

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: P507757

Luminaire Tested: **VERD-S-CA1-80-760-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-760-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1500mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10720 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

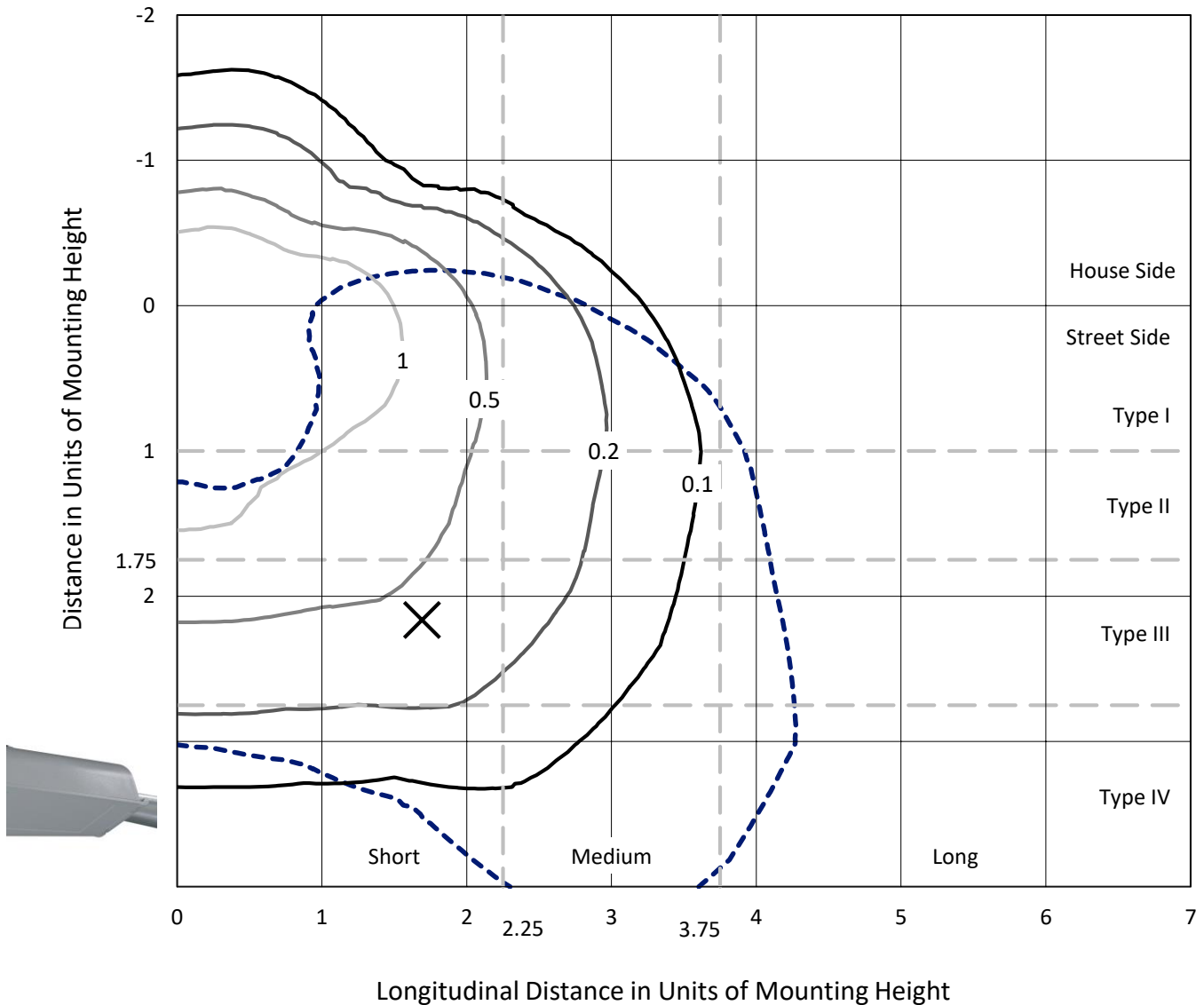
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

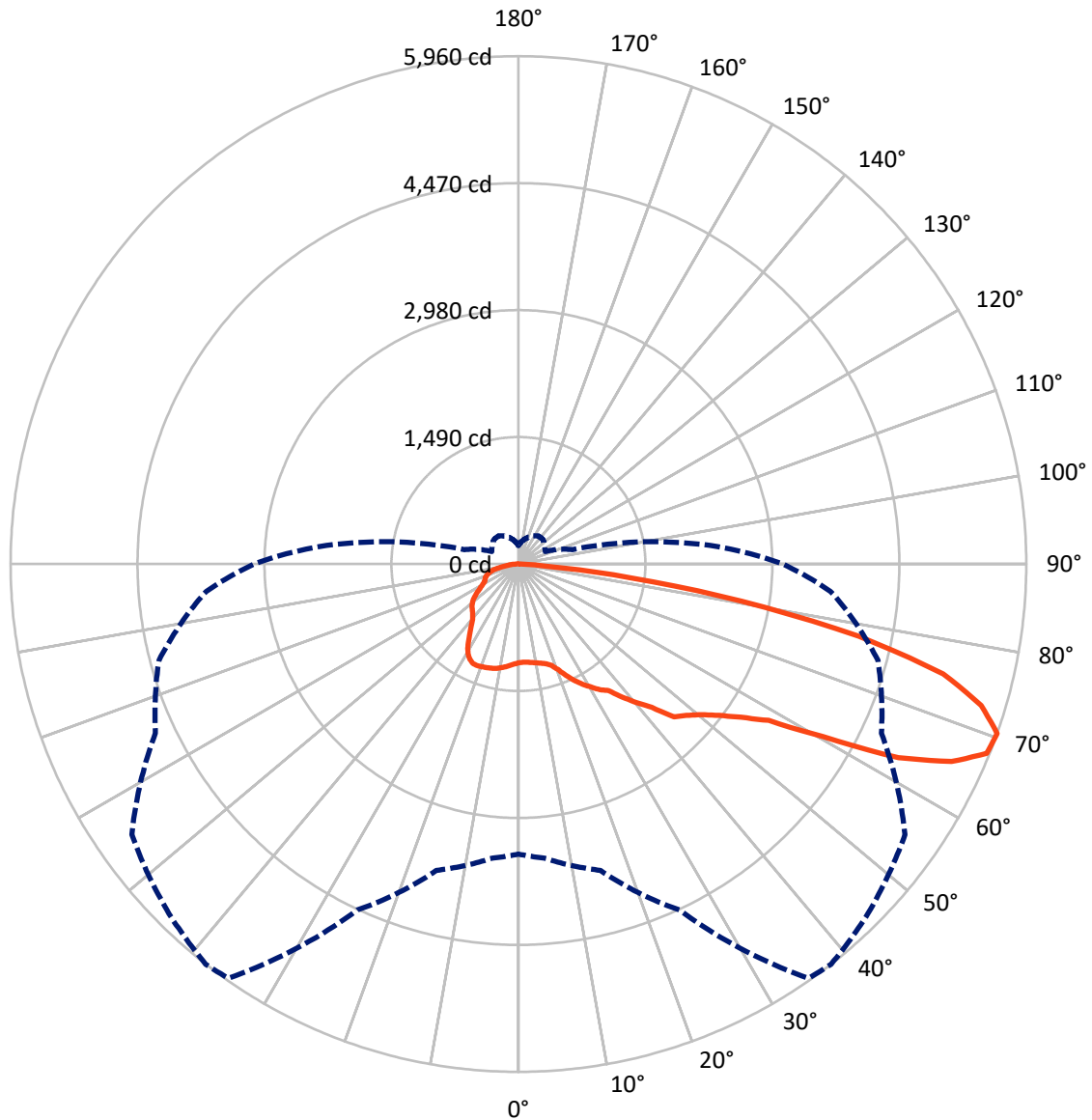
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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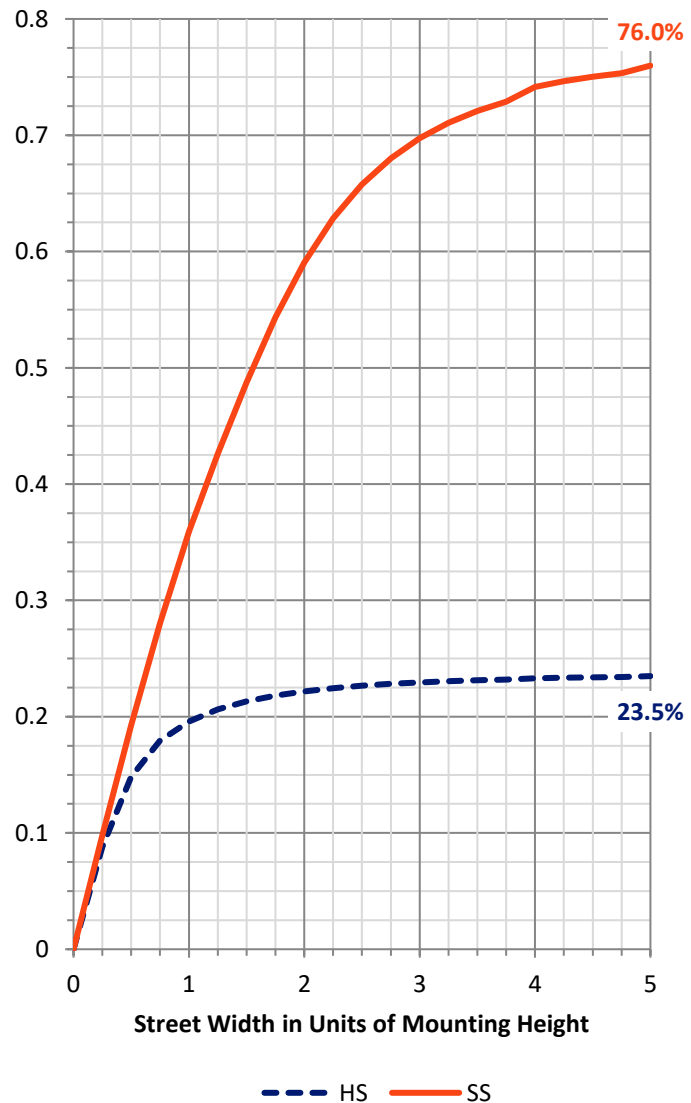
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2546.1	0.0	2546.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	8173.9	0.0	8173.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	10720.0	0.0	10720.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	1.1
10°-20°	355.9	3.3
20°-30°	660.4	6.2
30°-40°	1022.4	9.5
40°-50°	1514.9	14.1
50°-60°	2110.9	19.7
60°-70°	2710.8	25.3
70°-80°	1983.3	18.5
80°-90°	248.4	2.3
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°	10720.0	100.0
0°-180°	10720.0	100.0



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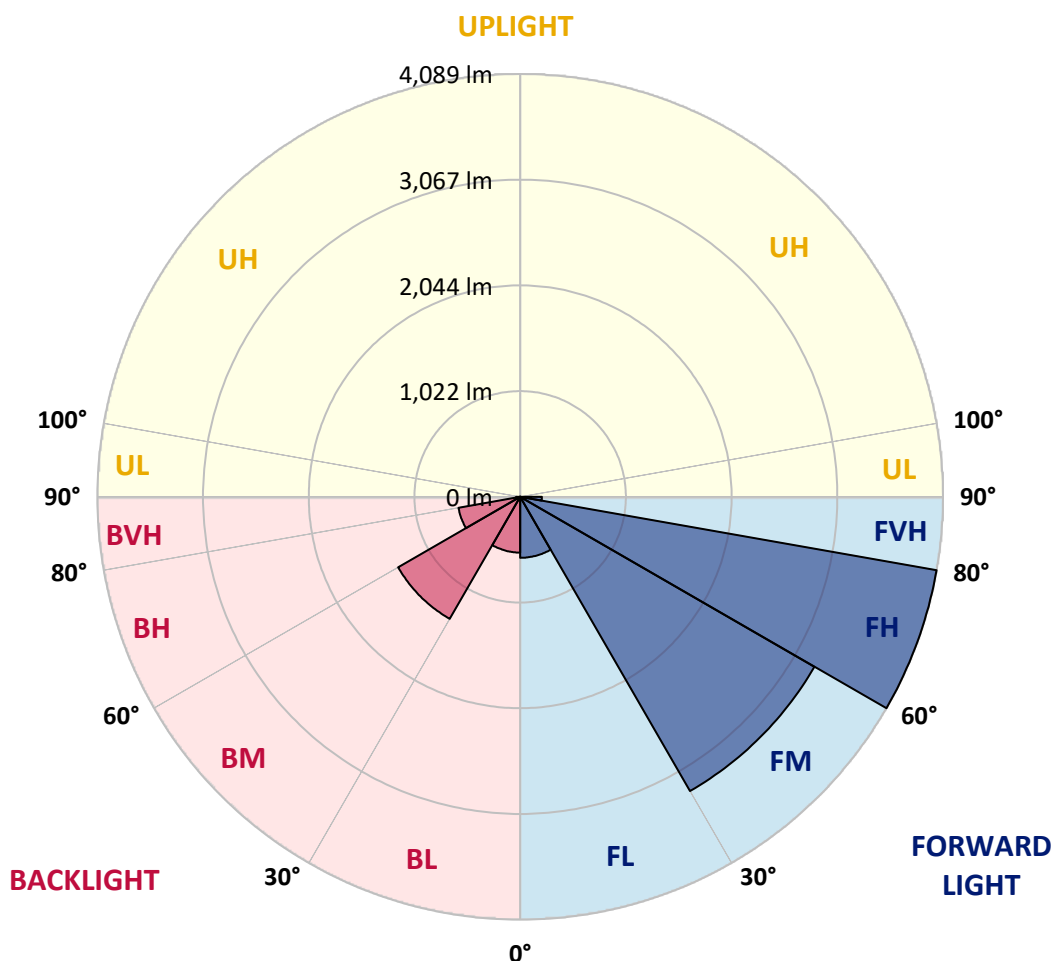
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.9	5.5			
FM	(30°-60°)	3285.4	30.6			
FH	(60°-80°)	4088.7	38.1			G2/5000
FVH	(80°-90°)	209.9	2.0			G2/225
BL	(0°-30°)	539.4	5.0	B2/1000		
BM	(30°-60°)	1362.8	12.7	B2/2500		
BH	(60°-80°)	605.4	5.6	B2/1000		G2/1000
BVH	(80°-90°)	38.5	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3
2.5°	1155.3	1155.3	1155.3	1152.2	1152.2	1152.2	1149.2	1149.2	1152.2	1155.3	1155.3
5°	1164.5	1164.5	1161.4	1161.4	1158.3	1158.3	1158.3	1155.3	1155.3	1155.3	1161.4
7.5°	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1170.6	1167.5	1167.5	1167.5	1173.6
10°	1167.5	1167.5	1170.6	1170.6	1176.7	1179.7	1182.8	1188.9	1188.9	1188.9	1192.0
12.5°	1173.6	1173.6	1176.7	1179.7	1188.9	1195.0	1201.1	1210.3	1213.4	1213.4	1216.4
15°	1185.8	1185.8	1188.9	1198.1	1210.3	1213.4	1222.5	1234.7	1247.0	1250.0	1253.1
17.5°	1234.7	1234.7	1234.7	1234.7	1247.0	1250.0	1262.3	1280.6	1292.8	1298.9	1308.1
20°	1332.5	1335.6	1329.5	1326.4	1320.3	1320.3	1320.3	1329.5	1344.8	1366.2	1381.4
22.5°	1457.9	1457.9	1457.9	1433.4	1418.1	1415.1	1415.1	1412.0	1424.2	1445.6	1467.0
25°	1555.7	1558.7	1555.7	1534.3	1515.9	1509.8	1509.8	1519.0	1519.0	1537.3	1561.8
27.5°	1635.1	1641.2	1632.1	1613.7	1598.4	1595.4	1598.4	1626.0	1641.2	1653.5	1684.0
30°	1720.7	1723.8	1702.4	1690.1	1681.0	1674.9	1677.9	1717.6	1769.6	1784.9	1836.8
32.5°	1879.6	1879.6	1849.1	1778.8	1754.3	1757.4	1757.4	1809.3	1879.6	1949.9	2017.2
35°	2029.4	2026.3	1998.8	1937.7	1846.0	1824.6	1836.8	1891.8	2001.9	2121.1	2240.3
37.5°	2206.6	2200.5	2176.1	2090.5	2014.1	1980.5	1913.2	1986.6	2121.1	2356.4	2478.7
40°	2405.3	2396.1	2341.1	2255.5	2154.7	2139.4	2081.3	2093.6	2270.8	2604.0	2744.6
42.5°	2515.3	2509.2	2472.5	2402.3	2328.9	2298.3	2249.4	2234.2	2472.5	2924.9	2995.2
45°	2619.2	2631.5	2631.5	2597.9	2567.3	2561.2	2527.6	2539.8	2732.3	3187.7	3215.2
47.5°	2683.4	2695.7	2655.9	2649.8	2649.8	2652.9	2686.5	2769.0	2967.7	3435.3	3407.8
50°	2876.0	2866.8	2707.9	2732.3	2759.8	2778.2	2851.5	2982.9	3294.7	3658.4	3575.9
52.5°	3224.4	3141.9	2952.4	2897.4	2912.7	2949.3	3047.1	3218.3	3627.8	3857.1	3722.6
55°	3655.3	3606.4	3435.3	3190.8	3111.3	3172.4	3276.4	3450.6	3884.6	4043.5	3838.7
57.5°	3945.7	3964.0	3985.4	3817.3	3447.5	3462.8	3533.1	3679.8	4141.3	4223.8	3930.4
60°	4239.1	4260.5	4379.7	4336.9	4251.3	4110.7	3854.0	3924.3	4333.8	4343.0	3997.6
62.5°	4471.4	4486.6	4663.9	4761.7	4984.8	5003.2	4602.8	4233.0	4535.5	4437.7	4025.1
65°	4355.2	4382.7	4648.6	4920.6	5535.0	5586.9	5455.5	4630.3	4691.4	4474.4	4003.8
67.5°	3964.0	4003.8	4284.9	4862.6	5886.4	5926.2	5797.8	5379.1	4746.4	4459.1	3899.8
70°	3404.7	3462.8	3722.6	4480.5	5935.3	5959.8	5800.9	5538.0	4700.6	4367.5	3676.7
72.5°	2769.0	2814.9	3077.7	3841.8	5638.9	5678.6	5629.7	5406.6	4602.8	4190.2	3227.5
75°	2121.1	2124.1	2402.3	3010.5	4990.9	5149.9	5232.4	5152.9	4336.9	3685.9	2484.8
77.5°	1338.7	1378.4	1662.6	2280.0	3921.2	4083.2	4119.9	4022.1	3034.9	2261.7	1069.7
80°	602.1	663.2	953.6	1540.4	2668.2	2662.0	2683.4	2442.0	1616.8	718.2	119.2
82.5°	217.0	229.2	400.4	773.2	1292.8	1326.4	1311.2	1127.8	437.1	100.9	73.4
85°	91.7	97.8	131.4	207.8	293.4	311.7	269.0	204.8	70.3	58.1	48.9
87.5°	6.1	6.1	6.1	6.1	6.1	9.2	9.2	9.2	9.2	12.2	15.3
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°	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3
2.5°	1155.3	1158.3	1161.4	1167.5	1167.5	1170.6	1173.6	1176.7	1176.7	1176.7	1176.7
5°	1164.5	1167.5	1170.6	1179.7	1185.8	1188.9	1195.0	1198.1	1201.1	1201.1	1201.1
7.5°	1176.7	1179.7	1185.8	1195.0	1204.2	1210.3	1216.4	1219.5	1222.5	1222.5	1222.5
10°	1195.0	1201.1	1210.3	1222.5	1231.7	1231.7	1234.7	1237.8	1240.9	1240.9	1240.9
12.5°	1219.5	1225.6	1240.9	1256.1	1259.2	1256.1	1250.0	1250.0	1247.0	1243.9	1243.9
15°	1259.2	1262.3	1283.6	1295.9	1286.7	1271.4	1259.2	1247.0	1237.8	1231.7	1231.7
17.5°	1314.2	1323.4	1344.8	1344.8	1320.3	1292.8	1262.3	1231.7	1207.2	1198.1	1195.0
20°	1393.7	1405.9	1424.2	1405.9	1366.2	1317.3	1262.3	1213.4	1164.5	1133.9	1124.7
22.5°	1482.3	1497.6	1503.7	1464.0	1405.9	1338.7	1265.3	1188.9	1109.4	1042.2	1023.9
25°	1586.2	1595.4	1574.0	1509.8	1430.3	1344.8	1256.1	1155.3	1033.0	944.4	935.2
27.5°	1708.5	1699.3	1641.2	1543.4	1436.5	1332.5	1222.5	1088.0	935.2	868.0	858.8
30°	1839.9	1806.3	1699.3	1561.8	1418.1	1295.9	1164.5	987.2	861.9	806.9	800.8
32.5°	1995.8	1928.5	1754.3	1564.8	1384.5	1231.7	1069.7	904.7	813.0	751.8	745.7
35°	2170.0	2066.1	1803.2	1546.5	1317.3	1143.1	956.6	843.5	761.0	702.9	690.7
37.5°	2405.3	2252.5	1864.3	1506.8	1231.7	1030.0	874.1	779.4	709.1	644.9	635.7
40°	2646.8	2466.4	1949.9	1460.9	1136.9	938.3	803.8	733.5	672.4	599.0	583.8
42.5°	2888.2	2680.4	2066.1	1405.9	1042.2	868.0	773.2	727.4	654.0	577.6	562.4
45°	3086.9	2863.8	2176.1	1341.7	947.5	803.8	754.9	715.2	641.8	559.3	541.0
47.5°	3258.0	3016.6	2270.8	1283.6	855.8	754.9	739.6	693.8	623.5	541.0	522.6
50°	3401.7	3138.8	2347.2	1234.7	779.4	721.3	709.1	654.0	580.7	510.4	498.2
52.5°	3527.0	3227.5	2380.9	1219.5	702.9	681.6	660.2	605.1	537.9	473.7	455.4
55°	3609.5	3294.7	2374.7	1219.5	629.6	626.5	602.1	559.3	510.4	458.4	440.1
57.5°	3673.7	3325.3	2328.9	1042.2	568.5	556.2	541.0	522.6	492.1	434.0	415.7
60°	3704.2	3306.9	2231.1	758.0	507.3	486.0	498.2	492.1	461.5	382.0	369.8
62.5°	3685.9	3251.9	2011.0	553.2	443.2	440.1	458.4	446.2	388.2	317.9	311.7
65°	3615.6	3114.4	1729.9	415.7	406.5	427.9	437.1	412.6	357.6	293.4	269.0
67.5°	3435.3	2848.5	1259.2	372.9	394.3	418.7	424.8	391.2	336.2	275.1	244.5
70°	3102.1	2347.2	654.0	345.4	375.9	406.5	403.4	360.6	305.6	250.6	213.9
72.5°	2515.3	1665.7	247.6	308.7	348.4	379.0	372.9	324.0	217.0	155.9	140.6
75°	1632.1	797.7	213.9	265.9	311.7	339.2	342.3	293.4	189.5	131.4	113.1
77.5°	559.3	146.7	174.2	220.1	269.0	305.6	296.5	235.3	146.7	97.8	88.6
80°	94.7	97.8	134.5	155.9	186.4	244.5	207.8	168.1	116.1	70.3	58.1
82.5°	67.2	82.5	94.7	91.7	128.4	162.0	140.6	113.1	76.4	55.0	48.9
85°	48.9	55.0	52.0	55.0	73.4	107.0	97.8	79.5	55.0	39.7	33.6
87.5°	18.3	18.3	24.5	30.6	45.8	67.2	58.1	24.5	21.4	18.3	18.3
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)