

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: P1210908

Luminaire Tested: **ARCH4-110-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

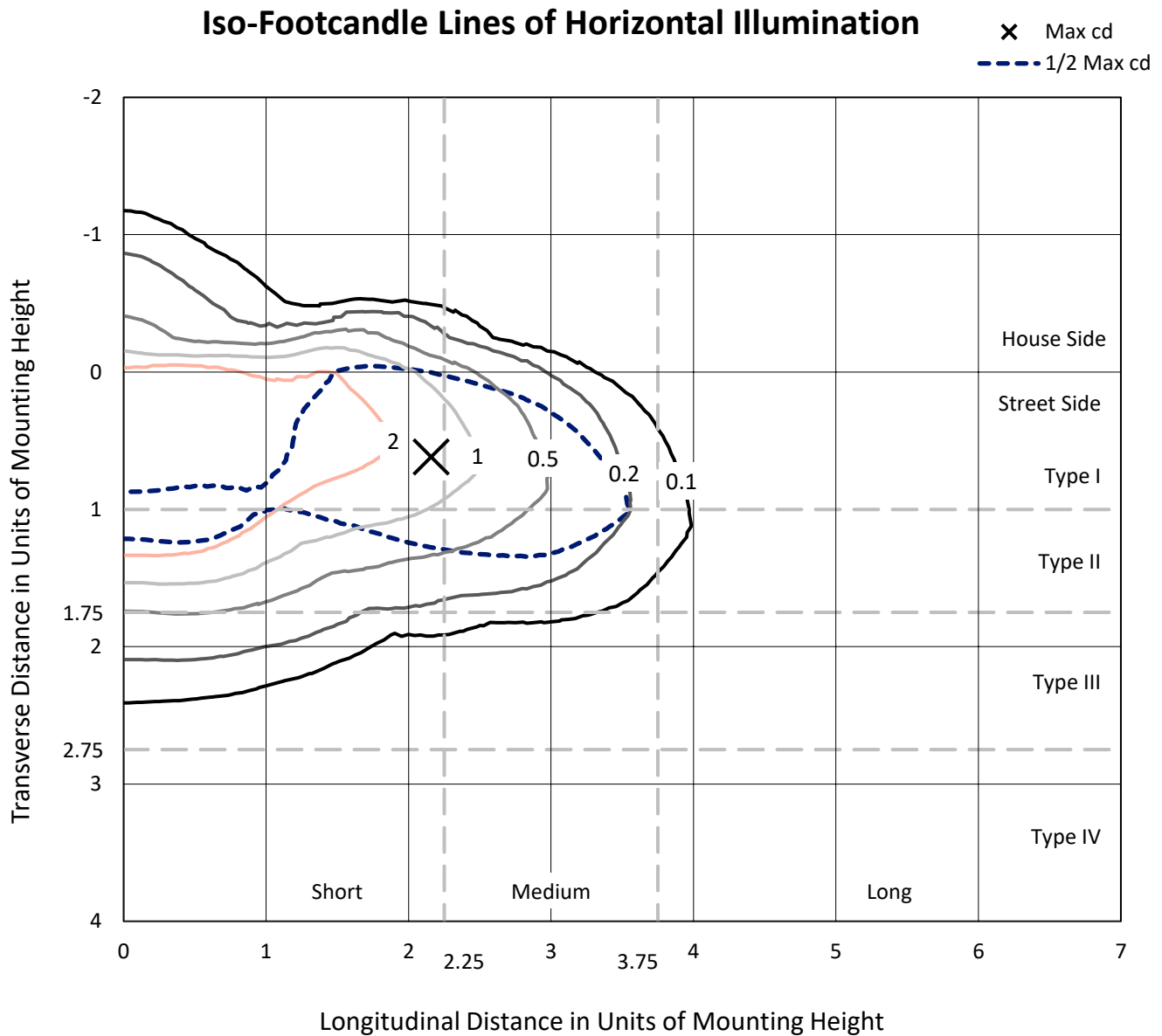
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13257 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



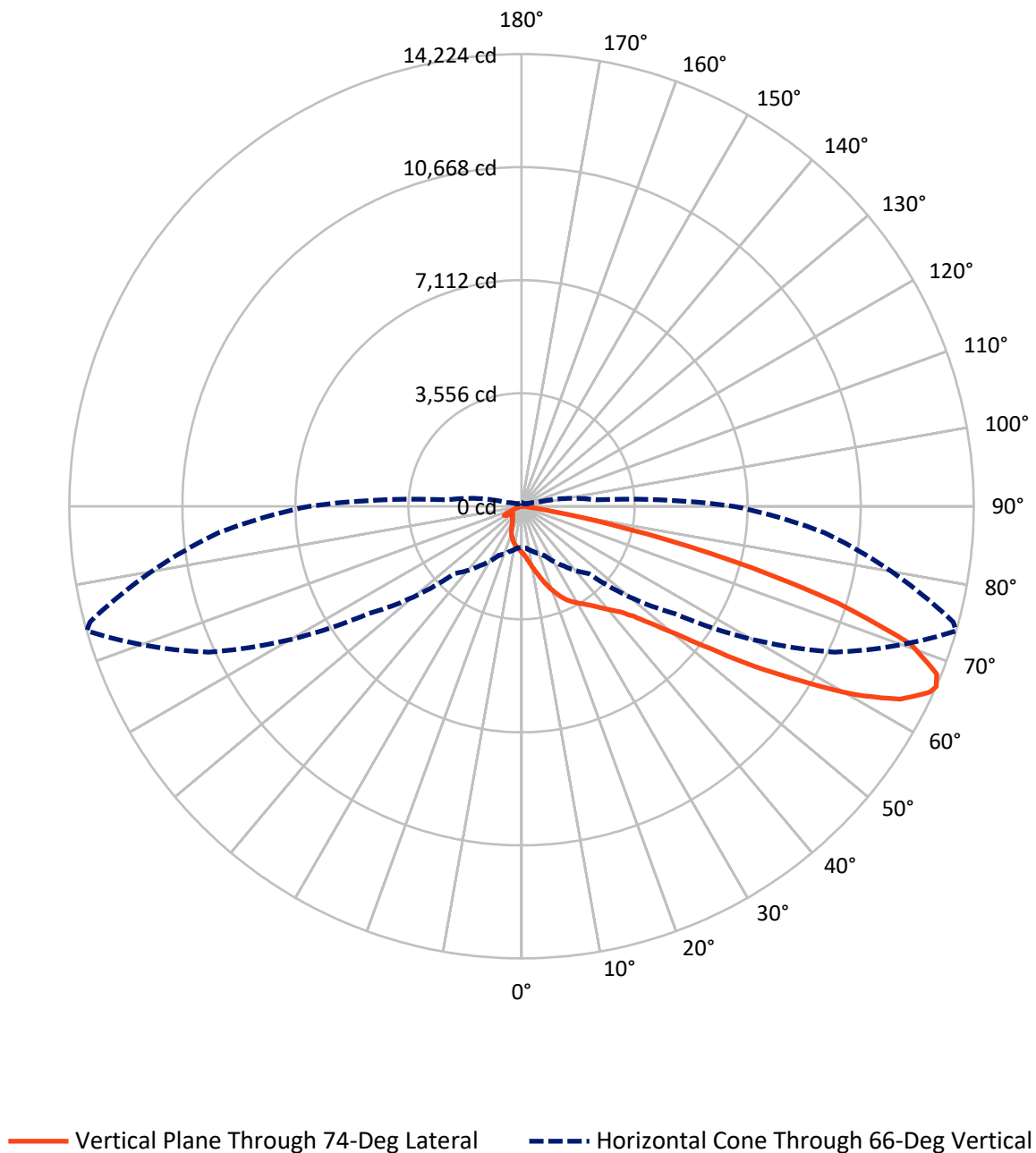
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Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.6	0.0	1299.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11957.4	0.0	11957.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	13257.0	0.0	13257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	1.1
10°-20°	452.8	3.4
20°-30°	864.2	6.5
30°-40°	1514.7	11.4
40°-50°	2597.3	19.6
50°-60°	3378.0	25.5
60°-70°	3057.9	23.1
70°-80°	1179.9	8.9
80°-90°	71.0	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°	13257.0	100.0
0°-180°	13257.0	100.0

Coefficient of Utilization



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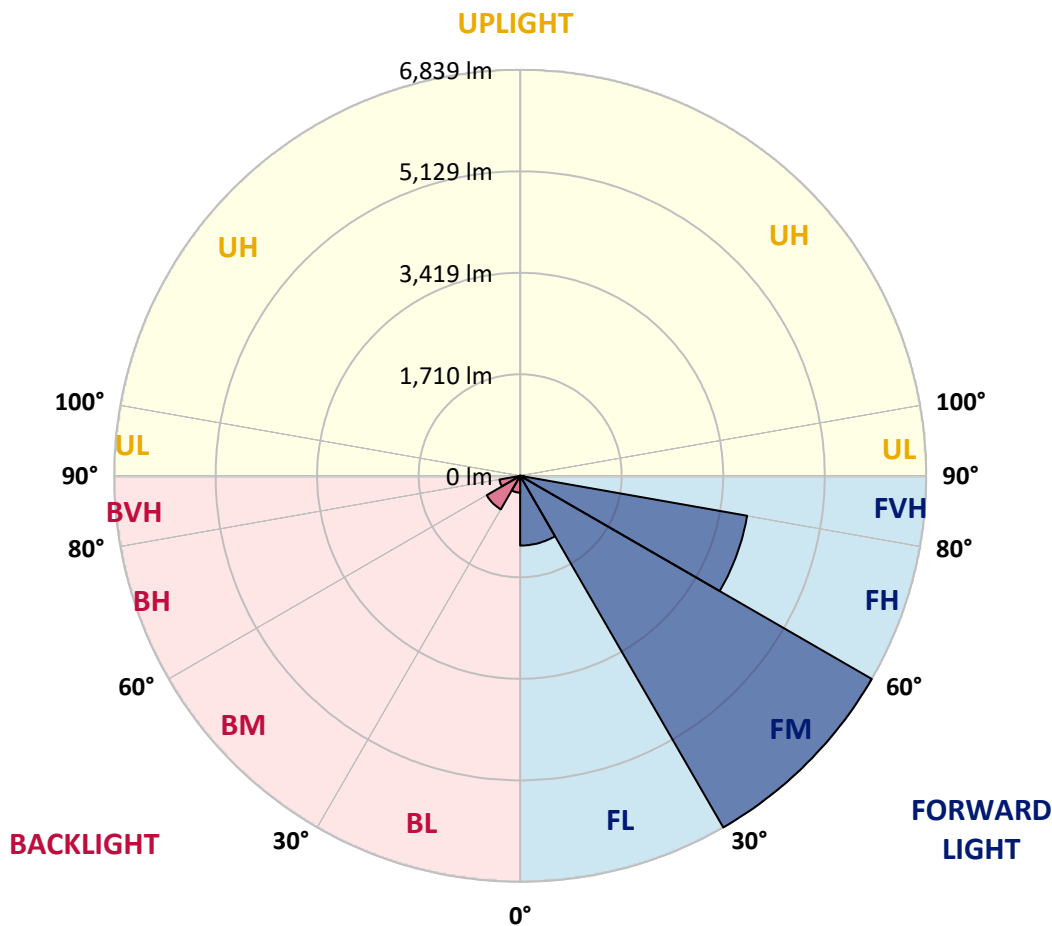
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1174.8	8.9			
FM	(30°-60°)	6838.6	51.6			
FH	(60°-80°)	3882.5	29.3			G2/5000
FVH	(80°-90°)	61.5	0.5			G1/100
BL	(0°-30°)	283.5	2.1	B1/500		
BM	(30°-60°)	651.3	4.9	B1/1000		
BH	(60°-80°)	355.3	2.7	B1/500		G1/500
BVH	(80°-90°)	9.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1
2.5°	1737.5	1723.2	1697.0	1694.6	1673.2	1647.0	1601.8	1554.2	1520.9	1516.1	1475.7
5°	2080.2	2073.1	2046.9	2030.2	1989.8	1927.9	1823.2	1718.5	1630.4	1620.9	1530.4
7.5°	2170.7	2175.4	2180.2	2196.9	2182.6	2154.0	2075.5	1927.9	1789.9	1768.4	1611.3
10°	2185.0	2180.2	2180.2	2201.6	2242.1	2282.5	2273.0	2146.9	1968.4	1942.2	1723.2
12.5°	2339.7	2346.8	2330.1	2320.6	2313.5	2334.9	2406.3	2351.6	2156.4	2135.0	1858.9
15°	2539.6	2537.2	2513.4	2513.4	2492.0	2456.3	2501.5	2542.0	2382.5	2356.3	2013.6
17.5°	2684.8	2694.3	2691.9	2706.2	2699.1	2651.5	2627.7	2711.0	2615.8	2582.4	2189.7
20°	2801.4	2827.6	2837.1	2882.3	2903.8	2870.4	2808.5	2860.9	2839.5	2808.5	2368.2
22.5°	2925.2	2946.6	2963.3	3041.8	3101.3	3094.2	3015.6	3003.7	3056.1	3027.5	2544.4
25°	3048.9	3058.5	3108.4	3203.6	3298.9	3322.7	3241.7	3148.9	3251.3	3225.1	2701.4
27.5°	3184.6	3189.4	3248.9	3365.5	3498.8	3548.8	3484.5	3313.1	3401.2	3401.2	2844.2
30°	3432.1	3479.7	3503.5	3608.3	3724.9	3793.9	3717.8	3486.9	3534.5	3555.9	2994.2
32.5°	3965.3	3972.4	3965.3	4010.5	4034.3	4074.8	3986.7	3682.1	3670.2	3694.0	3141.8
35°	4779.3	4750.7	4674.6	4607.9	4469.9	4393.7	4279.5	3932.0	3836.8	3870.1	3287.0
37.5°	5767.0	5726.6	5552.8	5348.1	5053.0	4748.3	4605.5	4236.6	4048.6	4091.4	3444.0
40°	6709.6	6683.4	6476.3	6224.0	5719.4	5198.2	4895.9	4493.7	4284.2	4300.9	3603.5
42.5°	7485.5	7480.7	7307.0	7042.8	6395.4	5683.7	5238.7	4746.0	4531.8	4557.9	3770.1
45°	8073.4	8028.2	7899.6	7709.2	7049.9	6188.3	5652.8	5129.2	4929.2	4960.2	4020.0
47.5°	8073.4	8080.5	8163.8	8144.8	7506.9	6662.0	6105.0	5612.3	5517.1	5545.7	4431.8
50°	7416.5	7483.1	7854.4	8166.2	7744.9	7030.9	6592.9	6216.9	6314.5	6357.3	5150.6
52.5°	6116.9	6228.8	6873.8	7585.5	7568.8	7216.5	7097.5	6985.7	7423.6	7499.8	6212.1
55°	4648.4	4722.2	5562.4	6497.7	6802.4	7064.2	7537.9	7961.5	8892.1	8875.5	7290.3
57.5°	3472.6	3541.6	4265.2	5302.9	5705.2	6404.9	7764.0	9077.8	10348.8	10413.0	8301.9
60°	2553.9	2606.2	3222.7	4074.8	4655.5	5395.7	7673.5	10177.4	12026.8	11953.0	9194.4
62.5°	1889.8	1918.4	2363.5	2918.0	3689.2	4396.1	7104.7	10929.5	13366.8	13216.8	9691.9
65°	1461.4	1470.9	1701.8	1996.9	2682.4	3417.9	6257.3	11043.8	14107.0	13947.5	9682.3
66°	1301.9	1309.1	1478.1	1706.5	2282.5	2991.8	5886.0	10860.5	14223.6	14054.6	9563.3
67.5°	1092.5	1087.7	1187.7	1337.6	1713.7	2308.7	5226.8	10325.0	14085.6	13999.9	9182.5
70°	809.2	811.6	861.6	897.3	1002.0	1278.1	3774.9	8956.4	12981.2	12976.4	8137.6
72.5°	599.8	606.9	645.0	652.2	626.0	692.6	2175.4	7123.7	10384.5	10386.9	6083.6
75°	449.8	461.7	473.6	478.4	454.6	437.9	983.0	4793.6	6831.0	6781.0	3444.0
77.5°	342.7	347.5	357.0	349.9	345.1	302.3	409.4	2337.3	3372.6	3072.7	1116.3
80°	249.9	249.9	259.4	249.9	247.5	216.6	223.7	749.7	990.1	823.5	240.4
82.5°	157.1	154.7	161.8	159.5	154.7	138.0	130.9	209.5	228.5	204.7	116.6
85°	88.1	85.7	83.3	80.9	73.8	61.9	71.4	78.5	104.7	107.1	83.3
87.5°	30.9	30.9	28.6	26.2	21.4	21.4	26.2	26.2	38.1	38.1	42.8
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°	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1
2.5°	1456.6	1430.5	1392.4	1342.4	1306.7	1271.0	1232.9	1211.5	1180.5	1173.4	1182.9
5°	1482.8	1435.2	1340.0	1235.3	1144.8	1063.9	987.8	942.5	897.3	880.6	887.8
7.5°	1537.6	1456.6	1294.8	1125.8	975.9	854.5	764.0	711.7	671.2	654.5	659.3
10°	1618.5	1494.7	1251.9	1002.0	809.2	680.7	604.6	571.2	547.4	537.9	540.3
12.5°	1716.1	1549.5	1197.2	878.3	666.4	554.6	518.9	511.7	507.0	502.2	504.6
15°	1825.6	1597.1	1132.9	756.9	554.6	492.7	480.8	478.4	476.0	476.0	476.0
17.5°	1939.8	1639.9	1061.5	642.6	483.2	454.6	447.5	447.5	447.5	449.8	449.8
20°	2046.9	1673.2	978.2	540.3	442.7	418.9	414.1	414.1	416.5	418.9	418.9
22.5°	2151.6	1687.5	880.6	468.9	409.4	388.0	380.8	380.8	380.8	383.2	383.2
25°	2242.1	1687.5	783.1	423.7	380.8	359.4	349.9	347.5	349.9	349.9	349.9
27.5°	2318.2	1680.4	687.9	392.7	352.3	330.8	321.3	318.9	323.7	326.1	326.1
30°	2399.2	1670.8	611.7	364.2	328.5	307.0	297.5	297.5	304.7	314.2	314.2
32.5°	2477.7	1678.0	552.2	340.4	304.7	288.0	278.5	280.9	295.1	309.4	309.4
35°	2561.0	1692.3	516.5	323.7	288.0	271.3	264.2	271.3	285.6	299.9	299.9
37.5°	2644.3	1708.9	495.1	309.4	273.7	257.1	252.3	261.8	278.5	292.8	295.1
40°	2732.4	1723.2	471.3	295.1	264.2	245.2	242.8	252.3	273.7	288.0	290.4
42.5°	2841.9	1751.8	442.7	283.2	254.7	230.9	233.3	240.4	261.8	283.2	285.6
45°	3056.1	1842.2	414.1	271.3	242.8	223.7	219.0	223.7	247.5	271.3	276.1
47.5°	3458.3	2046.9	383.2	259.4	230.9	219.0	199.9	204.7	226.1	252.3	254.7
50°	4229.5	2482.5	366.5	247.5	221.4	202.3	180.9	180.9	197.6	221.4	221.4
52.5°	5431.4	3263.2	376.1	238.0	209.5	185.6	164.2	161.8	171.4	188.0	188.0
55°	6728.6	4120.0	411.8	228.5	195.2	176.1	152.3	140.4	147.6	157.1	157.1
57.5°	7756.8	4550.8	509.3	223.7	178.5	169.0	138.0	121.4	128.5	138.0	138.0
60°	8209.1	4298.5	618.8	228.5	166.6	157.1	123.8	107.1	119.0	128.5	130.9
62.5°	7842.5	3539.2	664.1	216.6	149.9	140.4	121.4	100.0	114.2	121.4	123.8
65°	7049.9	2689.5	518.9	188.0	138.0	121.4	109.5	95.2	107.1	114.2	114.2
66°	6673.9	2344.4	442.7	173.7	133.3	114.2	104.7	95.2	104.7	109.5	111.9
67.5°	6090.7	1849.4	328.5	152.3	123.8	104.7	97.6	90.4	100.0	104.7	104.7
70°	4762.6	1102.0	197.6	119.0	107.1	92.8	88.1	83.3	90.4	92.8	92.8
72.5°	2982.3	523.6	126.1	88.1	90.4	88.1	73.8	78.5	80.9	83.3	83.3
75°	1444.7	207.1	85.7	64.3	73.8	83.3	59.5	69.0	71.4	76.2	73.8
77.5°	402.2	100.0	54.7	47.6	64.3	64.3	45.2	54.7	64.3	80.9	73.8
80°	116.6	64.3	35.7	35.7	45.2	45.2	30.9	38.1	42.8	47.6	50.0
82.5°	80.9	42.8	23.8	26.2	26.2	28.6	19.0	19.0	23.8	23.8	26.2
85°	64.3	19.0	14.3	16.7	11.9	14.3	9.5	9.5	11.9	9.5	9.5
87.5°	26.2	9.5	9.5	9.5	7.1	7.1	4.8	2.4	2.4	2.4	2.4
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)