567.5	8961.8	10838.9	13982.2	17376.8	20140.7	21668.0	21751.7	21579.3	18549.3
62.5°	5986.0	6133.8	7538.0	9227.9	12937.7	17549.2	21204.9	23052.4	23086.9	22618.8	18243.9
65°	4512.9	4611.5	5784.0	7232.5	11109.9	16632.8	21446.3	23914.6	23880.1	22919.4	17327.5
66°	4044.9	4128.6	5163.3	6395.0	10159.0	15795.3	21121.1	23983.6	23949.1	22697.7	16726.4
67.5°	3488.2	3512.8	4365.1	5232.2	8498.7	14016.7	20130.8	23668.2	23697.8	22086.8	15627.7
70°	2724.5	2719.6	3212.3	3640.9	5803.7	9971.8	16790.5	21682.8	21825.6	19781.0	13326.9
72.5°	1744.1	1685.0	1970.7	2226.9	3379.8	5789.0	12243.0	17672.4	17913.8	15539.1	9927.5
75°	1039.6	980.4	1049.4	1113.5	1620.9	2783.6	7198.0	12026.3	12257.8	9961.9	5907.2
77.5°	778.4	753.8	758.7	704.5	719.3	1044.5	3286.2	6355.5	6523.1	4079.4	2241.7
80°	596.1	532.1	497.6	522.2	473.0	413.8	1221.8	2187.5	2291.0	965.6	468.0
82.5°	399.1	344.9	320.2	349.8	300.5	231.6	295.6	423.7	413.8	261.1	182.3
85°	206.9	177.4	177.4	177.4	152.7	113.3	128.1	172.4	172.4	137.9	108.4
87.5°	59.1	54.2	64.0	59.1	44.3	44.3	49.3	59.1	59.1	54.2	49.3
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°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2.5°	2207.2	2187.5	2133.3	2093.9	2054.5	2020.0	1980.6	1970.7	1951.0	1955.9	1946.1
5°	2222.0	2167.8	2074.2	1985.5	1916.5	1857.4	1783.5	1753.9	1714.5	1699.7	1689.9
7.5°	2241.7	2162.9	2024.9	1901.7	1783.5	1665.3	1547.0	1478.0	1433.7	1414.0	1399.2
10°	2286.0	2182.6	2000.3	1808.1	1606.1	1438.6	1320.4	1271.1	1241.5	1236.6	1231.7
12.5°	2345.1	2212.1	1975.6	1689.9	1423.8	1266.2	1192.3	1177.5	1172.6	1172.6	1167.6
15°	2433.8	2261.4	1936.2	1551.9	1281.0	1172.6	1138.1	1113.5	1103.6	1103.6	1103.6
17.5°	2522.5	2320.5	1877.1	1409.1	1182.4	1113.5	1079.0	1064.2	1054.3	1059.3	1054.3
20°	2635.8	2389.5	1798.3	1285.9	1118.4	1064.2	1029.7	1014.9	1010.0	1010.0	1010.0
22.5°	2763.9	2468.3	1699.7	1192.3	1064.2	1014.9	980.4	965.6	955.8	960.7	960.7
25°	2936.4	2566.9	1596.3	1098.7	1010.0	965.6	926.2	906.5	906.5	911.5	916.4
27.5°	3158.1	2685.1	1492.8	1039.6	960.7	916.4	872.0	852.3	857.3	867.1	867.1
30°	3483.2	2847.7	1389.4	975.5	906.5	857.3	817.8	798.1	808.0	827.7	827.7
32.5°	3946.4	3113.7	1300.7	901.6	827.7	773.5	734.1	719.3	743.9	783.4	783.4
35°	4774.0	3601.5	1246.5	827.7	743.9	679.9	630.6	615.8	650.3	699.6	699.6
37.5°	5882.6	4384.8	1266.2	763.7	675.0	601.1	546.9	527.2	551.8	596.1	610.9
40°	7119.2	5330.8	1438.6	709.5	610.9	537.0	482.8	463.1	477.9	497.6	502.5
42.5°	8355.8	6335.8	1763.8	670.0	561.7	482.8	433.6	418.8	428.6	433.6	438.5
45°	9587.5	7331.0	2172.7	645.4	517.3	438.5	389.2	389.2	394.1	394.1	394.1
47.5°	10755.2	8301.6	2601.3	640.5	477.9	394.1	354.7	359.7	359.7	364.6	364.6
50°	11858.8	9168.7	3034.9	655.3	443.4	354.7	325.2	325.2	325.2	330.1	325.2
52.5°	12780.1	9927.5	3488.2	679.9	408.9	325.2	295.6	295.6	295.6	300.5	295.6
55°	13652.1	10617.2	3951.3	714.4	379.4	300.5	271.0	261.1	261.1	266.0	261.1
57.5°	14361.6	11075.4	4389.8	719.3	354.7	275.9	251.3	236.5	236.5	236.5	236.5
60°	14391.1	10809.4	4517.9	630.6	325.2	251.3	226.6	206.9	211.9	211.9	211.9
62.5°	13450.1	9410.1	3631.0	473.0	290.7	226.6	206.9	187.2	187.2	187.2	187.2
65°	11602.6	7321.2	2128.4	374.4	251.3	202.0	182.3	167.5	167.5	167.5	162.6
66°	10735.5	6419.6	1630.8	339.9	236.5	197.1	177.4	162.6	157.7	152.7	152.7
67.5°	9321.5	5074.6	1019.8	300.5	216.8	182.3	162.6	147.8	142.9	137.9	137.9
70°	7020.7	3222.1	497.6	231.6	187.2	157.7	142.9	128.1	123.2	118.2	113.3
72.5°	4926.8	1887.0	261.1	177.4	152.7	137.9	123.2	108.4	103.5	98.5	98.5
75°	2783.6	911.5	172.4	128.1	123.2	113.3	103.5	88.7	83.8	83.8	83.8
77.5°	1054.3	315.3	118.2	93.6	98.5	88.7	73.9	73.9	69.0	73.9	69.0
80°	275.9	137.9	73.9	69.0	73.9	64.0	54.2	59.1	59.1	59.1	59.1
82.5°	147.8	78.8	44.3	49.3	44.3	44.3	34.5	39.4	44.3	39.4	44.3
85°	103.5	39.4	24.6	24.6	19.7	19.7	14.8	19.7	24.6	19.7	19.7
87.5°	54.2	14.8	14.8	14.8	14.8	9.9	4.9	0.0	4.9	4.9	4.9
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)