

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: P968382

Luminaire Tested: **NVN-SB5B-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968382  
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-SB5B-827-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

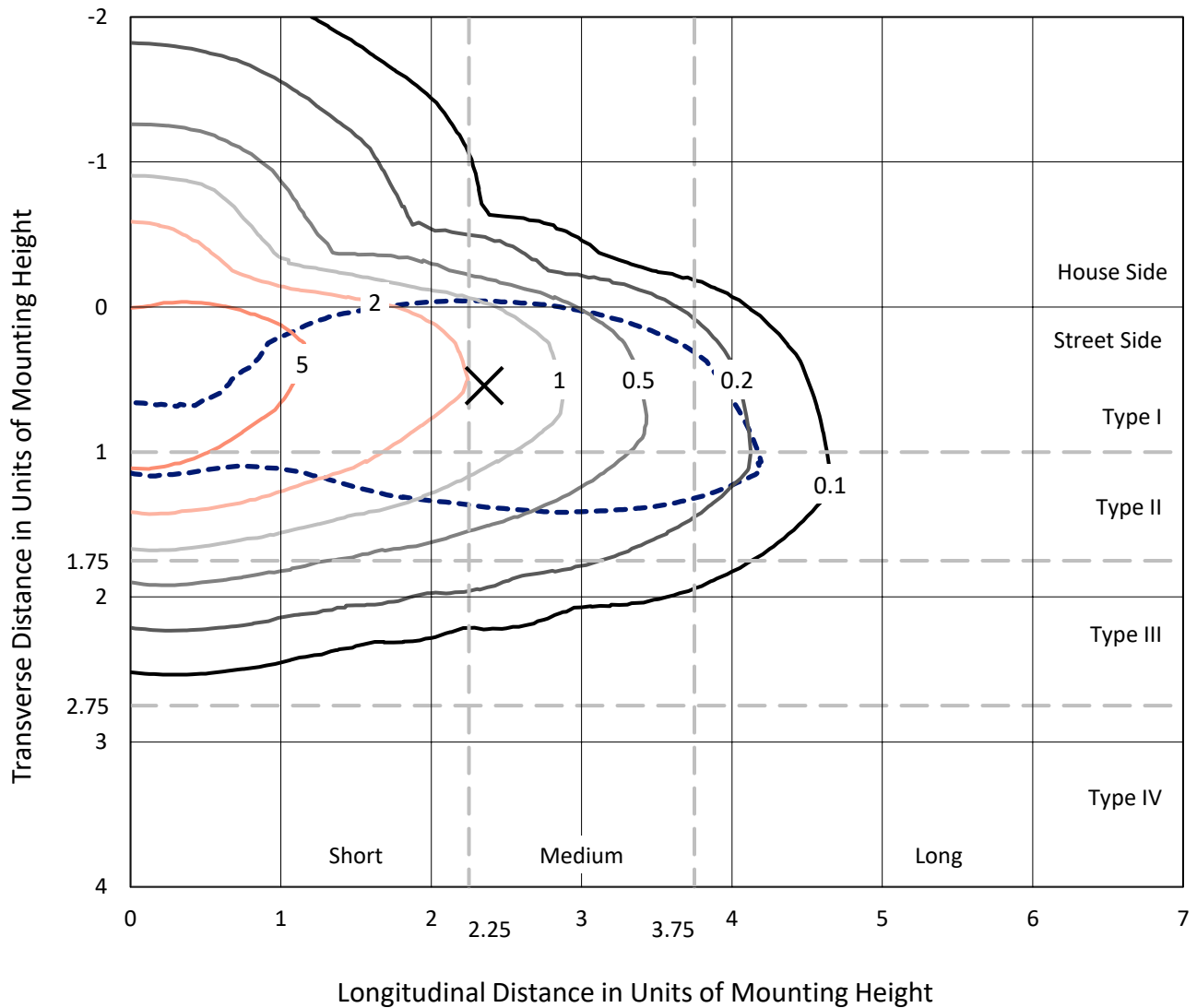
Lumens per Lamp: N/A  
Luminaire Lumens: 25823.8 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): 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

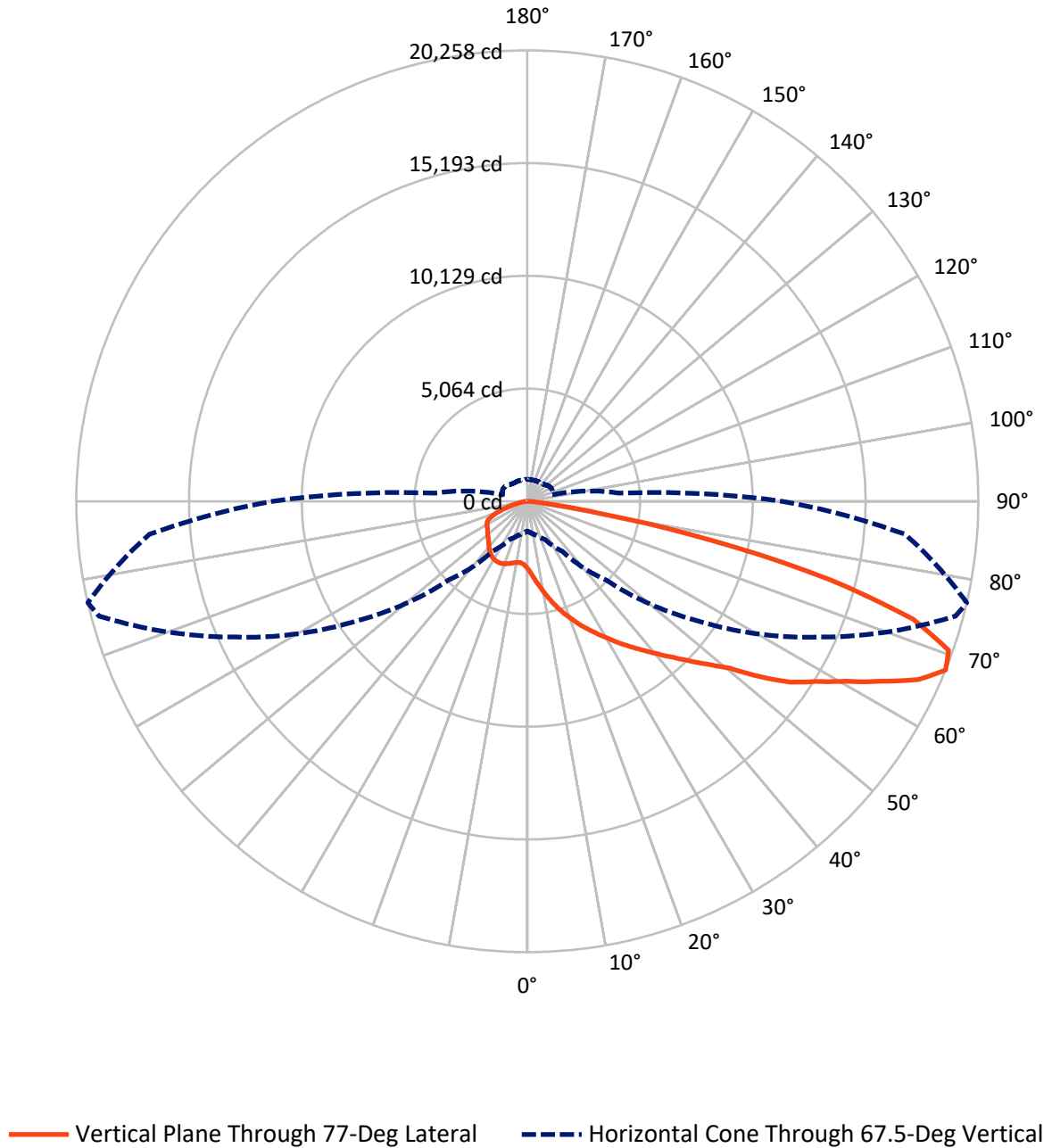
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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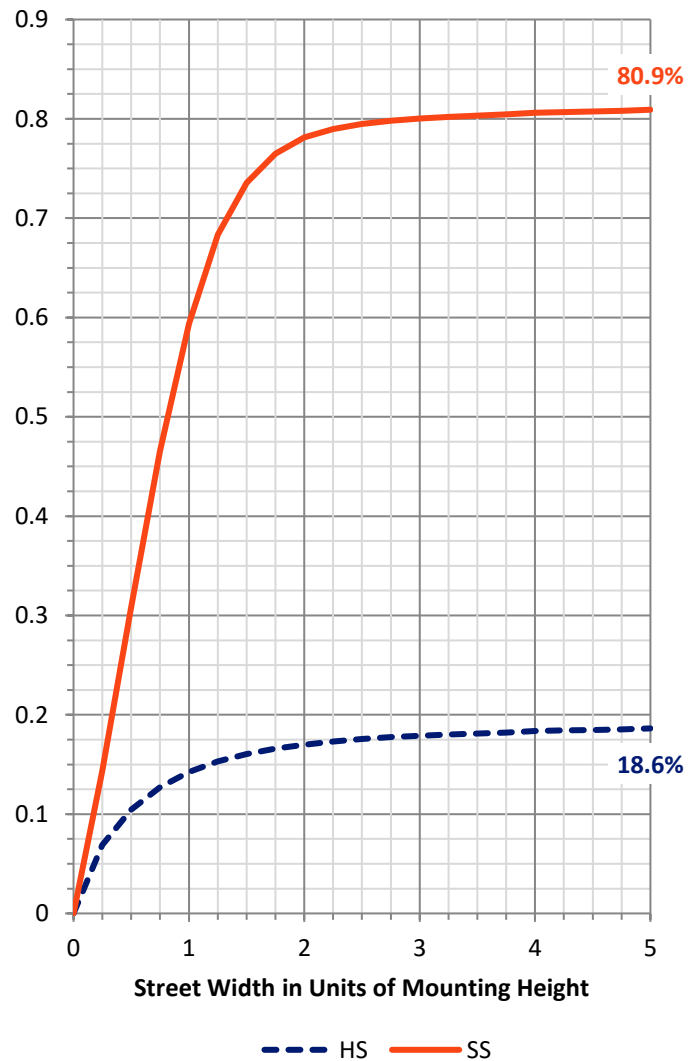
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4884.8	0.0	4884.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	20939.0	0.0	20939.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	25823.8	0.0	25823.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	1.3
10°-20°	1166.8	4.5
20°-30°	2203.0	8.5
30°-40°	3548.9	13.7
40°-50°	4854.3	18.8
50°-60°	5475.7	21.2
60°-70°	5110.9	19.8
70°-80°	2801.6	10.8
80°-90°	337.9	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°	25823.8	100.0
0°-180°	25823.8	100.0



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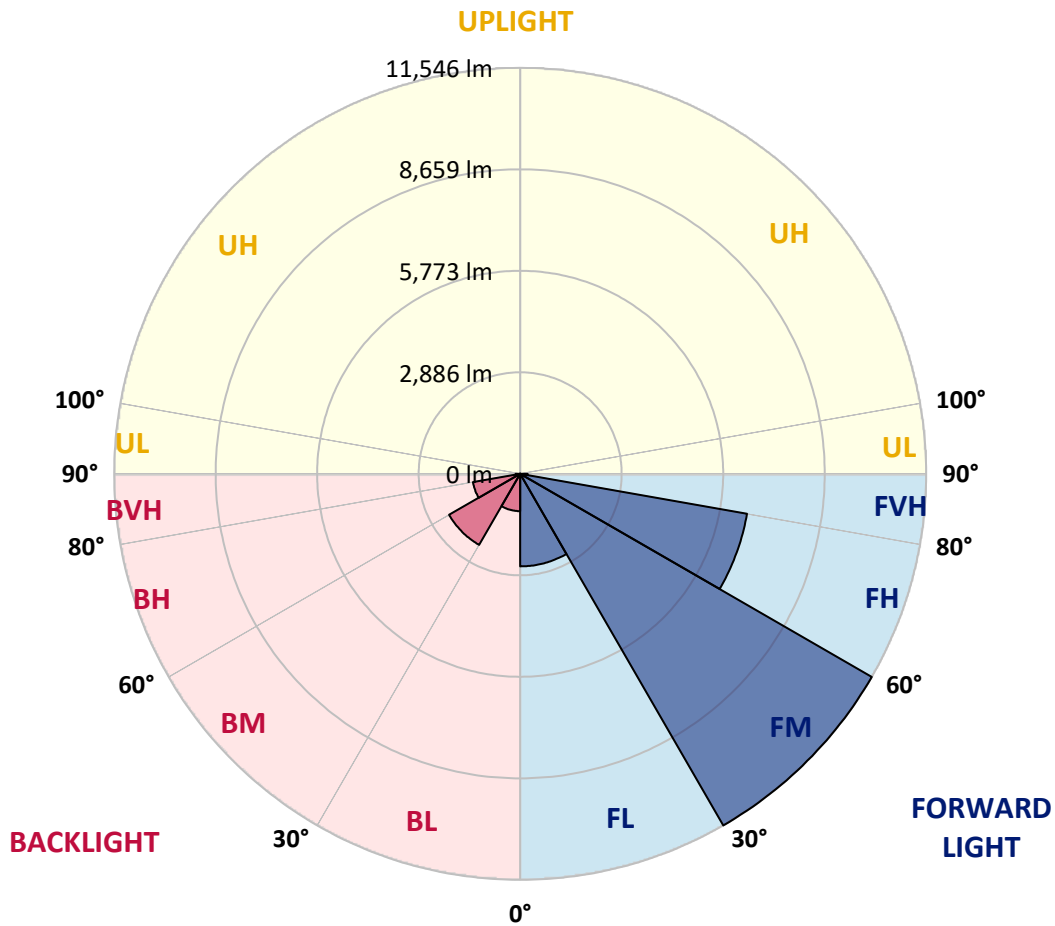
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.4	10.2			
FM (30°-60°)	11545.6	44.7			
FH (60°-80°)	6549.7	25.4			G3/7500
FVH (80°-90°)	211.3	0.8			G2/225
BL (0°-30°)	1062.1	4.1	B3/2500		
BM (30°-60°)	2333.4	9.0	B2/2500		
BH (60°-80°)	1362.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9
2.5°	3793.7	3820.4	3787.1	3787.1	3675.1	3616.5	3504.5	3419.2	3265.9	3239.2	3137.9
5°	4484.3	4517.6	4470.9	4451.0	4318.9	4197.7	4009.7	3824.4	3551.1	3523.1	3284.5
7.5°	5018.8	5061.4	5020.1	4998.8	4881.5	4745.5	4525.6	4267.0	3881.8	3827.0	3481.8
10°	5454.7	5461.4	5448.0	5456.1	5364.0	5252.1	5026.8	4725.6	4244.3	4169.7	3720.4
12.5°	5701.3	5732.0	5758.7	5806.6	5790.6	5721.3	5518.7	5158.7	4628.2	4532.2	3980.4
15°	5817.3	5870.6	5930.5	6041.2	6130.5	6147.8	5993.3	5624.0	5018.8	4902.8	4243.0
17.5°	5858.6	5909.2	6003.9	6163.8	6355.8	6485.1	6415.8	6075.9	5405.3	5272.1	4518.9
20°	6067.9	6082.6	6139.9	6291.9	6499.7	6714.4	6766.3	6510.4	5788.0	5637.3	4804.2
22.5°	6515.7	6486.4	6502.4	6571.8	6721.0	6929.0	7047.6	6894.4	6181.2	6007.9	5092.1
25°	7255.6	7170.3	7085.0	7005.0	7081.0	7198.3	7333.0	7278.2	6593.1	6373.1	5382.7
27.5°	8190.1	8086.0	7898.1	7635.5	7543.5	7584.9	7644.9	7634.2	6974.3	6751.7	5682.6
30°	9109.8	8988.5	8764.6	8384.7	8142.1	8032.7	7987.4	7956.8	7388.9	7151.6	5985.2
32.5°	9844.3	9748.4	9528.4	9103.1	8751.2	8564.6	8414.0	8304.7	7822.1	7584.9	6305.2
35°	10486.8	10397.5	10145.6	9681.6	9299.1	9100.5	8903.2	8670.0	8272.7	8032.7	6649.1
37.5°	11073.4	10984.0	10638.8	10156.2	9771.0	9633.7	9457.8	9061.8	8724.6	8498.0	7012.9
40°	11443.9	11423.9	11101.4	10554.8	10154.9	10086.9	10028.3	9516.4	9225.8	9015.2	7412.9
42.5°	11538.5	11582.6	11326.7	10877.4	10496.1	10441.5	10578.8	10031.0	9788.3	9587.0	7866.2
45°	11310.7	11437.3	11269.3	10964.0	10738.7	10709.4	11066.7	10593.5	10410.8	10226.8	8412.7
47.5°	10733.4	10948.0	10878.7	10836.1	10804.1	10930.7	11495.9	11190.6	11116.0	10956.0	9036.5
50°	9568.4	9974.9	10096.2	10365.5	10674.8	11102.7	11886.5	11842.5	11939.8	11778.5	9796.3
52.5°	7554.1	8114.0	8817.9	9492.4	10277.6	11045.4	12315.7	12778.3	13188.9	13100.8	11004.0
55°	6235.8	6487.7	7028.9	8266.0	9507.1	10804.1	12509.0	13534.1	14428.5	14349.9	11919.8
57.5°	5222.8	5448.0	5781.3	6814.4	8342.0	10256.3	12628.9	13995.4	15277.6	15269.6	12823.6
60°	4136.4	4374.9	4716.2	5448.0	6981.0	9309.8	12602.3	14520.6	16361.5	16428.1	13926.0
62.5°	2910.0	3172.6	3551.1	4233.7	5590.7	8083.4	12058.4	14900.4	17637.1	17818.4	15252.3
65°	1912.9	2086.2	2371.4	2960.6	4165.7	6506.4	11020.0	14949.7	19002.1	19308.7	16497.4
67.5°	1341.0	1407.6	1575.6	1895.5	2746.0	4989.5	9365.7	14439.2	19912.6	20257.8	17037.2
70°	1046.4	1079.7	1165.0	1293.0	1724.9	3355.2	7176.9	13111.5	19717.9	20077.8	16473.4
72.5°	903.7	935.8	967.8	983.8	1157.0	2071.5	4861.5	10962.7	17885.0	18129.0	14323.2
75°	819.8	827.8	854.4	849.1	882.4	1343.7	2806.0	7987.4	14111.3	14027.3	10573.5
77.5°	689.2	699.9	743.8	737.2	783.8	918.4	1456.9	5154.7	9148.4	8577.9	5885.2
80°	583.8	589.2	637.1	629.1	681.2	665.2	743.8	2627.4	3880.4	3287.2	1696.9
82.5°	202.6	250.6	486.6	501.2	519.9	402.6	429.3	1071.7	1185.0	907.7	355.9
85°	98.6	105.3	247.9	351.9	350.5	202.6	209.3	382.5	373.2	293.3	118.6
87.5°	16.0	20.0	29.3	137.4	109.3	53.3	72.0	74.6	77.3	66.6	26.6
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°	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9
2.5°	3063.3	2996.6	2856.7	2727.3	2626.0	2528.8	2474.0	2427.4	2400.8	2395.4	2395.4
5°	3145.9	3008.6	2754.0	2539.4	2399.4	2295.5	2240.8	2206.1	2188.8	2178.1	2176.8
7.5°	3264.5	3063.3	2700.7	2456.7	2310.1	2235.4	2207.4	2202.1	2200.8	2202.1	2206.1
10°	3428.5	3152.6	2695.3	2436.7	2314.1	2272.8	2271.5	2272.8	2278.2	2279.5	2280.8
12.5°	3605.8	3244.5	2716.7	2454.1	2364.8	2342.1	2338.1	2336.8	2340.8	2343.5	2344.8
15°	3799.1	3365.9	2752.6	2491.4	2420.7	2396.8	2392.8	2384.8	2383.4	2382.1	2380.8
17.5°	3997.7	3485.8	2792.6	2531.4	2456.7	2423.4	2408.8	2390.1	2375.4	2371.4	2375.4
20°	4199.0	3604.5	2820.7	2551.4	2459.4	2412.7	2383.4	2351.5	2326.1	2311.5	2316.8
22.5°	4413.6	3728.4	2838.0	2546.1	2435.4	2371.4	2318.1	2280.8	2242.1	2216.8	2218.1
25°	4622.9	3836.4	2836.7	2518.0	2388.8	2307.5	2239.4	2191.4	2138.1	2111.5	2111.5
27.5°	4824.2	3933.7	2803.4	2468.7	2322.1	2231.4	2150.1	2092.8	2040.9	2015.6	2014.2
30°	5032.1	4015.0	2751.3	2396.8	2243.4	2143.5	2054.2	2004.9	1958.2	1934.2	1932.8
32.5°	5238.8	4089.6	2678.0	2307.5	2152.8	2056.9	1968.8	1923.5	1895.5	1895.5	1896.9
35°	5457.4	4141.7	2580.7	2203.4	2056.9	1964.8	1895.5	1868.9	1866.2	1850.2	1846.2
37.5°	5687.9	4175.0	2462.0	2096.8	1962.2	1875.5	1854.2	1822.2	1795.6	1761.0	1755.6
40°	5930.5	4208.3	2319.5	1986.1	1862.2	1814.2	1804.9	1762.3	1686.2	1600.9	1589.0
42.5°	6225.1	4231.0	2171.5	1875.5	1757.0	1741.0	1754.3	1680.9	1559.6	1495.7	1497.0
45°	6566.5	4268.3	2035.5	1766.3	1648.9	1648.9	1704.9	1608.9	1509.0	1469.0	1475.7
47.5°	7009.0	4354.9	1908.9	1646.3	1549.0	1575.6	1595.6	1522.3	1466.4	1417.0	1415.6
50°	7648.9	4562.9	1778.3	1525.0	1473.0	1526.3	1498.3	1455.6	1390.3	1350.3	1346.3
52.5°	8443.3	4685.6	1662.2	1415.6	1407.6	1460.9	1421.0	1381.0	1331.7	1278.4	1267.7
55°	8984.5	4708.2	1565.0	1335.7	1363.7	1358.3	1343.7	1307.7	1281.0	1210.4	1211.8
57.5°	9589.7	4753.5	1485.0	1287.7	1335.7	1277.0	1271.7	1241.1	1206.4	1158.4	1142.4
60°	10313.6	4824.2	1415.6	1269.1	1311.7	1223.7	1197.0	1185.0	1150.4	1126.4	1133.0
62.5°	11102.7	4888.1	1345.0	1271.7	1283.7	1171.7	1131.7	1127.7	1106.4	1098.4	1098.4
65°	11641.2	4713.6	1257.1	1269.1	1239.7	1118.4	1067.7	1066.4	1049.1	1046.4	1045.1
67.5°	11453.2	4160.4	1138.4	1231.7	1194.3	1065.1	1009.1	1003.8	981.1	982.5	982.5
70°	10512.2	3371.2	974.5	1139.7	1138.4	1017.1	947.8	930.4	899.7	905.1	910.4
72.5°	8747.2	2498.0	754.5	986.5	1049.1	973.1	877.1	849.1	810.5	815.8	814.5
75°	6317.2	1698.2	549.2	750.5	913.1	921.1	807.8	759.8	713.2	721.2	723.9
77.5°	3232.5	962.5	404.0	517.2	717.2	837.1	745.2	681.2	670.6	745.2	734.5
80°	1054.4	482.6	279.9	362.5	470.6	685.2	653.1	579.8	577.2	594.5	510.6
82.5°	314.6	204.0	180.0	238.6	259.9	525.2	563.9	438.6	377.2	397.2	410.6
85°	107.9	98.6	102.6	118.6	123.9	307.9	394.5	290.6	274.6	302.6	298.6
87.5°	25.3	34.6	29.3	26.6	26.6	74.6	153.3	121.3	168.0	111.9	107.9
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)