

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: P271247

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7027-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4696.4 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
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

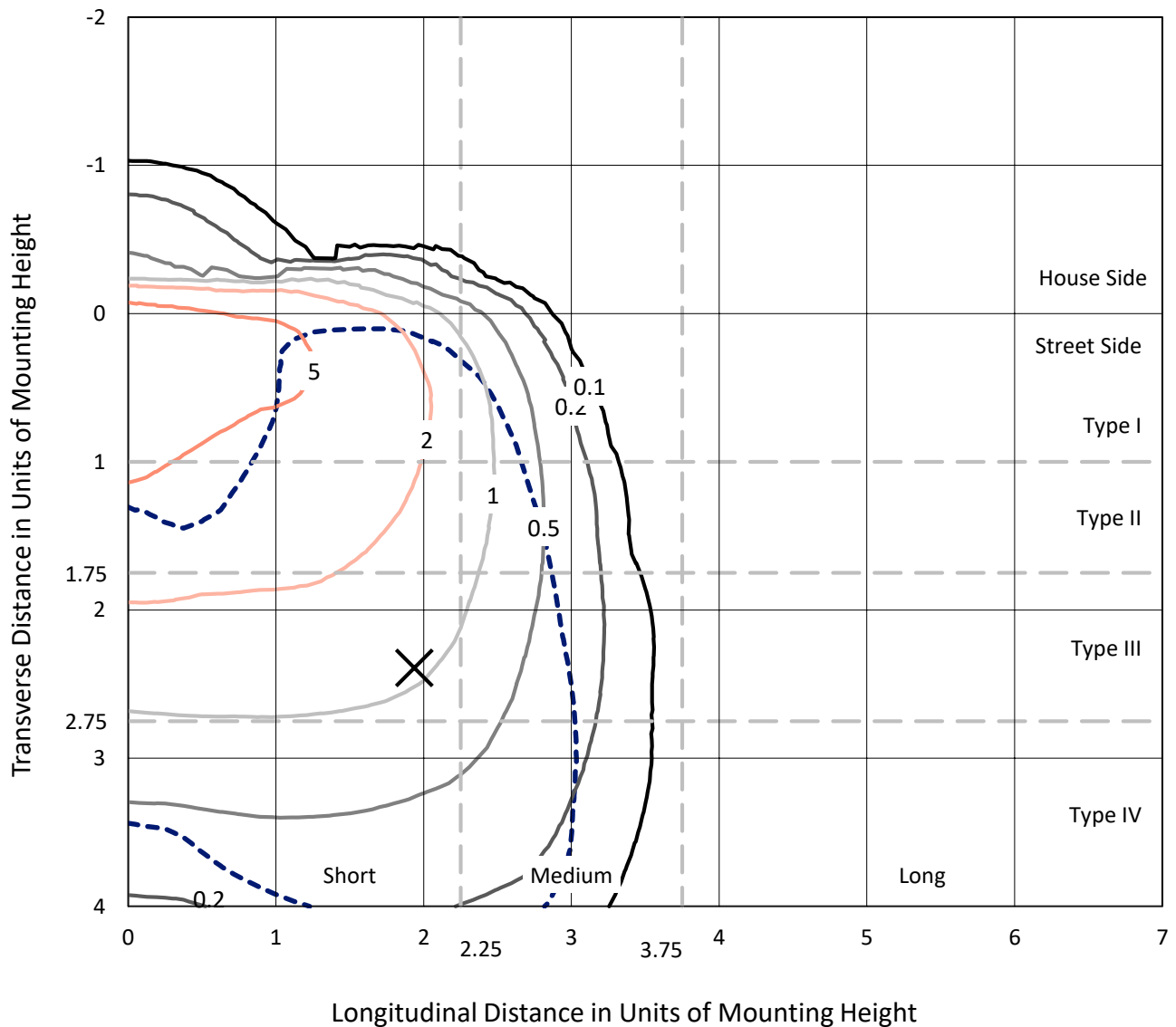


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

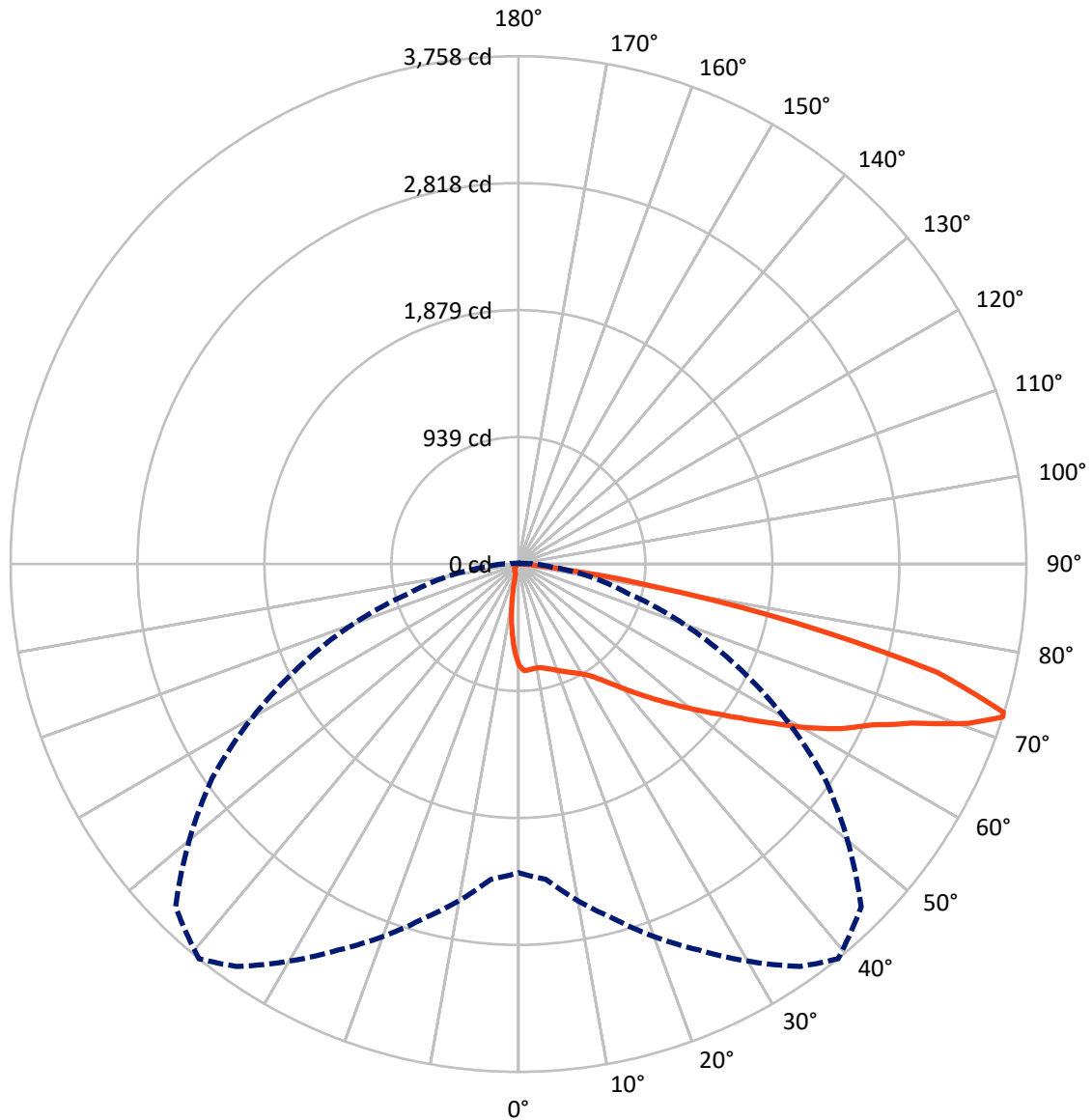


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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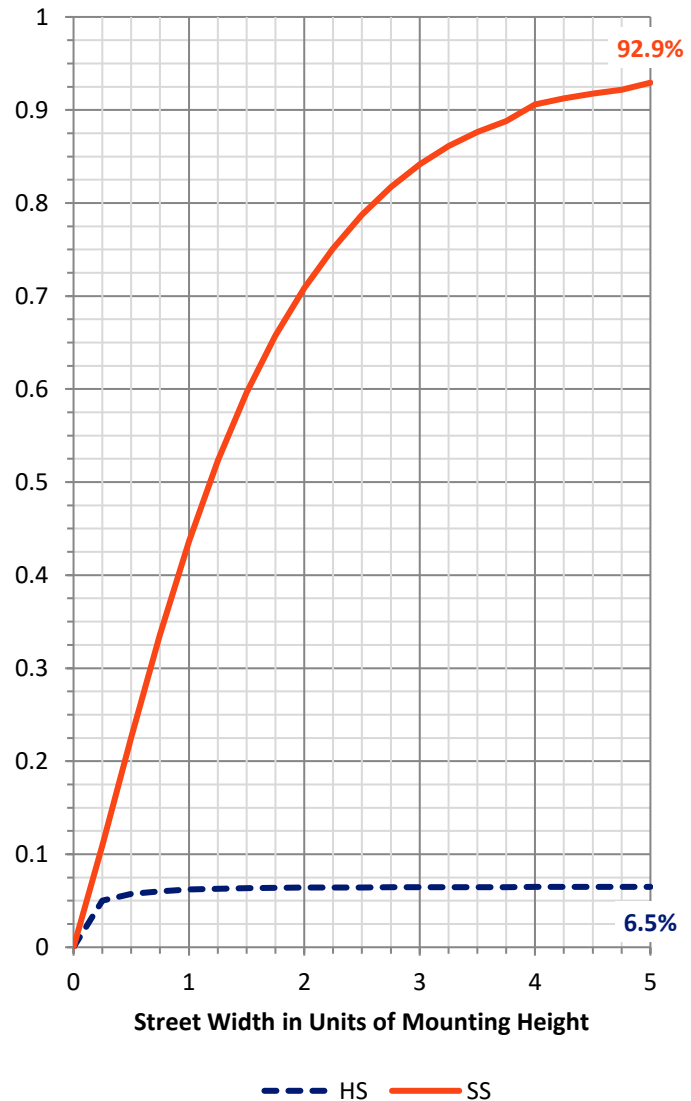
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.8	0.0	307.8
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	4388.6	0.0	4388.6
	% Fixture	93.4	0.0	93.4
Total	Lumens	4696.4	0.0	4696.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.3
10°-20°	148.0	3.2
20°-30°	245.8	5.2
30°-40°	391.8	8.3
40°-50°	646.7	13.8
50°-60°	976.7	20.8
60°-70°	1272.3	27.1
70°-80°	859.7	18.3
80°-90°	94.2	2.0
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°	4696.4	100.0
0°-180°	4696.4	100.0

Coefficient of Utilization



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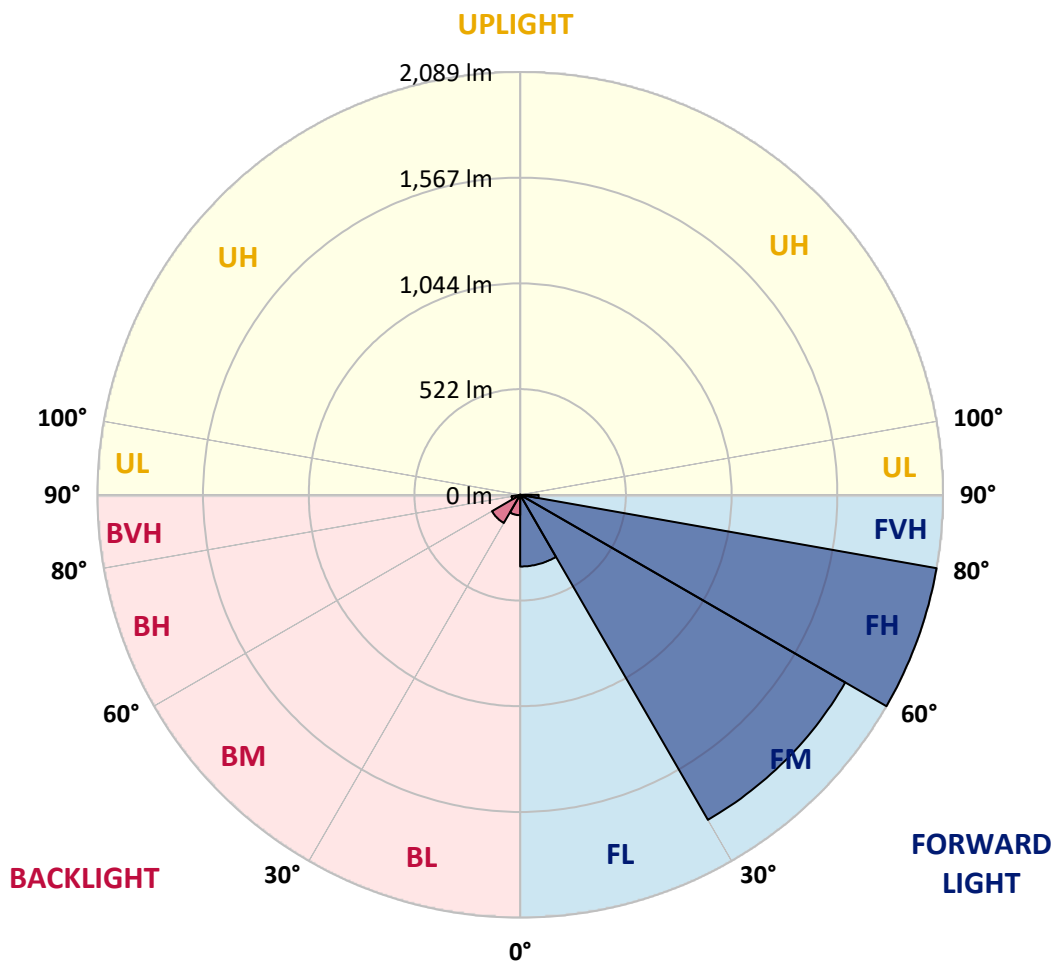
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.2	7.5			
FM	(30°-60°)	1854.2	39.5			
FH	(60°-80°)	2088.7	44.5			G2/5000
FVH	(80°-90°)	91.4	1.9			G1/100
BL	(0°-30°)	100.8	2.1	B0/110		
BM	(30°-60°)	161.0	3.4	B0/220		
BH	(60°-80°)	43.2	0.9	B0/110		G0/110
BVH	(80°-90°)	2.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7
2.5°	800.4	801.8	800.0	796.7	791.9	789.0	784.8	776.0	764.9	755.4	744.2
5°	806.7	807.4	805.2	799.0	791.5	787.5	782.3	772.7	761.4	748.0	728.0
7.5°	808.6	808.1	805.6	797.9	786.3	781.3	772.4	760.5	748.7	736.5	714.1
10°	807.8	807.8	806.0	798.6	785.7	780.8	770.8	758.3	743.5	731.4	707.3
12.5°	805.2	806.7	805.6	801.6	791.9	788.3	779.4	766.9	752.8	740.3	714.8
15°	808.6	810.8	813.0	811.4	806.0	802.6	794.6	781.5	770.1	756.8	729.6
17.5°	821.8	826.6	831.8	832.2	826.4	820.3	811.1	797.9	786.7	774.6	745.1
20°	846.9	850.7	860.2	862.1	850.2	841.8	828.9	813.3	802.2	791.9	759.4
22.5°	884.2	888.3	896.1	893.5	873.5	863.5	847.3	829.6	818.1	812.2	776.0
25°	940.7	941.9	943.7	932.3	899.4	888.3	868.3	848.4	839.1	838.5	799.8
27.5°	1007.2	1008.6	1000.5	975.0	928.2	913.8	891.3	873.2	868.8	874.3	829.6
30°	1083.3	1083.5	1061.1	1019.8	961.4	945.6	922.3	902.3	906.4	920.0	868.0
32.5°	1161.1	1157.5	1126.5	1072.5	1006.8	987.5	967.7	947.7	959.6	987.2	924.0
35°	1232.4	1230.9	1194.3	1131.5	1065.8	1049.0	1034.5	1013.5	1032.6	1077.6	1000.5
37.5°	1303.6	1302.5	1260.9	1195.5	1138.6	1126.5	1115.8	1099.4	1130.8	1196.9	1102.8
40°	1382.3	1380.4	1329.1	1266.3	1223.1	1216.6	1210.2	1203.2	1256.8	1348.6	1230.1
42.5°	1479.4	1471.2	1401.4	1343.5	1316.1	1318.1	1318.4	1325.4	1409.3	1529.3	1380.4
45°	1590.9	1572.8	1474.2	1426.1	1418.5	1429.6	1440.6	1469.7	1586.9	1737.1	1546.6
47.5°	1699.1	1669.9	1558.0	1515.3	1531.2	1554.0	1580.6	1637.4	1786.2	1954.5	1697.2
50°	1792.1	1762.1	1641.1	1605.6	1656.2	1690.3	1737.4	1823.5	1996.7	2138.3	1792.1
52.5°	1865.2	1841.5	1729.0	1705.3	1795.1	1841.5	1915.7	2028.7	2195.3	2259.4	1858.6
55°	1919.0	1907.3	1813.0	1816.5	1949.3	2016.5	2108.9	2236.6	2362.9	2353.6	1908.4
57.5°	1980.0	1970.8	1901.4	1947.5	2135.1	2221.9	2328.5	2431.2	2484.7	2429.3	1957.0
60°	2042.3	2045.4	2008.4	2106.3	2364.7	2460.6	2553.7	2579.3	2589.2	2506.1	2008.4
62.5°	2089.6	2102.3	2105.5	2277.7	2600.2	2682.2	2722.5	2704.3	2702.1	2609.1	2004.4
65°	2144.0	2176.9	2231.4	2465.5	2814.4	2868.3	2897.2	2923.4	2867.8	2639.8	1807.2
67.5°	2237.7	2289.4	2412.4	2696.0	3061.8	3141.6	3223.1	3195.5	2892.6	2328.5	1376.7
70°	2364.0	2427.1	2644.3	2996.7	3397.4	3531.0	3599.2	3173.6	2455.8	1609.0	726.2
72°	2284.2	2341.4	2715.8	3150.4	3635.1	3757.7	3586.8	2768.2	1780.4	834.0	243.4
72.5°	2206.6	2265.7	2692.8	3148.5	3658.7	3752.5	3505.1	2608.4	1575.4	649.0	167.7
75°	1531.2	1605.6	2308.6	2830.3	3304.0	3200.9	2681.9	1579.4	570.8	111.5	55.3
77.5°	791.5	849.2	1400.4	1999.9	2302.6	2108.9	1585.0	685.2	158.0	59.1	36.6
80°	490.7	519.1	655.0	985.4	1196.3	1046.3	699.3	276.9	101.1	35.0	29.1
82.5°	254.0	275.8	412.4	397.6	442.0	367.3	258.1	231.9	62.4	21.7	30.0
85°	83.5	88.7	253.2	264.3	189.1	127.0	114.4	221.2	18.1	14.1	25.5
87.5°	11.0	12.9	89.0	151.4	93.1	57.6	68.7	78.0	6.3	7.7	6.9
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°	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7
2.5°	736.9	732.1	716.9	701.8	684.5	668.6	656.0	647.9	651.6	639.5	641.3
5°	715.9	703.7	670.5	634.7	595.8	559.7	530.9	509.5	505.4	487.1	487.7
7.5°	695.6	675.6	621.7	562.7	498.4	446.4	399.0	357.7	343.1	327.8	319.0
10°	684.5	657.2	580.8	494.7	404.2	327.8	261.3	209.3	187.6	171.7	163.9
12.5°	687.8	651.6	550.1	433.1	314.1	217.1	147.7	109.7	96.4	89.0	86.3
15°	698.9	652.8	522.5	372.8	228.4	131.4	86.7	74.2	73.1	72.8	72.4
17.5°	709.2	653.8	493.3	310.2	152.8	83.8	69.8	68.7	68.7	68.7	68.7
20°	719.9	654.2	461.1	244.3	100.4	68.7	65.8	64.9	65.8	65.8	65.8
22.5°	732.5	656.8	430.1	180.5	74.2	64.6	62.7	62.4	62.7	62.7	62.4
25°	748.0	662.3	396.5	129.3	67.3	62.1	60.1	59.7	60.1	59.7	59.7
27.5°	768.7	669.7	357.3	92.6	64.3	59.5	57.6	57.6	57.6	57.2	57.2
30°	795.3	678.6	305.0	73.1	61.3	56.9	55.3	55.3	54.9	54.6	54.6
32.5°	833.3	693.0	247.8	66.0	58.0	53.4	52.0	52.5	52.0	51.7	51.4
35°	887.2	715.5	191.2	62.4	54.6	50.2	48.8	48.8	48.8	48.0	48.0
37.5°	963.6	749.8	143.3	58.7	51.4	46.9	45.0	45.0	44.6	43.9	44.2
40°	1058.2	793.1	103.8	55.3	48.0	43.2	41.7	41.1	40.2	39.4	39.4
42.5°	1171.7	835.2	78.0	52.0	44.6	40.2	38.4	37.6	36.2	35.5	35.0
45°	1299.2	879.8	64.6	48.0	41.1	36.9	35.5	34.0	32.1	31.0	30.6
47.5°	1406.7	907.1	57.6	43.9	37.3	33.5	32.1	30.0	27.7	26.9	26.9
50°	1471.2	895.7	51.7	39.9	33.5	30.3	28.4	25.5	24.1	23.3	22.8
52.5°	1507.4	861.7	46.9	36.6	30.3	26.6	24.1	21.4	20.8	19.9	19.9
55°	1532.1	812.5	41.7	33.2	27.3	23.3	20.3	18.4	17.7	17.3	17.0
57.5°	1555.9	752.8	36.9	30.3	24.3	20.8	17.3	16.6	15.1	14.7	14.7
60°	1562.8	670.5	32.5	26.9	21.7	18.1	15.1	14.1	12.5	12.1	12.1
62.5°	1473.5	533.6	28.7	22.8	19.3	15.5	13.2	11.8	10.3	10.3	10.3
65°	1231.2	362.1	24.8	19.9	17.0	13.2	11.5	9.6	8.9	8.9	8.9
67.5°	857.6	201.9	21.0	17.0	14.5	11.0	9.6	8.2	7.7	8.2	8.2
70°	386.5	80.0	17.7	14.1	11.8	9.3	8.2	6.9	7.7	7.7	7.7
72°	115.9	42.8	14.7	11.5	9.6	8.2	6.9	6.6	7.4	7.7	7.7
72.5°	86.0	38.4	14.1	11.0	9.6	7.7	6.6	6.6	7.4	7.7	7.7
75°	44.2	26.2	10.7	8.2	6.9	6.3	5.5	6.3	7.4	7.4	7.4
77.5°	34.8	21.4	8.9	6.3	5.8	5.5	5.2	5.8	6.6	6.6	6.6
80°	32.5	14.1	6.9	5.8	5.2	4.9	4.9	5.2	5.8	6.3	6.3
82.5°	32.9	11.5	6.3	5.5	4.9	4.4	4.4	4.9	5.5	5.8	5.8
85°	21.0	7.7	5.5	4.9	4.4	4.0	4.0	4.4	5.2	5.5	5.5
87.5°	6.9	5.8	4.9	4.4	3.8	3.8	3.8	3.8	4.4	4.9	5.2
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)