

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: P1210201

Luminaire Tested: **ARCH2-50-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7586 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

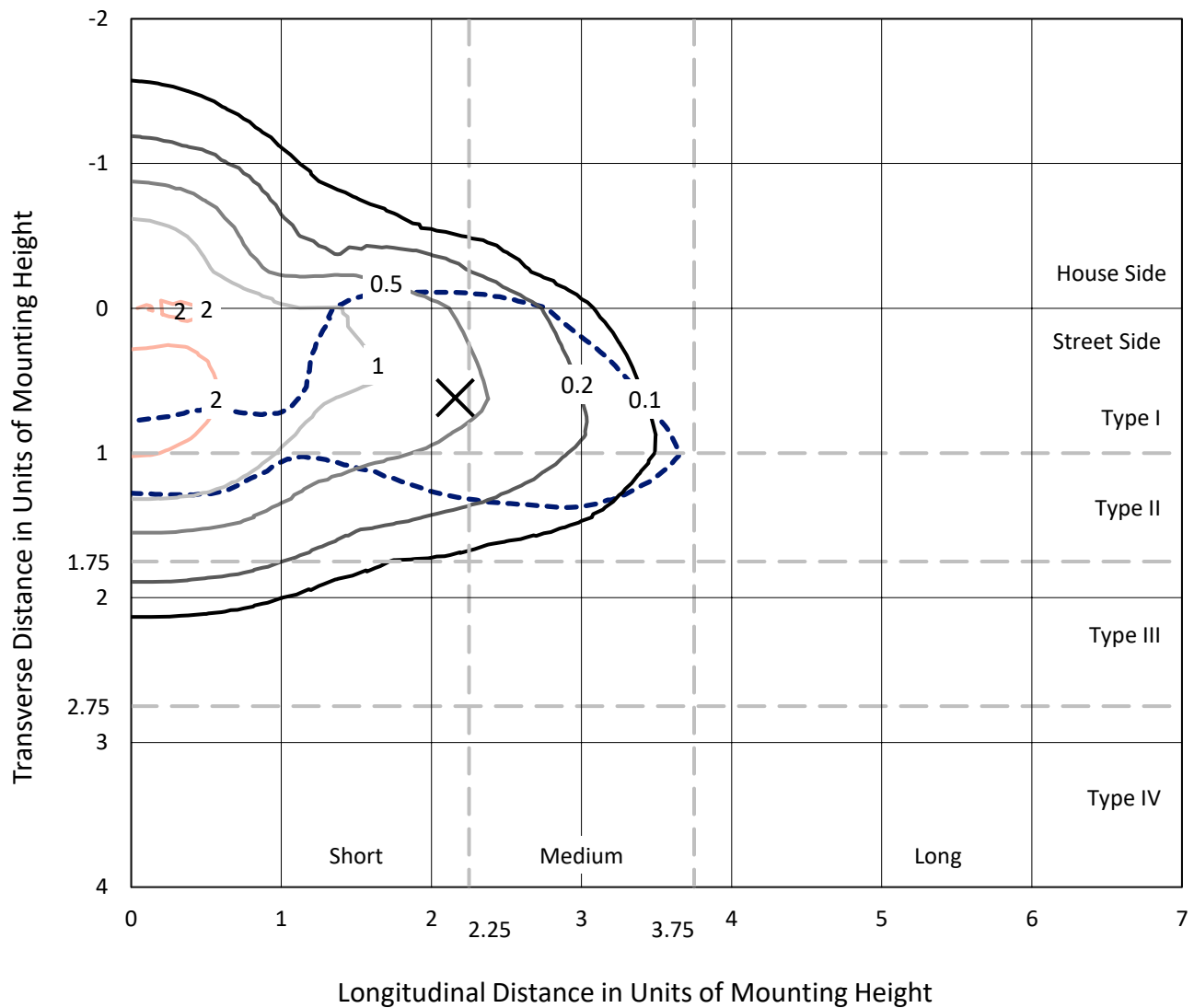


REPORT NUMBER: P1210201

CATALOG NUMBER: ARCH2-50-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

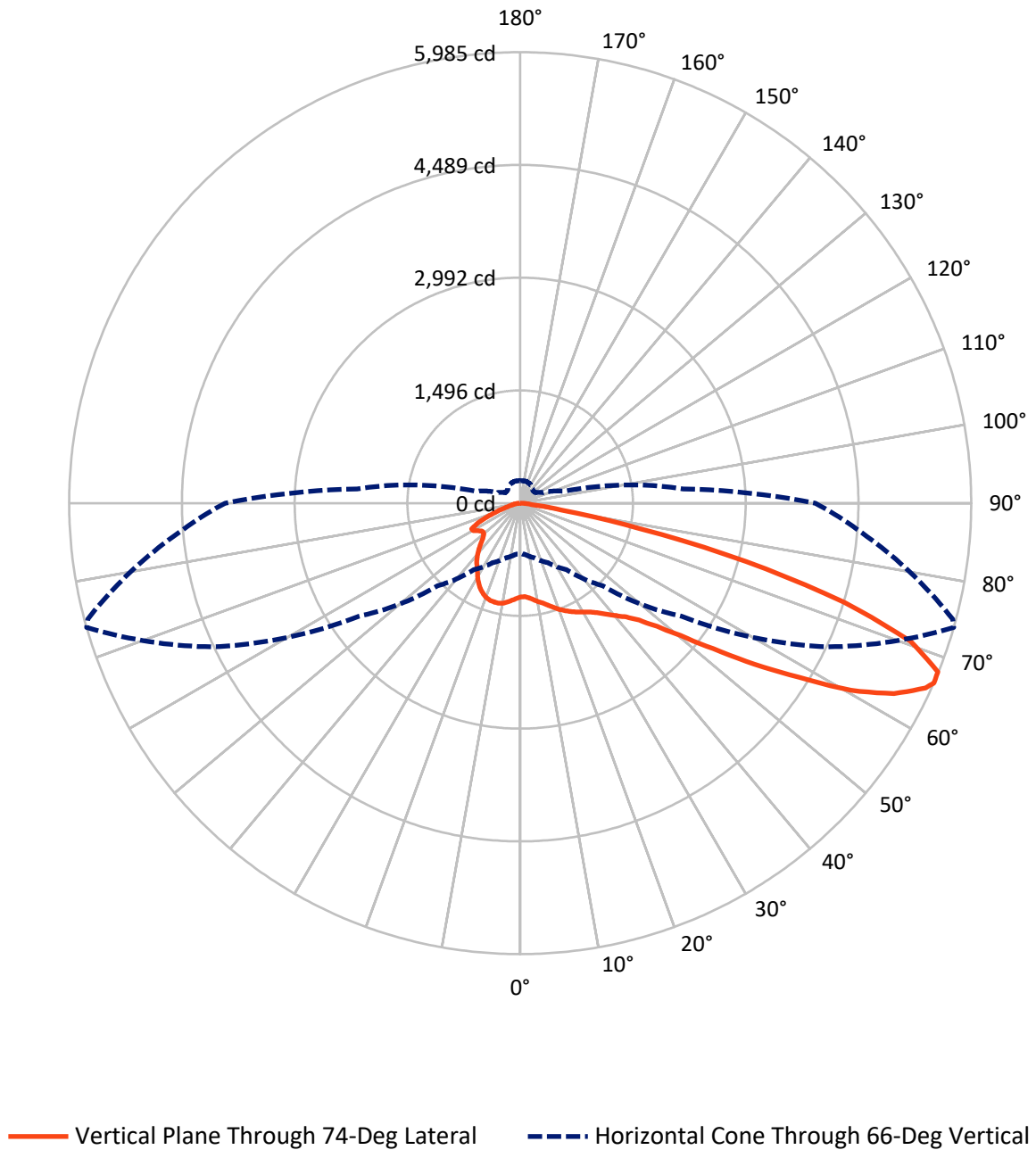
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210201
CATALOG NUMBER: ARCH2-50-727-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210201

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.4	0.0	1847.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5738.6	0.0	5738.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	7586.0	0.0	7586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.6
10°-20°	364.8	4.8
20°-30°	684.6	9.0
30°-40°	1053.0	13.9
40°-50°	1416.4	18.7
50°-60°	1675.1	22.1
60°-70°	1549.5	20.4
70°-80°	651.9	8.6
80°-90°	72.1	1.0
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°	7586.0	100.0
0°-180°	7586.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210201

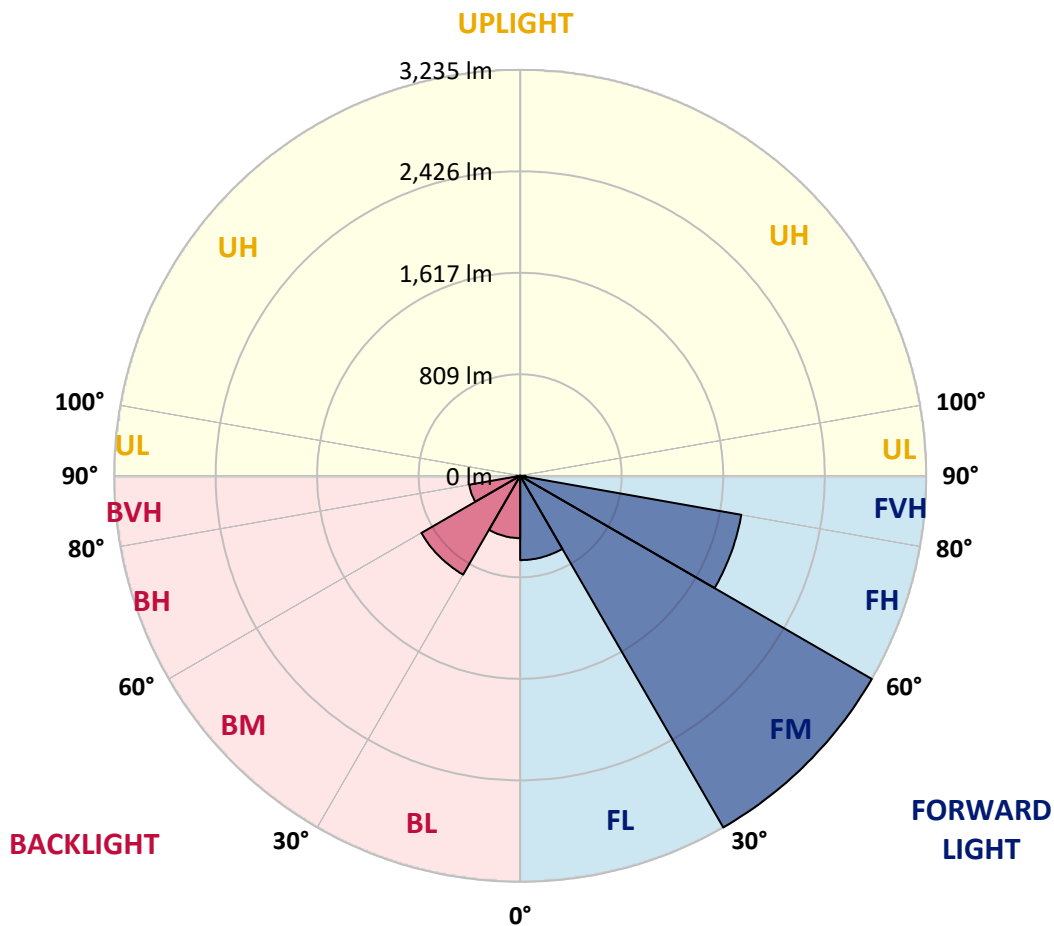
CATALOG NUMBER: ARCH2-50-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	671.5	8.9			
FM	(30°-60°)	3235.0	42.6			
FH	(60°-80°)	1789.0	23.6			G1/1800
FVH	(80°-90°)	43.2	0.6			G1/100
BL	(0°-30°)	496.5	6.5	B1/500		
BM	(30°-60°)	909.5	12.0	B1/1000		
BH	(60°-80°)	412.4	5.4	B1/500		G1/500
BVH	(80°-90°)	29.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P1210201

CATALOG NUMBER: ARCH2-50-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1239.7	1237.7	1241.6	1247.5	1250.4	1245.5	1243.6	1242.6	1242.6	1239.7	1244.6
5°	1181.1	1180.1	1188.9	1199.7	1220.2	1234.8	1254.3	1266.0	1262.1	1256.3	1260.2
7.5°	1105.0	1103.0	1113.8	1134.3	1162.6	1194.8	1242.6	1279.7	1294.4	1292.4	1291.4
10°	1134.3	1132.3	1131.3	1125.5	1135.2	1166.5	1216.3	1281.7	1331.4	1332.4	1333.4
12.5°	1235.8	1240.7	1235.8	1217.2	1195.8	1184.1	1213.3	1286.5	1362.7	1368.5	1392.9
15°	1374.4	1369.5	1359.8	1338.3	1305.1	1270.0	1248.5	1309.0	1407.6	1412.5	1466.2
17.5°	1496.4	1500.3	1494.5	1474.0	1434.9	1389.0	1323.6	1348.0	1455.4	1469.1	1544.2
20°	1629.2	1644.8	1637.0	1611.6	1579.4	1511.1	1429.1	1404.7	1508.1	1517.9	1625.3
22.5°	1782.4	1799.0	1784.4	1760.0	1733.6	1649.7	1544.2	1474.0	1552.1	1572.6	1703.4
25°	1965.9	1981.6	1967.9	1929.8	1896.6	1794.1	1668.2	1552.1	1595.0	1617.5	1766.8
27.5°	2111.4	2123.1	2135.8	2113.3	2062.6	1956.2	1797.1	1633.1	1638.0	1661.4	1825.4
30°	2241.2	2270.5	2281.2	2284.2	2241.2	2122.1	1928.8	1717.0	1675.0	1699.5	1883.9
32.5°	2418.9	2462.8	2445.2	2462.8	2437.4	2278.3	2065.5	1803.9	1722.9	1745.3	1939.6
35°	2678.5	2713.7	2667.8	2654.1	2613.1	2436.4	2197.3	1893.7	1786.3	1810.7	1992.3
37.5°	2957.7	2997.7	2931.3	2876.7	2798.6	2592.6	2310.5	2011.8	1874.2	1893.7	2041.1
40°	3201.7	3234.9	3177.3	3105.1	2974.3	2730.3	2408.1	2094.8	1962.0	1986.4	2097.7
42.5°	3427.2	3448.7	3384.3	3315.0	3140.2	2854.2	2513.6	2182.6	2064.5	2088.0	2143.6
45°	3655.6	3672.2	3582.4	3483.8	3278.8	2967.5	2629.7	2305.6	2214.9	2246.1	2217.8
47.5°	3696.6	3701.5	3685.9	3619.5	3388.2	3075.8	2773.2	2470.6	2444.2	2478.4	2345.7
50°	3412.6	3456.5	3553.1	3618.5	3432.1	3166.6	2916.7	2706.8	2760.5	2804.4	2611.2
52.5°	2861.1	2903.0	3126.6	3374.5	3326.7	3187.1	3070.9	3006.5	3206.6	3259.3	2972.3
55°	2279.3	2316.4	2552.6	2909.9	2986.0	3093.4	3235.9	3389.1	3775.7	3810.8	3368.6
57.5°	1877.1	1897.6	2066.5	2410.1	2532.1	2793.7	3324.7	3844.0	4354.5	4408.2	3713.2
60°	1539.4	1561.8	1687.7	1970.8	2132.9	2365.2	3254.4	4293.0	5045.6	5045.6	4155.4
62.5°	1158.7	1178.2	1295.3	1516.9	1789.3	2002.1	3029.9	4590.8	5566.9	5543.5	4475.6
65°	795.6	811.2	896.1	1043.5	1288.5	1706.3	2723.4	4594.7	5912.5	5881.2	4612.2
66°	667.7	681.3	753.6	872.7	1078.6	1548.2	2615.1	4511.7	5984.7	5940.8	4554.7
67.5°	527.1	536.9	584.7	655.0	790.7	1253.4	2444.2	4276.5	5977.9	5951.5	4408.2
70°	376.8	383.6	418.8	433.4	467.6	725.3	1941.5	3745.4	5498.6	5506.4	3832.3
72.5°	291.9	302.6	324.1	327.0	319.2	385.6	1178.2	3124.6	4498.0	4495.1	2844.5
75°	235.2	241.1	251.8	257.7	255.7	248.9	498.8	2331.0	3096.3	3132.4	1593.1
77.5°	185.5	184.5	194.3	202.1	207.9	195.2	228.4	1366.6	1623.3	1577.4	598.4
80°	136.7	136.7	150.3	153.3	162.0	164.0	152.3	527.1	557.4	506.6	155.2
82.5°	89.8	89.8	104.4	106.4	115.2	127.9	110.3	158.1	154.2	146.4	70.3
85°	48.8	46.9	51.7	58.6	63.4	75.2	66.4	79.1	81.0	80.0	46.9
87.5°	9.8	8.8	13.7	15.6	17.6	23.4	21.5	32.2	44.9	43.9	20.5
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: P1210201

CATALOG NUMBER: ARCH2-50-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1251.4	1250.4	1261.2	1273.9	1288.5	1297.3	1301.2	1308.0	1303.1	1305.1	1311.0
5°	1270.0	1272.9	1288.5	1305.1	1311.9	1307.0	1296.3	1292.4	1283.6	1281.7	1279.7
7.5°	1297.3	1302.2	1317.8	1321.7	1301.2	1267.0	1242.6	1229.0	1214.3	1210.4	1208.5
10°	1342.2	1345.1	1349.0	1309.0	1258.2	1212.4	1182.1	1169.4	1159.6	1151.8	1153.8
12.5°	1398.8	1396.9	1366.6	1283.6	1211.4	1164.5	1144.0	1136.2	1129.4	1124.5	1123.5
15°	1470.1	1456.4	1369.5	1248.5	1167.5	1128.4	1113.8	1110.8	1103.0	1103.0	1102.1
17.5°	1542.3	1507.2	1367.6	1211.4	1125.5	1104.0	1095.2	1093.3	1091.3	1090.3	1093.3
20°	1614.5	1552.1	1351.9	1165.5	1096.2	1083.5	1081.6	1082.5	1080.6	1083.5	1081.6
22.5°	1678.0	1581.3	1322.7	1116.7	1075.7	1074.7	1069.8	1071.8	1078.6	1079.6	1082.5
25°	1726.8	1592.1	1279.7	1071.8	1061.1	1059.1	1065.0	1072.8	1078.6	1079.6	1084.5
27.5°	1766.8	1586.2	1226.0	1036.7	1035.7	1046.4	1064.0	1066.9	1067.9	1067.9	1064.0
30°	1797.1	1573.5	1157.7	997.6	1002.5	1028.8	1045.4	1045.4	1037.6	1035.7	1041.5
32.5°	1803.9	1556.9	1083.5	957.6	965.4	996.6	1017.1	1010.3	1001.5	1001.5	1005.4
35°	1809.8	1534.5	1024.0	902.9	914.6	951.7	971.3	957.6	947.8	944.9	943.9
37.5°	1807.8	1525.7	970.3	833.6	849.2	885.4	898.0	885.4	870.7	863.9	872.7
40°	1809.8	1519.8	902.9	757.5	773.1	794.6	811.2	801.4	787.7	770.2	779.0
42.5°	1821.5	1527.7	828.7	683.3	683.3	695.0	723.3	716.5	683.3	676.5	684.3
45°	1883.9	1569.6	754.6	609.1	598.4	606.2	635.5	606.2	585.7	585.7	592.5
47.5°	2035.2	1647.7	689.2	543.7	518.3	533.9	541.8	514.4	498.8	494.9	501.7
50°	2343.7	1803.9	650.1	490.0	458.8	470.5	465.6	464.6	449.0	451.0	454.9
52.5°	2812.2	2108.5	638.4	463.7	424.6	427.5	422.7	424.6	421.7	431.5	434.4
55°	3322.8	2429.6	653.0	467.6	401.2	380.7	382.6	392.4	404.1	419.7	422.7
57.5°	3704.4	2590.7	691.1	493.9	371.9	340.7	345.6	364.1	386.5	399.2	406.1
60°	3988.5	2571.1	746.7	500.8	336.8	304.6	313.3	340.7	360.2	370.9	377.8
62.5°	4081.2	2449.1	760.4	451.0	290.9	270.4	291.9	320.2	329.0	340.7	345.6
65°	4005.1	2276.3	660.8	366.1	255.7	245.0	276.2	297.7	309.4	315.3	316.3
66°	3915.3	2172.9	607.2	332.9	243.1	237.2	270.4	288.0	299.7	298.7	299.7
67.5°	3718.1	1956.2	520.3	286.0	224.5	225.5	260.6	272.3	276.2	273.3	273.3
70°	3047.5	1377.3	372.9	216.7	197.2	210.8	234.3	237.2	246.0	242.1	242.1
72.5°	1879.1	676.5	249.9	165.9	175.7	197.2	196.2	206.0	226.5	232.3	236.2
75°	923.4	274.3	165.0	140.6	157.2	165.0	163.0	187.4	216.7	242.1	250.9
77.5°	350.4	136.7	115.2	123.0	126.9	124.0	129.8	169.8	216.7	262.6	271.4
80°	108.4	94.7	90.8	101.5	95.7	90.8	97.6	140.6	183.5	199.1	199.1
82.5°	65.4	74.2	70.3	69.3	64.4	65.4	70.3	100.5	141.5	148.4	148.4
85°	45.9	48.8	40.0	38.1	37.1	36.1	36.1	58.6	83.9	83.0	85.9
87.5°	17.6	19.5	14.6	14.6	13.7	9.8	7.8	9.8	9.8	6.8	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)