

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: P1209915

Luminaire Tested: **ARCH1-20-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209915
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: ARCH1-20-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

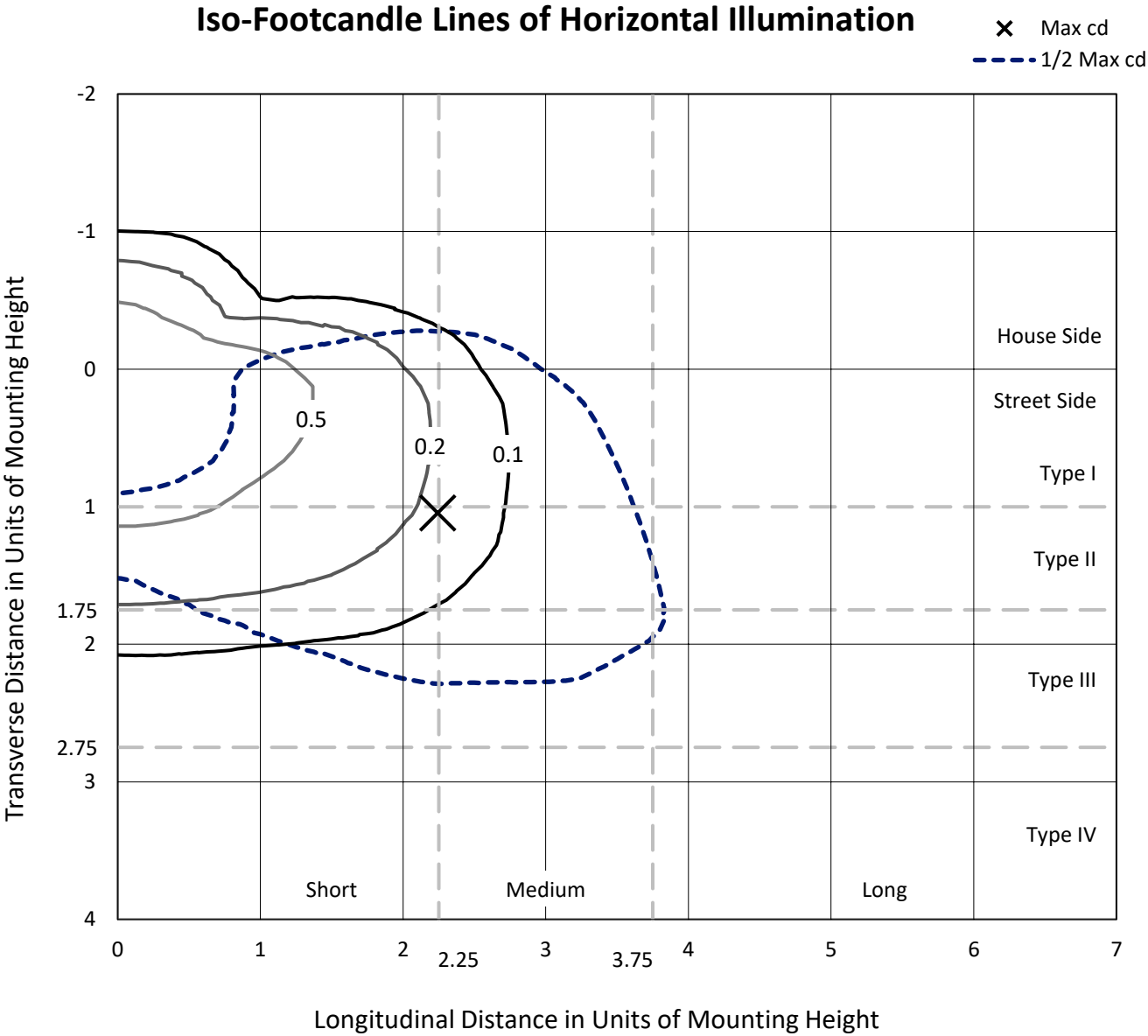
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.5
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



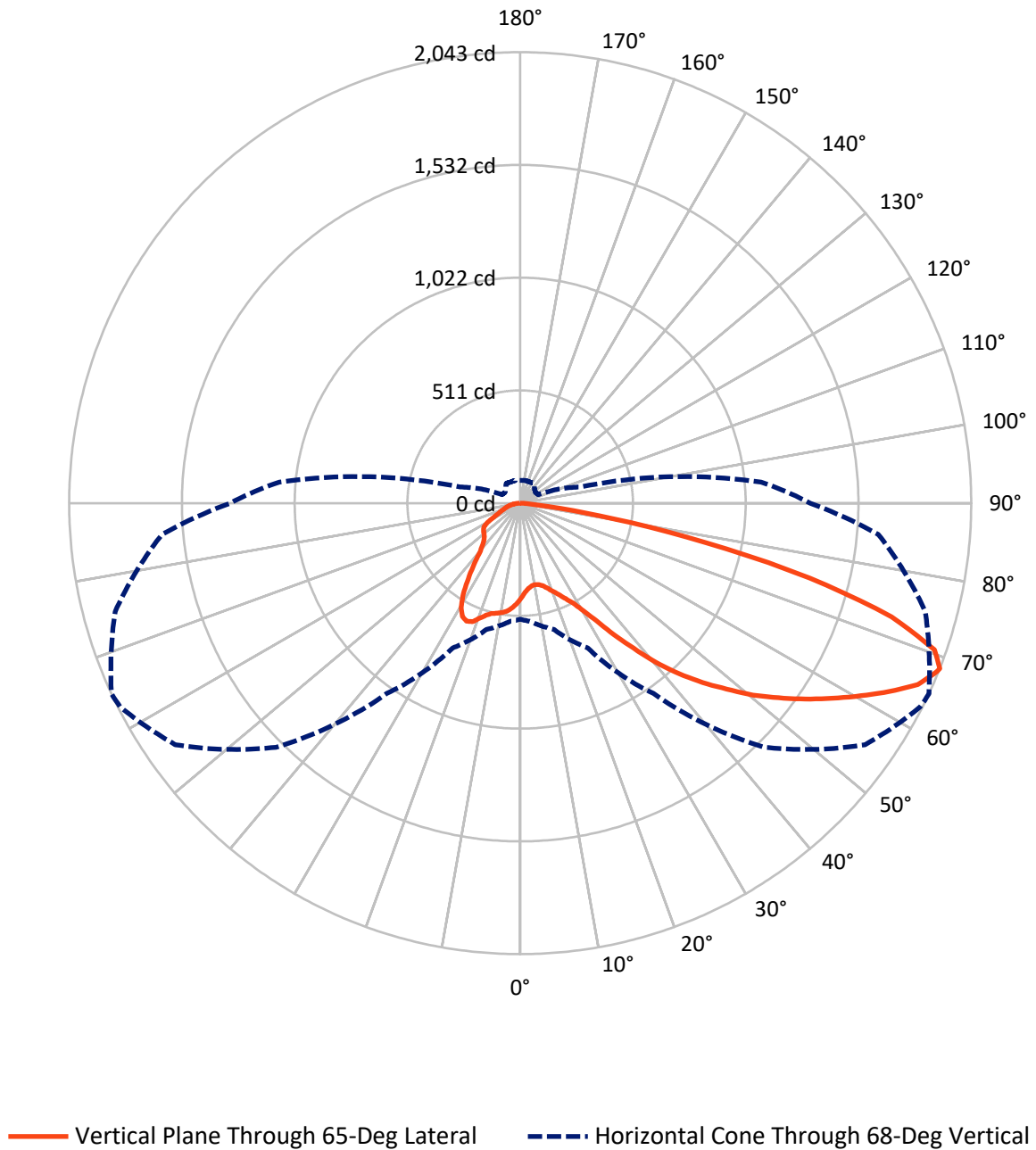
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Luminous Intensity Polar Plot



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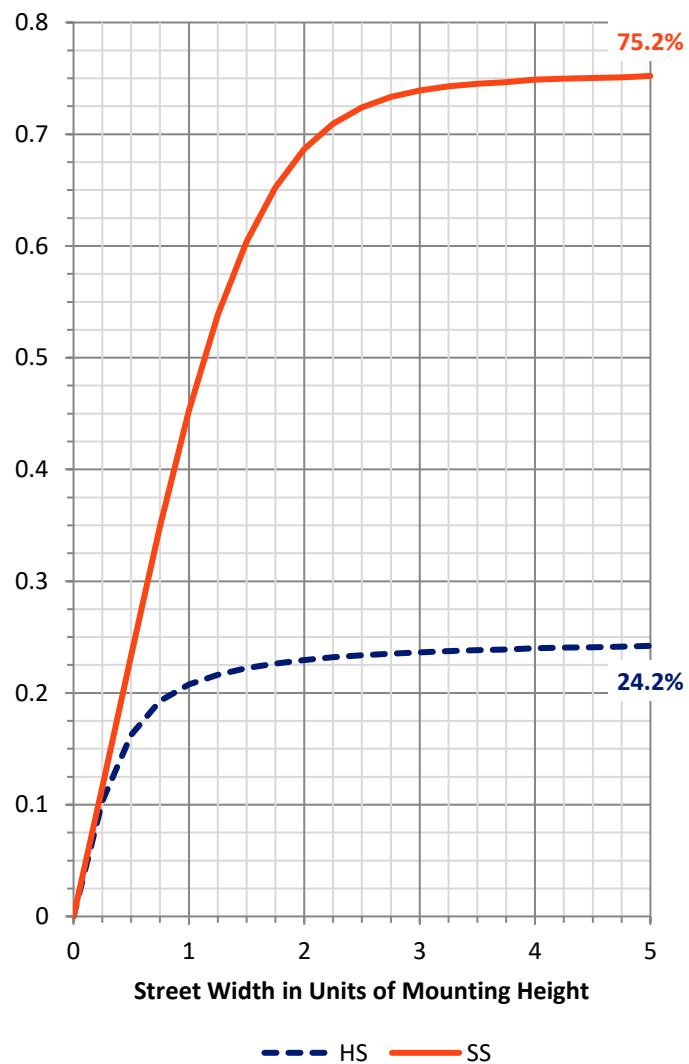
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.5	0.0	826.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	2544.5	0.0	2544.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	3371.0	0.0	3371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.2
10°-20°	134.0	4.0
20°-30°	242.6	7.2
30°-40°	381.7	11.3
40°-50°	568.4	16.9
50°-60°	745.7	22.1
60°-70°	815.4	24.2
70°-80°	403.5	12.0
80°-90°	38.5	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°	3371.0	100.0
0°-180°	3371.0	100.0

Coefficient of Utilization



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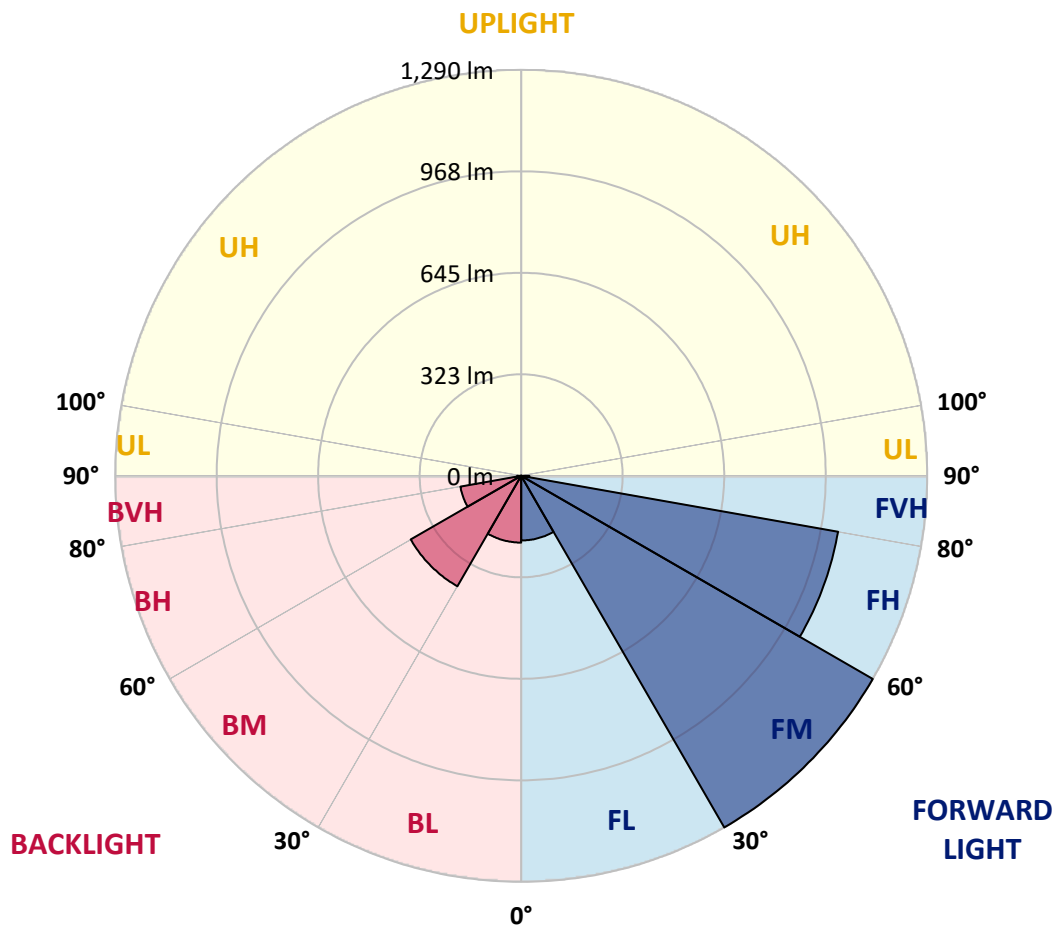
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.5	6.1			
FM	(30°-60°)	1290.4	38.3			
FH	(60°-80°)	1022.8	30.3			G1/1800
FVH	(80°-90°)	25.9	0.8			G1/100
BL	(0°-30°)	212.3	6.3	B1/500		
BM	(30°-60°)	405.4	12.0	B1/1000		
BH	(60°-80°)	196.2	5.8	B1/500		G1/500
BVH	(80°-90°)	12.6	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	376.0	375.1	377.3	379.5	384.3	389.9	397.7	404.3	405.1	417.3	426.9
5°	353.8	352.5	354.7	357.3	359.5	366.4	374.7	384.3	388.2	406.0	426.4
7.5°	356.0	355.6	356.4	355.6	355.6	358.6	364.3	373.8	378.2	399.5	428.6
10°	368.6	369.5	369.9	367.3	364.7	363.4	365.1	371.7	374.7	399.9	438.2
12.5°	389.5	390.8	391.2	386.4	383.0	377.3	374.3	376.9	379.0	404.3	451.6
15°	417.7	418.6	415.6	412.5	403.8	396.9	389.5	387.3	388.2	413.4	466.9
17.5°	450.8	449.5	449.5	442.1	430.8	419.9	407.7	406.0	406.0	428.2	488.6
20°	486.8	488.2	484.2	474.2	462.9	446.0	433.8	426.0	426.9	445.1	515.1
22.5°	539.0	541.2	530.8	516.4	499.0	479.5	462.1	449.5	449.9	467.3	542.5
25°	595.1	596.0	589.4	570.3	546.8	519.0	496.0	479.9	479.5	492.1	577.7
27.5°	652.5	656.4	643.3	625.1	603.3	568.6	538.1	516.4	512.9	529.9	621.6
30°	711.6	716.4	703.8	685.9	659.0	629.4	593.3	568.1	566.0	588.6	680.3
32.5°	771.1	772.4	762.4	747.7	723.3	695.5	666.4	638.6	636.4	673.3	756.4
35°	819.8	823.7	816.8	813.3	795.5	769.8	741.6	725.5	731.1	778.5	855.0
37.5°	878.5	882.4	874.6	873.7	868.1	845.9	826.3	827.6	833.3	897.6	958.9
40°	963.3	967.6	947.6	938.9	938.9	917.2	910.7	941.5	948.9	1015.0	1067.2
42.5°	1035.0	1041.9	1030.2	1024.6	1007.6	992.4	1000.2	1043.7	1056.3	1127.1	1161.5
45°	1069.8	1075.0	1088.9	1105.4	1088.9	1062.4	1091.9	1141.0	1158.9	1230.6	1255.8
47.5°	1088.5	1093.2	1109.3	1153.7	1165.0	1142.8	1184.5	1245.8	1258.0	1333.2	1345.8
50°	1091.1	1106.3	1127.1	1171.5	1223.2	1226.2	1277.5	1352.3	1366.6	1434.0	1424.9
52.5°	1069.8	1075.8	1118.9	1193.6	1251.0	1303.2	1378.8	1454.5	1464.9	1528.8	1494.9
55°	1035.0	1043.7	1086.7	1188.4	1278.0	1376.2	1481.8	1554.9	1566.6	1620.9	1559.6
57.5°	1003.7	1008.0	1054.1	1173.2	1304.9	1449.2	1573.6	1659.6	1667.5	1701.8	1607.5
60°	968.9	973.7	1019.8	1140.6	1324.9	1504.4	1669.2	1765.3	1772.2	1787.0	1663.1
62.5°	878.9	891.5	949.4	1086.7	1319.7	1567.5	1771.3	1869.6	1878.3	1862.2	1707.0
65°	713.8	731.6	802.4	964.6	1271.0	1608.3	1854.8	1965.6	1980.4	1918.7	1718.7
67.5°	554.2	566.8	623.8	765.5	1100.2	1587.9	1908.7	2031.7	2036.1	1909.6	1653.5
68°	525.5	538.1	592.5	723.8	1052.8	1563.6	1907.4	2033.5	2043.0	1899.6	1628.3
70°	402.1	416.4	468.2	573.3	848.5	1408.8	1827.9	1991.7	1990.4	1778.7	1471.8
72.5°	251.2	259.5	295.2	361.7	561.2	1071.9	1551.4	1756.6	1760.0	1450.1	1128.9
75°	159.5	159.5	157.8	175.2	287.8	610.7	1153.2	1352.3	1354.9	1015.4	711.6
77.5°	138.7	134.8	116.1	98.2	114.8	237.3	682.5	873.3	858.9	546.8	337.8
80°	116.9	110.4	95.2	79.1	73.9	74.3	262.1	443.4	424.3	196.9	112.1
82.5°	84.3	78.7	71.7	62.2	56.9	44.3	54.8	128.2	125.2	56.9	36.5
85°	45.6	41.3	40.4	40.9	34.3	27.4	23.0	28.3	28.3	24.8	20.9
87.5°	16.1	11.7	13.9	15.6	13.5	11.3	9.1	10.9	11.3	10.9	10.0
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°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	432.5	436.9	447.3	456.4	462.9	468.6	471.6	472.9	476.0	476.4	475.5
5°	436.0	447.3	462.9	476.4	483.8	486.8	487.7	488.2	486.8	487.7	486.8
7.5°	445.1	459.5	481.6	493.4	494.7	489.9	490.3	488.6	490.3	492.1	492.1
10°	459.0	477.3	498.1	502.5	496.8	494.2	499.5	509.9	513.4	518.1	518.1
12.5°	477.3	499.0	513.8	509.9	504.7	513.4	528.6	539.0	542.5	544.2	542.9
15°	498.1	521.6	529.0	516.0	525.5	544.2	549.4	543.4	534.7	530.8	532.9
17.5°	524.7	544.2	539.9	531.2	552.9	555.5	538.6	519.0	505.1	499.9	503.4
20°	552.5	569.4	549.4	553.4	566.8	539.0	506.8	481.6	469.5	467.3	470.8
22.5°	582.0	592.9	559.0	579.0	559.0	502.5	463.8	450.8	447.7	451.2	454.2
25°	615.5	614.2	575.5	586.8	529.9	457.7	434.7	433.8	433.8	436.0	440.3
27.5°	653.3	632.9	592.0	576.4	479.5	420.8	416.4	416.9	415.6	416.0	418.2
30°	697.2	658.1	610.3	542.1	422.9	393.0	391.2	389.9	386.9	386.0	386.9
32.5°	752.4	684.6	629.0	485.5	373.4	364.3	363.4	356.4	349.1	348.2	351.2
35°	822.4	732.9	638.6	414.7	332.5	332.1	329.1	318.2	308.6	308.6	306.5
37.5°	902.4	795.0	642.5	345.6	298.6	300.8	292.1	278.2	270.8	266.5	267.8
40°	984.1	865.9	642.0	285.2	269.1	269.5	263.0	246.0	227.8	216.9	219.5
42.5°	1062.8	930.2	630.7	253.0	245.2	243.9	238.6	215.6	200.4	191.7	192.1
45°	1125.8	996.7	613.3	233.9	223.4	225.6	213.9	200.0	186.0	178.2	177.8
47.5°	1188.9	1047.2	585.5	222.1	207.3	203.4	198.7	189.1	178.7	170.0	170.4
50°	1246.2	1090.2	559.4	214.3	192.6	182.6	183.4	177.8	168.7	160.8	160.4
52.5°	1286.7	1118.4	545.1	210.0	174.7	163.9	166.9	163.9	155.2	149.5	149.1
55°	1327.1	1140.2	549.9	204.3	155.2	146.5	151.7	150.8	146.1	144.3	144.8
57.5°	1359.7	1156.7	566.8	193.9	136.5	131.3	140.0	137.4	133.9	134.3	134.3
60°	1391.4	1178.0	586.8	170.0	120.4	120.8	129.1	124.3	122.1	126.1	126.5
62.5°	1424.5	1201.0	570.3	135.2	106.5	109.5	119.1	115.2	116.1	121.7	123.5
65°	1420.6	1198.9	464.7	110.8	94.3	100.4	114.8	113.5	113.9	116.1	116.9
67.5°	1340.6	1122.4	319.5	94.3	85.6	93.0	111.3	106.1	106.5	105.2	105.6
68°	1313.6	1095.4	281.7	91.7	83.9	91.3	109.5	104.8	105.2	103.9	103.5
70°	1166.7	938.1	178.2	80.9	77.8	86.5	100.8	99.1	98.7	97.8	97.8
72.5°	889.4	692.5	93.9	70.0	70.9	79.1	90.0	93.5	91.3	91.7	94.3
75°	589.0	416.4	65.2	60.0	62.2	67.8	80.0	86.9	84.8	86.1	84.8
77.5°	311.7	224.3	52.2	50.9	50.9	54.8	66.1	76.9	76.9	76.1	74.8
80°	102.2	79.1	41.7	40.0	40.9	43.0	53.0	63.0	64.3	62.6	61.7
82.5°	34.3	36.5	31.3	29.1	30.0	31.7	40.0	48.3	48.7	45.2	44.3
85°	21.3	24.3	19.6	19.1	19.1	19.6	24.3	26.5	24.3	21.7	22.6
87.5°	10.0	12.2	9.1	7.8	6.5	5.7	4.3	1.7	1.7	0.9	0.9
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)