

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: P1211668

Luminaire Tested: **ARCH4-80-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211668
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: ARCH4-80-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA 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: 8774 lumens
Efficiency: N/A
Efficacy: 105.2 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

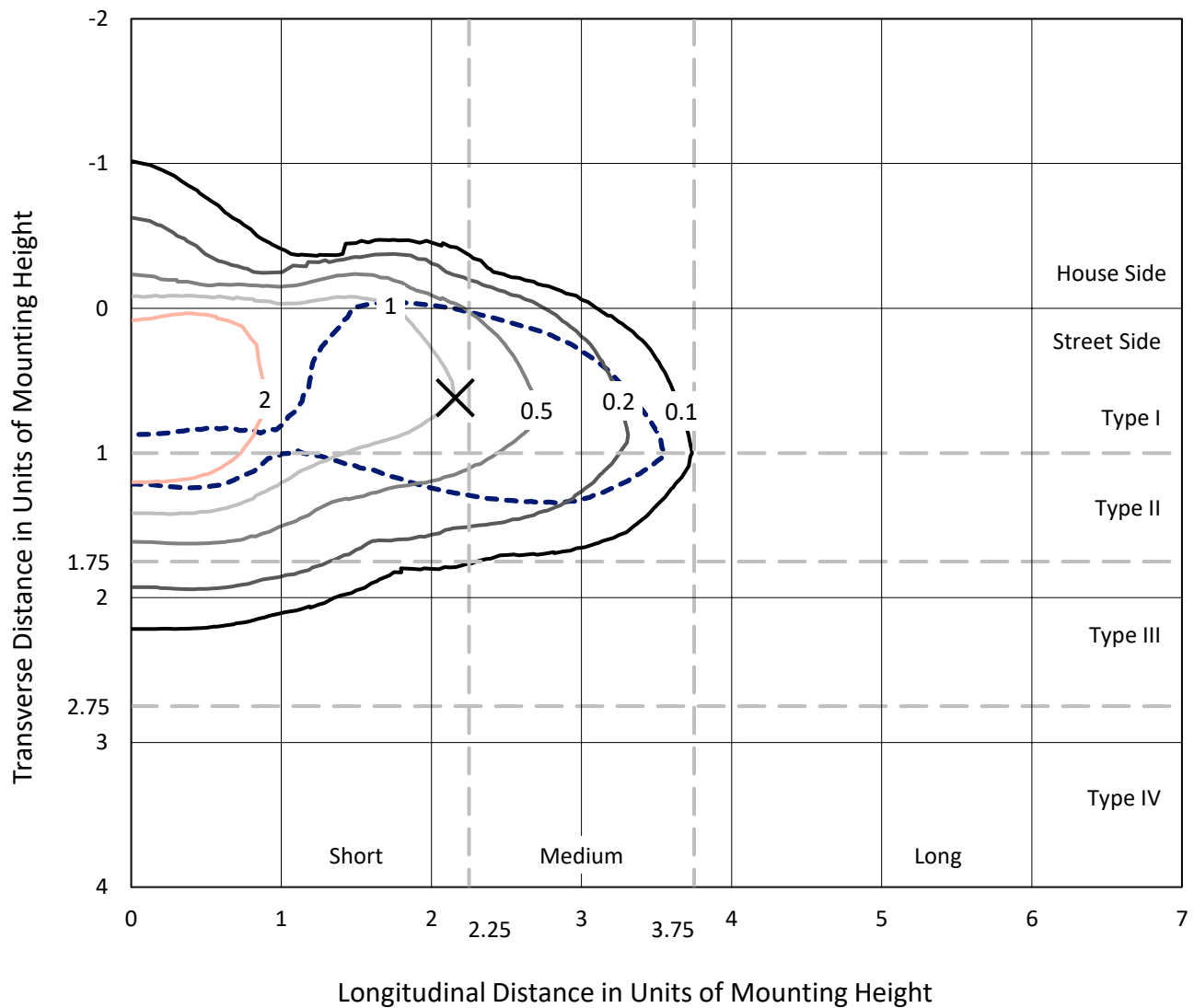
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211668
 CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

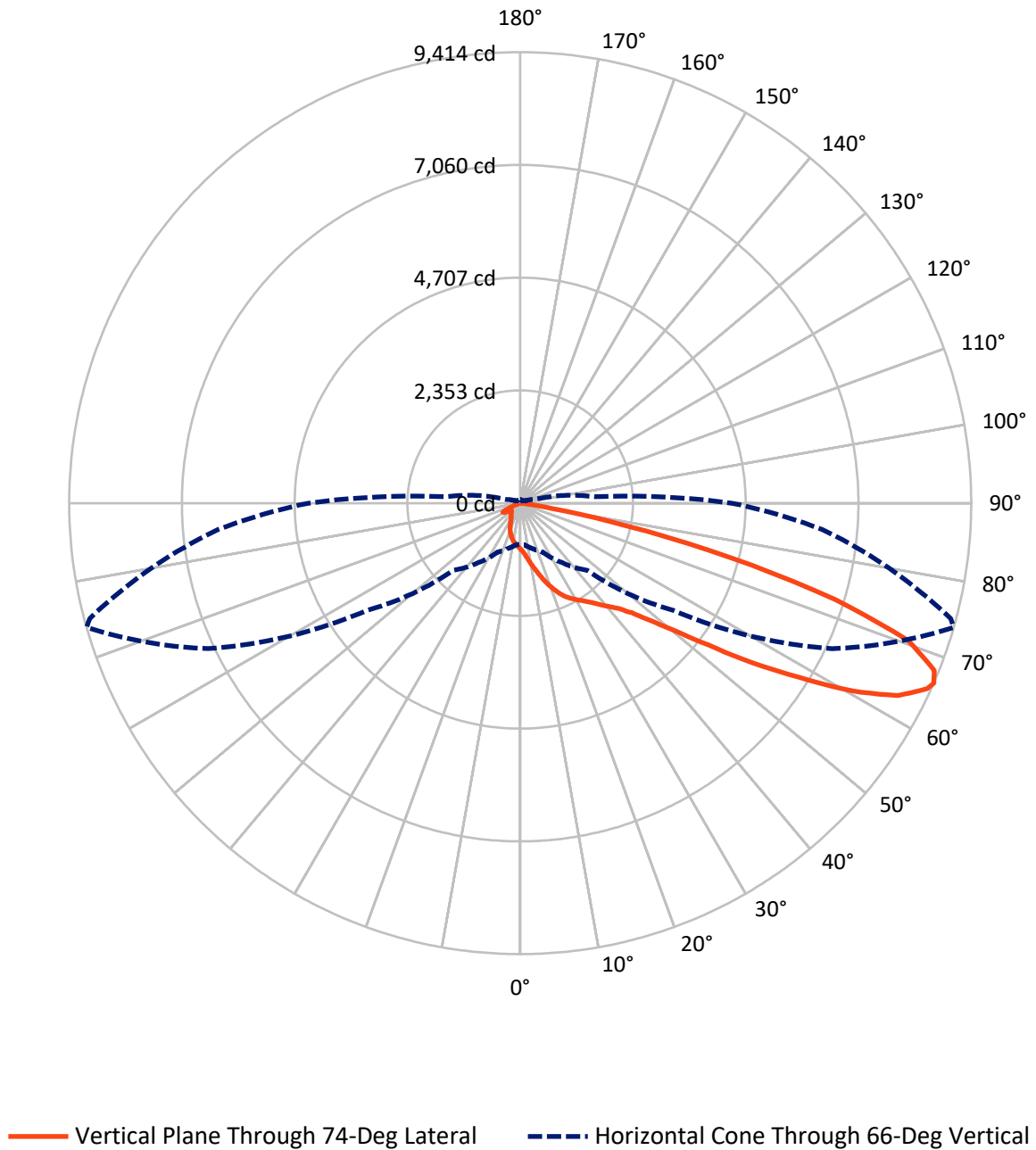
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P1211668
CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211668

CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.1	0.0	860.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7913.9	0.0	7913.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	8774.0	0.0	8774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.1
10°-20°	299.7	3.4
20°-30°	571.9	6.5
30°-40°	1002.5	11.4
40°-50°	1719.0	19.6
50°-60°	2235.7	25.5
60°-70°	2023.8	23.1
70°-80°	780.9	8.9
80°-90°	47.0	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°	8774.0	100.0
0°-180°	8774.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211668

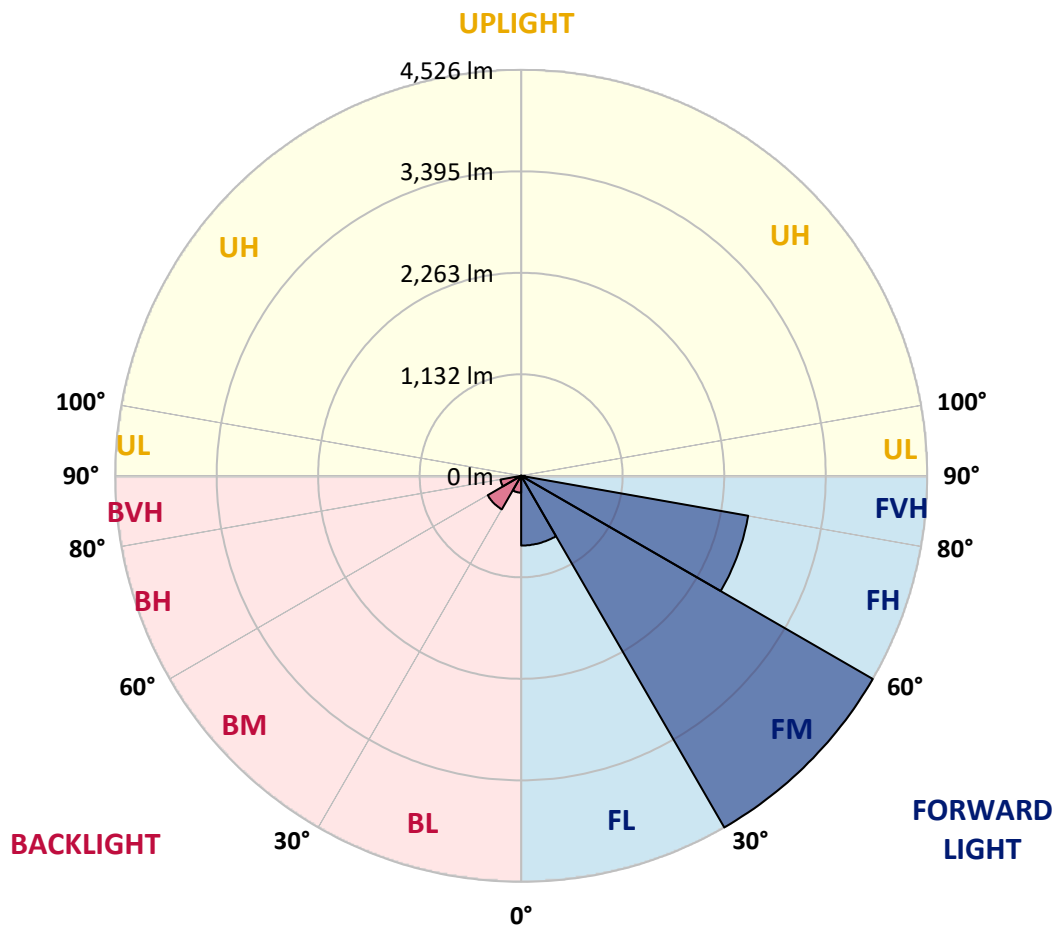
CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.5	8.9			
FM	(30°-60°)	4526.1	51.6			
FH	(60°-80°)	2569.6	29.3			G2/5000
FVH	(80°-90°)	40.7	0.5			G1/100
BL	(0°-30°)	187.6	2.1	B1/500		
BM	(30°-60°)	431.1	4.9	B1/1000		
BH	(60°-80°)	235.1	2.7	B1/500		G1/500
BVH	(80°-90°)	6.3	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



REPORT NUMBER: P1211668

CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8
2.5°	1149.9	1140.5	1123.2	1121.6	1107.4	1090.1	1060.1	1028.6	1006.6	1003.4	976.7
5°	1376.8	1372.1	1354.7	1343.7	1316.9	1276.0	1206.6	1137.3	1079.1	1072.8	1012.9
7.5°	1436.6	1439.8	1442.9	1454.0	1444.5	1425.6	1373.6	1276.0	1184.6	1170.4	1066.5
10°	1446.1	1442.9	1442.9	1457.1	1483.9	1510.7	1504.4	1420.9	1302.7	1285.4	1140.5
12.5°	1548.5	1553.2	1542.2	1535.9	1531.2	1545.3	1592.6	1556.4	1427.2	1413.0	1230.3
15°	1680.8	1679.2	1663.5	1663.5	1649.3	1625.7	1655.6	1682.4	1576.8	1559.5	1332.7
17.5°	1776.9	1783.2	1781.6	1791.1	1786.3	1754.8	1739.1	1794.2	1731.2	1709.2	1449.2
20°	1854.1	1871.4	1877.7	1907.6	1921.8	1899.8	1858.8	1893.5	1879.3	1858.8	1567.4
22.5°	1936.0	1950.2	1961.2	2013.2	2052.6	2047.8	1995.9	1988.0	2022.6	2003.7	1684.0
25°	2017.9	2024.2	2057.3	2120.3	2183.3	2199.1	2145.5	2084.1	2151.8	2134.5	1787.9
27.5°	2107.7	2110.8	2150.2	2227.4	2315.6	2348.7	2306.2	2192.8	2251.0	2251.0	1882.4
30°	2271.5	2303.0	2318.8	2388.1	2465.3	2511.0	2460.6	2307.8	2339.3	2353.4	1981.7
32.5°	2624.4	2629.1	2624.4	2654.3	2670.1	2696.8	2638.6	2436.9	2429.1	2444.8	2079.3
35°	3163.1	3144.2	3093.8	3049.7	2958.3	2907.9	2832.3	2602.3	2539.3	2561.4	2175.4
37.5°	3816.9	3790.1	3675.1	3539.6	3344.3	3142.6	3048.1	2804.0	2679.5	2707.9	2279.4
40°	4440.7	4423.3	4286.3	4119.3	3785.3	3440.4	3240.3	2974.1	2835.5	2846.5	2384.9
42.5°	4954.2	4951.0	4836.0	4661.2	4232.7	3761.7	3467.1	3141.1	2999.3	3016.6	2495.2
45°	5343.3	5313.4	5228.3	5102.3	4665.9	4095.7	3741.2	3394.7	3262.4	3282.8	2660.6
47.5°	5343.3	5348.0	5403.1	5390.5	4968.4	4409.2	4040.5	3714.5	3651.5	3670.4	2933.1
50°	4908.5	4952.6	5198.4	5404.7	5125.9	4653.3	4363.5	4114.6	4179.2	4207.5	3408.9
52.5°	4048.4	4122.5	4549.4	5020.4	5009.3	4776.2	4697.4	4623.4	4913.2	4963.6	4111.4
55°	3076.5	3125.3	3681.4	4300.5	4502.1	4675.4	4988.8	5269.2	5885.2	5874.1	4825.0
57.5°	2298.3	2344.0	2822.9	3509.7	3775.9	4239.0	5138.5	6008.0	6849.2	6891.8	5494.5
60°	1690.3	1724.9	2132.9	2696.8	3081.2	3571.1	5078.6	6735.8	7959.8	7911.0	6085.2
62.5°	1250.8	1269.7	1564.2	1931.3	2441.7	2909.5	4702.2	7233.6	8846.7	8747.4	6414.5
65°	967.2	973.5	1126.3	1321.6	1775.3	2262.1	4141.4	7309.2	9336.6	9231.0	6408.2
66°	861.7	866.4	978.2	1129.5	1510.7	1980.1	3895.6	7187.9	9413.8	9301.9	6329.4
67.5°	723.0	719.9	786.1	885.3	1134.2	1528.0	3459.3	6833.5	9322.4	9265.7	6077.4
70°	535.6	537.2	570.2	593.9	663.2	845.9	2498.4	5927.7	8591.5	8588.3	5385.8
72.5°	397.0	401.7	426.9	431.6	414.3	458.4	1439.8	4714.8	6872.9	6874.4	4026.4
75°	297.7	305.6	313.5	316.6	300.9	289.8	650.6	3172.6	4521.0	4487.9	2279.4
77.5°	226.8	230.0	236.3	231.6	228.4	200.1	270.9	1546.9	2232.1	2033.7	738.8
80°	165.4	165.4	171.7	165.4	163.8	143.3	148.1	496.2	655.3	545.0	159.1
82.5°	104.0	102.4	107.1	105.5	102.4	91.4	86.6	138.6	151.2	135.5	77.2
85°	58.3	56.7	55.1	53.6	48.8	41.0	47.3	52.0	69.3	70.9	55.1
87.5°	20.5	20.5	18.9	17.3	14.2	14.2	17.3	17.3	25.2	25.2	28.4
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: P1211668

CATALOG NUMBER: ARCH4-80-722-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8
2.5°	964.1	946.7	921.5	888.4	864.8	841.2	816.0	801.8	781.3	776.6	782.9
5°	981.4	949.9	886.9	817.6	757.7	704.1	653.7	623.8	593.9	582.8	587.6
7.5°	1017.6	964.1	856.9	745.1	645.9	565.5	505.7	471.0	444.2	433.2	436.3
10°	1071.2	989.3	828.6	663.2	535.6	450.5	400.1	378.1	362.3	356.0	357.6
12.5°	1135.8	1025.5	792.4	581.3	441.1	367.0	343.4	338.7	335.5	332.4	334.0
15°	1208.2	1057.0	749.8	500.9	367.0	326.1	318.2	316.6	315.1	315.1	315.1
17.5°	1283.8	1085.4	702.6	425.3	319.8	300.9	296.1	296.1	296.1	297.7	297.7
20°	1354.7	1107.4	647.4	357.6	293.0	277.2	274.1	274.1	275.7	277.2	277.2
22.5°	1424.0	1116.9	582.8	310.3	270.9	256.8	252.0	252.0	252.0	253.6	253.6
25°	1483.9	1116.9	518.3	280.4	252.0	237.9	231.6	230.0	231.6	231.6	231.6
27.5°	1534.3	1112.1	455.3	259.9	233.1	219.0	212.7	211.1	214.2	215.8	215.8
30°	1587.9	1105.8	404.8	241.0	217.4	203.2	196.9	196.9	201.6	207.9	207.9
32.5°	1639.8	1110.6	365.5	225.3	201.6	190.6	184.3	185.9	195.3	204.8	204.8
35°	1695.0	1120.0	341.8	214.2	190.6	179.6	174.9	179.6	189.0	198.5	198.5
37.5°	1750.1	1131.0	327.7	204.8	181.2	170.1	167.0	173.3	184.3	193.8	195.3
40°	1808.4	1140.5	311.9	195.3	174.9	162.3	160.7	167.0	181.2	190.6	192.2
42.5°	1880.9	1159.4	293.0	187.5	168.6	152.8	154.4	159.1	173.3	187.5	189.0
45°	2022.6	1219.3	274.1	179.6	160.7	148.1	144.9	148.1	163.8	179.6	182.7
47.5°	2288.9	1354.7	253.6	171.7	152.8	144.9	132.3	135.5	149.6	167.0	168.6
50°	2799.2	1643.0	242.6	163.8	146.5	133.9	119.7	119.7	130.7	146.5	146.5
52.5°	3594.7	2159.7	248.9	157.5	138.6	122.9	108.7	107.1	113.4	124.4	124.4
55°	4453.3	2726.8	272.5	151.2	129.2	116.6	100.8	92.9	97.7	104.0	104.0
57.5°	5133.8	3011.9	337.1	148.1	118.1	111.8	91.4	80.3	85.1	91.4	91.4
60°	5433.1	2844.9	409.6	151.2	110.3	104.0	81.9	70.9	78.8	85.1	86.6
62.5°	5190.5	2342.4	439.5	143.3	99.2	92.9	80.3	66.2	75.6	80.3	81.9
65°	4665.9	1780.0	343.4	124.4	91.4	80.3	72.5	63.0	70.9	75.6	75.6
66°	4417.0	1551.6	293.0	115.0	88.2	75.6	69.3	63.0	69.3	72.5	74.0
67.5°	4031.1	1224.0	217.4	100.8	81.9	69.3	64.6	59.9	66.2	69.3	69.3
70°	3152.1	729.3	130.7	78.8	70.9	61.4	58.3	55.1	59.9	61.4	61.4
72.5°	1973.8	346.6	83.5	58.3	59.9	58.3	48.8	52.0	53.6	55.1	55.1
75°	956.2	137.0	56.7	42.5	48.8	55.1	39.4	45.7	47.3	50.4	48.8
77.5°	266.2	66.2	36.2	31.5	42.5	42.5	29.9	36.2	42.5	53.6	48.8
80°	77.2	42.5	23.6	23.6	29.9	29.9	20.5	25.2	28.4	31.5	33.1
82.5°	53.6	28.4	15.8	17.3	17.3	18.9	12.6	12.6	15.8	15.8	17.3
85°	42.5	12.6	9.5	11.0	7.9	9.5	6.3	6.3	7.9	6.3	6.3
87.5°	17.3	6.3	6.3	6.3	4.7	4.7	3.2	1.6	1.6	1.6	1.6
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)