

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: P836522

Luminaire Tested: **ARCH3-40-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836522
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: ARCH3-40-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA 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: 4473 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

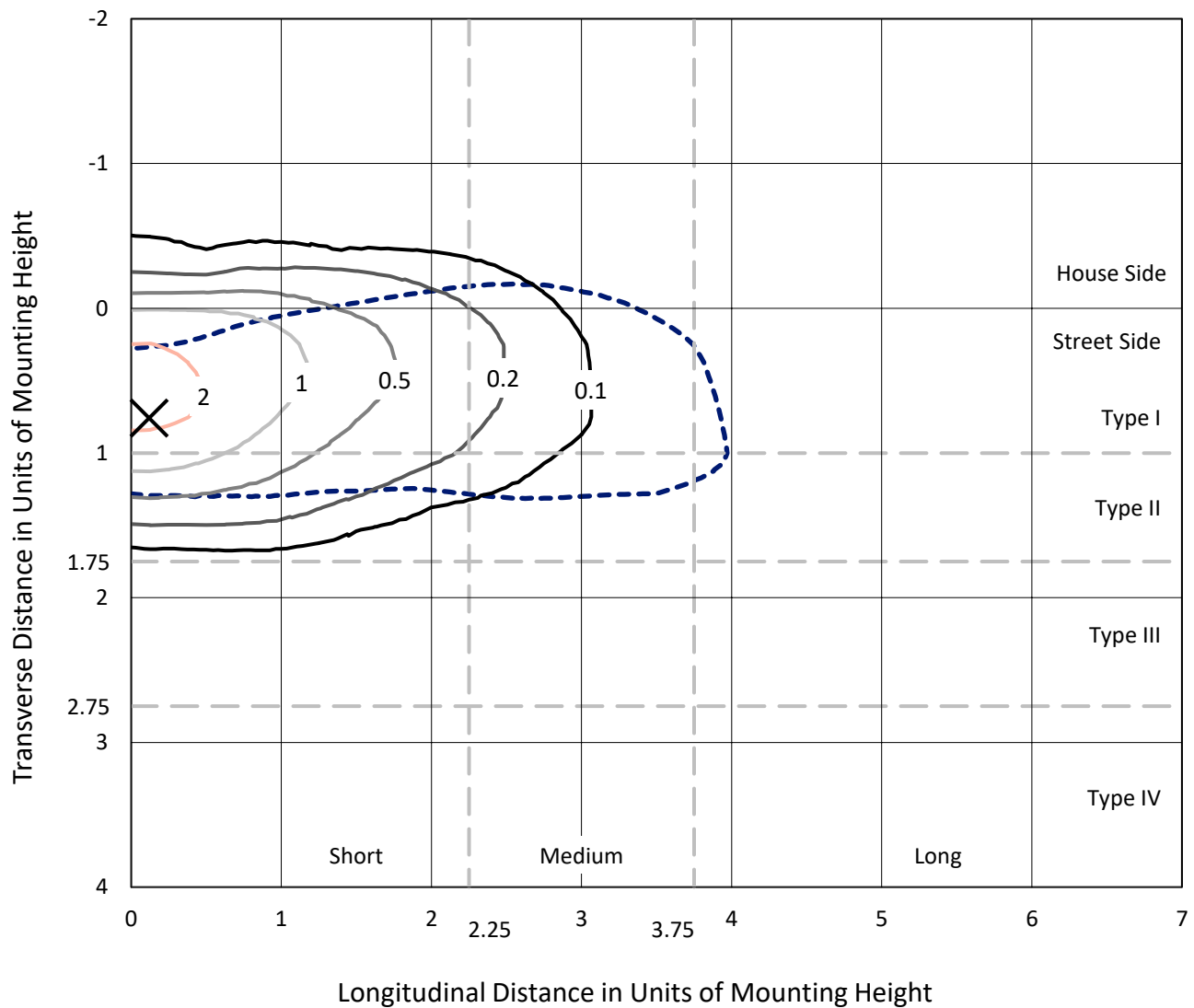


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

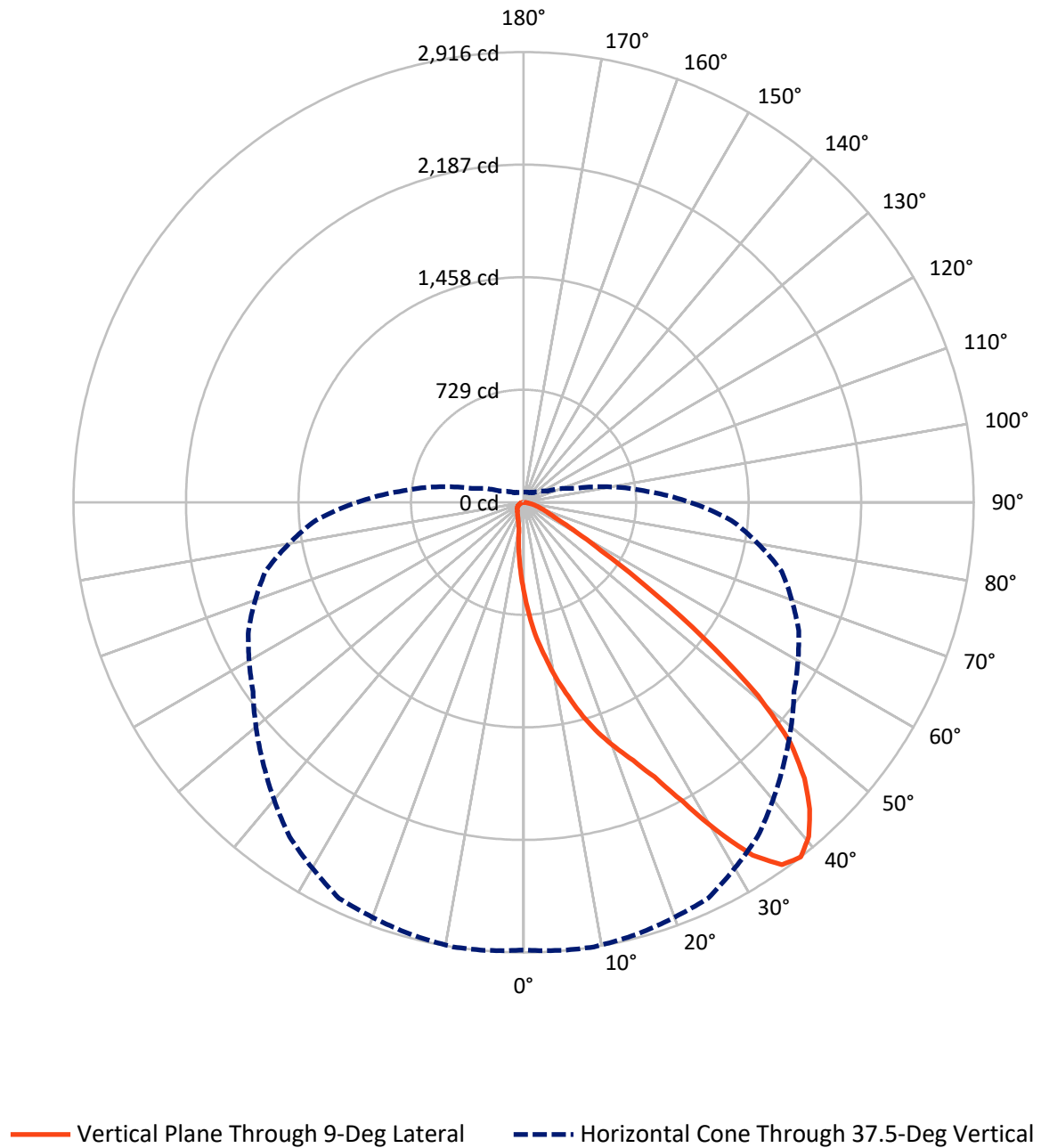


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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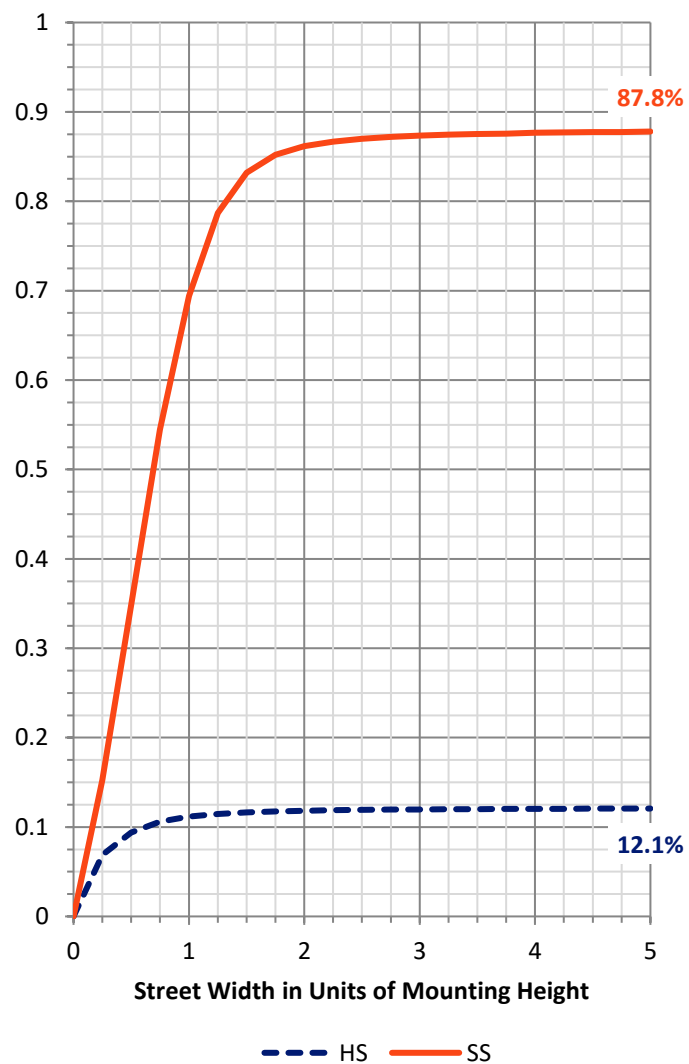
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.0	0.0	544.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3929.0	0.0	3929.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	4473.0	0.0	4473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.3
10°-20°	206.6	4.6
20°-30°	424.5	9.5
30°-40°	750.2	16.8
40°-50°	996.6	22.3
50°-60°	945.2	21.1
60°-70°	721.1	16.1
70°-80°	349.6	7.8
80°-90°	19.7	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°	4473.0	100.0
0°-180°	4473.0	100.0

Coefficient of Utilization



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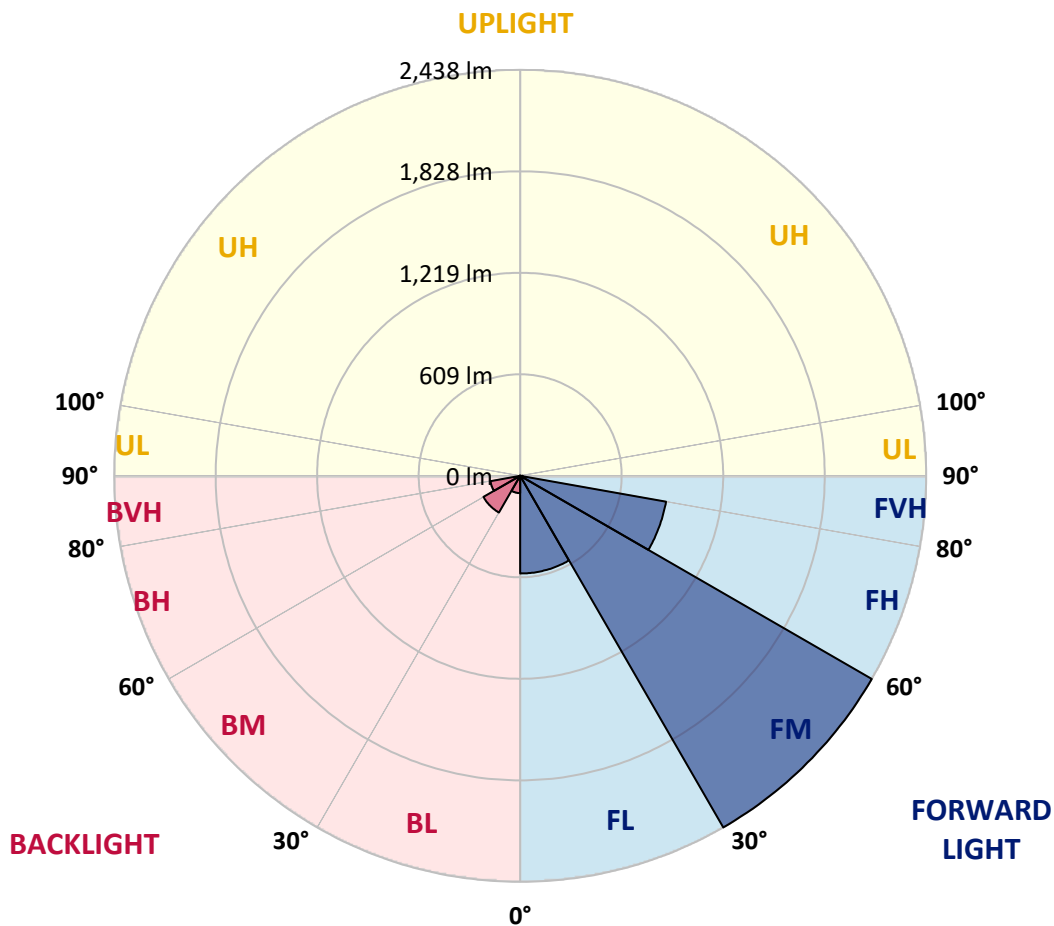
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.6	13.1			
FM	(30°-60°)	2437.6	54.5			
FH	(60°-80°)	889.2	19.9			G1/1800
FVH	(80°-90°)	15.6	0.3			G1/100
BL	(0°-30°)	103.8	2.3	B0/110		
BM	(30°-60°)	254.6	5.7	B1/1000		
BH	(60°-80°)	181.5	4.1	B1/500		G1/500
BVH	(80°-90°)	4.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3
2.5°	732.7	719.8	734.5	732.7	719.8	711.6	685.8	677.6	647.3	625.2	606.0
5°	883.2	870.4	883.2	879.6	861.2	841.0	798.8	771.2	717.1	669.3	626.2
7.5°	1008.1	1008.1	1013.6	1014.5	992.5	961.3	908.9	867.6	791.4	718.0	649.1
10°	1143.1	1144.0	1155.9	1147.7	1118.3	1076.0	1009.9	957.6	865.8	769.4	671.2
12.5°	1287.2	1288.1	1291.8	1288.1	1253.2	1199.1	1119.2	1050.3	944.8	828.2	701.5
15°	1431.4	1432.3	1436.9	1430.4	1391.9	1328.5	1237.6	1153.2	1028.3	894.3	738.2
17.5°	1566.3	1568.2	1571.8	1563.6	1523.2	1447.9	1355.2	1253.2	1117.4	965.0	779.5
20°	1687.5	1689.4	1692.1	1681.1	1640.7	1565.4	1465.3	1358.8	1208.3	1037.5	824.5
22.5°	1809.6	1811.5	1816.1	1801.4	1756.4	1670.1	1571.8	1461.7	1304.7	1117.4	876.8
25°	1965.7	1967.6	1971.2	1950.1	1888.6	1787.6	1683.9	1570.9	1409.3	1207.3	941.1
27.5°	2194.3	2192.5	2192.5	2153.9	2048.4	1917.1	1796.8	1682.0	1522.3	1303.7	1011.8
30°	2477.1	2472.5	2469.8	2417.4	2266.9	2063.0	1912.5	1785.8	1630.6	1405.7	1088.0
32.5°	2730.5	2730.5	2725.0	2669.9	2510.2	2259.5	2035.5	1886.8	1735.3	1508.5	1166.9
35°	2880.2	2886.6	2883.9	2842.5	2725.9	2470.7	2201.7	2008.0	1845.4	1615.9	1261.5
37.5°	2900.4	2913.2	2916.0	2891.2	2829.7	2643.3	2386.2	2139.2	1966.6	1731.6	1353.3
40°	2818.7	2846.2	2846.2	2842.5	2820.5	2725.0	2541.4	2291.7	2091.5	1851.9	1446.1
42.5°	2692.9	2721.3	2717.7	2731.4	2725.9	2705.7	2628.6	2434.0	2216.4	1975.8	1530.5
45°	2528.5	2557.9	2550.6	2575.4	2586.4	2608.4	2619.4	2533.1	2339.4	2110.8	1625.1
47.5°	2265.0	2314.6	2325.6	2369.7	2415.6	2484.5	2536.8	2568.9	2454.2	2255.8	1727.9
50°	1875.7	1945.5	1967.6	2060.3	2186.1	2328.4	2412.8	2524.9	2535.0	2404.6	1839.0
52.5°	1343.2	1424.0	1458.0	1610.4	1869.3	2117.2	2269.6	2427.5	2566.2	2546.9	1959.3
55°	868.6	937.4	970.5	1113.7	1458.0	1847.3	2100.7	2301.8	2548.7	2677.3	2097.0
57.5°	535.3	574.8	596.8	719.8	1036.6	1501.1	1879.4	2186.1	2495.5	2790.2	2240.2
60°	360.8	383.8	394.8	452.6	704.2	1122.0	1575.5	2064.9	2425.7	2866.4	2370.6
62.5°	239.6	247.0	258.0	293.8	464.6	787.8	1210.1	1848.2	2373.4	2871.0	2467.0
65°	185.5	189.1	193.7	209.3	286.5	550.9	851.1	1497.5	2295.3	2773.7	2497.3
67.5°	146.0	149.7	155.2	163.4	207.5	373.7	579.3	1097.2	2135.6	2621.3	2447.7
70°	114.8	117.5	121.2	128.5	161.6	270.8	382.9	729.0	1813.3	2476.2	2291.7
72.5°	90.9	93.6	97.3	104.7	131.3	198.3	262.6	454.5	1398.3	2299.0	1991.4
75°	71.6	73.5	76.2	83.5	105.6	154.2	178.1	271.8	950.3	1974.9	1551.6
77.5°	35.8	44.1	50.5	57.8	77.1	106.5	118.4	150.6	401.2	1013.6	740.0
80°	21.1	25.7	27.5	32.1	50.5	64.3	64.3	60.6	126.7	389.3	302.1
82.5°	11.9	16.5	17.4	18.4	30.3	36.7	29.4	22.0	25.7	130.4	88.1
85°	3.7	5.5	6.4	7.3	10.1	11.0	10.1	9.2	7.3	12.9	8.3
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8	2.8	2.8	2.8
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°	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3
2.5°	594.9	583.0	560.1	538.9	518.7	504.1	490.3	477.4	468.2	460.9	460.0
5°	603.2	579.3	535.3	494.0	456.3	425.1	398.5	377.4	361.7	350.7	349.8
7.5°	614.2	577.5	510.5	449.0	393.0	348.0	309.4	280.9	260.7	252.5	246.1
10°	623.4	575.7	485.7	404.0	330.5	273.6	227.7	199.2	184.5	179.0	176.3
12.5°	639.0	577.5	464.6	362.7	276.4	209.3	174.4	158.8	152.4	147.8	146.9
15°	662.0	585.8	444.4	322.3	221.3	168.9	148.7	138.6	132.2	131.3	130.4
17.5°	684.9	593.1	426.0	280.9	183.6	146.9	133.1	124.9	120.3	119.4	119.4
20°	711.6	602.3	405.8	241.5	157.0	132.2	121.2	114.8	109.3	108.3	108.3
22.5°	742.8	615.1	386.5	206.6	139.6	121.2	112.0	104.7	100.1	99.2	99.2
25°	785.0	634.4	370.9	180.9	127.6	112.0	103.7	97.3	93.6	91.8	91.8
27.5°	831.8	661.1	359.9	165.3	119.4	104.7	96.4	90.9	87.2	85.4	85.4
30°	884.2	690.4	352.6	158.8	114.8	98.2	90.9	85.4	80.8	79.9	79.9
32.5°	942.0	724.4	348.0	159.8	113.8	93.6	85.4	79.9	76.2	74.4	74.4
35°	1006.3	762.0	345.2	165.3	115.7	90.0	80.8	75.3	71.6	69.8	69.8
37.5°	1077.9	806.1	345.2	170.8	120.3	89.1	76.2	70.7	67.9	66.1	66.1
40°	1144.9	852.9	348.9	177.2	124.9	89.1	72.5	67.9	64.3	62.4	62.4
42.5°	1197.2	879.6	351.6	183.6	127.6	88.1	68.9	64.3	61.5	59.7	59.7
45°	1256.9	908.0	346.1	186.4	127.6	86.3	66.1	61.5	58.8	56.9	56.9
47.5°	1323.0	942.9	345.2	188.2	124.9	82.6	63.4	58.8	56.9	55.1	55.1
50°	1390.1	981.5	347.1	187.3	121.2	77.1	59.7	56.9	54.2	52.3	52.3
52.5°	1466.3	1021.9	350.7	185.5	112.9	70.7	56.9	54.2	51.4	49.6	48.7
55°	1550.7	1066.0	358.1	181.8	101.9	64.3	54.2	51.4	47.7	45.9	45.0
57.5°	1648.0	1120.1	366.3	174.4	90.0	58.8	51.4	47.7	42.2	39.5	38.6
60°	1740.8	1181.6	375.5	157.0	78.0	53.3	48.7	43.2	37.6	35.8	34.9
62.5°	1828.0	1242.2	380.1	125.8	66.1	48.7	45.9	39.5	34.0	32.1	31.2
65°	1884.0	1308.3	370.0	85.4	54.2	45.0	42.2	36.7	31.2	28.5	28.5
67.5°	1887.7	1339.6	335.1	56.0	44.1	40.4	38.6	33.1	27.5	25.7	24.8
70°	1794.9	1292.7	256.2	44.1	36.7	34.9	34.9	29.4	23.9	22.0	21.1
72.5°	1581.9	1144.9	163.4	35.8	31.2	29.4	29.4	24.8	21.1	18.4	17.4
75°	1248.7	883.2	87.2	29.4	25.7	24.8	23.0	20.2	17.4	15.6	14.7
77.5°	573.8	389.3	40.4	21.1	19.3	19.3	17.4	14.7	13.8	11.9	11.9
80°	226.8	132.2	20.2	13.8	12.9	12.9	12.9	10.1	10.1	8.3	7.3
82.5°	62.4	27.5	10.1	8.3	8.3	8.3	7.3	6.4	6.4	5.5	5.5
85°	6.4	4.6	4.6	4.6	4.6	3.7	3.7	2.8	1.8	1.8	1.8
87.5°	2.8	2.8	2.8	2.8	2.8	1.8	0.9	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)