

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: P198796

Luminaire Tested: **XNV-AF-01-LED-U-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4W-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.8 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

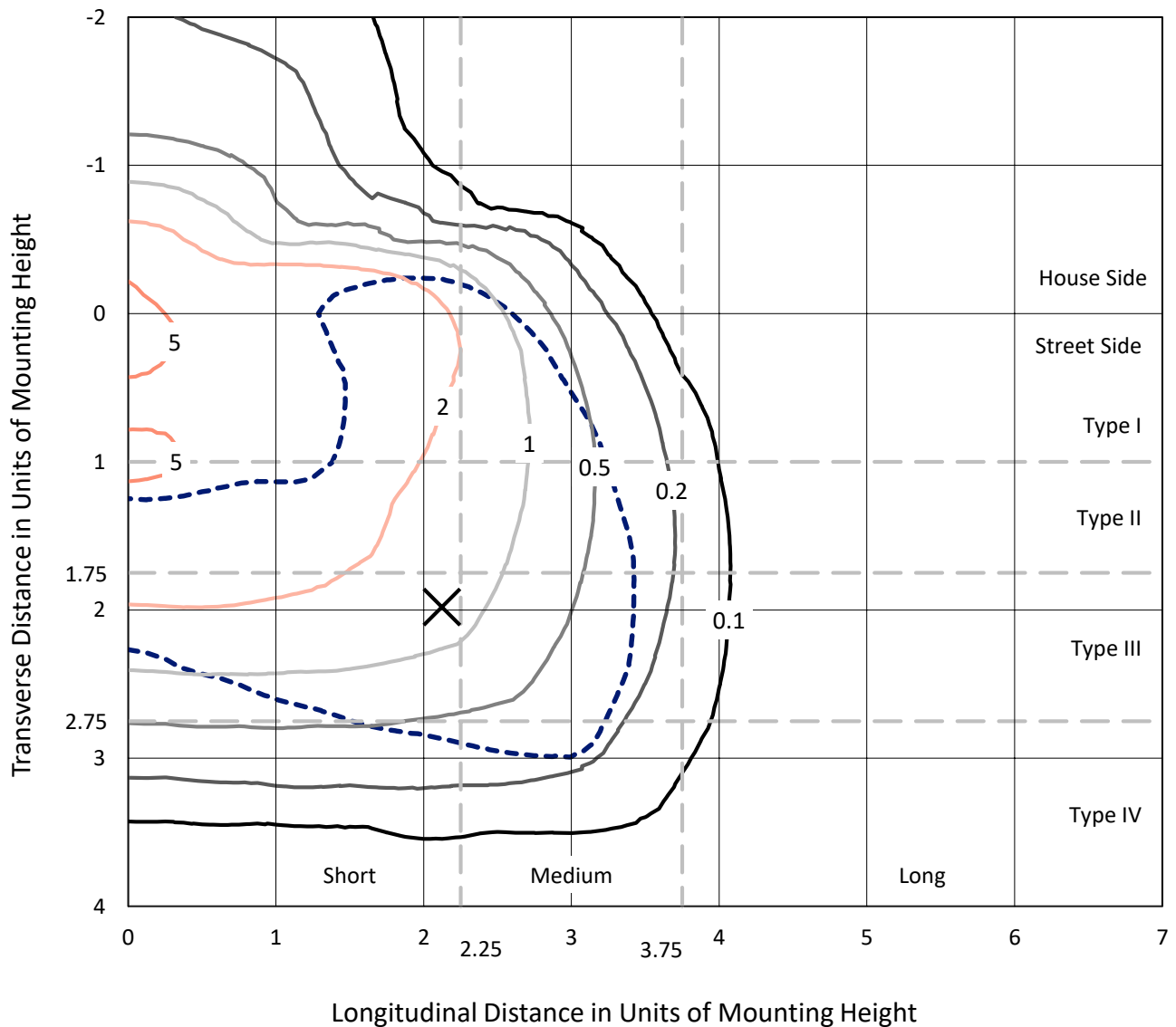
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

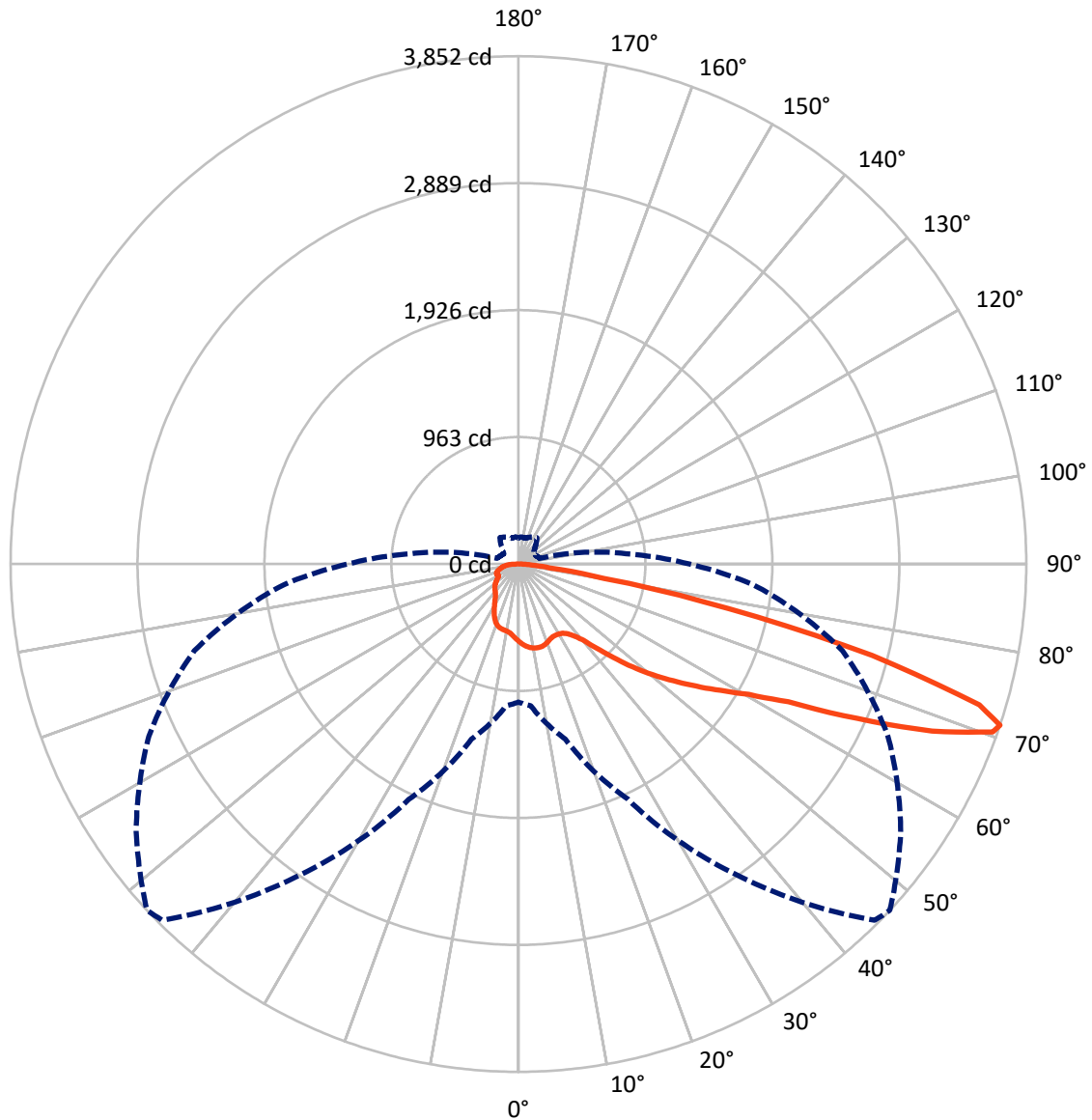
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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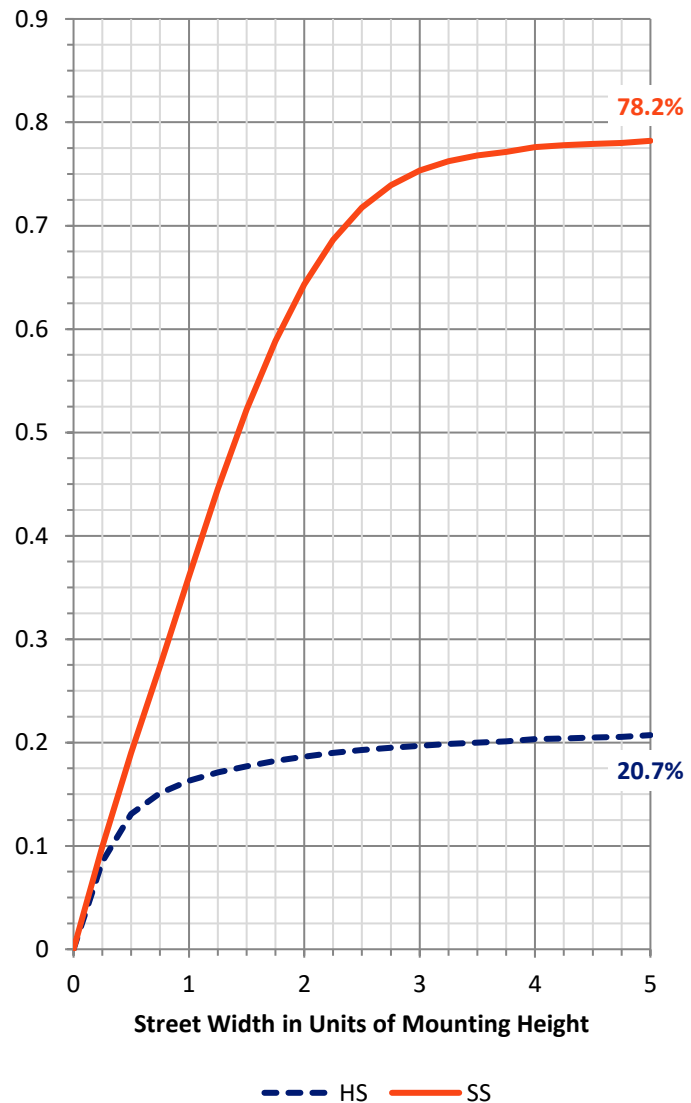
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1058.7	0.0	1058.7
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	3881.2	0.0	3881.2
	% Fixture	78.6	0.0	78.6
Total	Lumens	4939.8	0.0	4939.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	164.1	3.3
20°-30°	243.8	4.9
30°-40°	350.1	7.1
40°-50°	620.7	12.6
50°-60°	1062.2	21.5
60°-70°	1507.9	30.5
70°-80°	825.9	16.7
80°-90°	109.0	2.2
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°	4939.8	100.0
0°-180°	4939.8	100.0



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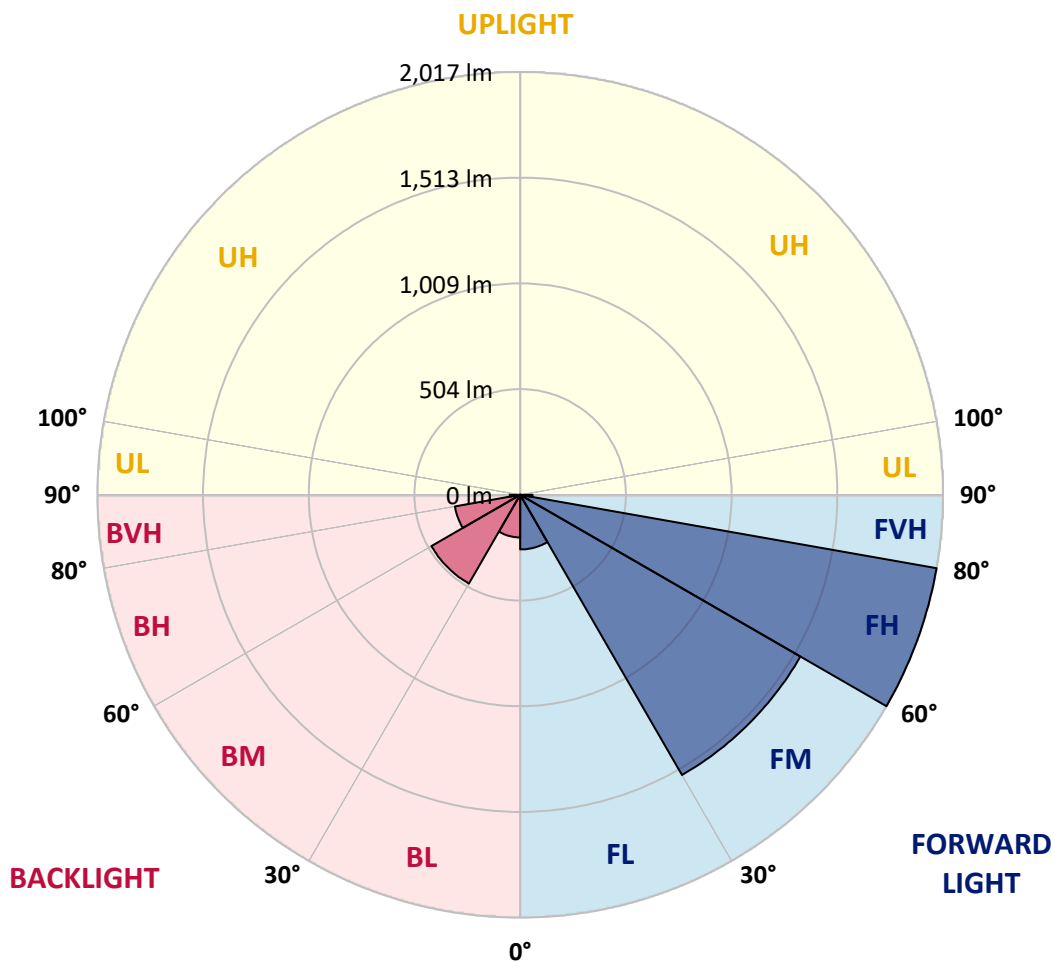
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.7	5.3			
FM	(30°-60°)	1543.9	31.3			
FH	(60°-80°)	2017.5	40.8			G2/5000
FVH	(80°-90°)	59.1	1.2			G1/100
BL	(0°-30°)	203.3	4.1	B1/500		
BM	(30°-60°)	489.2	9.9	B1/1000		
BH	(60°-80°)	316.3	6.4	B1/500		G1/500
BVH	(80°-90°)	49.9	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	623.3	622.0	622.7	620.4	615.0	609.2	609.2	603.1	596.7	590.3	583.3
5°	662.1	660.1	658.5	651.4	640.9	629.0	627.2	615.0	601.8	588.7	575.9
7.5°	694.4	692.4	687.6	674.8	659.5	641.8	639.7	623.6	606.3	588.1	570.2
10°	717.4	716.2	706.9	690.5	672.6	651.8	647.9	631.6	611.1	588.4	565.7
12.5°	730.2	728.2	717.1	697.9	676.8	655.6	651.8	636.1	612.7	587.8	561.2
15°	725.1	724.1	713.5	694.1	672.9	654.7	651.4	635.5	611.7	585.5	557.0
17.5°	703.3	705.5	697.2	678.0	660.7	647.9	644.5	629.3	606.9	580.1	550.7
20°	673.2	675.8	671.7	652.1	642.2	633.8	631.9	619.8	598.9	572.0	543.0
22.5°	641.2	643.4	643.7	625.5	622.4	619.1	617.6	608.9	591.9	567.2	537.8
25°	619.1	621.6	622.4	606.3	608.2	609.2	608.9	602.8	590.7	567.2	538.5
27.5°	613.4	614.6	614.0	599.2	602.8	608.2	608.6	607.3	595.8	573.7	547.4
30°	633.2	633.8	625.8	603.7	607.3	614.3	614.6	614.0	606.6	590.3	567.5
32.5°	719.0	718.3	690.8	633.8	621.6	624.2	625.2	631.0	631.6	617.9	596.7
35°	849.6	849.3	817.2	720.0	662.7	649.2	650.5	659.5	667.5	658.2	646.0
37.5°	993.4	994.3	974.8	842.9	751.1	695.0	693.7	700.4	714.8	718.0	719.6
40°	1152.8	1157.6	1156.7	984.1	874.9	773.1	760.3	752.6	780.5	798.1	820.8
42.5°	1335.0	1333.6	1334.2	1139.0	1016.4	896.0	872.4	836.5	868.8	899.3	949.2
45°	1491.5	1496.6	1500.5	1303.9	1174.9	1036.6	1012.5	947.3	976.4	1021.8	1098.0
47.5°	1649.0	1640.0	1647.1	1487.3	1351.2	1197.0	1165.9	1077.9	1105.1	1169.1	1285.0
50°	1832.4	1828.2	1796.2	1726.7	1564.4	1359.6	1318.9	1214.2	1253.9	1339.5	1515.8
52.5°	1996.9	1974.5	1949.5	1915.0	1774.1	1524.1	1472.5	1356.0	1429.1	1535.0	1802.3
55°	2057.2	2042.1	2072.2	2117.0	1996.0	1691.9	1634.3	1521.5	1626.6	1758.8	2139.4
57.5°	2121.2	2126.3	2194.1	2284.8	2206.0	1870.8	1808.4	1717.4	1843.3	2009.1	2516.2
60°	2153.1	2173.7	2309.1	2479.0	2405.8	2067.1	2007.1	1942.5	2083.6	2285.7	2892.0
62.5°	2158.6	2186.1	2377.8	2547.2	2680.7	2367.6	2298.5	2228.4	2384.0	2591.4	3164.1
65°	2058.7	2100.9	2371.8	2631.1	2931.4	2869.9	2826.1	2703.8	2786.0	2860.7	3210.5
67.5°	1765.2	1811.2	2137.1	2596.6	3132.4	3391.1	3382.8	3202.2	3096.6	2964.7	2866.4
70°	1295.6	1332.7	1645.7	2219.7	3044.7	3800.2	3814.9	3525.2	3183.3	2743.8	2131.4
71°	1047.8	1079.8	1374.9	1970.7	2873.8	3821.3	3852.0	3539.6	3093.0	2544.4	1784.3
72.5°	652.1	670.0	913.0	1487.3	2474.5	3603.7	3655.5	3355.2	2808.8	2150.5	1261.3
75°	246.2	253.2	338.7	655.9	1477.0	2707.3	2770.0	2535.7	1973.3	1227.6	527.8
77.5°	132.2	135.7	168.1	272.7	591.9	1551.9	1632.6	1446.4	946.6	429.6	215.7
80°	88.7	90.9	116.2	161.6	272.1	591.0	658.2	580.7	354.4	245.2	153.6
82.5°	57.3	58.6	79.1	106.3	175.7	207.8	237.2	247.8	221.2	175.7	92.9
85°	37.7	38.8	52.2	67.8	108.8	102.4	105.0	137.4	150.8	115.9	47.4
87.5°	21.8	22.4	31.4	34.9	49.0	38.5	41.6	65.3	89.6	75.6	27.2
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°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	580.1	577.5	571.7	568.2	566.6	566.0	565.4	566.6	566.6	566.0	564.7
5°	569.5	564.7	555.1	548.4	544.8	543.9	545.1	546.8	547.7	547.7	546.8
7.5°	561.8	554.7	542.0	532.7	527.2	525.7	529.2	534.9	538.8	540.7	541.0
10°	555.5	545.8	531.7	522.1	517.6	517.0	521.5	528.9	536.8	540.3	541.0
12.5°	549.6	538.8	523.4	514.4	511.3	512.8	518.9	525.7	534.9	540.0	540.3
15°	544.2	533.0	516.7	507.4	506.8	509.3	515.1	520.5	527.5	534.0	534.0
17.5°	537.8	525.7	508.7	500.0	500.0	502.3	506.2	509.0	513.5	519.6	519.2
20°	530.1	517.6	500.3	491.4	489.5	488.2	488.2	488.9	492.7	498.1	499.1
22.5°	524.4	511.6	493.3	482.4	473.8	465.4	462.0	460.6	464.2	469.3	470.6
25°	524.4	511.6	491.1	472.8	451.7	435.7	428.9	427.1	430.6	435.4	437.3
27.5°	533.0	520.2	496.2	464.2	425.4	399.9	391.8	390.3	393.4	397.3	399.2
30°	553.2	540.7	511.0	454.3	396.3	362.7	353.7	352.1	353.7	355.4	357.6
32.5°	586.8	576.2	534.9	445.3	366.8	329.1	318.2	315.7	316.3	316.6	318.5
35°	641.5	636.7	566.9	434.8	339.0	301.6	290.3	285.2	284.9	286.5	288.8
37.5°	725.4	728.2	608.2	419.4	316.0	282.0	270.8	265.7	263.1	266.4	268.9
40°	843.8	850.6	655.9	398.5	297.1	270.5	258.7	253.9	250.3	249.4	250.6
42.5°	997.8	995.9	704.6	371.9	276.6	262.8	250.3	245.2	239.5	232.1	230.5
45°	1180.3	1152.8	745.2	339.3	253.2	255.4	242.6	235.6	226.7	215.7	214.5
47.5°	1395.7	1319.9	770.2	304.4	231.5	245.8	234.1	223.1	210.0	203.0	202.0
50°	1655.3	1515.5	787.9	268.9	212.0	233.6	221.9	207.5	194.7	192.7	192.4
52.5°	1962.6	1746.3	809.6	236.9	196.5	218.0	209.7	195.0	184.7	185.7	185.7
55°	2289.6	1985.1	810.3	211.6	183.1	199.8	200.7	188.8	180.9	184.0	185.1
57.5°	2587.6	2193.8	746.5	193.6	170.3	185.4	197.8	191.1	185.1	196.2	197.2
60°	2847.5	2354.5	609.5	178.9	159.8	179.9	204.3	204.9	203.6	234.1	236.3
62.5°	2942.6	2356.2	432.8	166.4	154.0	183.1	217.7	218.6	218.6	246.8	250.9
65°	2809.4	2159.9	288.1	159.1	150.2	190.2	228.5	224.4	214.5	234.1	229.6
67.5°	2340.1	1681.3	210.6	154.3	144.6	190.5	238.1	227.6	210.6	227.3	219.6
70°	1608.3	1069.9	176.4	149.9	138.3	182.2	243.3	226.7	204.9	212.0	201.7
71°	1294.5	853.8	167.5	148.2	135.7	177.4	244.0	225.4	202.0	206.4	197.2
72.5°	852.8	526.0	156.5	144.6	131.9	169.0	242.3	222.5	198.1	198.5	192.4
75°	336.4	218.0	140.9	136.7	121.0	155.6	235.3	216.4	190.8	184.4	181.9
77.5°	170.0	142.5	123.9	125.5	108.2	141.8	225.4	206.4	180.6	171.9	170.0
80°	124.2	108.2	106.0	108.8	93.8	128.4	212.9	193.0	167.5	176.4	172.6
82.5°	75.6	66.0	83.0	89.9	78.5	114.6	198.1	177.4	150.8	138.9	134.4
85°	35.8	38.8	59.8	66.3	57.9	91.6	181.2	160.1	131.6	113.6	115.6
87.5°	17.6	21.5	34.3	39.7	38.1	67.2	136.7	124.2	103.7	85.5	83.6
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)