

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: P835802

Luminaire Tested: **ARCH3-100-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9733 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

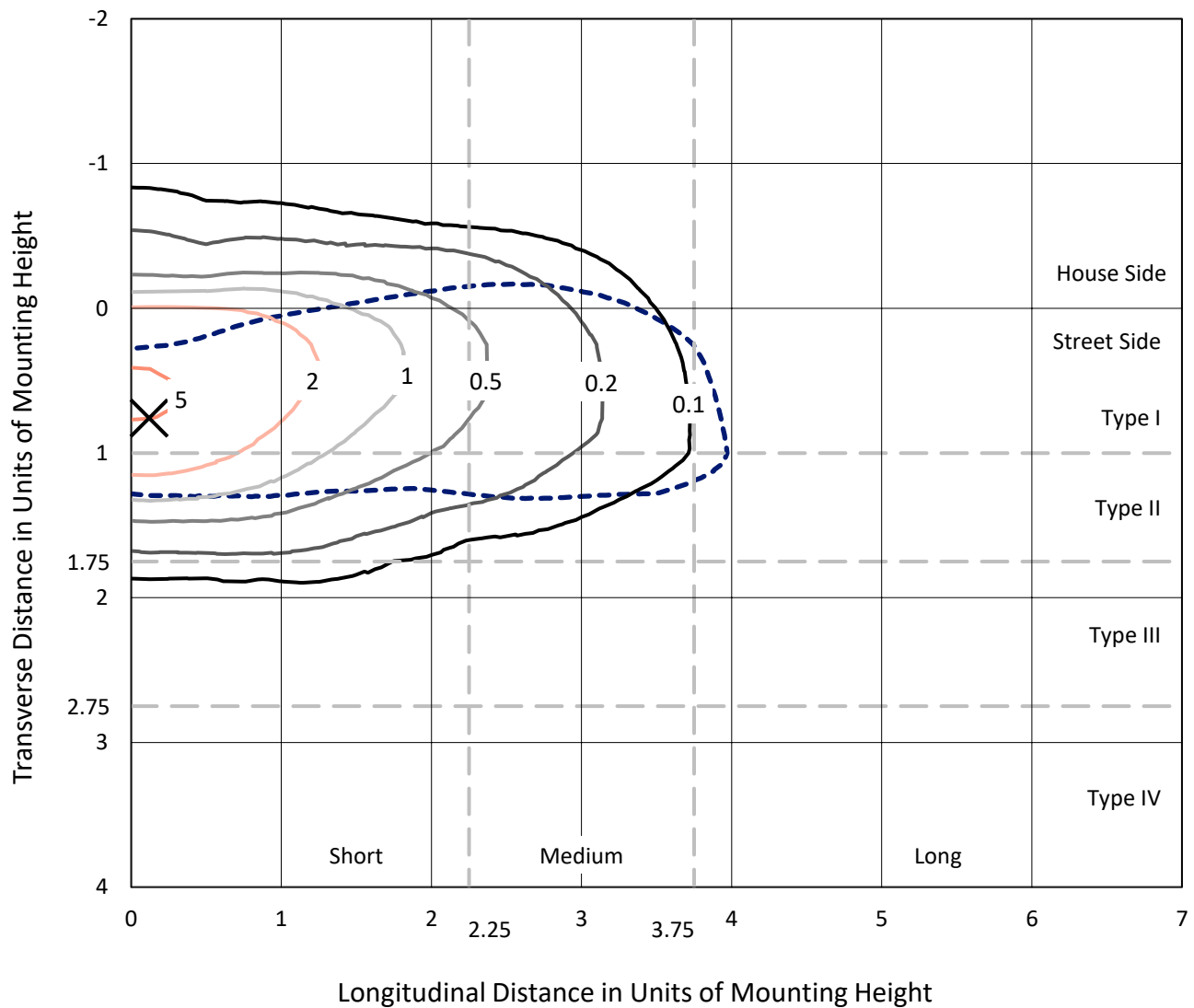
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

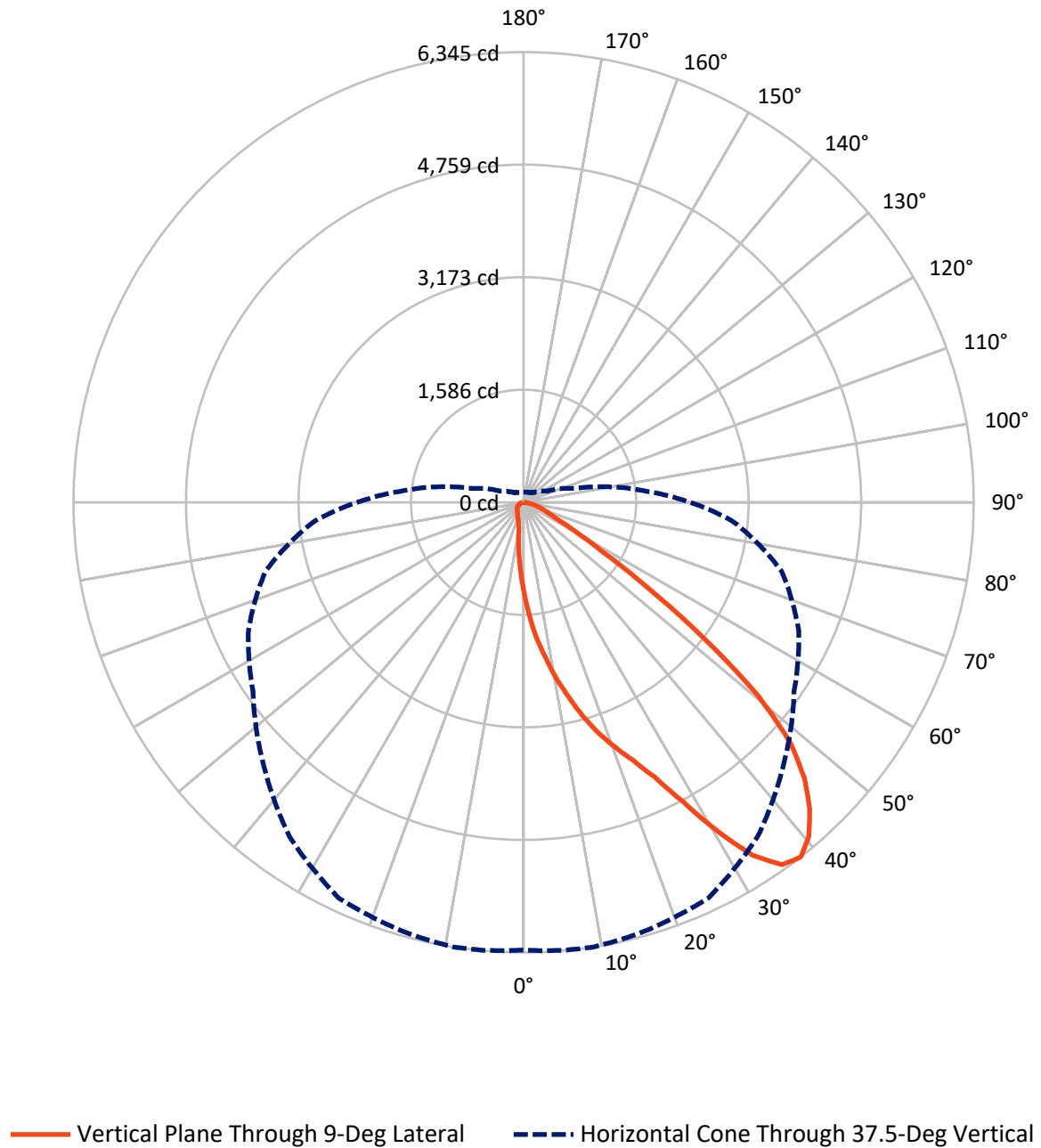
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1183.7	0.0	1183.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8549.3	0.0	8549.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	9733.0	0.0	9733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	1.3
10°-20°	449.5	4.6
20°-30°	923.6	9.5
30°-40°	1632.5	16.8
40°-50°	2168.6	22.3
50°-60°	2056.8	21.1
60°-70°	1569.2	16.1
70°-80°	760.7	7.8
80°-90°	42.8	0.4
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°	9733.0	100.0
0°-180°	9733.0	100.0

Coefficient of Utilization



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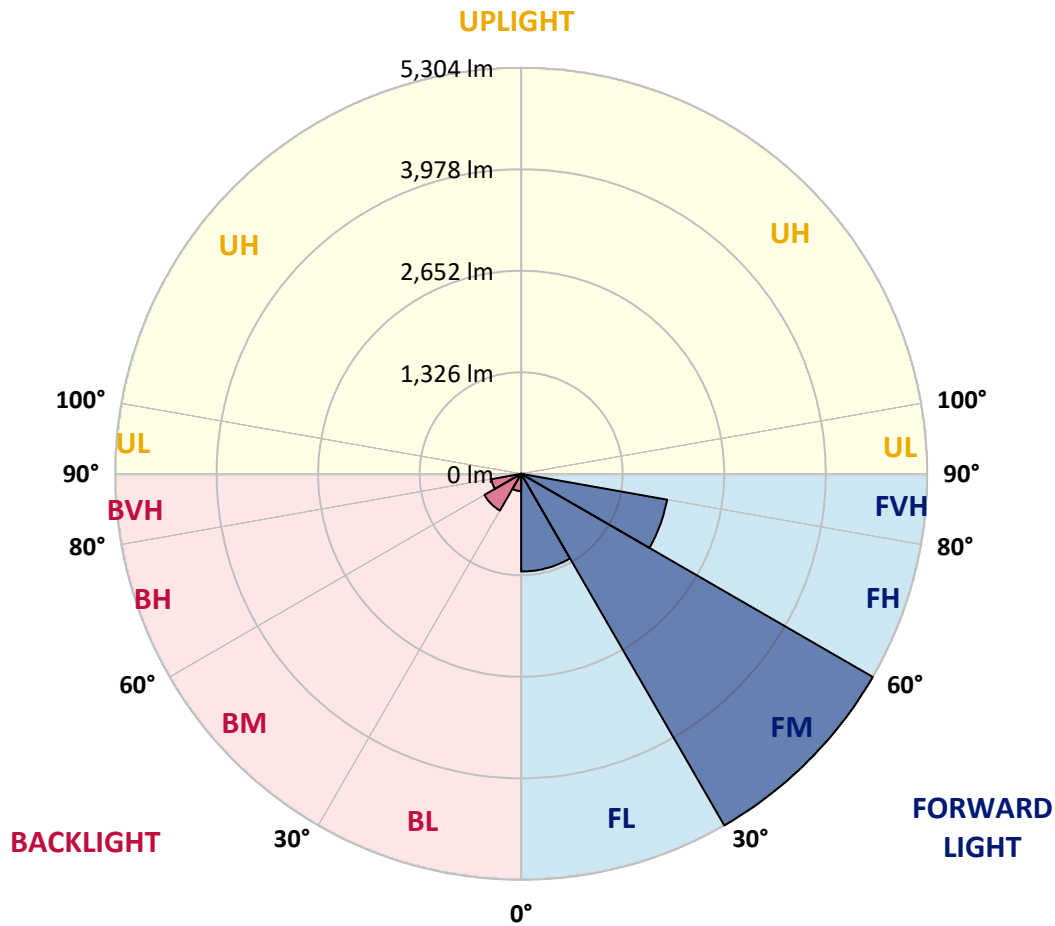
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.5	13.1			
FM	(30°-60°)	5304.0	54.5			
FH	(60°-80°)	1934.9	19.9			G2/5000
FVH	(80°-90°)	33.9	0.3			G1/100
BL	(0°-30°)	225.9	2.3	B1/500		
BM	(30°-60°)	553.9	5.7	B1/1000		
BH	(60°-80°)	395.0	4.1	B1/500		G1/500
BVH	(80°-90°)	8.9	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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1594.2	1566.3	1598.2	1594.2	1566.3	1548.3	1492.4	1474.4	1408.5	1360.5	1318.5
5°	1921.9	1893.9	1921.9	1913.9	1873.9	1830.0	1738.1	1678.2	1560.3	1456.4	1362.5
7.5°	2193.6	2193.6	2205.6	2207.6	2159.6	2091.7	1977.8	1887.9	1722.1	1562.3	1412.4
10°	2487.3	2489.3	2515.2	2497.3	2433.3	2341.4	2197.6	2083.7	1883.9	1674.2	1460.4
12.5°	2800.9	2802.9	2810.9	2802.9	2727.0	2609.1	2435.3	2285.5	2055.7	1802.0	1526.3
15°	3114.6	3116.6	3126.6	3112.6	3028.7	2890.8	2693.0	2509.2	2237.5	1945.9	1606.2
17.5°	3408.3	3412.2	3420.2	3402.3	3314.4	3150.5	2948.8	2727.0	2431.3	2099.7	1696.1
20°	3672.0	3676.0	3682.0	3658.0	3570.1	3406.3	3188.5	2956.7	2629.1	2257.5	1794.0
22.5°	3937.7	3941.7	3951.7	3919.7	3821.8	3634.0	3420.2	3180.5	2838.9	2431.3	1907.9
25°	4277.3	4281.3	4289.3	4243.3	4109.5	3889.7	3664.0	3418.2	3066.6	2627.1	2047.7
27.5°	4774.7	4770.8	4770.8	4686.8	4457.1	4171.4	3909.7	3660.0	3312.4	2836.9	2201.6
30°	5390.1	5380.1	5374.1	5260.2	4932.6	4489.1	4161.4	3885.7	3548.1	3058.6	2367.4
32.5°	5941.5	5941.5	5929.5	5809.6	5462.0	4916.6	4429.1	4105.5	3775.8	3282.4	2539.2
35°	6267.1	6281.1	6275.1	6185.2	5931.5	5376.1	4790.7	4369.2	4015.6	3516.1	2745.0
37.5°	6311.1	6339.0	6345.0	6291.1	6157.2	5751.7	5192.3	4654.9	4279.3	3767.9	2944.8
40°	6133.3	6193.2	6193.2	6185.2	6137.2	5929.5	5529.9	4986.5	4551.0	4029.6	3146.5
42.5°	5859.6	5921.5	5913.5	5943.5	5931.5	5887.5	5719.7	5296.2	4822.7	4299.3	3330.3
45°	5501.9	5565.9	5549.9	5603.8	5627.8	5675.8	5699.7	5511.9	5090.4	4592.9	3536.1
47.5°	4928.6	5036.5	5060.4	5156.3	5256.2	5406.1	5519.9	5589.9	5340.1	4908.6	3759.9
50°	4081.5	4233.3	4281.3	4483.1	4756.8	5066.4	5250.2	5494.0	5515.9	5232.2	4001.6
52.5°	2922.8	3098.6	3172.5	3504.1	4067.5	4606.9	4938.6	5282.2	5583.9	5541.9	4263.3
55°	1889.9	2039.8	2111.7	2423.3	3172.5	4019.6	4571.0	5008.5	5545.9	5825.6	4563.0
57.5°	1164.7	1250.6	1298.6	1566.3	2255.5	3266.4	4089.5	4756.8	5430.0	6071.3	4874.6
60°	785.1	835.1	859.1	984.9	1532.3	2441.3	3428.2	4493.1	5278.2	6237.1	5158.3
62.5°	521.4	537.4	561.4	639.3	1010.9	1714.1	2633.1	4021.6	5164.3	6247.1	5368.1
65°	403.6	411.5	421.5	455.5	623.3	1198.7	1852.0	3258.4	4994.5	6035.4	5434.0
67.5°	317.7	325.6	337.6	355.6	451.5	813.1	1260.6	2387.4	4646.9	5703.7	5326.1
70°	249.7	255.7	263.7	279.7	351.6	589.4	833.1	1586.3	3945.7	5388.1	4986.5
72.5°	197.8	203.8	211.8	227.7	285.7	431.5	571.4	988.9	3042.7	5002.5	4333.2
75°	155.8	159.8	165.8	181.8	229.7	335.6	387.6	591.3	2067.7	4297.3	3376.3
77.5°	77.9	95.9	109.9	125.9	167.8	231.7	257.7	327.6	873.0	2205.6	1610.2
80°	45.9	55.9	59.9	69.9	109.9	139.8	139.8	131.9	275.7	847.1	657.3
82.5°	26.0	36.0	38.0	40.0	65.9	79.9	63.9	47.9	55.9	283.7	191.8
85°	8.0	12.0	14.0	16.0	22.0	24.0	22.0	20.0	16.0	28.0	18.0
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	6.0	6.0	6.0
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°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1294.6	1268.6	1218.7	1172.7	1128.8	1096.8	1066.8	1038.9	1018.9	1002.9	1000.9
5°	1312.6	1260.6	1164.7	1074.8	992.9	925.0	867.0	821.1	787.1	763.2	761.2
7.5°	1336.5	1256.6	1110.8	976.9	855.1	757.2	673.3	611.3	567.4	549.4	535.4
10°	1356.5	1252.6	1056.8	879.0	719.2	595.3	495.5	433.5	401.6	389.6	383.6
12.5°	1390.5	1256.6	1010.9	789.1	601.3	455.5	379.6	345.6	331.6	321.6	319.6
15°	1440.4	1274.6	966.9	701.2	481.5	367.6	323.6	301.7	287.7	285.7	283.7
17.5°	1490.4	1290.6	927.0	611.3	399.6	319.6	289.7	271.7	261.7	259.7	259.7
20°	1548.3	1310.6	883.0	525.4	341.6	287.7	263.7	249.7	237.7	235.7	235.7
22.5°	1616.2	1338.5	841.1	449.5	303.7	263.7	243.7	227.7	217.8	215.8	215.8
25°	1708.1	1380.5	807.1	393.6	277.7	243.7	225.8	211.8	203.8	199.8	199.8
27.5°	1810.0	1438.4	783.1	359.6	259.7	227.7	209.8	197.8	189.8	185.8	185.8
30°	1923.9	1502.3	767.2	345.6	249.7	213.8	197.8	185.8	175.8	173.8	173.8
32.5°	2049.7	1576.3	757.2	347.6	247.7	203.8	185.8	173.8	165.8	161.8	161.8
35°	2189.6	1658.2	751.2	359.6	251.7	195.8	175.8	163.8	155.8	151.8	151.8
37.5°	2345.4	1754.1	751.2	371.6	261.7	193.8	165.8	153.8	147.8	143.8	143.8
40°	2491.3	1856.0	759.2	385.6	271.7	193.8	157.8	147.8	139.8	135.9	135.9
42.5°	2605.1	1913.9	765.2	399.6	277.7	191.8	149.8	139.8	133.9	129.9	129.9
45°	2735.0	1975.8	753.2	405.6	277.7	187.8	143.8	133.9	127.9	123.9	123.9
47.5°	2878.8	2051.7	751.2	409.5	271.7	179.8	137.8	127.9	123.9	119.9	119.9
50°	3024.7	2135.7	755.2	407.6	263.7	167.8	129.9	123.9	117.9	113.9	113.9
52.5°	3190.5	2223.6	763.2	403.6	245.7	153.8	123.9	117.9	111.9	107.9	105.9
55°	3374.3	2319.4	779.1	395.6	221.8	139.8	117.9	111.9	103.9	99.9	97.9
57.5°	3586.1	2437.3	797.1	379.6	195.8	127.9	111.9	103.9	91.9	85.9	83.9
60°	3787.8	2571.2	817.1	341.6	169.8	115.9	105.9	93.9	81.9	77.9	75.9
62.5°	3977.6	2703.0	827.1	273.7	143.8	105.9	99.9	85.9	73.9	69.9	67.9
65°	4099.5	2846.9	805.1	185.8	117.9	97.9	91.9	79.9	67.9	61.9	61.9
67.5°	4107.5	2914.8	729.2	121.9	95.9	87.9	83.9	71.9	59.9	55.9	53.9
70°	3905.7	2812.9	557.4	95.9	79.9	75.9	75.9	63.9	51.9	47.9	45.9
72.5°	3442.2	2491.3	355.6	77.9	67.9	63.9	63.9	53.9	45.9	40.0	38.0
75°	2717.0	1921.9	189.8	63.9	55.9	53.9	49.9	44.0	38.0	34.0	32.0
77.5°	1248.6	847.1	87.9	45.9	42.0	42.0	38.0	32.0	30.0	26.0	26.0
80°	493.5	287.7	44.0	30.0	28.0	28.0	28.0	22.0	22.0	18.0	16.0
82.5°	135.9	59.9	22.0	18.0	18.0	18.0	16.0	14.0	14.0	12.0	12.0
85°	14.0	10.0	10.0	10.0	10.0	8.0	8.0	6.0	4.0	4.0	4.0
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
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)