

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: P961012

Luminaire Tested: **NVN-SB1D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6869.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

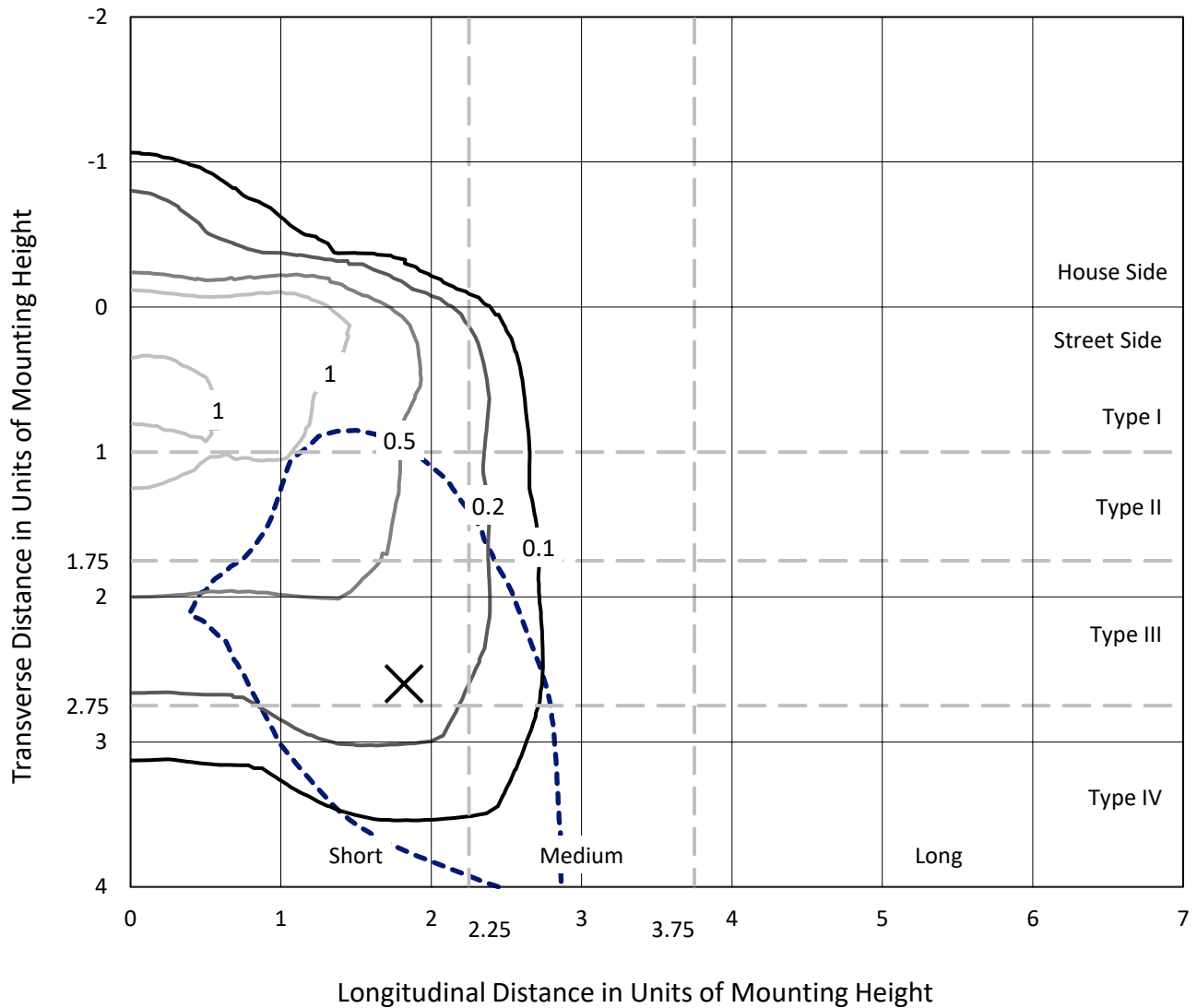
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

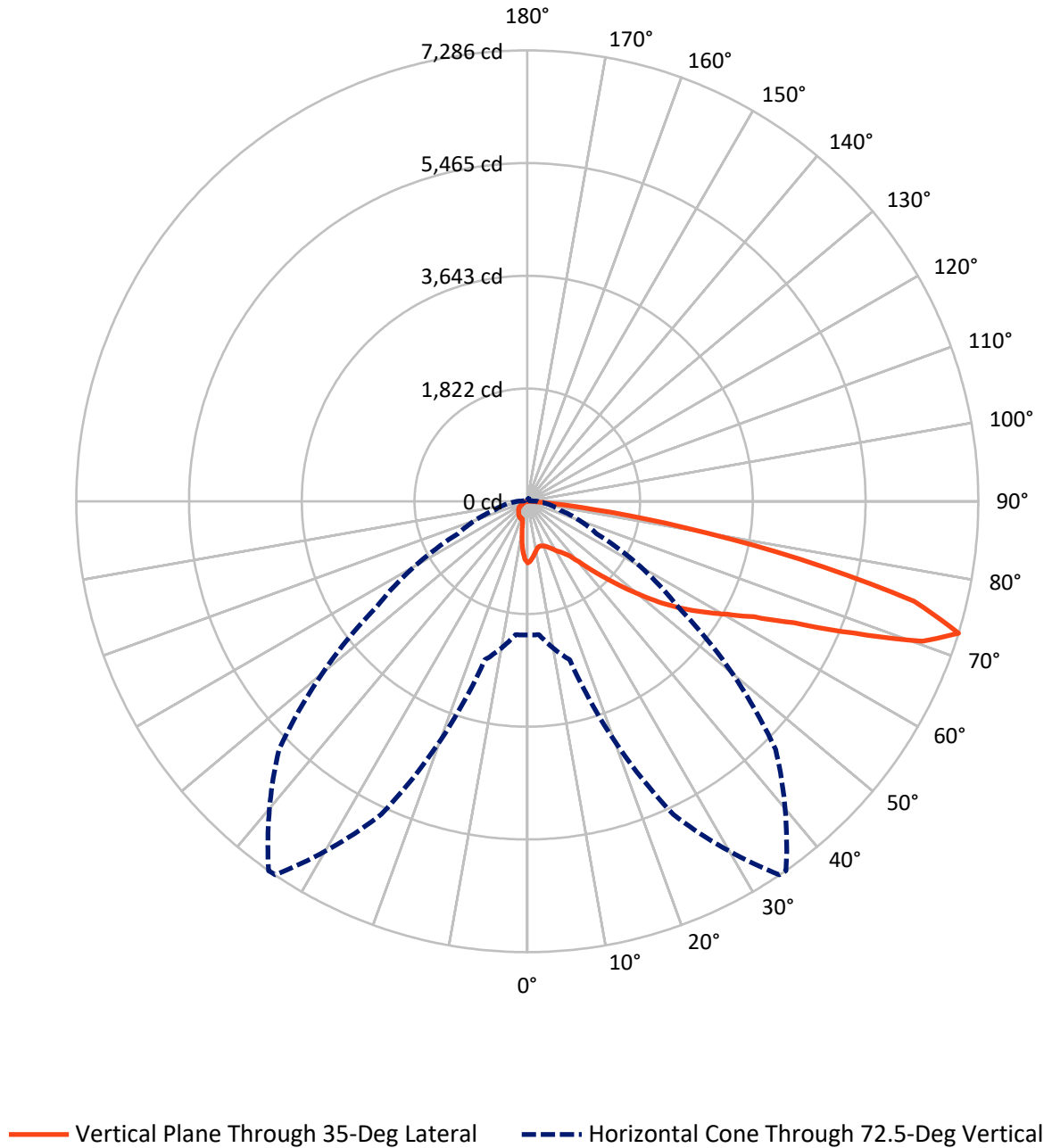
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	773.1	0.0	773.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6096.4	0.0	6096.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	6869.5	0.0	6869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.2
10°-20°	191.4	2.8
20°-30°	310.9	4.5
30°-40°	518.8	7.6
40°-50°	981.5	14.3
50°-60°	1559.6	22.7
60°-70°	1929.3	28.1
70°-80°	1199.3	17.5
80°-90°	96.9	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°	6869.5	100.0
0°-180°	6869.5	100.0

Coefficient of Utilization



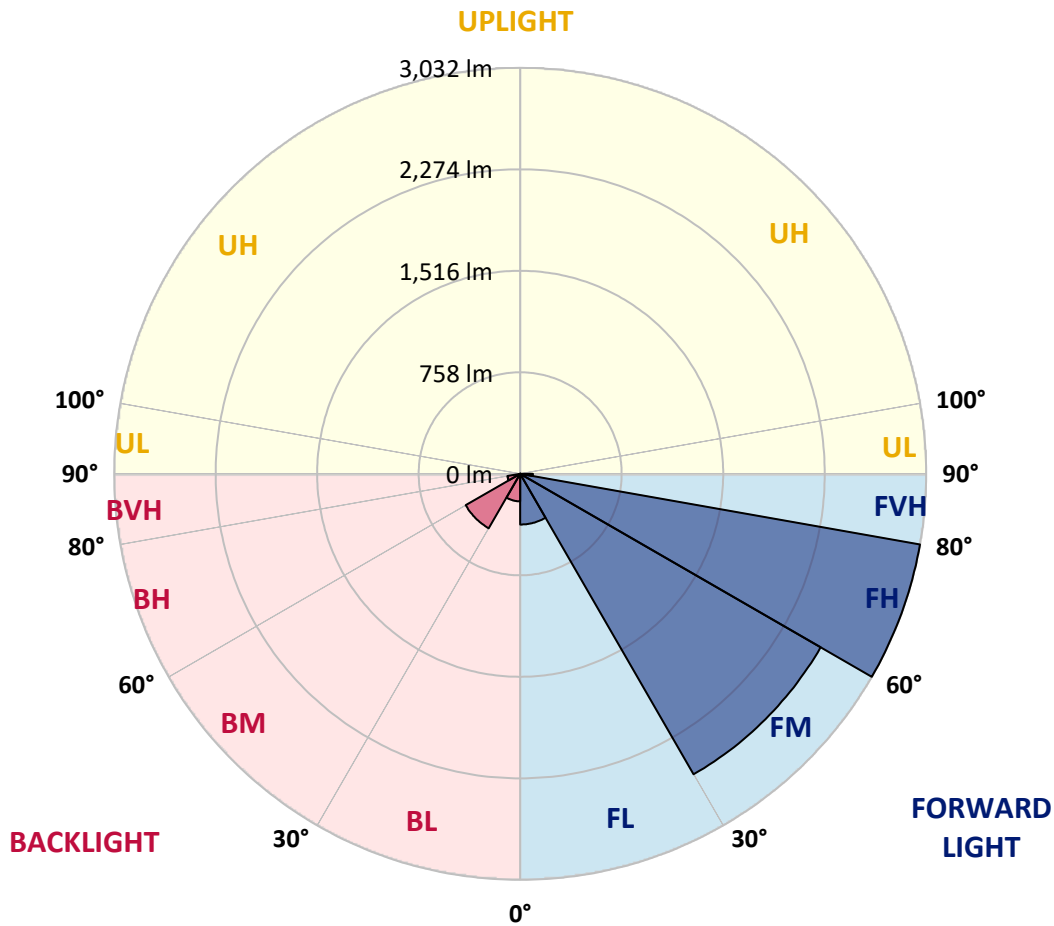
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.7	5.5			
FM (30°-60°)	2590.5	37.7			
FH (60°-80°)	3031.6	44.1			G2/5000
FVH (80°-90°)	95.6	1.4			G1/100
BL (0°-30°)	205.4	3.0	B1/500		
BM (30°-60°)	469.4	6.8	B1/1000		
BH (60°-80°)	97.0	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
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°	34°	35°	45°	55°	65°	75°	85°
0°	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6
2.5°	951.3	959.4	960.9	963.4	963.4	966.5	971.5	978.5	990.0	996.1	1000.2
5°	876.9	882.8	890.4	896.5	908.0	909.6	929.2	948.3	975.0	995.2	1009.2
7.5°	801.9	808.9	819.0	833.5	848.7	853.2	882.8	915.1	957.4	995.2	1018.7
10°	749.0	749.5	758.5	773.2	797.3	802.9	839.1	884.9	937.8	989.1	1027.9
12.5°	719.2	722.8	726.8	737.9	761.1	764.5	803.4	857.2	918.1	985.5	1038.4
15°	719.2	721.8	724.4	729.9	748.5	751.5	785.8	839.6	908.0	987.1	1055.5
17.5°	726.8	730.8	728.9	735.4	755.0	757.1	787.2	834.6	907.5	996.6	1081.7
20°	745.0	747.9	743.9	747.9	767.6	771.6	802.9	844.1	916.1	1013.2	1114.4
22.5°	773.7	775.2	765.6	768.6	788.7	793.8	830.0	871.2	936.7	1040.0	1158.2
25°	809.9	812.9	798.3	801.9	820.9	827.0	868.8	912.0	969.4	1076.7	1214.1
27.5°	851.7	853.2	840.6	840.1	864.8	873.3	915.6	962.4	1013.2	1123.0	1284.5
30°	899.4	904.0	892.0	889.9	921.2	928.1	970.0	1024.3	1077.7	1192.5	1384.7
32.5°	937.3	940.7	933.7	938.8	970.5	976.0	1035.9	1111.9	1178.9	1291.1	1521.1
35°	991.6	993.6	977.5	986.6	1022.8	1036.9	1126.0	1234.7	1306.2	1414.9	1699.3
37.5°	1188.4	1188.4	1119.9	1075.1	1109.9	1122.5	1249.3	1389.3	1463.3	1581.1	1923.8
40°	1460.7	1456.2	1356.1	1264.4	1259.9	1284.5	1425.0	1584.0	1666.1	1780.3	2176.5
42.5°	1751.1	1744.1	1607.7	1517.1	1502.0	1510.5	1627.8	1824.2	1907.7	2023.5	2448.3
45°	2008.9	2006.8	1882.0	1760.2	1733.1	1760.2	1881.0	2105.0	2164.9	2286.7	2719.6
47.5°	2224.8	2224.8	2133.7	2054.2	2040.1	2056.1	2223.8	2416.5	2411.0	2567.1	2983.9
50°	2473.4	2471.5	2384.9	2350.6	2365.3	2387.9	2618.5	2744.7	2665.7	2842.4	3219.9
52.5°	2647.6	2659.7	2630.0	2624.5	2698.9	2738.2	3019.1	3065.9	2893.8	3103.7	3396.6
55°	2785.5	2799.7	2833.8	2872.7	3016.1	3067.4	3407.2	3370.4	3084.5	3330.1	3498.3
57.5°	2980.8	2960.7	3013.6	3090.1	3322.1	3384.0	3783.2	3657.8	3238.1	3513.9	3509.4
60°	3217.9	3221.0	3230.0	3326.6	3627.7	3707.2	4153.6	3929.6	3336.7	3626.7	3386.5
62.5°	3502.8	3507.3	3526.0	3674.4	4037.9	4112.9	4548.2	4152.2	3382.0	3595.0	3069.5
65°	3483.2	3502.3	3710.2	4218.1	4661.5	4735.5	5008.9	4308.2	3313.5	3305.0	2499.2
67.5°	3173.1	3204.4	3552.1	4867.4	5601.8	5684.3	5565.5	4338.9	3018.1	2570.1	1630.4
70°	2766.4	2777.4	3195.7	5451.3	6690.6	6774.1	6063.9	4001.1	2290.3	1433.6	730.3
72.5°	2160.4	2162.9	2653.6	5586.7	7281.5	7286.0	5672.8	2970.2	1231.7	550.6	253.7
75°	1543.2	1528.2	1777.4	4530.7	6406.1	6457.5	4252.8	1393.3	470.7	260.2	126.4
77.5°	827.5	844.1	1005.7	2686.9	4425.4	4513.1	2320.5	401.7	239.6	177.2	83.5
80°	255.7	269.8	412.3	1230.2	2506.6	2559.5	860.2	178.7	167.1	126.4	54.8
82.5°	80.6	83.5	192.3	516.9	1040.5	1064.6	249.2	101.2	114.3	83.5	32.2
85°	23.2	23.7	85.6	192.8	257.2	262.2	70.0	39.3	65.4	51.9	16.6
87.5°	2.6	8.1	32.2	32.2	22.7	22.1	7.6	8.5	18.7	6.6	3.0
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°	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6
2.5°	997.6	998.1	991.6	980.5	968.4	958.4	945.8	935.7	928.6	926.7	930.2
5°	1004.7	1001.1	982.6	948.8	908.6	873.8	835.1	804.3	784.2	775.6	778.7
7.5°	1015.3	1005.2	964.4	898.0	820.9	752.6	683.1	629.1	594.9	577.9	580.4
10°	1024.3	1004.2	934.2	824.5	706.7	603.0	509.4	444.4	408.3	391.1	391.7
12.5°	1032.9	1003.7	894.9	737.4	577.9	451.0	363.9	331.7	321.6	318.2	317.1
15°	1049.0	1005.2	845.6	637.8	449.5	340.8	309.0	308.5	310.6	309.5	309.0
17.5°	1071.1	1006.7	789.8	532.1	346.9	300.5	299.0	303.5	306.6	305.0	304.5
20°	1099.8	1012.7	730.3	427.3	298.0	290.4	294.0	298.0	300.5	298.0	297.5
22.5°	1140.1	1023.4	665.4	343.3	282.4	284.4	287.4	291.9	294.5	290.9	290.4
25°	1189.4	1040.0	601.5	298.5	274.8	277.4	281.9	286.9	290.0	286.4	285.9
27.5°	1253.4	1066.6	542.6	288.4	267.3	268.8	275.3	282.9	286.9	282.4	282.4
30°	1345.9	1110.4	491.8	292.9	262.7	259.2	268.2	278.9	283.4	279.3	278.9
32.5°	1468.8	1172.3	460.5	300.0	260.8	248.2	256.7	270.3	277.9	275.3	275.3
35°	1629.9	1266.4	448.4	308.0	259.2	236.6	242.6	257.2	270.3	272.9	272.9
37.5°	1825.1	1397.3	452.0	311.6	254.7	227.0	230.0	242.6	259.7	267.8	269.8
40°	2047.1	1549.8	472.1	308.0	249.7	218.9	219.5	229.0	244.2	256.2	260.2
42.5°	2276.1	1728.0	509.4	295.0	245.2	211.9	210.4	217.0	227.0	235.5	239.1
45°	2494.1	1911.2	546.1	276.9	239.6	204.9	201.3	203.9	205.8	209.4	211.5
47.5°	2684.4	2040.1	535.6	260.2	232.1	196.8	190.8	189.7	183.7	183.3	182.8
50°	2815.8	2068.2	475.7	243.6	221.0	187.8	178.1	172.1	161.5	156.5	157.0
52.5°	2857.5	1957.0	388.6	227.0	202.8	175.7	162.1	152.5	139.4	134.9	134.4
55°	2802.1	1739.1	310.6	206.8	177.6	159.6	144.4	131.9	121.3	115.7	115.7
57.5°	2666.7	1461.8	245.6	183.3	151.0	141.4	126.4	113.8	104.7	99.1	98.2
60°	2442.3	1160.7	194.3	155.1	128.8	121.8	106.2	98.2	90.1	83.5	82.0
62.5°	2101.5	828.5	152.5	122.8	107.7	99.6	90.6	84.6	75.0	65.9	64.5
65°	1639.9	506.9	117.8	90.1	86.6	82.5	77.0	71.4	59.9	50.8	49.3
67.5°	1034.4	240.1	84.0	68.0	68.5	66.4	64.0	59.3	50.8	42.7	41.8
70°	455.5	116.2	55.4	51.9	50.8	50.8	52.9	51.4	43.3	35.8	34.2
72.5°	155.1	62.4	41.3	39.3	36.7	36.3	44.3	42.7	34.7	27.7	26.1
75°	81.1	41.8	30.2	28.2	22.1	26.6	35.3	33.2	24.7	18.1	16.6
77.5°	52.9	29.7	20.6	18.1	12.6	17.6	26.1	23.2	14.6	9.0	8.1
80°	33.2	19.7	12.1	8.5	6.0	9.5	14.1	10.0	5.5	2.0	1.5
82.5°	17.6	10.0	4.5	3.0	2.6	3.0	3.5	2.6	1.0	0.0	0.0
85°	7.1	3.5	1.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0	0.0
87.5°	2.6	0.5	0.0	0.0	0.0	0.0	0.0	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)