

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: P507754

Luminaire Tested: **VERD-S-CA1-80-760-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
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-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1500mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10066 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

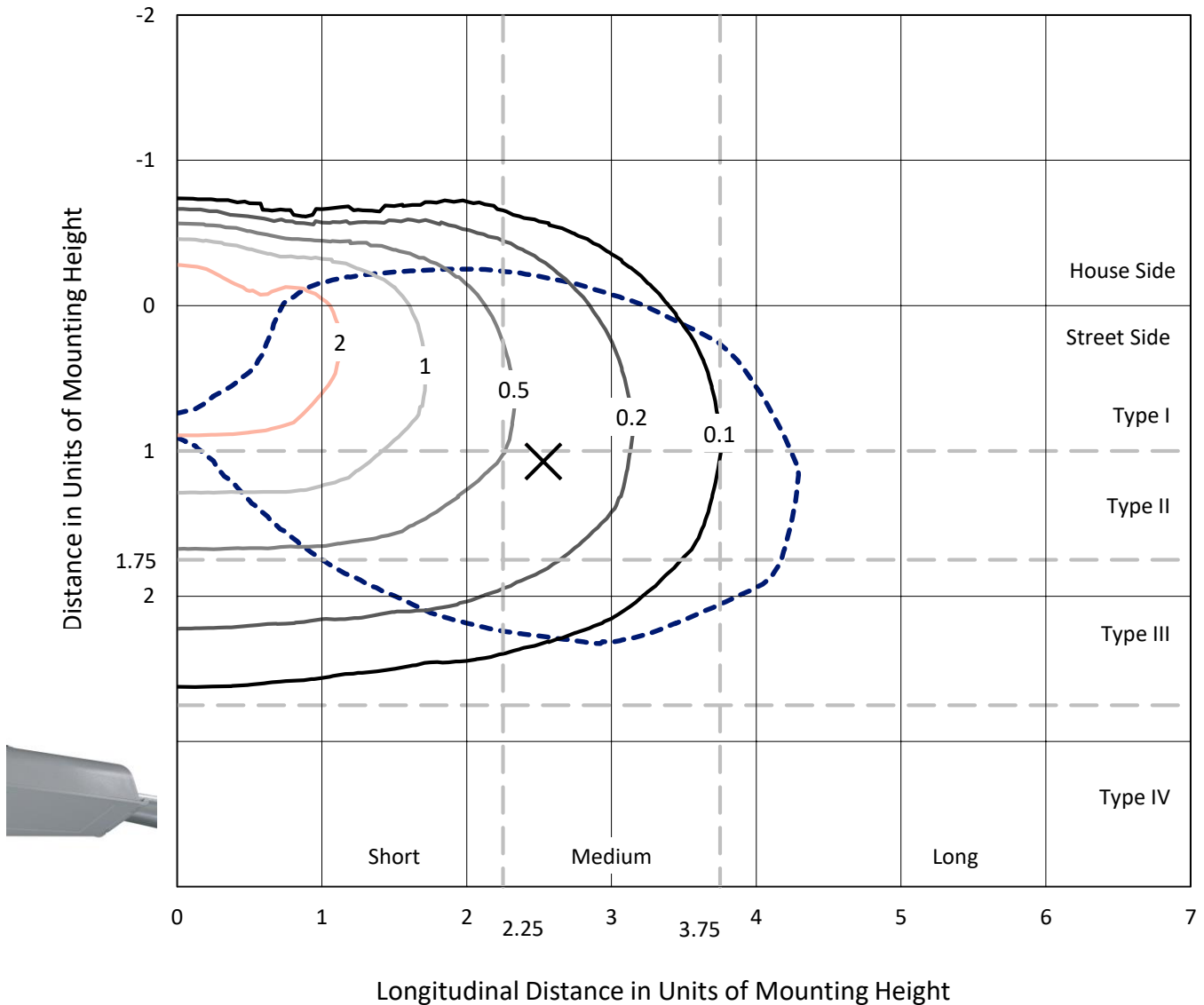
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

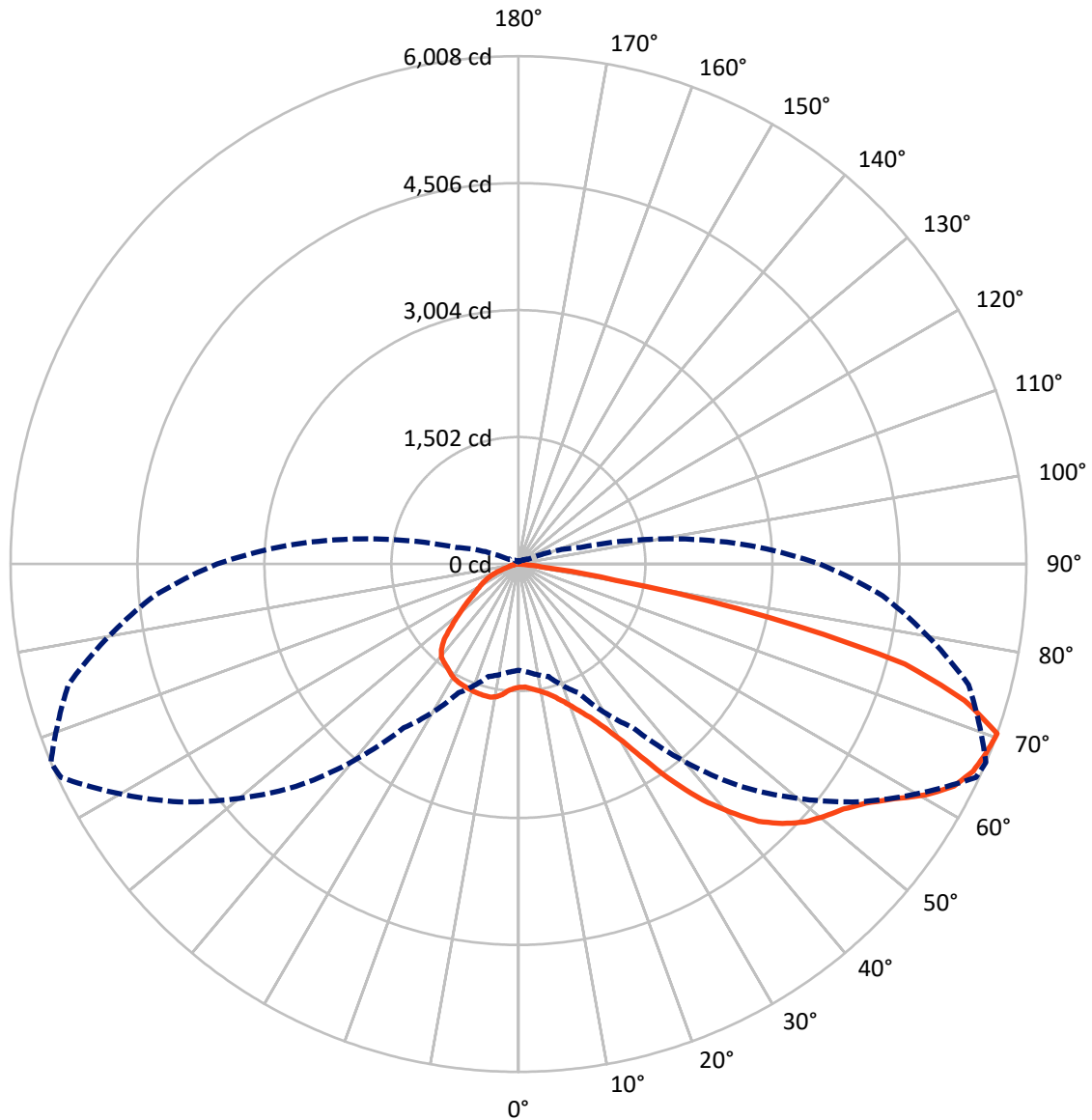
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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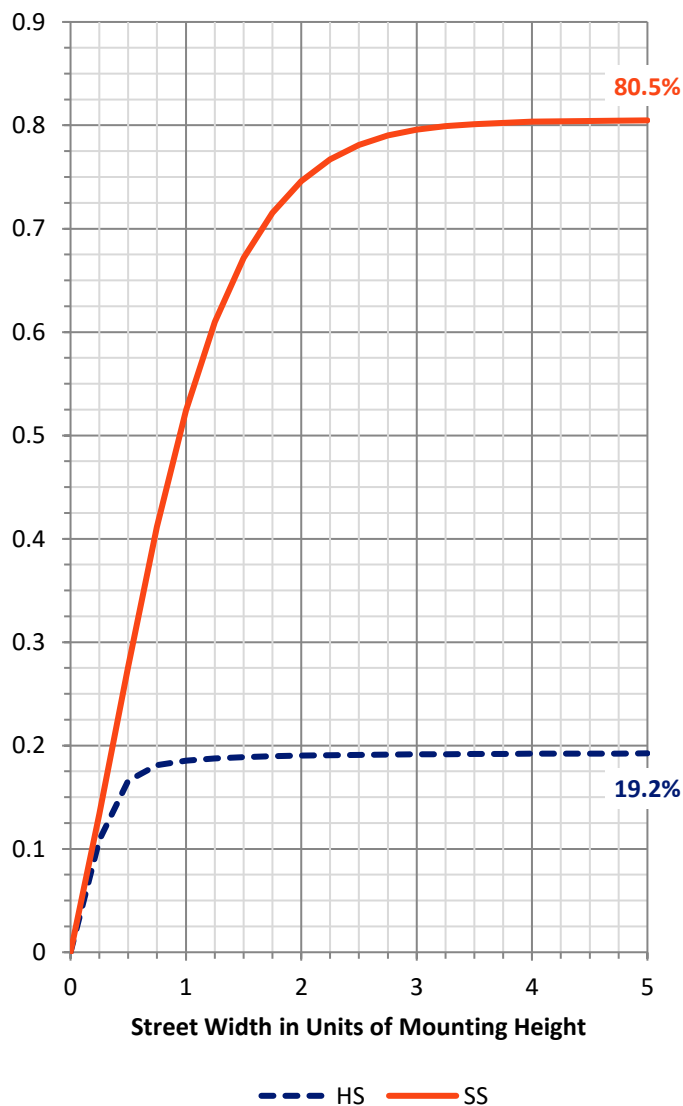
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1961.7	0.0	1961.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8104.3	0.0	8104.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10066.0	0.0	10066.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	1.5
10°-20°	464.7	4.6
20°-30°	807.5	8.0
30°-40°	1264.5	12.6
40°-50°	1779.2	17.7
50°-60°	2122.0	21.1
60°-70°	2198.9	21.8
70°-80°	1213.4	12.1
80°-90°	69.1	0.7
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°	10066.0	100.0
0°-180°	10066.0	100.0

**Coefficient of Utilization**



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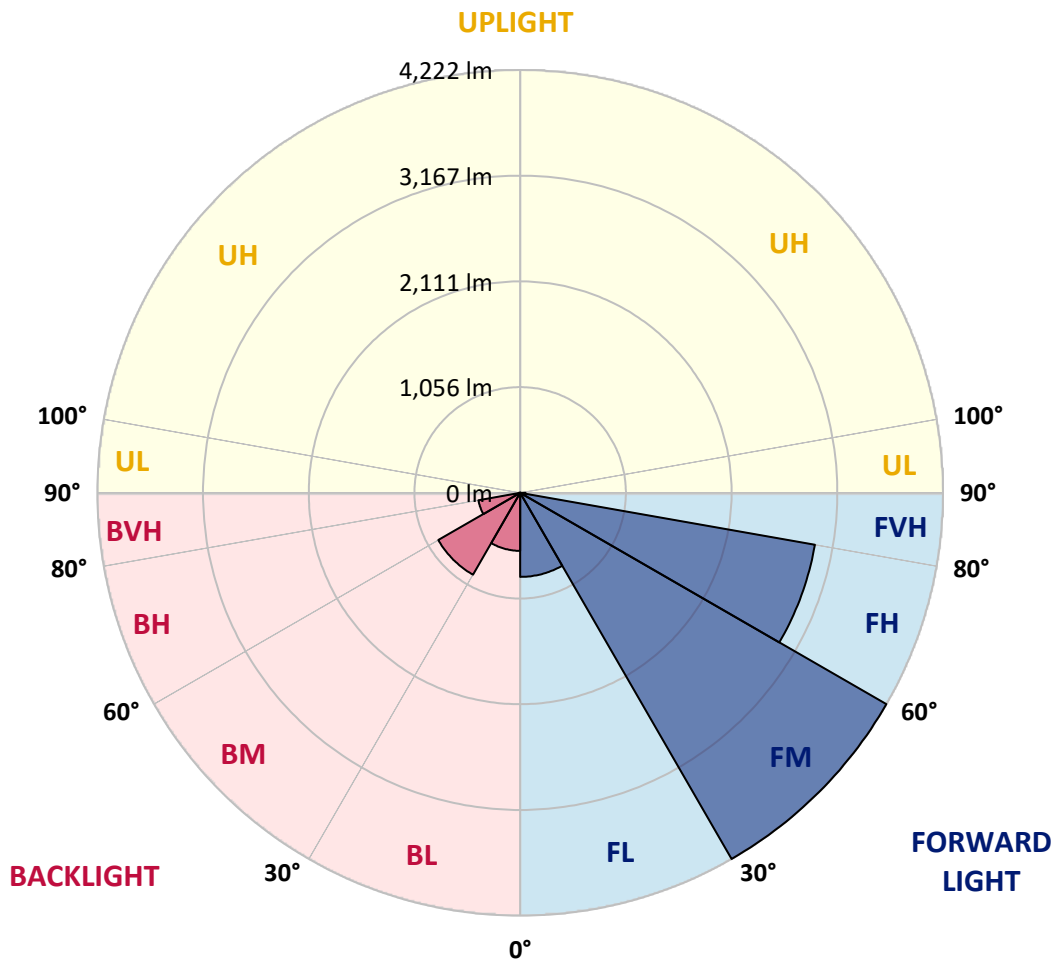
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.7	8.3			
FM	(30°-60°)	4222.2	41.9			
FH	(60°-80°)	2988.8	29.7			G2/5000
FVH	(80°-90°)	53.7	0.5			G1/100
BL	(0°-30°)	579.2	5.8	B2/1000		
BM	(30°-60°)	943.6	9.4	B1/1000		
BH	(60°-80°)	423.5	4.2	B1/500		G1/500
BVH	(80°-90°)	15.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1466.9	1466.9	1466.9	1463.8	1463.8	1463.8	1460.8	1457.7	1457.7	1457.7	1460.8
5°	1506.6	1506.6	1503.6	1500.5	1497.5	1488.3	1482.2	1479.1	1479.1	1476.1	1482.2
7.5°	1555.5	1555.5	1555.5	1549.4	1540.2	1528.0	1515.8	1506.6	1503.6	1500.5	1503.6
10°	1628.9	1628.9	1622.8	1613.6	1598.3	1580.0	1558.6	1540.2	1537.2	1531.1	1537.2
12.5°	1723.6	1714.4	1708.3	1693.0	1674.7	1644.1	1610.5	1583.0	1576.9	1570.8	1592.2
15°	1821.4	1818.3	1803.1	1793.9	1763.3	1723.6	1677.8	1641.1	1635.0	1622.8	1641.1
17.5°	1937.5	1940.6	1934.5	1919.2	1876.4	1818.3	1763.3	1711.4	1705.3	1696.1	1705.3
20°	2096.4	2090.3	2078.1	2056.7	2007.8	1931.4	1861.1	1803.1	1793.9	1787.8	1778.6
22.5°	2255.4	2258.4	2234.0	2212.6	2151.5	2078.1	1983.4	1913.1	1900.9	1897.8	1855.0
25°	2408.2	2414.3	2405.1	2377.6	2325.6	2230.9	2127.0	2041.4	2026.2	2023.1	1949.8
27.5°	2567.1	2570.1	2579.3	2567.1	2512.1	2414.3	2298.1	2200.3	2200.3	2175.9	2065.9
30°	2719.9	2726.0	2732.1	2732.1	2704.6	2619.0	2518.2	2432.6	2432.6	2414.3	2224.8
32.5°	2839.1	2842.1	2878.8	2909.3	2909.3	2848.2	2781.0	2771.8	2768.8	2802.4	2588.5
35°	2946.0	2955.2	3007.1	3089.7	3123.3	3098.8	3101.9	3135.5	3169.1	3251.6	3089.7
37.5°	3025.5	3037.7	3086.6	3181.3	3276.1	3340.2	3401.4	3493.1	3545.0	3670.3	3447.2
40°	3046.9	3062.1	3166.1	3300.5	3453.3	3600.0	3710.0	3823.1	3856.7	3945.3	3664.2
42.5°	2979.6	2994.9	3126.3	3398.3	3612.2	3841.4	3960.6	4104.3	4162.3	4128.7	3844.5
45°	2933.8	2943.0	3080.5	3389.1	3749.8	4076.8	4192.9	4342.6	4379.3	4299.8	3994.2
47.5°	2875.7	2884.9	3028.5	3376.9	3862.8	4278.5	4357.9	4522.9	4559.6	4437.4	4122.6
50°	2790.2	2796.3	2961.3	3352.5	3936.2	4422.1	4510.7	4675.7	4691.0	4565.7	4244.8
52.5°	2686.3	2704.6	2863.5	3294.4	3988.1	4510.7	4617.7	4794.9	4816.3	4730.7	4379.3
55°	2545.7	2567.1	2750.4	3208.8	3969.8	4541.3	4666.6	4953.8	4990.5	4920.2	4492.4
57.5°	2402.0	2432.6	2612.9	3089.7	3896.4	4587.1	4828.5	5189.2	5238.0	5106.6	4584.1
60°	2255.4	2267.6	2454.0	2927.7	3774.2	4633.0	5011.9	5497.8	5543.7	5290.0	4657.4
62.5°	2087.3	2102.6	2267.6	2704.6	3563.3	4590.2	5149.4	5757.6	5785.1	5442.8	4688.0
65°	1891.7	1891.7	2032.3	2432.6	3279.1	4437.4	5167.8	5892.0	5910.4	5540.6	4651.3
67.5°	1619.7	1631.9	1745.0	2096.4	2897.1	4137.9	5063.9	5922.6	5968.4	5601.7	4550.4
70°	1256.0	1283.5	1378.3	1680.8	2365.4	3722.3	4908.0	5971.5	6008.2	5513.1	4324.3
72.5°	858.7	886.3	971.8	1152.1	1705.3	2985.7	4440.4	5510.0	5519.2	5082.2	3884.2
75°	226.1	250.6	317.8	461.5	715.1	2007.8	3551.1	4666.6	4721.6	4394.6	3205.8
77.5°	67.2	67.2	82.5	107.0	146.7	409.5	1806.1	2973.5	3028.5	2897.1	1998.6
80°	52.0	52.0	61.1	73.3	94.7	210.9	626.5	1097.1	1164.4	1243.8	825.1
82.5°	33.6	36.7	39.7	42.8	42.8	85.6	168.1	281.2	278.1	302.5	265.9
85°	21.4	21.4	18.3	18.3	15.3	21.4	15.3	18.3	21.4	21.4	24.4
87.5°	3.1	0.0	0.0	0.0	0.0	3.1	3.1	6.1	6.1	6.1	9.2
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°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1463.8	1466.9	1470.0	1473.0	1479.1	1479.1	1482.2	1482.2	1482.2	1482.2	1482.2
5°	1482.2	1485.2	1494.4	1503.6	1525.0	1537.2	1549.4	1558.6	1558.6	1564.7	1564.7
7.5°	1509.7	1518.9	1546.4	1558.6	1576.9	1595.3	1604.4	1607.5	1613.6	1613.6	1613.6
10°	1555.5	1564.7	1586.1	1595.3	1604.4	1604.4	1601.4	1598.3	1589.1	1586.1	1589.1
12.5°	1598.3	1610.5	1610.5	1607.5	1598.3	1586.1	1570.8	1555.5	1540.2	1528.0	1528.0
15°	1650.3	1644.1	1625.8	1601.4	1576.9	1546.4	1515.8	1488.3	1463.8	1454.7	1454.7
17.5°	1696.1	1680.8	1641.1	1595.3	1543.3	1494.4	1445.5	1399.7	1356.9	1341.6	1332.4
20°	1751.1	1723.6	1653.3	1583.0	1509.7	1433.3	1350.8	1268.3	1194.9	1164.4	1161.3
22.5°	1815.3	1769.4	1671.7	1564.7	1466.9	1350.8	1213.2	1097.1	1023.8	987.1	981.0
25°	1891.7	1824.5	1690.0	1549.4	1414.9	1243.8	1060.4	929.0	837.4	797.6	782.3
27.5°	1986.4	1897.8	1714.4	1531.1	1335.5	1112.4	904.6	751.8	650.9	602.0	595.9
30°	2108.7	1986.4	1738.9	1503.6	1237.7	959.6	736.5	565.4	464.5	415.6	403.4
32.5°	2389.8	2166.7	1769.4	1457.7	1115.5	812.9	556.2	378.9	278.1	232.3	229.2
35°	2866.6	2573.2	1839.7	1396.6	993.2	638.7	357.6	201.7	149.7	131.4	131.4
37.5°	3224.1	2912.4	2029.2	1317.2	834.3	427.8	183.4	119.2	94.7	91.7	91.7
40°	3438.0	3114.1	2237.0	1228.5	644.8	229.2	113.1	91.7	85.6	82.5	82.5
42.5°	3615.3	3282.2	2334.8	1118.5	409.5	128.4	94.7	85.6	79.5	76.4	76.4
45°	3762.0	3410.5	2347.0	977.9	229.2	107.0	88.6	76.4	73.3	70.3	70.3
47.5°	3878.1	3520.6	2316.5	779.3	143.6	100.8	82.5	70.3	64.2	64.2	64.2
50°	3988.1	3615.3	2230.9	614.3	134.5	94.7	76.4	64.2	61.1	61.1	61.1
52.5°	4089.0	3682.5	2087.3	495.1	125.3	88.6	73.3	61.1	55.0	58.1	58.1
55°	4171.5	3710.0	1940.6	382.0	119.2	85.6	70.3	58.1	52.0	52.0	52.0
57.5°	4217.3	3652.0	1818.3	290.3	116.1	82.5	67.2	55.0	45.8	42.8	42.8
60°	4220.4	3575.6	1705.3	244.5	110.0	76.4	64.2	48.9	39.7	36.7	36.7
62.5°	4165.4	3483.9	1534.1	210.9	103.9	73.3	58.1	45.8	36.7	33.6	33.6
65°	4058.4	3321.9	1344.7	180.3	100.8	73.3	52.0	42.8	36.7	30.6	30.6
67.5°	3887.3	3053.0	1091.0	158.9	94.7	67.2	52.0	39.7	33.6	30.6	30.6
70°	3563.3	2667.9	754.8	137.5	88.6	61.1	48.9	39.7	33.6	27.5	27.5
72.5°	3071.3	2166.7	372.8	113.1	76.4	61.1	48.9	36.7	30.6	27.5	27.5
75°	2374.5	1552.5	226.1	91.7	61.1	55.0	45.8	36.7	30.6	24.4	24.4
77.5°	1396.6	690.7	162.0	70.3	45.8	42.8	39.7	33.6	27.5	24.4	24.4
80°	510.4	293.4	119.2	55.0	36.7	36.7	30.6	27.5	24.4	21.4	21.4
82.5°	198.6	155.9	79.5	39.7	30.6	27.5	24.4	21.4	18.3	18.3	18.3
85°	27.5	27.5	27.5	21.4	18.3	18.3	15.3	15.3	12.2	12.2	12.2
87.5°	9.2	9.2	9.2	12.2	9.2	9.2	6.1	6.1	6.1	9.2	9.2
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)