

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: P199274

Luminaire Tested: **XNV-AF-01-LED-U-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199274
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-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213 lumens
Efficiency: N/A
Efficacy: 94.5 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 - G1

Input Watts (W): 34
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

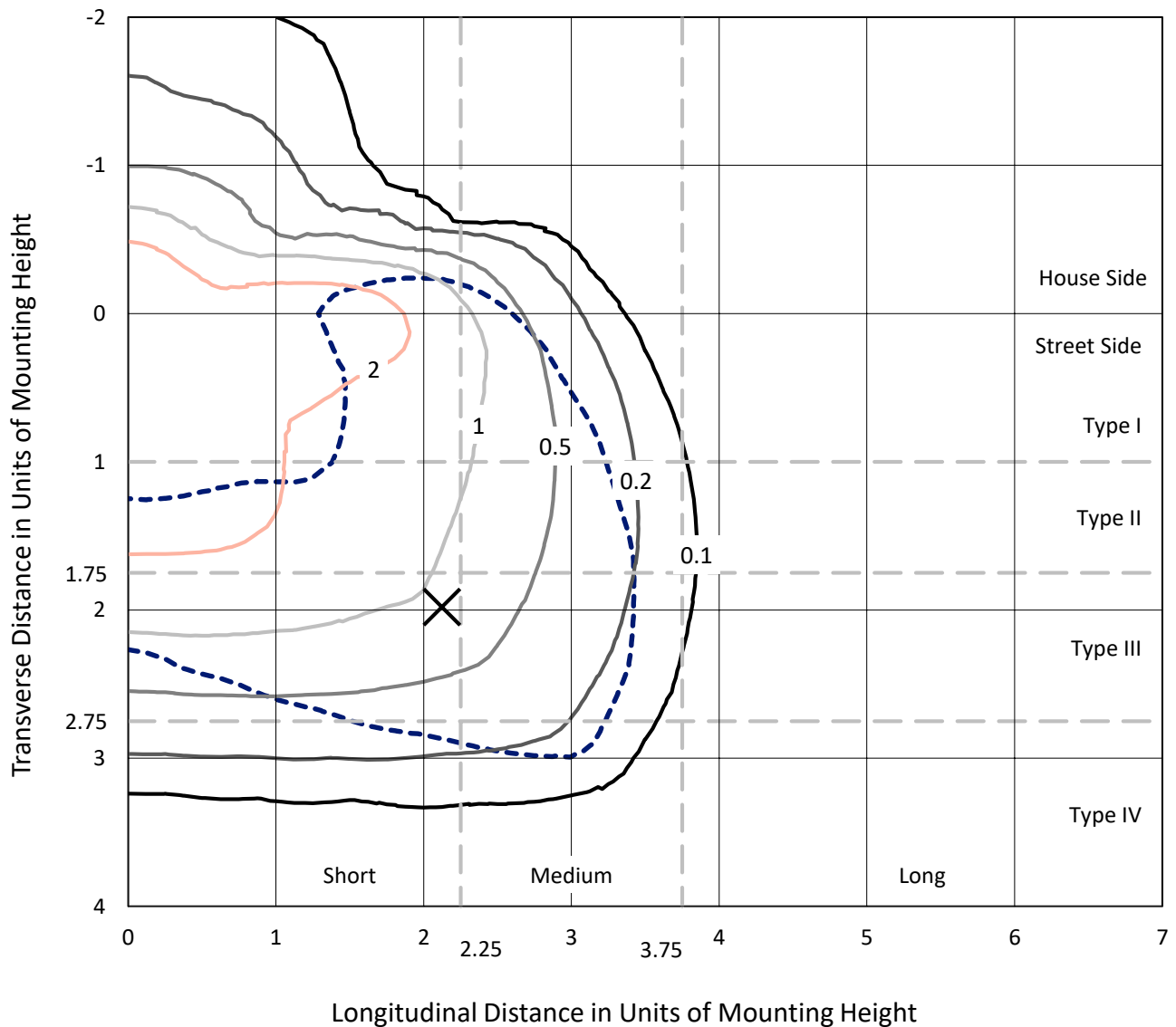


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

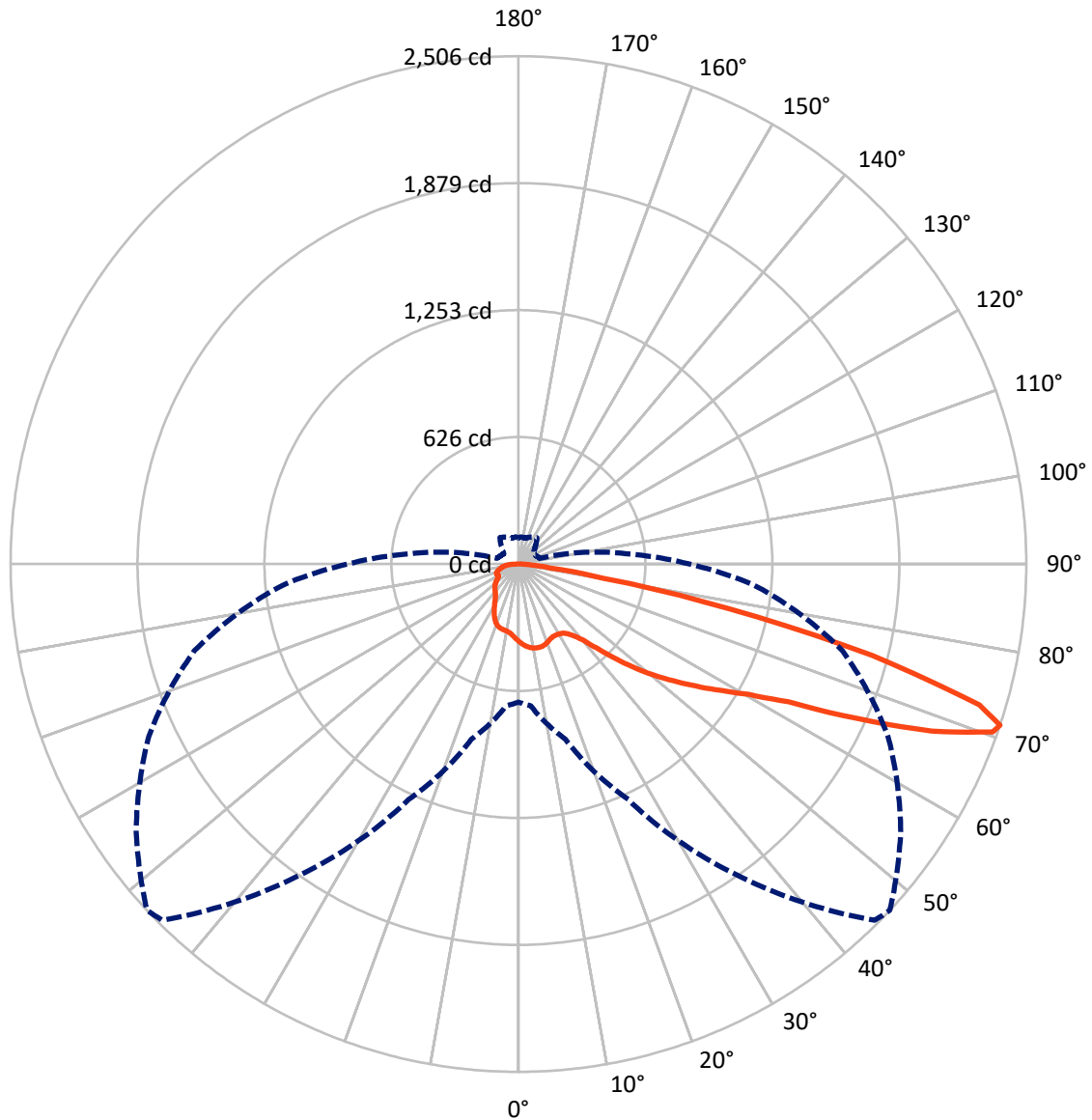


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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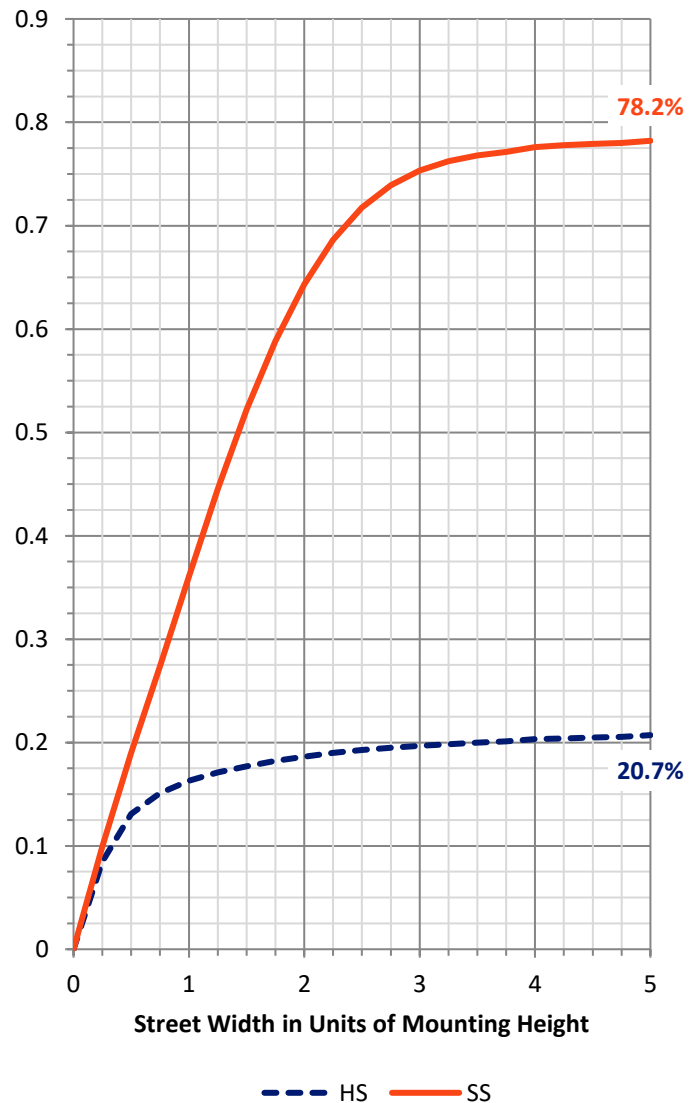
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.6	0.0	688.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	2524.4	0.0	2524.4
	% Fixture	78.6	0.0	78.6
Total	Lumens	3213.0	0.0	3213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	1.1
10°-20°	106.7	3.3
20°-30°	158.6	4.9
30°-40°	227.7	7.1
40°-50°	403.7	12.6
50°-60°	690.9	21.5
60°-70°	980.8	30.5
70°-80°	537.2	16.7
80°-90°	70.9	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°	3213.0	100.0
0°-180°	3213.0	100.0

Coefficient of Utilization



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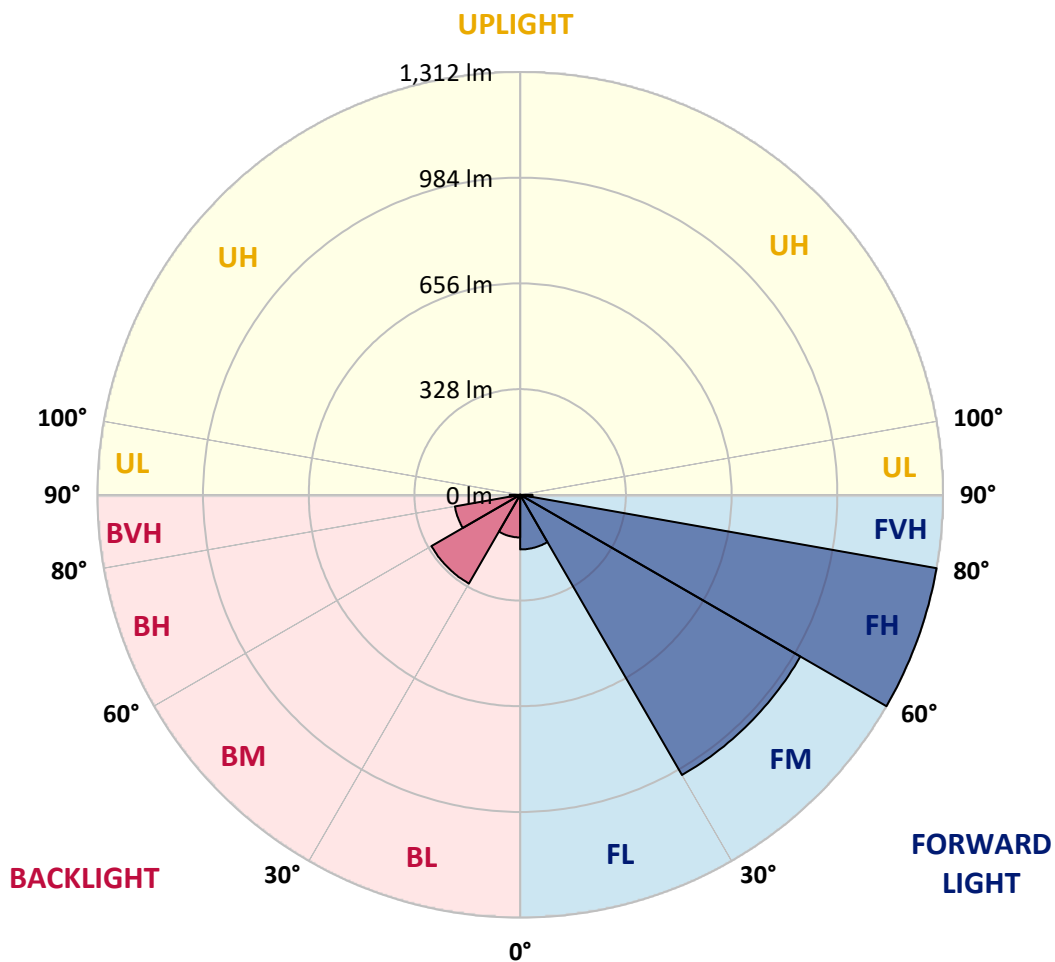
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.6	5.3			
FM	(30°-60°)	1004.2	31.3			
FH	(60°-80°)	1312.2	40.8			G1/1800
FVH	(80°-90°)	38.5	1.2			G1/100
BL	(0°-30°)	132.2	4.1	B1/500		
BM	(30°-60°)	318.2	9.9	B1/1000		
BH	(60°-80°)	205.7	6.4	B1/500		G1/500
BVH	(80°-90°)	32.5	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1
2.5°	405.4	404.6	405.0	403.5	400.0	396.2	396.2	392.3	388.1	384.0	379.4
5°	430.6	429.3	428.3	423.7	416.9	409.1	407.9	400.0	391.4	382.9	374.6
7.5°	451.6	450.4	447.3	438.9	428.9	417.5	416.0	405.6	394.4	382.5	370.8
10°	466.6	465.8	459.7	449.1	437.5	423.9	421.4	410.8	397.5	382.7	367.9
12.5°	474.9	473.7	466.4	453.9	440.2	426.4	423.9	413.7	398.5	382.3	365.0
15°	471.6	471.0	464.1	451.4	437.7	425.8	423.7	413.3	397.9	380.8	362.3
17.5°	457.5	458.9	453.5	441.0	429.8	421.4	419.1	409.4	394.8	377.3	358.1
20°	437.9	439.5	436.8	424.1	417.7	412.3	411.0	403.1	389.6	372.1	353.1
22.5°	417.1	418.5	418.7	406.9	404.8	402.7	401.7	396.0	385.0	369.0	349.8
25°	402.7	404.4	404.8	394.4	395.6	396.2	396.0	392.1	384.2	369.0	350.2
27.5°	398.9	399.8	399.4	389.8	392.1	395.6	395.8	395.0	387.5	373.1	356.1
30°	411.9	412.3	407.1	392.7	395.0	399.6	399.8	399.4	394.6	384.0	369.2
32.5°	467.7	467.2	449.3	412.3	404.4	406.0	406.6	410.4	410.8	401.9	388.1
35°	552.6	552.4	531.6	468.3	431.0	422.3	423.1	428.9	434.1	428.1	420.2
37.5°	646.1	646.7	634.0	548.2	488.5	452.0	451.2	455.6	465.0	467.0	468.1
40°	749.8	752.9	752.3	640.1	569.1	502.8	494.5	489.5	507.6	519.1	533.9
42.5°	868.3	867.4	867.9	740.8	661.1	582.8	567.4	544.1	565.1	584.9	617.4
45°	970.1	973.4	975.9	848.1	764.2	674.2	658.6	616.1	635.1	664.6	714.2
47.5°	1072.5	1066.7	1071.3	967.4	878.9	778.5	758.3	701.1	718.8	760.4	835.8
50°	1191.8	1189.1	1168.3	1123.1	1017.6	884.3	857.9	789.8	815.6	871.2	985.9
52.5°	1298.9	1284.3	1268.0	1245.6	1153.9	991.3	957.8	882.0	929.5	998.4	1172.3
55°	1338.0	1328.2	1347.8	1376.9	1298.2	1100.4	1063.0	989.7	1058.0	1143.9	1391.5
57.5°	1379.7	1383.0	1427.1	1486.0	1434.8	1216.8	1176.2	1117.1	1198.9	1306.8	1636.6
60°	1400.5	1413.8	1501.9	1612.4	1564.8	1344.5	1305.5	1263.5	1355.3	1486.7	1881.0
62.5°	1404.0	1421.9	1546.6	1656.8	1743.6	1540.0	1495.0	1449.4	1550.6	1685.5	2058.0
65°	1339.0	1366.5	1542.7	1711.3	1906.6	1866.7	1838.1	1758.6	1812.1	1860.6	2088.2
67.5°	1148.1	1178.1	1390.1	1688.9	2037.4	2205.7	2200.2	2082.8	2014.1	1928.3	1864.4
70°	842.7	866.8	1070.4	1443.8	1980.4	2471.8	2481.3	2292.9	2070.5	1784.6	1386.3
71°	681.5	702.3	894.3	1281.8	1869.2	2485.5	2505.5	2302.3	2011.8	1654.9	1160.6
72.5°	424.1	435.8	593.8	967.4	1609.5	2343.9	2377.6	2182.3	1826.9	1398.8	820.4
75°	160.1	164.7	220.3	426.6	960.7	1760.9	1801.7	1649.3	1283.5	798.5	343.4
77.5°	86.0	88.3	109.3	177.4	385.0	1009.4	1061.9	940.7	615.7	279.4	140.3
80°	57.7	59.1	75.6	105.1	177.0	384.4	428.1	377.7	230.5	159.5	99.9
82.5°	37.3	38.1	51.4	69.1	114.3	135.1	154.3	161.2	143.9	114.3	60.4
85°	24.6	25.2	33.9	44.1	70.8	66.6	68.3	89.3	98.1	75.4	30.8
87.5°	14.2	14.6	20.4	22.7	31.9	25.0	27.1	42.5	58.3	49.1	17.7
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°	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1	382.1
2.5°	377.3	375.6	371.9	369.6	368.5	368.1	367.7	368.5	368.5	368.1	367.3
5°	370.4	367.3	361.0	356.7	354.4	353.8	354.6	355.6	356.3	356.3	355.6
7.5°	365.4	360.8	352.5	346.5	342.9	341.9	344.2	347.9	350.4	351.7	351.9
10°	361.3	355.0	345.8	339.6	336.7	336.3	339.2	344.0	349.2	351.5	351.9
12.5°	357.5	350.4	340.4	334.6	332.5	333.6	337.5	341.9	347.9	351.3	351.5
15°	354.0	346.7	336.1	330.0	329.6	331.3	335.0	338.6	343.1	347.3	347.3
17.5°	349.8	341.9	330.9	325.2	325.2	326.7	329.2	331.1	334.0	337.9	337.7
20°	344.8	336.7	325.4	319.6	318.4	317.5	317.5	317.9	320.4	324.0	324.6
22.5°	341.1	332.7	320.9	313.8	308.2	302.7	300.5	299.6	301.9	305.2	306.1
25°	341.1	332.7	319.4	307.5	293.8	283.4	279.0	277.8	280.1	283.2	284.4
27.5°	346.7	338.4	322.7	301.9	276.7	260.1	254.9	253.8	255.9	258.4	259.6
30°	359.8	351.7	332.3	295.5	257.8	235.9	230.1	229.0	230.1	231.1	232.6
32.5°	381.7	374.8	347.9	289.6	238.6	214.0	207.0	205.3	205.7	205.9	207.2
35°	417.3	414.1	368.8	282.8	220.5	196.1	188.9	185.5	185.3	186.4	187.8
37.5°	471.8	473.7	395.6	272.8	205.5	183.4	176.2	172.8	171.2	173.2	174.9
40°	548.9	553.2	426.6	259.2	193.2	175.9	168.2	165.1	162.8	162.2	163.0
42.5°	649.0	647.8	458.3	241.9	179.9	170.9	162.8	159.5	155.7	151.0	149.9
45°	767.7	749.8	484.7	220.7	164.7	166.2	157.8	153.2	147.4	140.3	139.5
47.5°	907.8	858.5	501.0	198.0	150.5	159.9	152.2	145.1	136.6	132.0	131.4
50°	1076.7	985.7	512.4	174.9	137.8	152.0	144.3	134.9	126.6	125.3	125.1
52.5°	1276.6	1135.8	526.6	154.1	127.8	141.8	136.4	126.8	120.1	120.8	120.8
55°	1489.2	1291.2	527.0	137.6	119.1	129.9	130.6	122.8	117.6	119.7	120.3
57.5°	1683.0	1426.9	485.6	126.0	110.8	120.6	128.7	124.3	120.3	127.6	128.3
60°	1852.1	1531.4	396.4	116.4	103.9	117.0	132.8	133.3	132.4	152.2	153.7
62.5°	1913.9	1532.5	281.5	108.3	100.2	119.1	141.6	142.2	142.2	160.5	163.2
65°	1827.3	1404.8	187.4	103.5	97.7	123.7	148.7	146.0	139.5	152.2	149.3
67.5°	1522.1	1093.6	137.0	100.4	94.1	123.9	154.9	148.0	137.0	147.8	142.8
70°	1046.1	695.9	114.7	97.4	90.0	118.5	158.2	147.4	133.3	137.8	131.2
71°	842.0	555.3	108.9	96.4	88.3	115.4	158.7	146.6	131.4	134.3	128.3
72.5°	554.7	342.1	101.8	94.1	85.8	109.9	157.6	144.7	128.9	129.1	125.1
75°	218.8	141.8	91.6	88.9	78.7	101.2	153.0	140.8	124.1	119.9	118.3
77.5°	110.6	92.7	80.6	81.6	70.4	92.2	146.6	134.3	117.4	111.8	110.6
80°	80.8	70.4	68.9	70.8	61.0	83.5	138.5	125.6	108.9	114.7	112.2
82.5°	49.1	42.9	53.9	58.5	51.0	74.5	128.9	115.4	98.1	90.4	87.5
85°	23.3	25.2	38.9	43.1	37.7	59.6	117.9	104.1	85.6	73.9	75.2
87.5°	11.5	14.0	22.3	25.8	24.8	43.7	88.9	80.8	67.5	55.6	54.3
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)