

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: P1211547

Luminaire Tested: **ARCH4-40-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

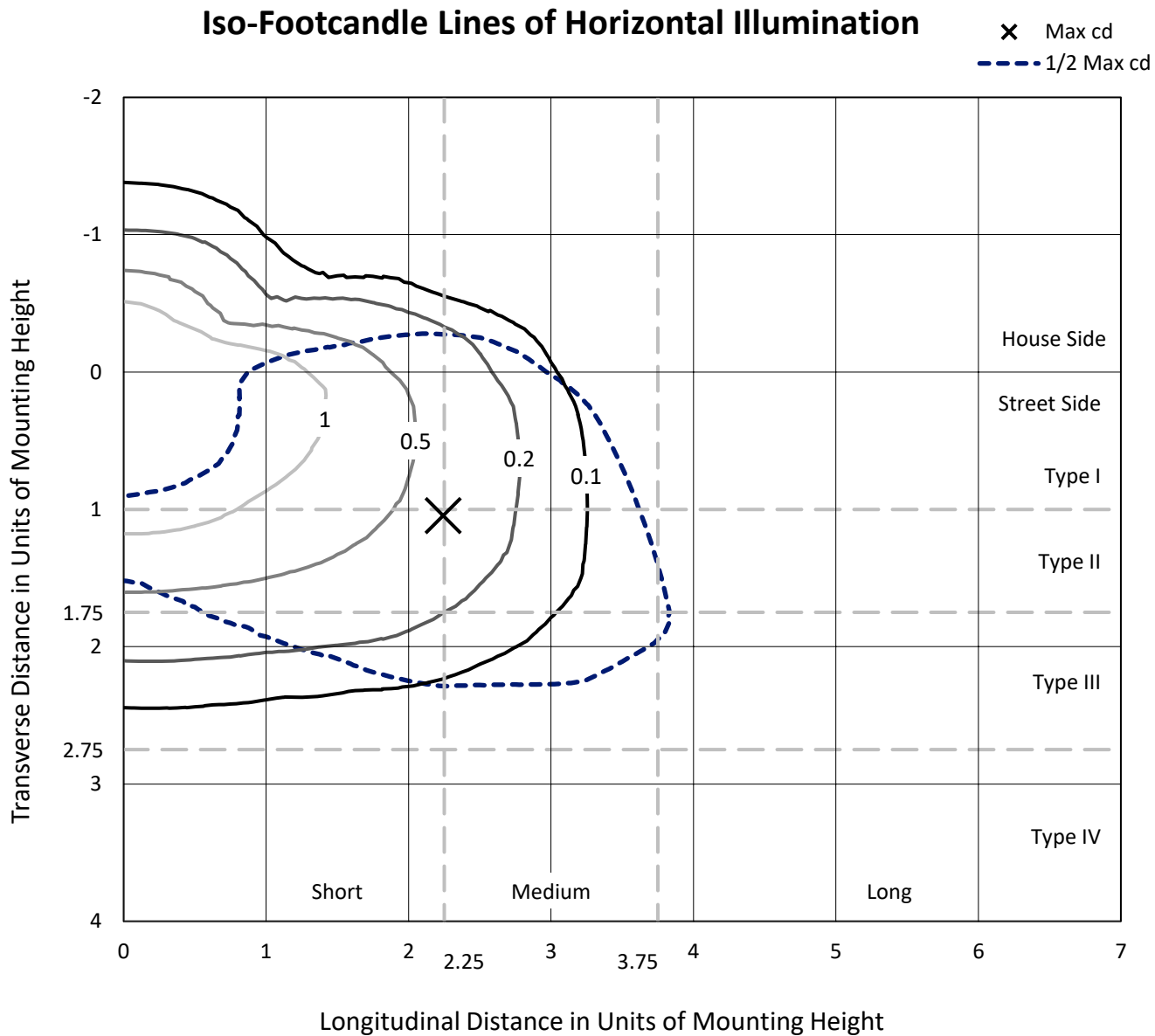
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7127 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.8
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

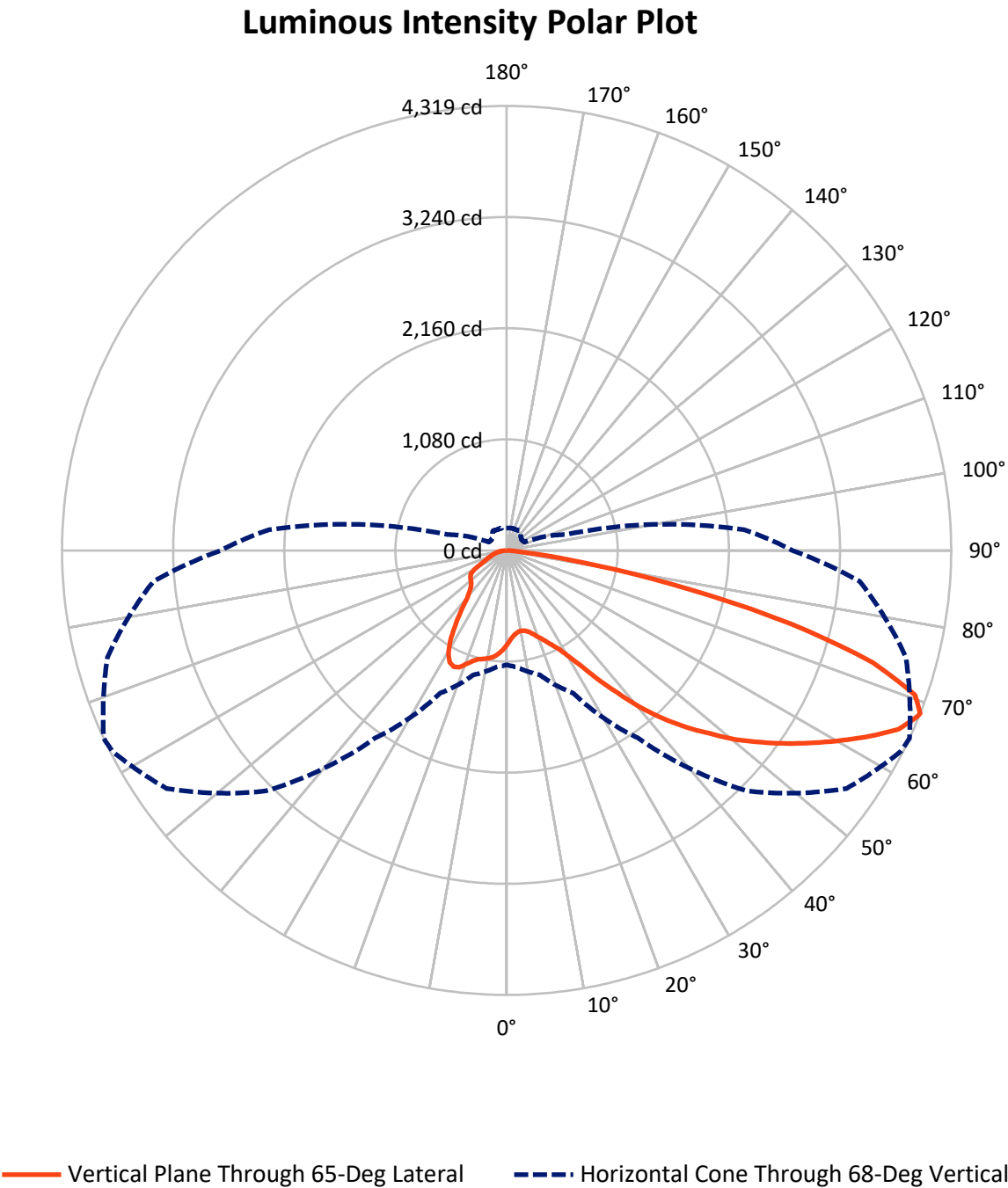


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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.3	0.0	1747.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5379.7	0.0	5379.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	7127.0	0.0	7127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.2
10°-20°	283.4	4.0
20°-30°	512.9	7.2
30°-40°	806.9	11.3
40°-50°	1201.8	16.9
50°-60°	1576.5	22.1
60°-70°	1724.0	24.2
70°-80°	853.1	12.0
80°-90°	81.4	1.1
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°	7127.0	100.0
0°-180°	7127.0	100.0

Coefficient of Utilization



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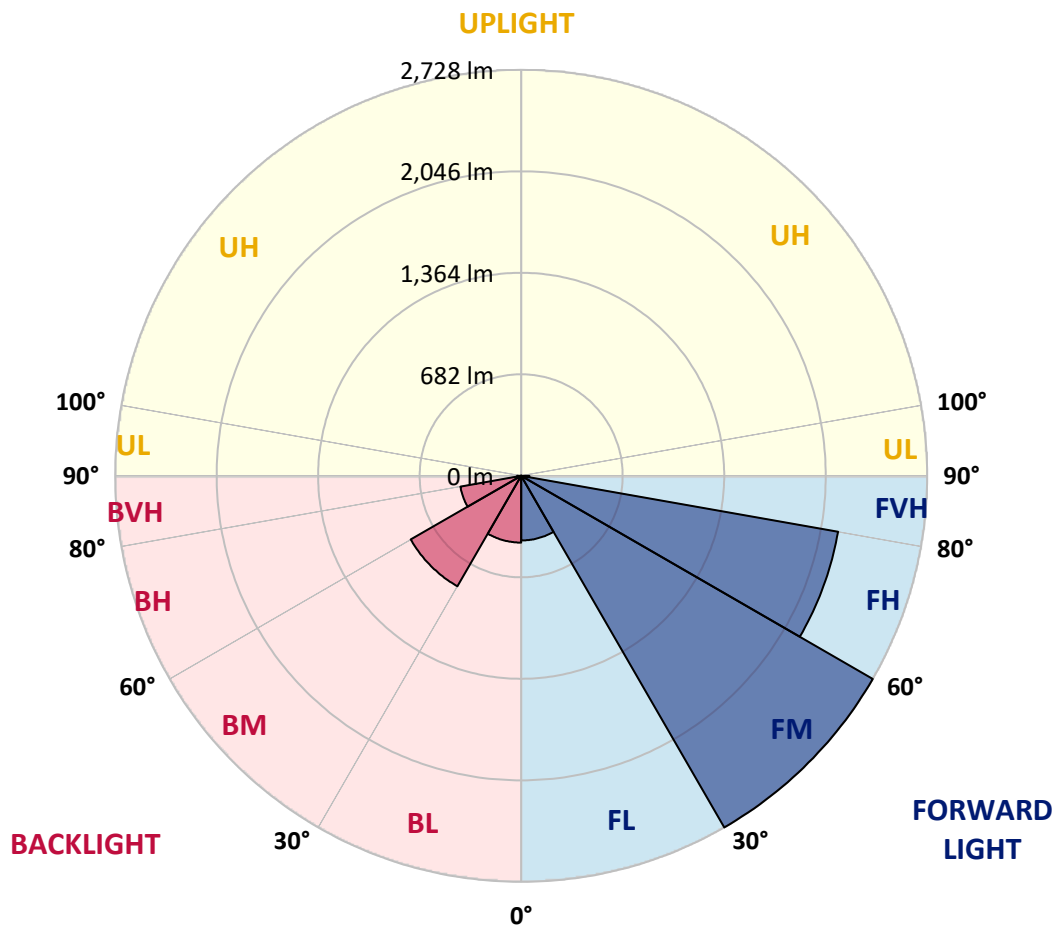
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.5	6.1			
FM	(30°-60°)	2728.1	38.3			
FH	(60°-80°)	2162.4	30.3			G2/5000
FVH	(80°-90°)	54.7	0.8			G1/100
BL	(0°-30°)	448.9	6.3	B1/500		
BM	(30°-60°)	857.1	12.0	B1/1000		
BH	(60°-80°)	414.7	5.8	B1/500		G1/500
BVH	(80°-90°)	26.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	794.9	793.1	797.7	802.3	812.4	824.4	840.9	854.7	856.5	882.3	902.5
5°	748.1	745.3	749.9	755.4	760.0	774.7	792.2	812.4	820.7	858.4	901.6
7.5°	752.7	751.8	753.6	751.8	751.8	758.2	770.1	790.4	799.5	844.6	906.1
10°	779.3	781.2	782.1	776.6	771.1	768.3	772.0	785.8	792.2	845.5	926.4
12.5°	823.4	826.2	827.1	817.0	809.7	797.7	791.3	796.8	801.4	854.7	954.9
15°	883.2	885.0	878.6	872.1	853.8	839.1	823.4	818.8	820.7	874.0	987.0
17.5°	953.0	950.3	950.3	934.6	910.7	887.8	862.0	858.4	858.4	905.2	1033.0
20°	1029.3	1032.1	1023.8	1002.6	978.8	942.9	917.2	900.6	902.5	941.1	1089.0
22.5°	1139.6	1144.2	1122.1	1091.8	1055.0	1013.7	976.9	950.3	951.2	987.9	1146.9
25°	1258.1	1260.0	1246.2	1205.7	1156.1	1097.3	1048.6	1014.6	1013.7	1040.3	1221.4
27.5°	1379.4	1387.7	1360.1	1321.5	1275.6	1202.1	1137.7	1091.8	1084.4	1120.3	1314.2
30°	1504.4	1514.5	1487.9	1450.2	1393.2	1330.7	1254.5	1201.2	1196.6	1244.3	1438.3
32.5°	1630.3	1633.1	1612.0	1580.7	1529.2	1470.4	1408.9	1350.0	1345.4	1423.6	1599.1
35°	1733.3	1741.5	1726.8	1719.5	1681.8	1627.6	1567.8	1533.8	1545.8	1646.0	1807.7
37.5°	1857.3	1865.6	1849.1	1847.2	1835.3	1788.4	1747.0	1749.8	1761.8	1897.8	2027.3
40°	2036.5	2045.7	2003.5	1985.1	1985.1	1939.1	1925.3	1990.6	2006.2	2145.9	2256.2
42.5°	2188.2	2202.9	2178.1	2166.1	2130.3	2098.1	2114.7	2206.6	2233.2	2383.0	2455.6
45°	2261.7	2272.7	2302.1	2337.1	2302.1	2246.1	2308.6	2412.4	2450.1	2601.7	2655.0
47.5°	2301.2	2311.3	2345.3	2439.1	2463.0	2416.1	2504.3	2633.9	2659.6	2818.6	2845.3
50°	2306.7	2338.9	2383.0	2476.7	2586.1	2592.5	2701.0	2859.1	2889.4	3031.8	3012.5
52.5°	2261.7	2274.6	2365.5	2523.6	2644.9	2755.2	2915.1	3075.0	3097.1	3232.2	3160.5
55°	2188.2	2206.6	2297.5	2512.6	2701.9	2909.6	3132.9	3287.3	3312.1	3427.0	3297.4
57.5°	2122.0	2131.2	2228.6	2480.4	2758.9	3064.0	3326.8	3508.8	3525.3	3597.9	3398.5
60°	2048.5	2058.6	2156.0	2411.5	2801.2	3180.7	3529.0	3732.1	3746.8	3778.1	3516.2
62.5°	1858.2	1884.9	2007.1	2297.5	2790.1	3314.0	3745.0	3952.7	3971.1	3937.1	3609.0
65°	1509.0	1546.7	1696.5	2039.3	2687.2	3400.4	3921.4	4155.8	4187.0	4056.5	3633.8
67.5°	1171.7	1198.4	1318.8	1618.4	2326.0	3357.2	4035.4	4295.5	4304.7	4037.2	3495.9
68°	1111.1	1137.7	1252.6	1530.2	2225.9	3305.7	4032.6	4299.2	4319.4	4016.1	3442.6
70°	850.1	880.4	989.8	1212.2	1793.9	2978.5	3864.5	4210.9	4208.2	3760.6	3111.8
72.5°	531.2	548.7	624.0	764.6	1186.4	2266.3	3280.0	3713.7	3721.1	3065.8	2386.7
75°	337.3	337.3	333.6	370.4	608.4	1291.2	2438.1	2859.1	2864.6	2146.8	1504.4
77.5°	293.2	284.9	245.4	207.7	242.6	501.8	1442.9	1846.3	1816.0	1156.1	714.1
80°	247.2	233.4	201.3	167.3	156.2	157.2	554.2	937.4	897.0	416.3	237.1
82.5°	178.3	166.3	151.6	131.4	120.4	93.7	115.8	271.1	264.7	120.4	77.2
85°	96.5	87.3	85.5	86.4	72.6	57.9	48.7	59.7	59.7	52.4	44.1
87.5°	34.0	24.8	29.4	33.1	28.5	23.9	19.3	23.0	23.9	23.0	21.1
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°	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7
2.5°	914.4	923.6	945.7	965.0	978.8	990.7	997.1	999.9	1006.3	1007.2	1005.4
5°	921.8	945.7	978.8	1007.2	1022.9	1029.3	1031.1	1032.1	1029.3	1031.1	1029.3
7.5°	941.1	971.4	1018.3	1043.1	1045.8	1035.7	1036.6	1033.0	1036.6	1040.3	1040.3
10°	970.5	1009.1	1053.2	1062.4	1050.4	1044.9	1055.9	1078.0	1085.4	1095.5	1095.5
12.5°	1009.1	1055.0	1086.3	1078.0	1067.0	1085.4	1117.5	1139.6	1146.9	1150.6	1147.8
15°	1053.2	1102.8	1118.4	1090.9	1111.1	1150.6	1161.6	1148.8	1130.4	1122.1	1126.7
17.5°	1109.3	1150.6	1141.4	1123.0	1169.0	1174.5	1138.7	1097.3	1067.9	1056.9	1064.2
20°	1168.1	1203.9	1161.6	1169.9	1198.4	1139.6	1071.6	1018.3	992.5	987.9	995.3
22.5°	1230.6	1253.5	1181.9	1224.1	1181.9	1062.4	980.6	953.0	946.6	953.9	960.4
25°	1301.3	1298.6	1216.8	1240.7	1120.3	967.7	919.0	917.2	917.2	921.8	931.0
27.5°	1381.3	1338.1	1251.7	1218.6	1013.7	889.6	880.4	881.3	878.6	879.5	884.1
30°	1474.1	1391.4	1290.3	1146.0	894.2	830.8	827.1	824.4	817.9	816.1	817.9
32.5°	1590.8	1447.4	1329.8	1026.5	789.4	770.1	768.3	753.6	738.0	736.1	742.6
35°	1738.8	1549.5	1350.0	876.7	703.0	702.1	695.7	672.7	652.5	652.5	647.9
37.5°	1907.9	1680.9	1358.3	730.6	631.4	636.0	617.6	588.2	572.5	563.4	566.1
40°	2080.7	1830.7	1357.4	602.9	568.9	569.8	556.0	520.2	481.6	458.6	464.1
42.5°	2247.0	1966.7	1333.5	534.9	518.3	515.6	504.5	455.8	423.7	405.3	406.2
45°	2380.2	2107.3	1296.7	494.4	472.4	477.0	452.2	422.7	393.3	376.8	375.9
47.5°	2513.5	2213.9	1237.9	469.6	438.4	430.1	420.0	399.8	377.7	359.3	360.3
50°	2634.8	2304.9	1182.8	453.1	407.1	386.0	387.8	375.9	356.6	340.0	339.1
52.5°	2720.3	2364.6	1152.4	443.9	369.4	346.5	352.9	346.5	328.1	316.1	315.2
55°	2805.8	2410.6	1162.6	431.9	328.1	309.7	320.7	318.9	308.8	305.1	306.0
57.5°	2874.7	2445.5	1198.4	409.9	288.6	277.5	295.9	290.4	283.1	284.0	284.0
60°	2941.8	2490.5	1240.7	359.3	254.6	255.5	272.9	262.8	258.2	266.5	267.4
62.5°	3011.6	2539.2	1205.7	285.8	225.2	231.6	251.8	243.5	245.4	257.3	261.0
65°	3003.3	2534.6	982.4	234.3	199.4	212.3	242.6	239.9	240.8	245.4	247.2
67.5°	2834.2	2372.9	675.5	199.4	181.0	196.7	235.3	224.2	225.2	222.4	223.3
68°	2777.3	2315.9	595.5	193.9	177.4	193.0	231.6	221.5	222.4	219.6	218.7
70°	2466.6	1983.2	376.8	170.9	164.5	182.9	213.2	209.5	208.6	206.8	206.8
72.5°	1880.3	1464.0	198.5	148.0	149.8	167.3	190.2	197.6	193.0	193.9	199.4
75°	1245.3	880.4	137.9	126.8	131.4	143.4	169.1	183.8	179.2	182.0	179.2
77.5°	658.9	474.2	110.3	107.5	107.5	115.8	139.7	162.7	162.7	160.8	158.1
80°	216.0	167.3	88.2	84.5	86.4	91.0	112.1	133.3	136.0	132.3	130.5
82.5°	72.6	77.2	66.2	61.6	63.4	67.1	84.5	102.0	102.9	95.6	93.7
85°	45.0	51.5	41.4	40.4	40.4	41.4	51.5	56.1	51.5	46.0	47.8
87.5°	21.1	25.7	19.3	16.5	13.8	11.9	9.2	3.7	3.7	1.8	1.8
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)