

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: P959425

Luminaire Tested: **NVN-SB1A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.9 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

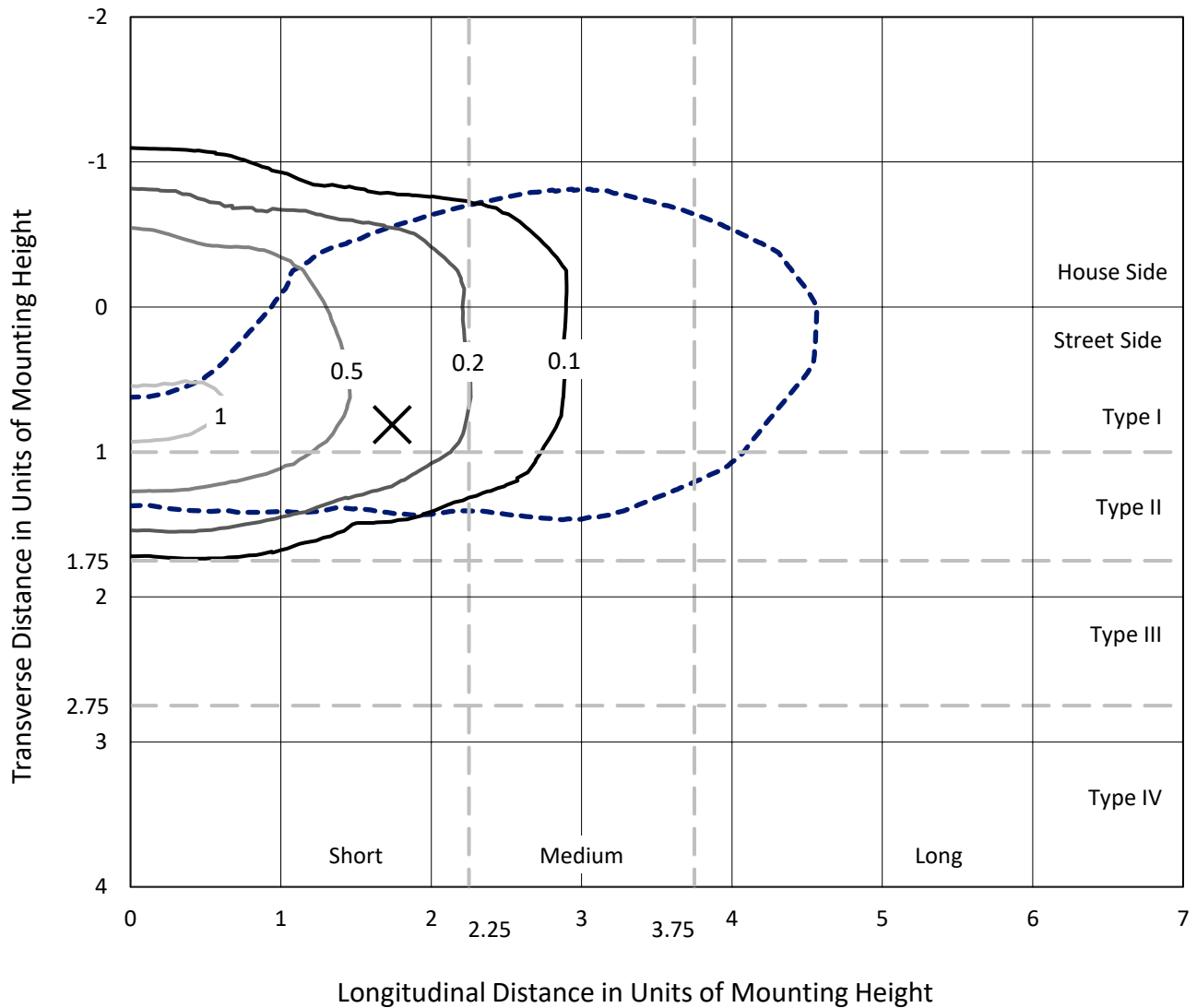
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

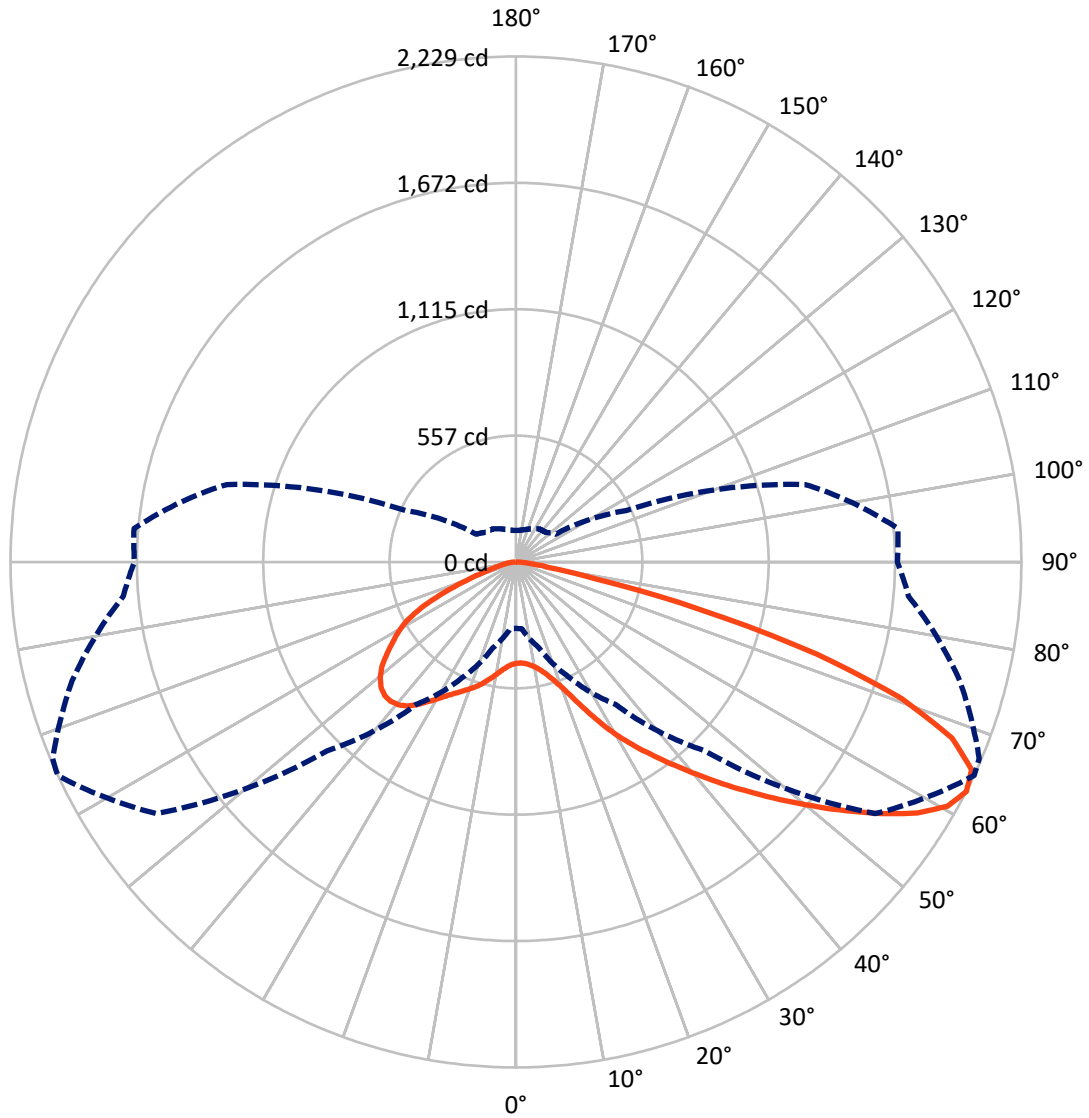
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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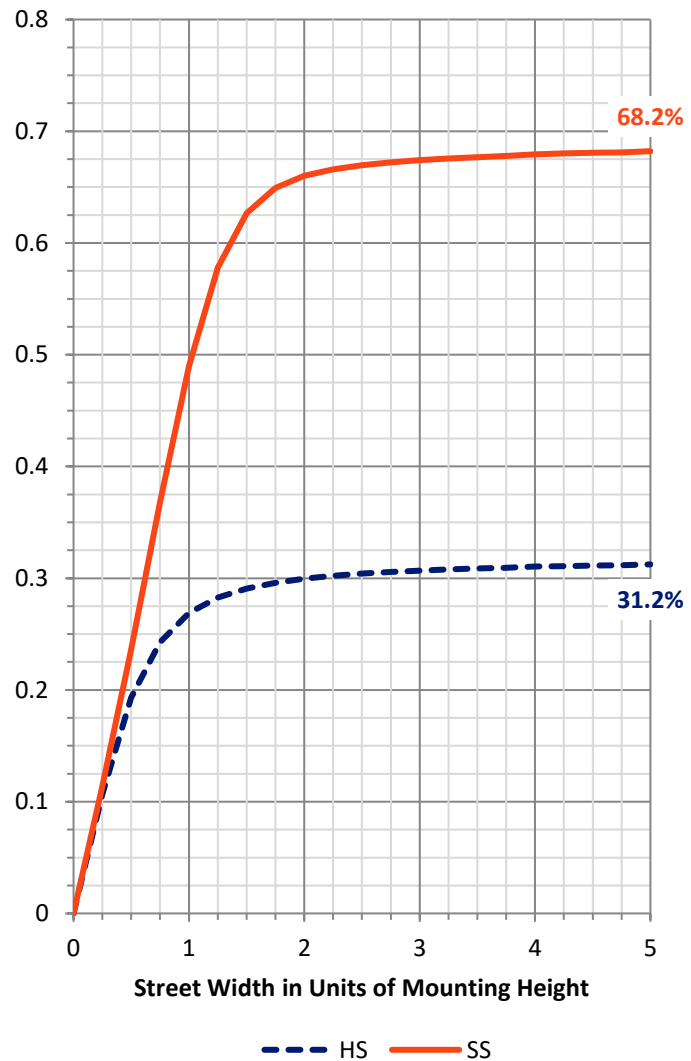
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.9	0.0	1278.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2774.0	0.0	2774.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	4052.9	0.0	4052.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	151.0	3.7
20°-30°	306.2	7.6
30°-40°	529.8	13.1
40°-50°	801.7	19.8
50°-60°	940.0	23.2
60°-70°	788.1	19.4
70°-80°	435.1	10.7
80°-90°	56.5	1.4
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°	4052.9	100.0
0°-180°	4052.9	100.0

Coefficient of Utilization



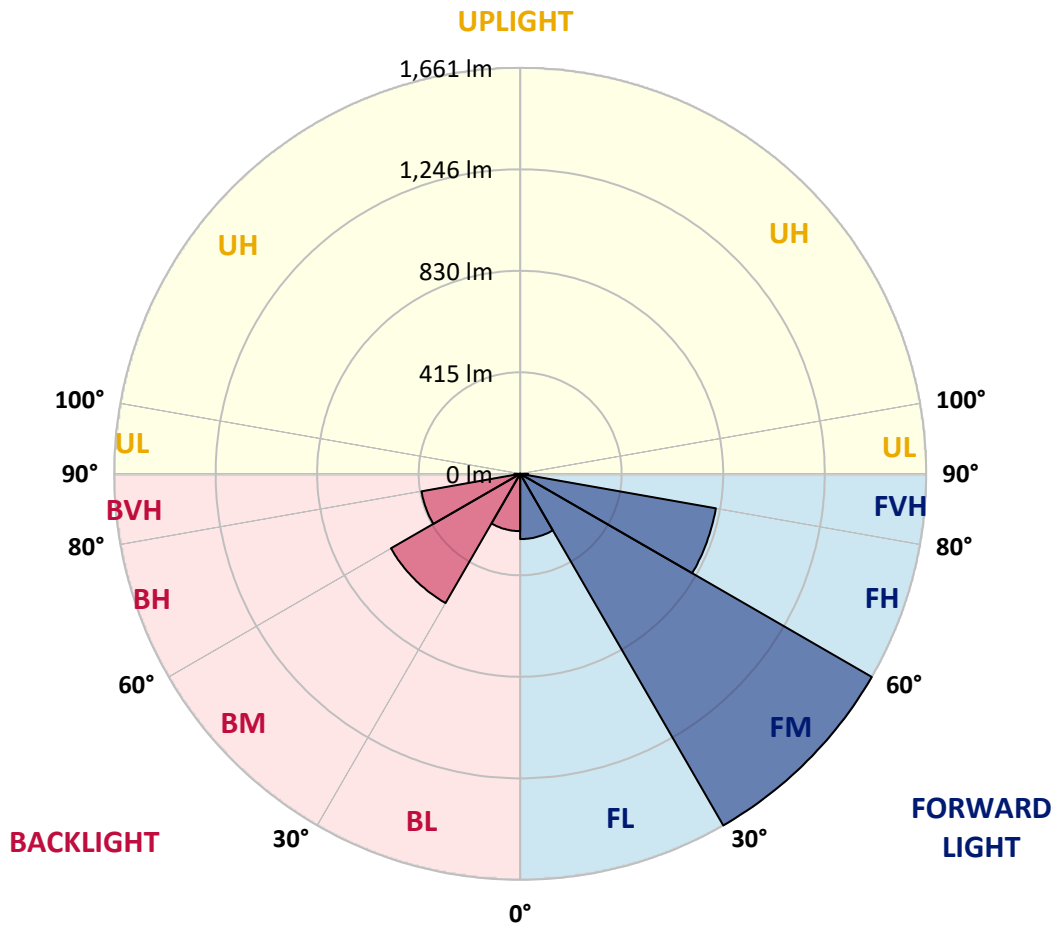
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.1	6.6			
FM (30°-60°)	1661.0	41.0			
FH (60°-80°)	812.9	20.1			G1/1800
FVH (80°-90°)	32.9	0.8			G1/100
BL (0°-30°)	234.5	5.8	B1/500		
BM (30°-60°)	610.5	15.1	B1/1000		
BH (60°-80°)	410.3	10.1	B1/500		G1/500
BVH (80°-90°)	23.6	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6
2.5°	443.6	442.4	443.4	443.4	443.8	443.6	445.2	445.6	446.2	447.4	447.4
5°	439.2	439.0	441.0	442.6	444.3	445.8	447.6	450.4	450.8	452.3	454.2
7.5°	437.8	436.5	439.4	441.6	445.6	449.2	454.2	458.8	460.7	461.4	464.9
10°	449.2	447.0	449.8	451.0	454.4	458.0	463.8	471.2	473.3	475.8	479.8
12.5°	468.4	466.2	470.2	472.0	475.2	478.4	482.4	489.5	490.6	495.2	499.0
15°	495.0	492.2	494.8	497.0	502.4	505.2	509.2	516.2	516.2	519.8	522.5
17.5°	530.9	527.4	529.2	530.1	533.4	537.8	544.6	550.7	553.8	552.6	548.8
20°	584.6	580.2	580.2	575.9	574.6	578.2	587.0	595.5	598.8	592.3	583.0
22.5°	665.1	658.8	655.2	640.9	635.2	635.6	644.4	654.8	657.5	646.0	625.1
25°	767.5	757.6	752.8	731.7	718.9	707.8	714.7	728.0	731.7	717.4	683.8
27.5°	869.9	870.5	865.9	840.6	819.4	799.0	795.4	809.3	813.3	797.1	755.5
30°	1013.5	998.6	989.7	959.4	929.2	900.6	885.8	891.5	892.6	873.2	824.9
32.5°	1137.3	1133.5	1114.6	1088.1	1049.2	1004.4	979.8	970.8	969.1	941.6	884.2
35°	1278.4	1276.3	1256.3	1224.8	1182.7	1120.5	1076.1	1050.3	1048.2	1009.5	942.8
37.5°	1421.8	1421.8	1402.3	1367.8	1324.3	1246.5	1179.0	1138.0	1131.2	1080.8	1002.6
40°	1536.2	1529.3	1532.9	1518.3	1468.5	1385.9	1293.1	1233.6	1224.6	1164.0	1066.1
42.5°	1601.2	1598.9	1620.3	1636.5	1616.1	1550.1	1418.9	1337.3	1324.7	1255.7	1139.2
45°	1615.7	1613.1	1651.5	1710.7	1739.3	1712.2	1555.5	1446.4	1431.1	1351.6	1217.7
47.5°	1582.3	1577.2	1633.3	1726.9	1818.6	1866.3	1703.6	1564.8	1542.5	1444.9	1298.2
50°	1481.7	1476.9	1561.9	1686.1	1845.3	1971.1	1864.3	1690.3	1656.3	1545.1	1379.5
52.5°	1263.3	1265.6	1398.7	1569.5	1810.2	2036.3	2002.5	1822.6	1781.6	1647.5	1455.9
55°	984.0	989.1	1152.7	1340.7	1669.7	2026.3	2096.9	1958.9	1918.1	1743.7	1534.7
57.5°	704.6	726.9	880.2	1066.3	1399.9	1869.7	2117.5	2088.3	2048.9	1848.9	1611.9
60°	456.7	460.7	618.4	806.0	1066.1	1591.3	2075.7	2186.5	2155.7	1956.1	1676.5
62.5°	292.7	295.4	391.5	563.8	767.2	1177.3	1934.9	2229.3	2219.7	2026.9	1738.5
65°	215.1	213.0	263.0	372.6	516.8	726.0	1661.3	2208.7	2227.3	2071.3	1789.8
67.5°	179.6	176.6	201.2	258.0	380.8	412.4	1229.2	2074.7	2143.3	2066.3	1827.5
70°	163.6	161.0	176.0	191.6	297.1	276.0	619.6	1803.7	1909.3	2008.9	1821.3
72.5°	138.6	134.2	154.6	170.1	231.0	211.8	256.1	1385.5	1514.1	1824.9	1735.5
75°	107.4	104.6	122.0	149.8	173.6	165.2	162.0	841.3	981.7	1411.3	1518.3
77.5°	85.2	81.2	97.2	116.7	156.2	124.6	118.0	362.3	501.5	901.0	1136.1
80°	64.2	60.6	73.8	92.4	120.0	94.0	76.4	147.8	189.0	456.5	571.3
82.5°	45.6	42.4	51.6	67.8	80.8	84.4	46.8	82.8	93.2	176.0	127.6
85°	29.2	27.4	34.4	42.4	51.4	54.2	28.6	43.4	47.6	72.6	53.2
87.5°	16.0	13.0	18.6	19.8	23.8	21.6	13.6	15.8	17.0	26.2	22.4
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°	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6
2.5°	448.3	449.0	451.0	451.6	453.2	455.0	456.3	457.6	457.6	458.8	458.8
5°	454.4	455.8	460.2	462.6	466.4	470.2	472.4	475.2	476.9	477.8	478.2
7.5°	466.2	468.4	474.8	478.8	485.3	490.6	494.2	497.9	498.8	501.0	500.2
10°	482.2	484.8	492.0	499.6	507.4	513.9	517.2	520.0	521.0	521.4	520.4
12.5°	500.4	504.4	513.7	523.0	531.2	536.8	537.6	537.0	534.1	531.6	531.6
15°	523.0	526.5	536.8	546.9	554.9	556.0	550.7	547.3	543.8	543.1	543.1
17.5°	549.8	551.8	561.2	571.1	571.7	568.2	560.4	557.2	553.8	551.6	551.8
20°	581.2	580.6	587.3	591.5	587.0	576.2	564.4	559.1	555.8	553.0	553.2
22.5°	618.6	613.8	612.9	611.9	600.1	577.2	561.2	554.4	549.2	545.4	546.7
25°	673.0	654.6	641.8	634.6	608.1	571.5	551.1	536.2	526.3	519.8	522.3
27.5°	741.2	710.1	677.7	660.2	608.1	560.0	526.7	502.6	486.4	479.6	483.0
30°	806.2	773.6	725.8	691.2	606.6	541.0	487.4	453.8	434.8	428.1	432.1
32.5°	861.7	826.2	776.9	725.0	603.0	510.3	438.6	401.4	383.1	375.2	379.1
35°	913.2	875.4	828.2	762.2	593.6	465.4	385.0	356.6	336.2	323.4	327.6
37.5°	966.0	921.0	876.8	795.8	576.6	412.8	343.8	319.6	295.6	278.4	283.0
40°	1023.4	969.5	928.8	815.8	548.6	362.7	311.8	289.8	264.3	246.0	249.6
42.5°	1090.4	1027.8	986.6	826.2	510.3	327.2	291.0	269.4	245.4	230.4	233.4
45°	1160.5	1091.9	1039.4	825.9	467.6	310.6	284.2	262.8	236.4	220.8	223.3
47.5°	1233.9	1159.0	1085.0	812.5	430.6	312.8	280.5	248.8	219.6	204.4	206.4
50°	1307.4	1232.4	1129.1	787.2	414.8	307.8	266.4	229.0	194.5	180.8	181.6
52.5°	1380.4	1310.4	1167.2	751.3	398.8	289.2	248.4	203.4	184.2	174.8	174.8
55°	1453.8	1387.5	1208.6	698.9	359.0	267.2	218.0	193.6	176.0	167.4	166.6
57.5°	1527.4	1476.7	1247.9	646.6	308.6	240.4	201.4	181.8	167.8	160.4	159.2
60°	1603.9	1578.7	1288.5	598.4	259.0	205.8	189.2	172.4	158.2	150.0	149.2
62.5°	1682.7	1690.9	1320.3	536.4	213.4	184.8	178.4	161.0	147.2	139.4	139.2
65°	1762.3	1799.3	1341.1	450.4	173.0	164.8	166.6	148.6	134.6	127.8	127.6
67.5°	1822.1	1877.3	1335.2	340.8	142.0	146.0	151.8	135.6	122.4	117.2	117.4
70°	1828.9	1868.0	1277.1	233.4	118.8	127.4	135.4	122.8	109.2	105.4	105.6
72.5°	1739.3	1741.9	1115.5	152.4	100.6	111.8	118.2	109.8	96.6	92.8	92.6
75°	1504.5	1440.5	819.0	100.6	84.2	96.0	102.0	96.0	83.2	84.2	81.2
77.5°	1139.9	1020.2	497.3	71.4	70.2	80.8	88.8	84.6	73.6	82.6	72.8
80°	587.3	552.0	221.8	53.4	55.6	64.6	73.0	67.4	58.2	55.6	50.6
82.5°	134.6	156.4	87.4	38.2	40.2	46.4	55.8	50.6	41.8	35.4	35.0
85°	47.2	51.6	38.6	24.0	23.6	29.0	37.8	33.8	28.4	22.8	24.0
87.5°	15.0	19.6	14.6	9.6	10.0	13.0	17.4	16.0	13.2	8.6	9.0
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)