

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: P507756

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

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)  
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-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9666 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

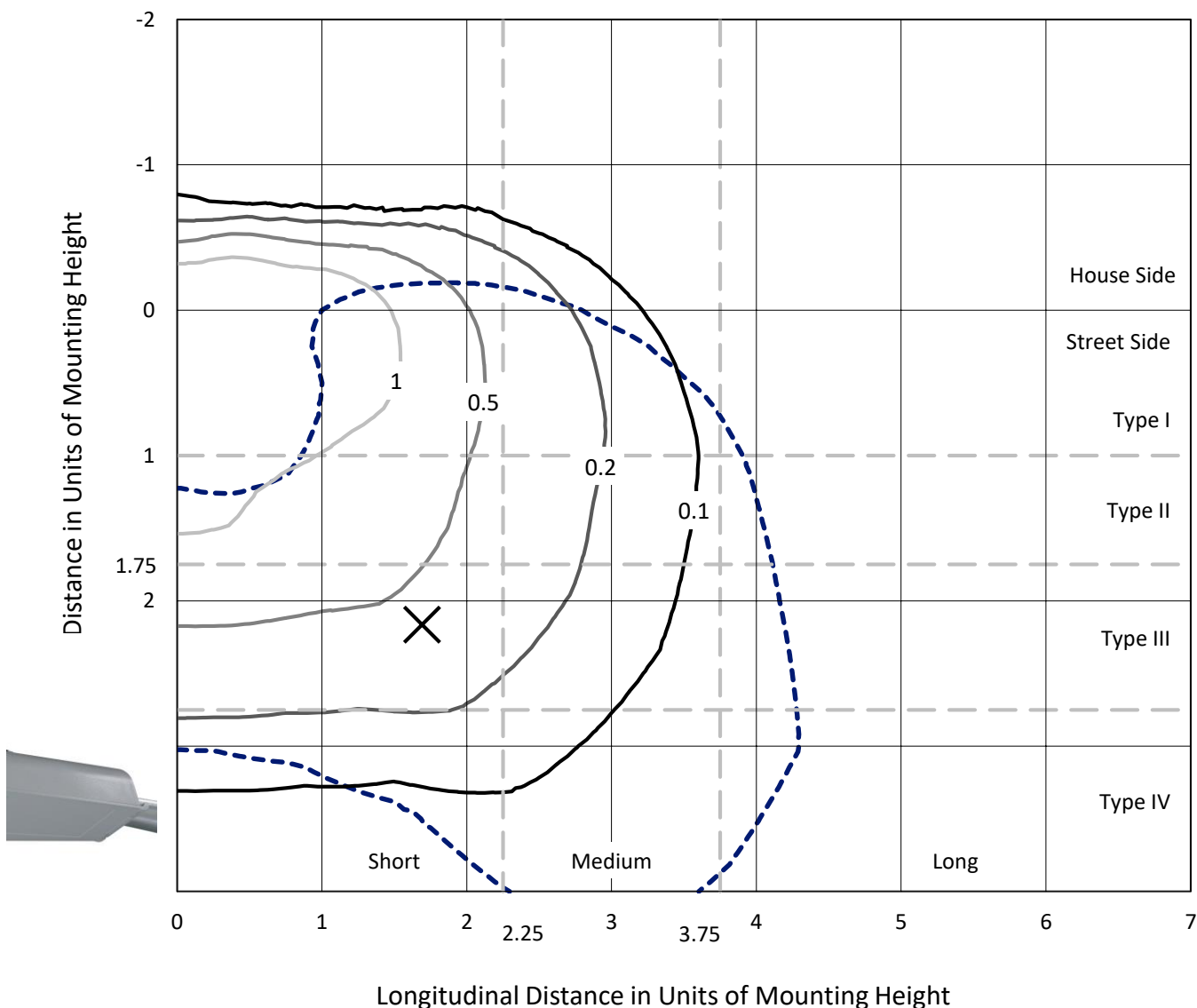
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

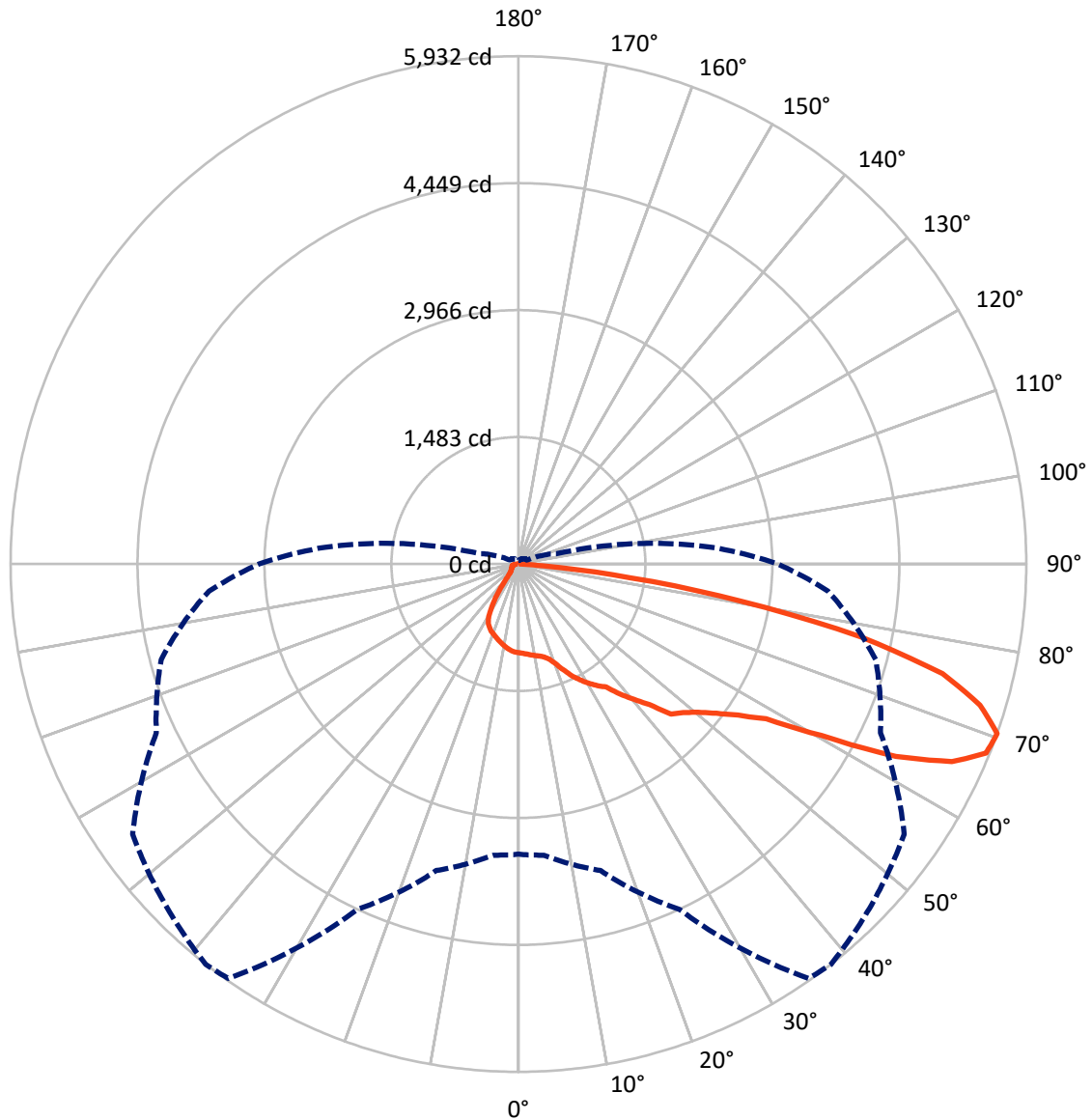
✕ Max cd  
 - - - 1/2 Max cd



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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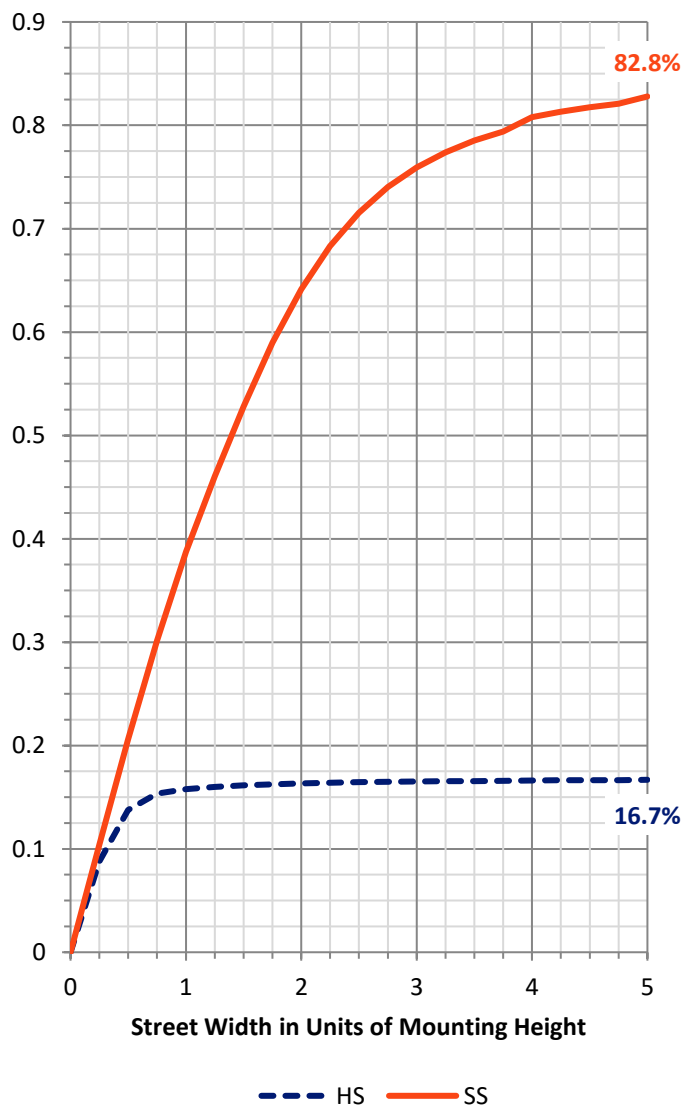
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1635.3	0.0	1635.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	8030.7	0.0	8030.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	9666.0	0.0	9666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	300.2	3.1
20°-30°	552.6	5.7
30°-40°	865.2	9.0
40°-50°	1314.3	13.6
50°-60°	1889.8	19.6
60°-70°	2538.8	26.3
70°-80°	1881.0	19.5
80°-90°	225.0	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°	9666.0	100.0
0°-180°	9666.0	100.0

**Coefficient of Utilization**



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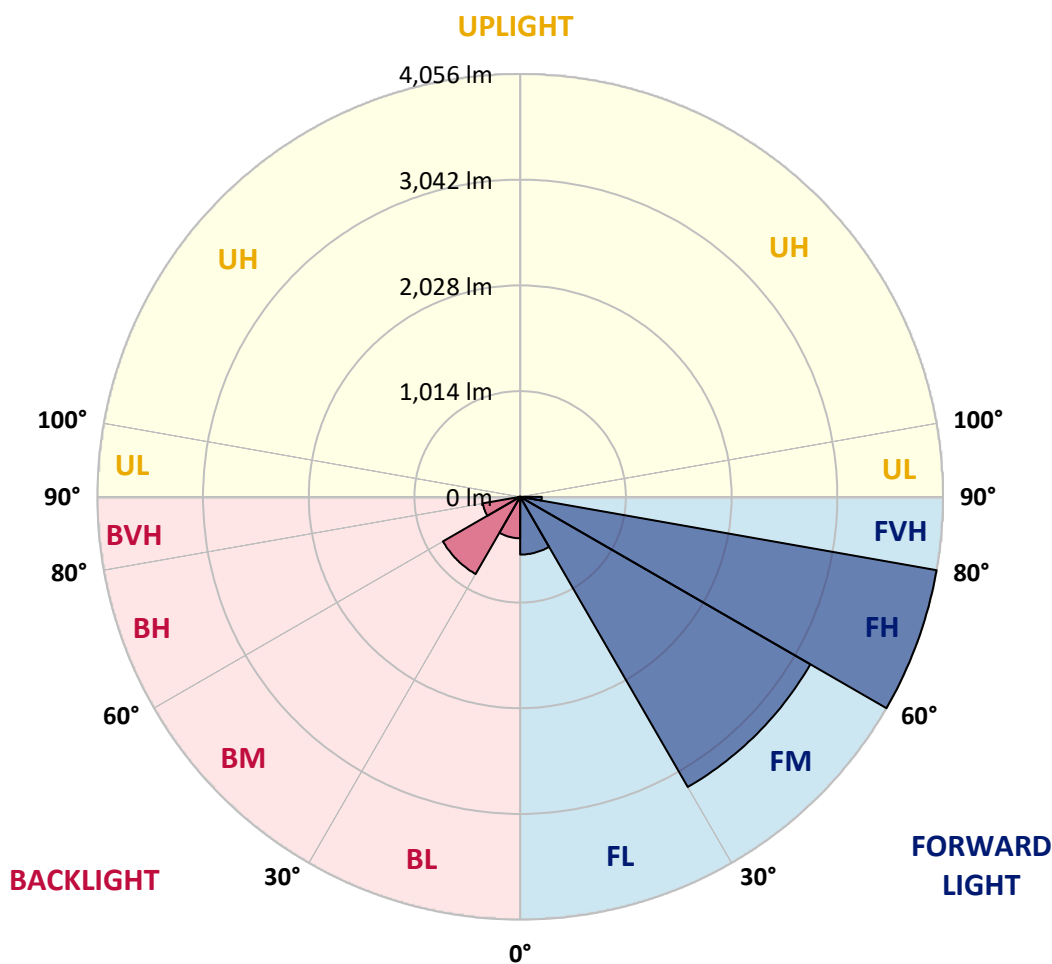
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.2	5.7			
FM (30°-60°)	3213.9	33.2			
FH (60°-80°)	4055.8	42.0			G2/5000
FVH (80°-90°)	206.9	2.1			G2/225
BL (0°-30°)	397.7	4.1	B1/500		
BM (30°-60°)	855.4	8.8	B1/1000		
BH (60°-80°)	364.1	3.8	B1/500		G1/500
BVH (80°-90°)	18.0	0.2			G1/100
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°	35°	38°	45°	55°	65°	75°	85°
0°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1051.3	1051.3	1051.3	1048.3	1048.3	1045.2	1045.2	1042.2	1042.2	1039.1	1036.0
5°	1066.6	1066.6	1063.6	1060.5	1057.4	1057.4	1057.4	1054.4	1048.3	1048.3	1042.2
7.5°	1072.7	1072.7	1072.7	1072.7	1072.7	1072.7	1072.7	1069.7	1066.6	1063.6	1057.4
10°	1075.8	1075.8	1078.8	1078.8	1084.9	1088.0	1088.0	1091.1	1088.0	1081.9	1075.8
12.5°	1084.9	1088.0	1088.0	1091.1	1100.2	1103.3	1106.3	1115.5	1115.5	1109.4	1103.3
15°	1103.3	1103.3	1106.3	1112.5	1124.7	1127.7	1136.9	1146.1	1152.2	1146.1	1140.0
17.5°	1158.3	1158.3	1158.3	1158.3	1164.4	1167.5	1179.7	1195.0	1201.1	1201.1	1198.0
20°	1268.3	1268.3	1262.2	1250.0	1243.9	1243.9	1240.8	1246.9	1259.2	1268.3	1271.4
22.5°	1393.6	1390.6	1387.5	1369.2	1347.8	1341.7	1335.6	1329.4	1335.6	1350.8	1356.9
25°	1491.4	1494.5	1491.4	1467.0	1448.6	1445.6	1436.4	1439.5	1439.5	1442.5	1451.7
27.5°	1570.9	1577.0	1564.8	1552.5	1540.3	1531.2	1537.3	1546.4	1561.7	1555.6	1573.9
30°	1659.5	1656.5	1644.2	1629.0	1619.8	1616.7	1613.7	1647.3	1690.1	1708.4	1729.8
32.5°	1818.4	1815.4	1790.9	1714.5	1693.1	1693.1	1699.2	1742.0	1809.3	1867.3	1922.3
35°	1965.1	1965.1	1934.6	1882.6	1790.9	1763.4	1778.7	1830.7	1928.5	2044.6	2133.2
37.5°	2139.3	2142.4	2108.8	2029.3	1956.0	1928.5	1855.1	1928.5	2047.6	2270.8	2380.8
40°	2341.0	2334.9	2279.9	2194.3	2099.6	2078.2	2017.1	2032.4	2200.5	2536.6	2643.6
42.5°	2454.1	2448.0	2411.3	2344.1	2267.7	2243.2	2188.2	2173.0	2405.2	2830.0	2900.3
45°	2564.1	2570.3	2567.2	2533.6	2515.2	2500.0	2469.4	2472.5	2658.9	3120.4	3123.4
47.5°	2628.3	2640.6	2591.7	2588.6	2591.7	2591.7	2634.4	2720.0	2900.3	3367.9	3319.0
50°	2817.8	2805.6	2655.8	2661.9	2701.7	2720.0	2799.5	2924.8	3236.5	3581.9	3487.1
52.5°	3199.8	3114.3	2924.8	2833.1	2848.4	2894.2	2989.0	3169.3	3572.7	3792.7	3636.9
55°	3627.7	3591.0	3395.4	3160.1	3056.2	3114.3	3215.1	3404.6	3838.6	3973.1	3762.2
57.5°	3924.2	3939.4	3945.5	3756.1	3392.4	3410.7	3474.9	3639.9	4077.0	4156.4	3856.9
60°	4211.4	4232.8	4349.0	4321.5	4202.3	4067.8	3817.2	3872.2	4281.7	4287.8	3930.3
62.5°	4440.6	4452.9	4639.3	4724.9	4938.8	4948.0	4541.5	4193.1	4489.5	4382.6	3957.8
65°	4324.5	4358.1	4630.1	4889.9	5498.1	5565.3	5406.4	4602.6	4648.5	4425.4	3939.4
67.5°	3933.3	3988.3	4245.1	4841.0	5846.5	5892.3	5751.8	5345.3	4706.5	4410.1	3838.6
70°	3389.3	3413.8	3707.2	4449.8	5910.7	5932.1	5757.9	5501.1	4666.8	4321.5	3627.7
72.5°	2756.7	2784.2	3037.9	3826.4	5620.3	5638.7	5592.8	5378.9	4572.1	4156.4	3199.8
75°	2069.0	2111.8	2353.3	2989.0	4963.3	5119.1	5213.9	5122.2	4309.2	3609.4	2435.8
77.5°	1366.1	1369.2	1613.7	2258.5	3933.3	4089.2	4104.5	4028.1	3059.2	2264.6	1081.9
80°	586.8	641.8	944.4	1515.9	2613.0	2640.6	2671.1	2469.4	1567.8	699.9	119.2
82.5°	195.6	217.0	397.3	800.7	1286.7	1317.2	1262.2	1094.1	440.1	94.7	67.2
85°	82.5	91.7	122.2	220.0	311.7	284.2	265.9	217.0	61.1	55.0	42.8
87.5°	3.1	3.1	3.1	3.1	6.1	3.1	6.1	6.1	9.2	9.2	12.2
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°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1036.0	1036.0	1036.0	1033.0	1033.0	1029.9	1029.9	1026.9	1026.9	1026.9	1026.9
5°	1042.2	1042.2	1036.0	1033.0	1026.9	1020.8	1014.7	1008.5	1002.4	1002.4	1002.4
7.5°	1054.4	1051.3	1042.2	1029.9	1017.7	1002.4	993.3	981.0	974.9	968.8	971.9
10°	1072.7	1066.6	1054.4	1036.0	1011.6	987.2	965.8	947.4	938.3	929.1	926.0
12.5°	1097.2	1091.1	1072.7	1045.2	1008.5	971.9	938.3	910.7	892.4	883.2	880.2
15°	1133.8	1124.7	1100.2	1060.5	1008.5	953.5	907.7	868.0	837.4	819.1	819.1
17.5°	1191.9	1182.7	1149.1	1094.1	1020.8	944.4	874.1	806.8	767.1	745.7	742.7
20°	1268.3	1256.1	1216.4	1136.9	1042.2	941.3	837.4	751.8	684.6	647.9	644.9
22.5°	1356.9	1347.8	1286.7	1182.7	1063.6	935.2	809.9	696.8	602.1	534.8	519.6
25°	1460.9	1445.6	1353.9	1219.4	1069.7	919.9	770.2	638.7	507.3	424.8	409.5
27.5°	1583.1	1549.5	1415.0	1246.9	1066.6	889.4	724.3	556.2	385.1	324.0	314.8
30°	1714.5	1656.5	1476.1	1265.3	1048.3	840.5	644.9	415.6	278.1	241.4	232.3
32.5°	1864.3	1772.6	1531.2	1268.3	1008.5	773.2	510.4	284.2	198.7	177.3	174.2
35°	2044.6	1919.3	1589.2	1256.1	950.5	663.2	354.5	192.5	146.7	140.6	140.6
37.5°	2279.9	2105.7	1653.4	1219.4	861.8	513.4	235.3	131.4	128.4	131.4	131.4
40°	2527.5	2319.7	1732.9	1164.4	748.8	369.8	149.8	122.2	122.2	125.3	125.3
42.5°	2762.8	2524.4	1833.7	1091.1	620.4	238.4	122.2	116.1	113.1	116.1	119.2
45°	2961.5	2717.0	1931.5	1011.6	473.7	152.8	119.2	110.0	103.9	107.0	107.0
47.5°	3138.7	2863.7	1986.5	916.9	333.1	119.2	119.2	100.9	94.7	94.7	97.8
50°	3288.5	2979.8	2017.1	806.8	210.9	116.1	107.0	94.7	88.6	88.6	85.6
52.5°	3413.8	3065.4	2014.0	684.6	137.5	113.1	100.9	88.6	79.5	82.5	82.5
55°	3508.5	3132.6	1968.2	525.7	116.1	107.0	97.8	82.5	76.4	82.5	82.5
57.5°	3581.9	3163.2	1882.6	366.7	113.1	97.8	91.7	76.4	70.3	73.3	73.3
60°	3618.5	3147.9	1748.1	229.2	110.0	94.7	85.6	70.3	64.2	61.1	64.2
62.5°	3606.3	3092.9	1555.6	152.8	103.9	88.6	79.5	67.2	58.1	52.0	52.0
65°	3533.0	2970.6	1326.4	128.4	100.9	88.6	76.4	64.2	52.0	48.9	48.9
67.5°	3367.9	2717.0	984.1	119.2	100.9	85.6	73.3	61.1	52.0	45.8	45.8
70°	3028.7	2261.6	473.7	110.0	100.9	88.6	73.3	58.1	48.9	42.8	42.8
72.5°	2451.1	1598.4	122.2	94.7	97.8	88.6	76.4	58.1	45.8	39.7	39.7
75°	1598.4	767.1	103.9	76.4	88.6	82.5	73.3	58.1	45.8	36.7	36.7
77.5°	519.6	107.0	94.7	67.2	79.5	79.5	73.3	58.1	45.8	33.6	33.6
80°	82.5	76.4	82.5	52.0	58.1	67.2	58.1	55.0	42.8	30.6	30.6
82.5°	58.1	70.3	61.1	42.8	52.0	55.0	45.8	36.7	30.6	27.5	27.5
85°	42.8	45.8	36.7	33.6	39.7	45.8	36.7	27.5	24.4	24.4	24.4
87.5°	15.3	18.3	18.3	24.4	30.6	33.6	21.4	15.3	18.3	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)