

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: P962058

Luminaire Tested: **NVN-SB2B-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-827-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

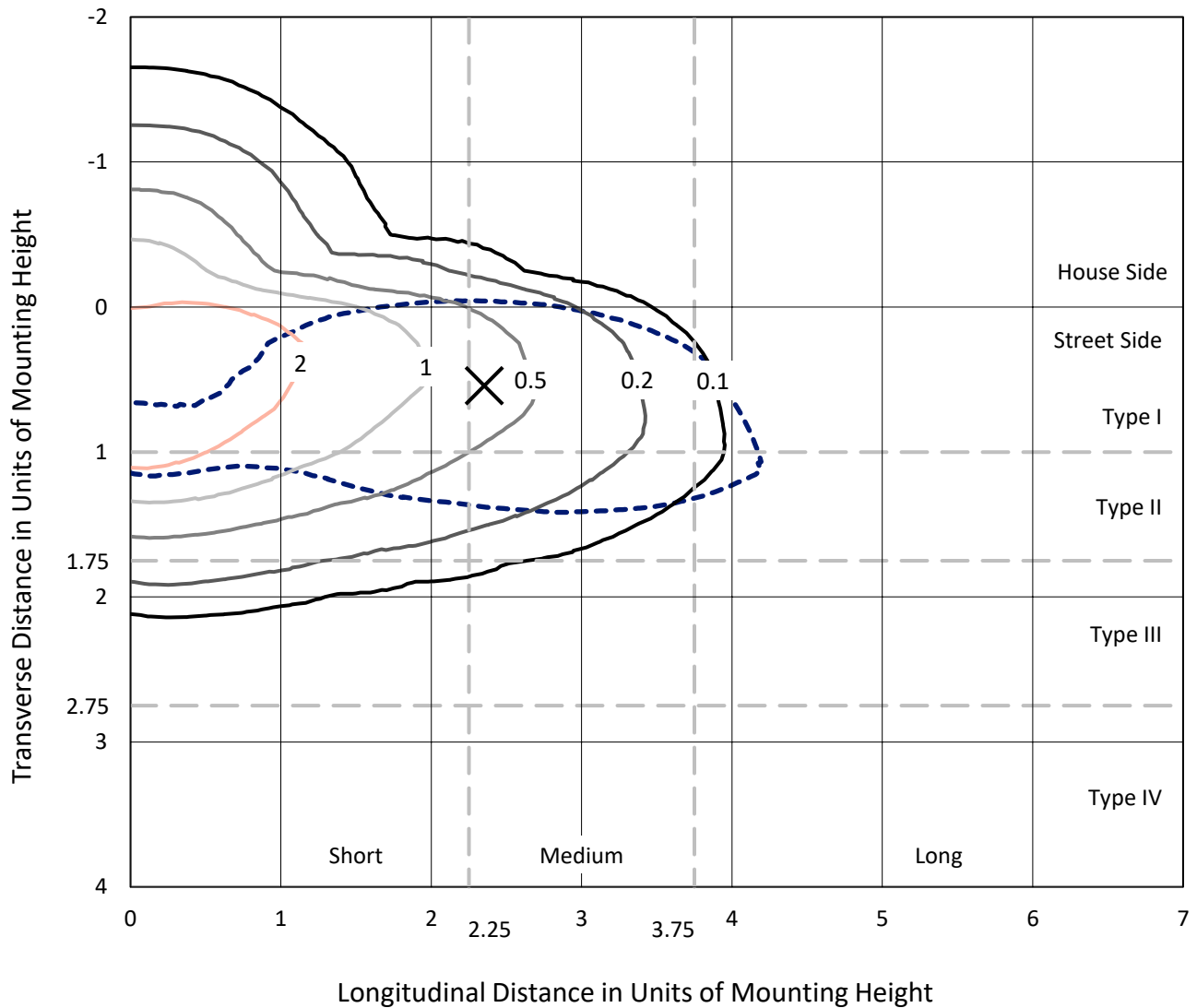
Lumens per Lamp: N/A  
Luminaire Lumens: 10223.3 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): 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

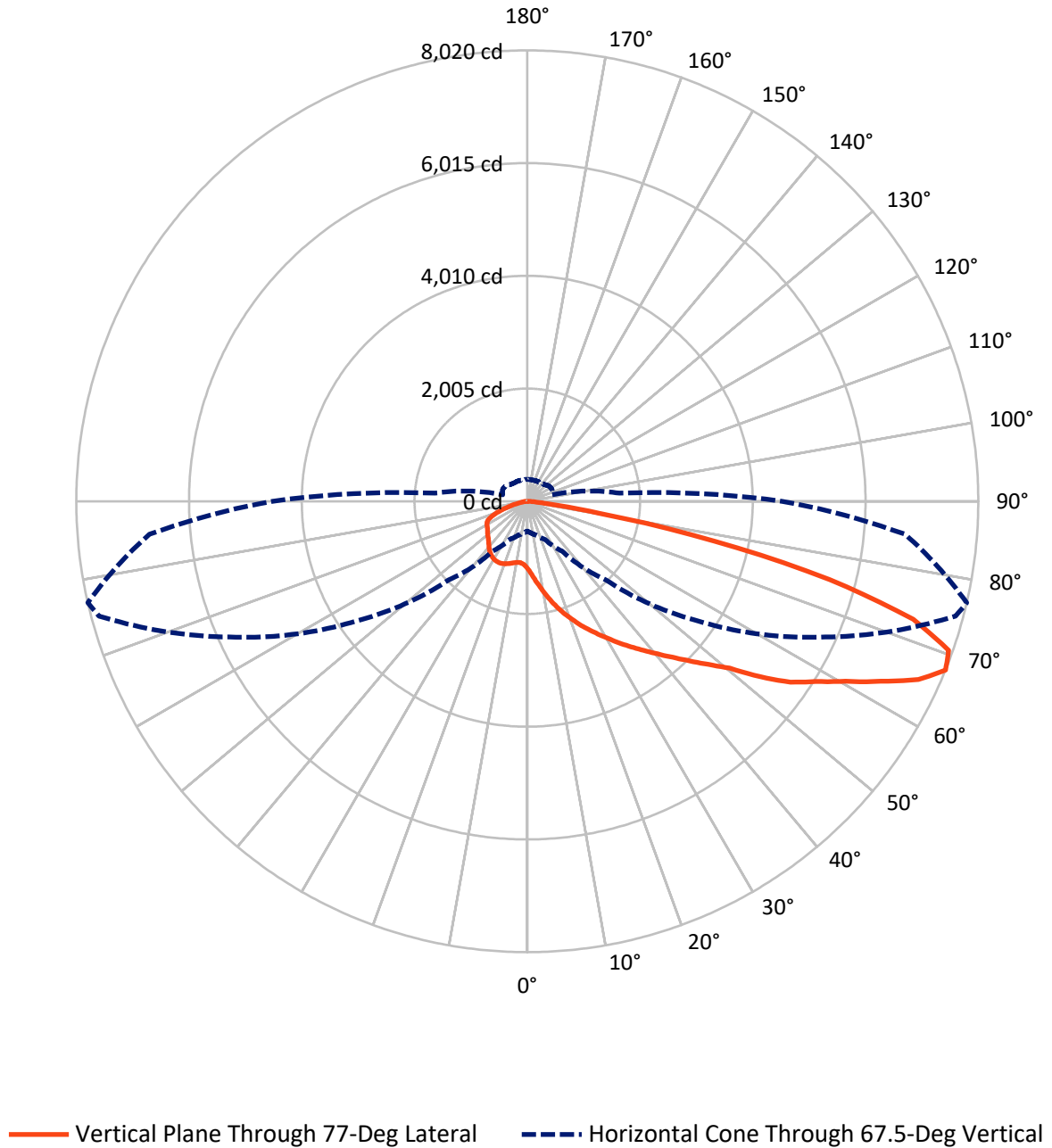
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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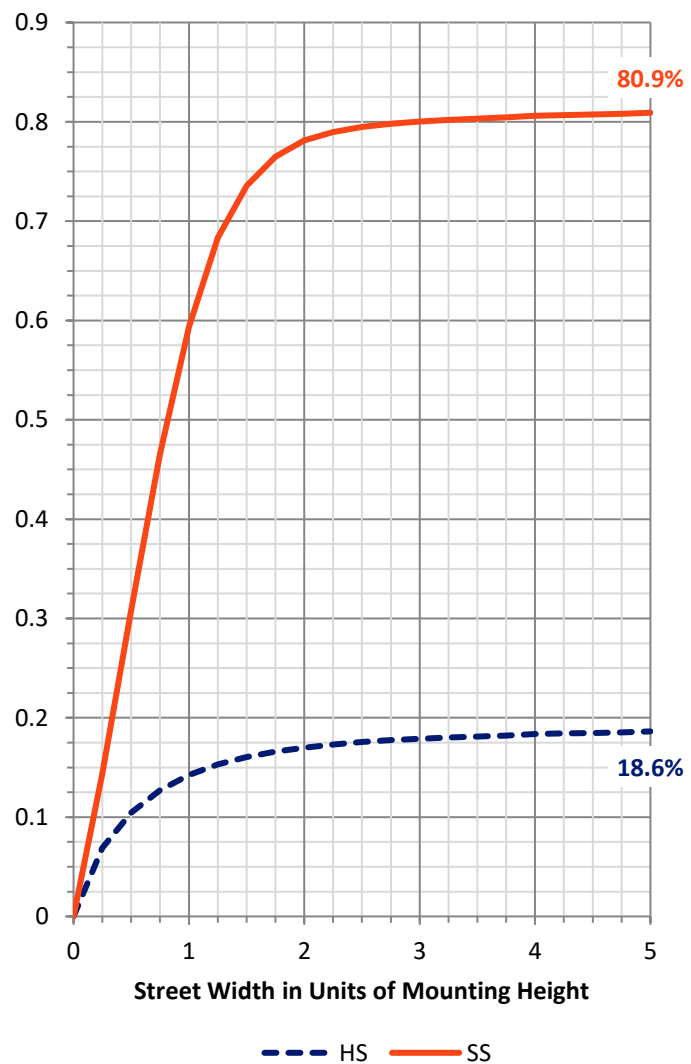
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1933.8	0.0	1933.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	8289.5	0.0	8289.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	10223.3	0.0	10223.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.6	1.3
10°-20°	461.9	4.5
20°-30°	872.1	8.5
30°-40°	1405.0	13.7
40°-50°	1921.8	18.8
50°-60°	2167.8	21.2
60°-70°	2023.3	19.8
70°-80°	1109.1	10.8
80°-90°	133.8	1.3
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°	10223.3	100.0
0°-180°	10223.3	100.0

**Coefficient of Utilization**



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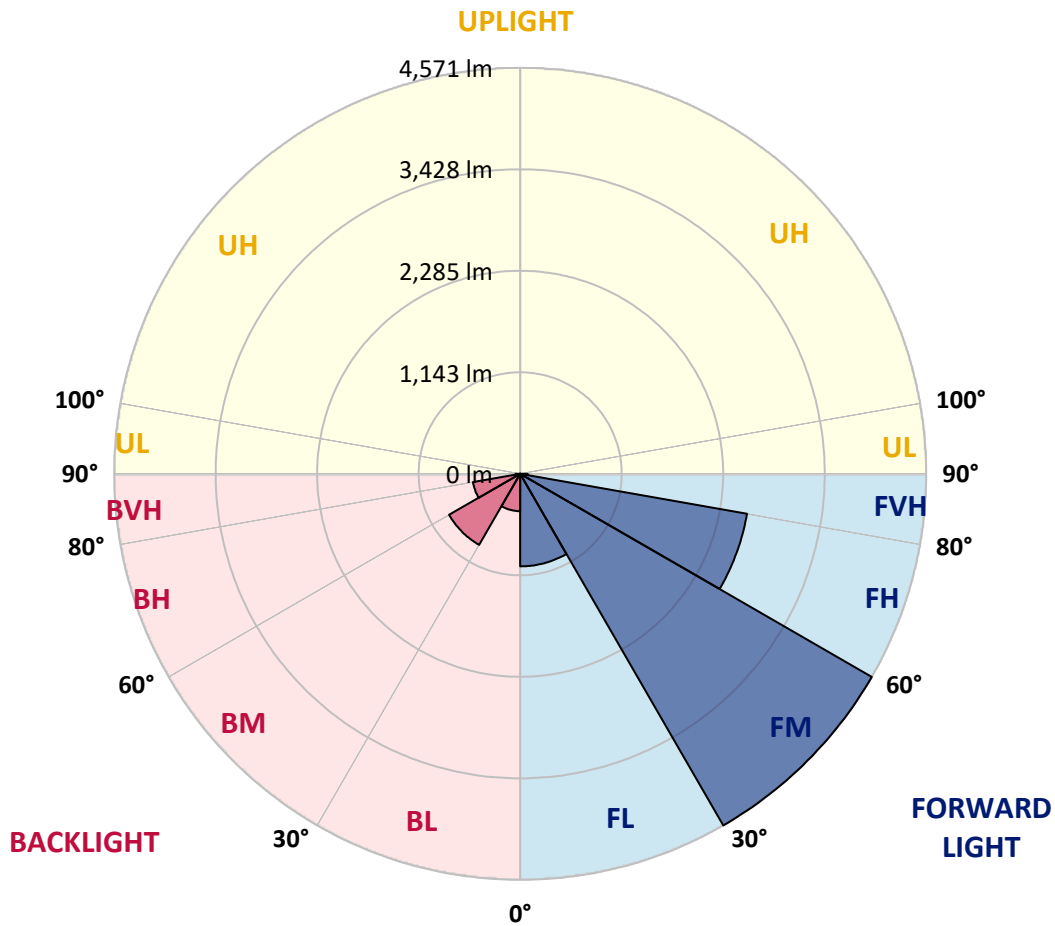
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.1	10.2			
FM (30°-60°)	4570.7	44.7			
FH (60°-80°)	2592.9	25.4			G2/5000
FVH (80°-90°)	83.7	0.8			G1/100
BL (0°-30°)	420.5	4.1	B1/500		
BM (30°-60°)	923.7	9.0	B1/1000		
BH (60°-80°)	539.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	50.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1501.9	1512.5	1499.3	1499.3	1454.9	1431.7	1387.3	1353.6	1292.9	1282.4	1242.3
5°	1775.3	1788.4	1770.0	1762.1	1709.8	1661.8	1587.4	1514.0	1405.9	1394.8	1300.3
7.5°	1986.9	2003.8	1987.4	1979.0	1932.5	1878.7	1791.6	1689.2	1536.8	1515.1	1378.4
10°	2159.5	2162.1	2156.8	2160.0	2123.6	2079.2	1990.0	1870.8	1680.3	1650.8	1472.9
12.5°	2257.0	2269.2	2279.8	2298.8	2292.4	2264.9	2184.8	2042.3	1832.3	1794.3	1575.8
15°	2303.0	2324.1	2347.9	2391.6	2427.0	2433.9	2372.7	2226.5	1986.9	1940.9	1679.8
17.5°	2319.4	2339.4	2376.9	2440.2	2516.2	2567.4	2540.0	2405.4	2139.9	2087.1	1789.0
20°	2402.2	2408.0	2430.7	2490.9	2573.2	2658.1	2678.7	2577.4	2291.4	2231.7	1901.9
22.5°	2579.5	2567.9	2574.3	2601.7	2660.8	2743.1	2790.0	2729.4	2447.1	2378.4	2015.9
25°	2872.4	2838.6	2804.8	2773.2	2803.3	2849.7	2903.0	2881.4	2610.2	2523.0	2131.0
27.5°	3242.4	3201.2	3126.8	3022.8	2986.4	3002.7	3026.5	3022.3	2761.0	2672.9	2249.7
30°	3606.5	3558.5	3469.8	3319.4	3223.3	3180.1	3162.1	3150.0	2925.1	2831.3	2369.5
32.5°	3897.3	3859.2	3772.2	3603.8	3464.5	3390.6	3330.9	3287.7	3096.7	3002.7	2496.2
35°	4151.6	4116.3	4016.5	3832.9	3681.4	3602.8	3524.7	3432.3	3275.1	3180.1	2632.3
37.5°	4383.8	4348.5	4211.7	4020.8	3868.2	3813.8	3744.2	3587.5	3453.9	3364.3	2776.3
40°	4530.5	4522.6	4394.9	4178.5	4020.2	3993.3	3970.0	3767.4	3652.4	3568.9	2934.7
42.5°	4568.0	4585.4	4484.1	4306.2	4155.2	4133.6	4188.0	3971.2	3875.1	3795.4	3114.1
45°	4477.7	4527.8	4461.4	4340.6	4251.4	4239.7	4381.2	4193.8	4121.5	4048.6	3330.4
47.5°	4249.2	4334.2	4306.7	4289.8	4277.2	4327.3	4551.1	4430.3	4400.7	4337.4	3577.5
50°	3788.0	3948.9	3997.0	4103.6	4226.0	4395.4	4705.7	4688.3	4726.8	4662.9	3878.3
52.5°	2990.6	3212.2	3490.9	3758.0	4068.7	4372.8	4875.6	5058.8	5221.3	5186.5	4356.4
55°	2468.7	2568.4	2782.7	3272.4	3763.7	4277.2	4952.2	5358.0	5712.1	5681.0	4718.9
57.5°	2067.6	2156.8	2288.7	2697.7	3302.4	4060.3	4999.6	5540.5	6048.2	6045.0	5076.7
60°	1637.5	1731.9	1867.0	2156.8	2763.7	3685.6	4989.1	5748.5	6477.3	6503.6	5513.2
62.5°	1152.0	1255.9	1405.9	1676.1	2213.3	3200.2	4773.8	5898.9	6982.3	7054.0	6038.2
65°	757.3	825.8	938.8	1172.1	1649.1	2575.8	4362.7	5918.5	7522.7	7644.0	6531.1
67.5°	530.8	557.3	623.8	750.4	1087.1	1975.3	3707.8	5716.3	7883.2	8019.8	6744.8
70°	414.3	427.4	461.2	511.9	682.9	1328.3	2841.3	5190.7	7806.1	7948.6	6521.6
72.5°	357.8	370.4	383.1	389.5	458.1	820.1	1924.6	4340.0	7080.5	7177.0	5670.4
75°	324.5	327.7	338.2	336.2	349.3	532.0	1110.9	3162.1	5586.5	5553.2	4185.9
77.5°	272.9	277.1	294.5	291.8	310.3	363.6	576.8	2040.7	3621.7	3395.9	2329.9
80°	231.1	233.3	252.3	249.1	269.7	263.3	294.5	1040.2	1536.2	1301.3	671.8
82.5°	80.3	99.2	192.6	198.4	205.8	159.4	169.9	424.2	469.1	359.4	140.9
85°	39.1	41.7	98.2	139.3	138.8	80.3	82.8	151.5	147.8	116.1	46.9
87.5°	6.4	7.9	11.6	54.3	43.3	21.1	28.5	29.5	30.6	26.3	10.6
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°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1212.7	1186.3	1130.9	1079.7	1039.7	1001.1	979.5	960.9	950.4	948.3	948.3
5°	1245.5	1191.0	1090.3	1005.3	949.9	908.8	887.1	873.4	866.5	862.3	861.8
7.5°	1292.4	1212.7	1069.2	972.6	914.5	885.0	873.9	871.8	871.2	871.8	873.4
10°	1357.3	1248.0	1067.0	964.7	916.1	899.7	899.2	899.7	901.9	902.4	902.9
12.5°	1427.5	1284.5	1075.5	971.5	936.1	927.2	925.7	925.1	926.7	927.7	928.2
15°	1504.0	1332.5	1089.8	986.4	958.4	948.8	947.3	944.1	943.6	943.0	942.5
17.5°	1582.6	1380.0	1105.6	1002.1	972.6	959.4	953.6	946.2	940.4	938.8	940.4
20°	1662.3	1427.0	1116.6	1010.0	973.6	955.2	943.6	930.9	920.9	915.1	917.2
22.5°	1747.3	1476.0	1123.5	1008.0	964.1	938.8	917.7	902.9	887.6	877.6	878.1
25°	1830.1	1518.7	1123.0	996.9	945.7	913.5	886.6	867.6	846.4	835.9	835.9
27.5°	1909.9	1557.3	1109.8	977.3	919.3	883.4	851.3	828.5	807.9	798.0	797.3
30°	1992.2	1589.5	1089.3	948.8	888.2	848.6	813.2	793.7	775.2	765.8	765.2
32.5°	2074.0	1619.1	1060.2	913.5	852.3	814.3	779.4	761.5	750.4	750.4	750.9
35°	2160.5	1639.6	1021.7	872.4	814.3	777.9	750.4	739.8	738.8	732.5	730.9
37.5°	2251.8	1652.8	974.7	830.1	776.8	742.5	734.1	721.4	710.8	697.1	695.1
40°	2347.9	1666.0	918.2	786.3	737.2	718.2	714.5	697.6	667.6	633.8	629.0
42.5°	2464.5	1675.0	859.7	742.5	695.6	689.2	694.4	665.4	617.5	592.1	592.7
45°	2599.6	1689.8	805.9	699.3	652.8	652.8	675.0	636.9	597.4	581.6	584.1
47.5°	2774.8	1724.0	755.7	651.7	613.3	623.8	631.7	602.7	580.5	561.0	560.5
50°	3028.1	1806.4	704.0	603.7	583.1	604.2	593.2	576.3	550.4	534.5	533.0
52.5°	3342.6	1854.9	658.0	560.5	557.3	578.4	562.5	546.7	527.2	506.0	501.8
55°	3556.9	1864.0	619.5	528.8	539.9	537.7	532.0	517.7	507.2	479.2	479.7
57.5°	3796.4	1881.9	587.8	509.7	528.8	505.5	503.5	491.3	477.5	458.6	452.2
60°	4083.0	1909.9	560.5	502.4	519.3	484.4	473.9	469.1	455.4	446.0	448.5
62.5°	4395.4	1935.2	532.5	503.5	508.2	463.9	448.0	446.5	438.0	434.8	434.8
65°	4608.6	1866.0	497.6	502.4	490.8	442.8	422.7	422.2	415.3	414.3	413.7
67.5°	4534.2	1647.1	450.7	487.6	472.8	421.7	399.4	397.4	388.4	388.9	388.9
70°	4161.6	1334.7	385.8	451.2	450.7	402.6	375.3	368.4	356.2	358.3	360.4
72.5°	3463.0	988.9	298.7	390.5	415.3	385.2	347.3	336.2	320.8	323.0	322.5
75°	2500.9	672.3	217.4	297.1	361.5	364.7	319.8	300.8	282.3	285.5	286.6
77.5°	1279.7	381.0	159.9	204.8	283.9	331.4	295.0	269.7	265.5	295.0	290.8
80°	417.4	191.1	110.8	143.5	186.2	271.2	258.6	229.6	228.5	235.3	202.1
82.5°	124.5	80.8	71.2	94.5	102.9	208.0	223.2	173.6	149.3	157.2	162.6
85°	42.7	39.1	40.6	46.9	49.1	121.9	156.2	115.0	108.8	119.8	118.2
87.5°	10.0	13.7	11.6	10.6	10.6	29.5	60.7	48.1	66.5	44.3	42.7
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)