

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: P507740

Luminaire Tested: **VERD-S-CA1-80-740-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507740  
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-CA1-80-740-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9698 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

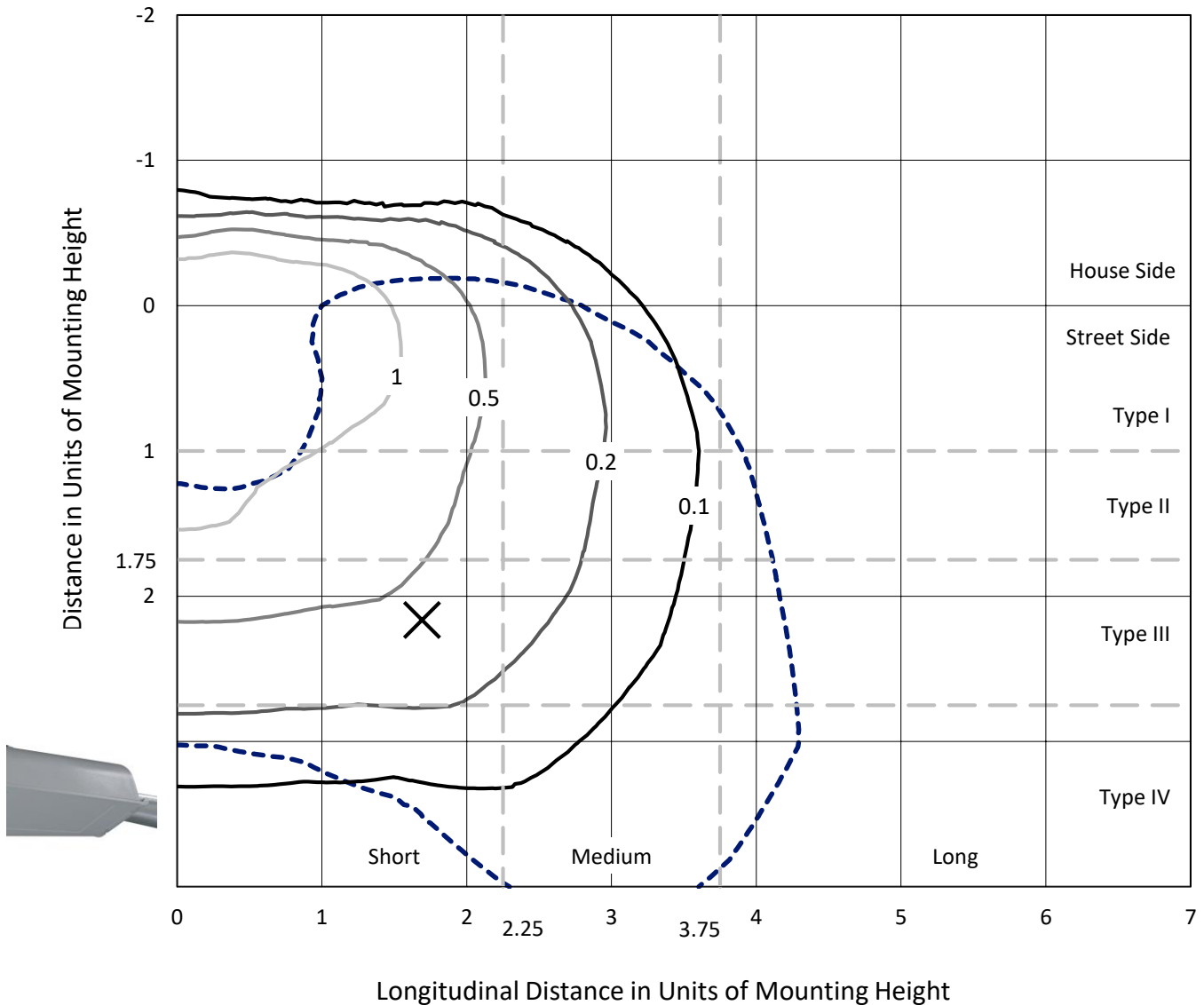
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

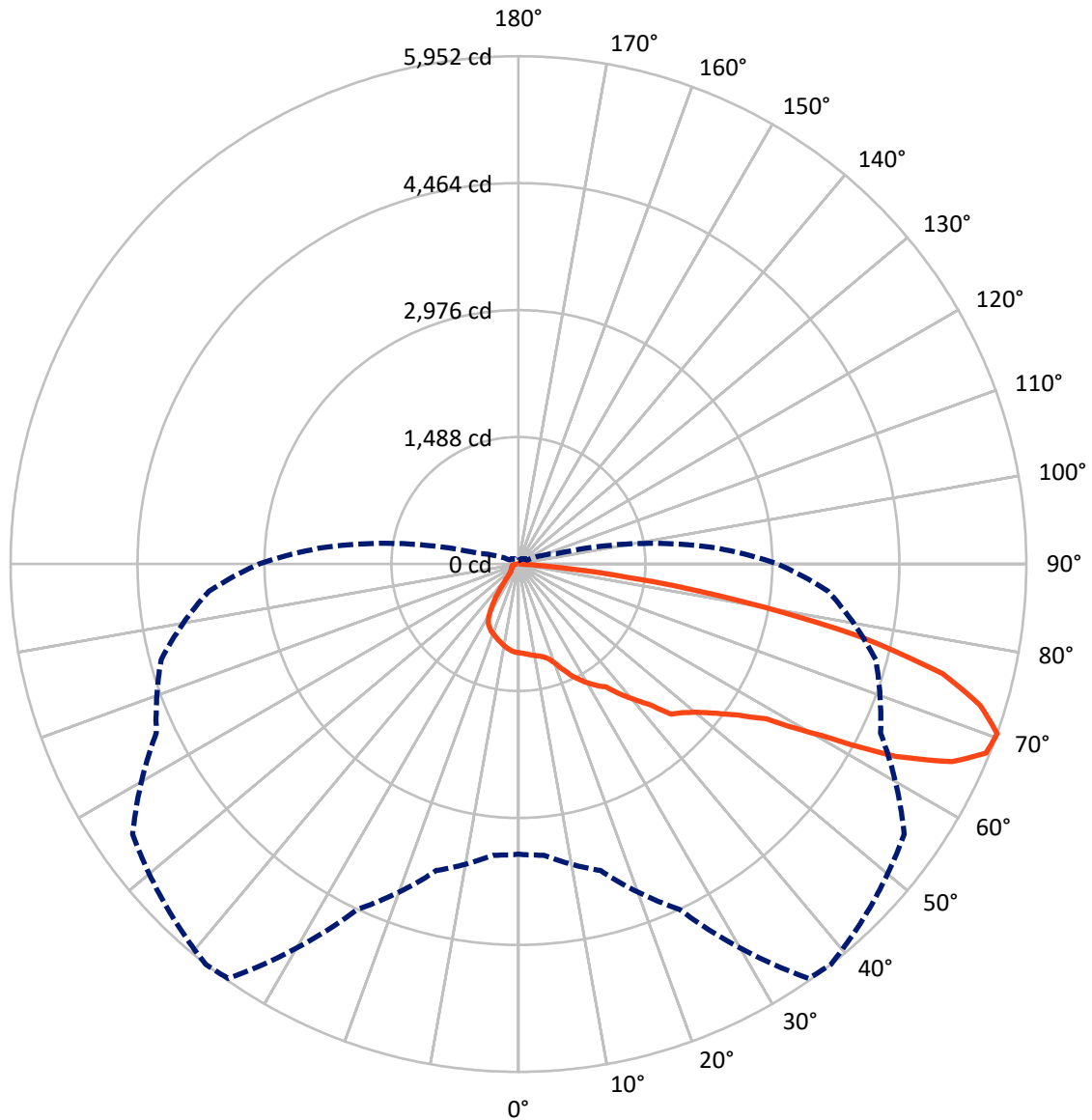
✕ Max cd  
 - - - 1/2 Max cd



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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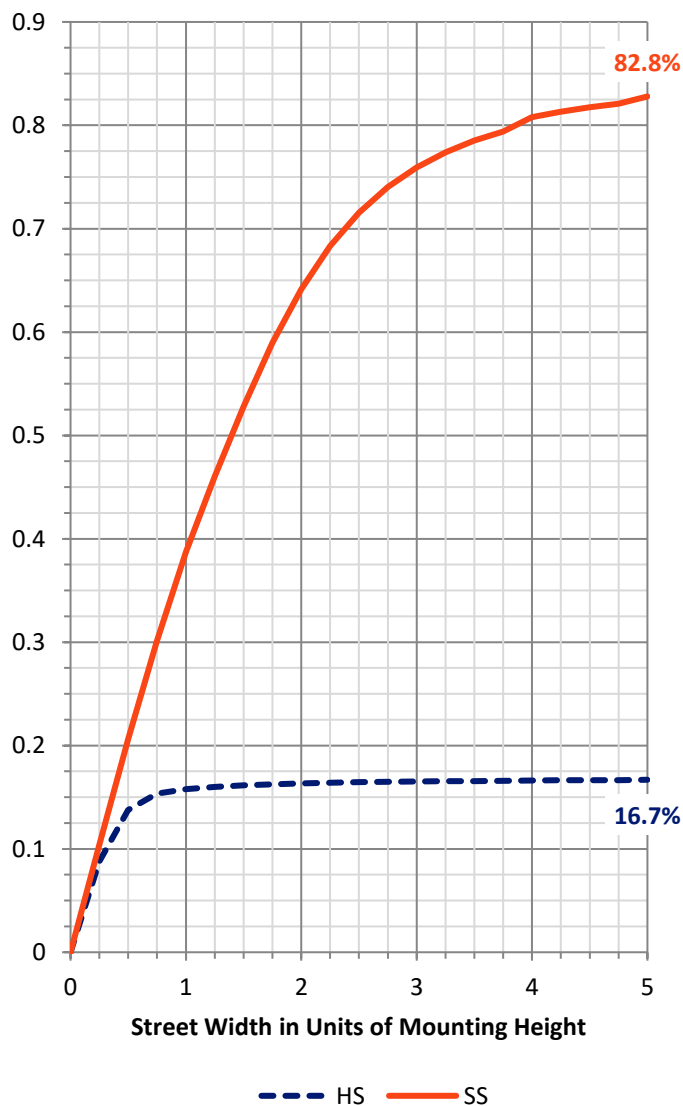
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1640.7	0.0	1640.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	8057.3	0.0	8057.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	9698.0	0.0	9698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	301.2	3.1
20°-30°	554.5	5.7
30°-40°	868.0	9.0
40°-50°	1318.7	13.6
50°-60°	1896.1	19.6
60°-70°	2547.3	26.3
70°-80°	1887.2	19.5
80°-90°	225.7	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°	9698.0	100.0
0°-180°	9698.0	100.0

**Coefficient of Utilization**



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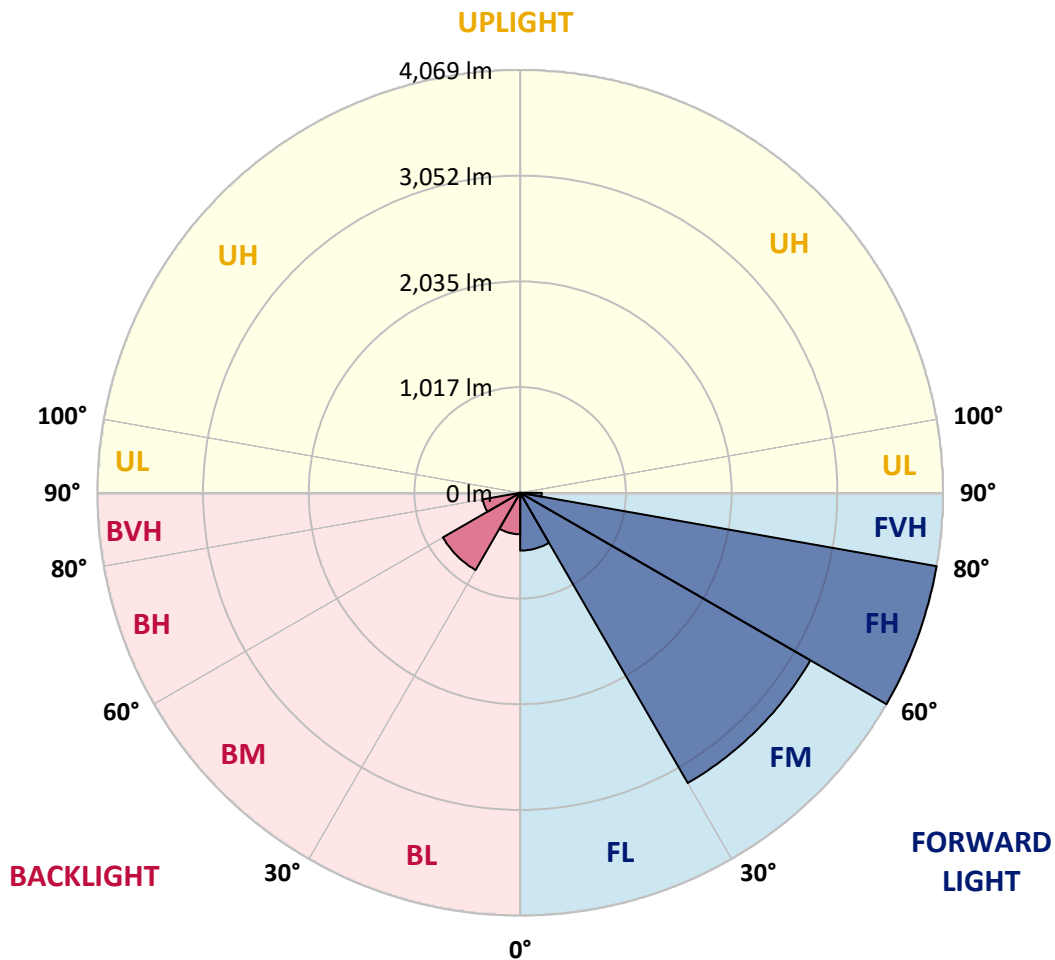
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.0	5.7			
FM	(30°-60°)	3224.5	33.2			
FH	(60°-80°)	4069.2	42.0			G2/5000
FVH	(80°-90°)	207.6	2.1			G2/225
BL	(0°-30°)	399.1	4.1	B1/500		
BM	(30°-60°)	858.3	8.8	B1/1000		
BH	(60°-80°)	365.3	3.8	B1/500		G1/500
BVH	(80°-90°)	18.1	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°	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1054.8	1054.8	1054.8	1051.7	1051.7	1048.7	1048.7	1045.6	1045.6	1042.5	1039.5
5°	1070.1	1070.1	1067.1	1064.0	1060.9	1060.9	1060.9	1057.9	1051.7	1051.7	1045.6
7.5°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1073.2	1070.1	1067.1	1060.9
10°	1079.3	1079.3	1082.4	1082.4	1088.5	1091.6	1091.6	1094.7	1091.6	1085.5	1079.3
12.5°	1088.5	1091.6	1091.6	1094.7	1103.9	1106.9	1110.0	1119.2	1119.2	1113.1	1106.9
15°	1106.9	1106.9	1110.0	1116.1	1128.4	1131.5	1140.7	1149.9	1156.0	1149.9	1143.7
17.5°	1162.1	1162.1	1162.1	1162.1	1168.3	1171.3	1183.6	1198.9	1205.1	1205.1	1202.0
20°	1272.5	1272.5	1266.4	1254.1	1248.0	1248.0	1244.9	1251.1	1263.3	1272.5	1275.6
22.5°	1398.2	1395.2	1392.1	1373.7	1352.2	1346.1	1340.0	1333.8	1340.0	1355.3	1361.4
25°	1496.4	1499.4	1496.4	1471.8	1453.4	1450.4	1441.2	1444.2	1444.2	1447.3	1456.5
27.5°	1576.1	1582.2	1570.0	1557.7	1545.4	1536.2	1542.4	1551.6	1566.9	1560.8	1579.2
30°	1665.0	1661.9	1649.7	1634.3	1625.1	1622.1	1619.0	1652.7	1695.7	1714.1	1735.5
32.5°	1824.5	1821.4	1796.9	1720.2	1698.7	1698.7	1704.9	1747.8	1815.3	1873.5	1928.7
35°	1971.6	1971.6	1941.0	1888.8	1796.9	1769.3	1784.6	1836.7	1934.8	2051.4	2140.3
37.5°	2146.4	2149.5	2115.8	2036.0	1962.4	1934.8	1861.3	1934.8	2054.4	2278.3	2388.7
40°	2348.8	2342.7	2287.5	2201.6	2106.6	2085.1	2023.8	2039.1	2207.7	2545.0	2652.4
42.5°	2462.2	2456.1	2419.3	2351.9	2275.2	2250.7	2195.5	2180.1	2413.2	2839.4	2909.9
45°	2572.6	2578.8	2575.7	2542.0	2523.6	2508.2	2477.6	2480.6	2667.7	3130.7	3133.8
47.5°	2637.0	2649.3	2600.2	2597.2	2600.2	2600.2	2643.2	2729.0	2909.9	3379.1	3330.0
50°	2827.1	2814.9	2664.6	2670.8	2710.6	2729.0	2808.7	2934.5	3247.2	3593.7	3498.7
52.5°	3210.4	3124.6	2934.5	2842.5	2857.8	2903.8	2998.9	3179.8	3584.5	3805.3	3648.9
55°	3639.7	3602.9	3406.7	3170.6	3066.3	3124.6	3225.8	3415.9	3851.3	3986.2	3774.6
57.5°	3937.1	3952.5	3958.6	3768.5	3403.6	3422.0	3486.4	3652.0	4090.5	4170.2	3869.7
60°	4225.4	4246.8	4363.4	4335.8	4216.2	4081.3	3829.8	3885.0	4295.9	4302.0	3943.3
62.5°	4455.3	4467.6	4654.7	4740.5	4955.2	4964.4	4556.5	4207.0	4504.4	4397.1	3970.9
65°	4338.8	4372.6	4645.5	4906.1	5516.3	5583.8	5424.3	4617.9	4663.9	4440.0	3952.5
67.5°	3946.3	4001.5	4259.1	4857.0	5865.9	5911.8	5770.8	5363.0	4722.1	4424.7	3851.3
70°	3400.5	3425.1	3719.4	4464.5	5930.2	5951.7	5776.9	5519.4	4682.3	4335.8	3639.7
72.5°	2765.8	2793.4	3047.9	3839.0	5638.9	5657.3	5611.3	5396.7	4587.2	4170.2	3210.4
75°	2075.9	2118.8	2361.1	2998.9	4979.7	5136.1	5231.1	5139.1	4323.5	3621.3	2443.8
77.5°	1370.6	1373.7	1619.0	2266.0	3946.3	4102.7	4118.1	4041.4	3069.4	2272.1	1085.5
80°	588.7	643.9	947.5	1520.9	2621.7	2649.3	2680.0	2477.6	1573.0	702.2	119.6
82.5°	196.2	217.7	398.6	803.4	1290.9	1321.6	1266.4	1097.7	441.5	95.1	67.5
85°	82.8	92.0	122.7	220.8	312.8	285.2	266.8	217.7	61.3	55.2	42.9
87.5°	3.1	3.1	3.1	3.1	6.1	3.1	6.1	6.1	9.2	9.2	12.3
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°	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1039.5	1039.5	1039.5	1036.4	1036.4	1033.3	1033.3	1030.3	1030.3	1030.3	1030.3
5°	1045.6	1045.6	1039.5	1036.4	1030.3	1024.1	1018.0	1011.9	1005.7	1005.7	1005.7
7.5°	1057.9	1054.8	1045.6	1033.3	1021.1	1005.7	996.6	984.3	978.2	972.0	975.1
10°	1076.3	1070.1	1057.9	1039.5	1014.9	990.4	969.0	950.6	941.4	932.2	929.1
12.5°	1100.8	1094.7	1076.3	1048.7	1011.9	975.1	941.4	913.8	895.4	886.2	883.1
15°	1137.6	1128.4	1103.9	1064.0	1011.9	956.7	910.7	870.8	840.2	821.8	821.8
17.5°	1195.9	1186.7	1152.9	1097.7	1024.1	947.5	877.0	809.5	769.6	748.2	745.1
20°	1272.5	1260.3	1220.4	1140.7	1045.6	944.4	840.2	754.3	686.9	650.1	647.0
22.5°	1361.4	1352.2	1290.9	1186.7	1067.1	938.3	812.6	699.1	604.1	536.6	521.3
25°	1465.7	1450.4	1358.4	1223.5	1073.2	923.0	772.7	640.9	509.0	426.2	410.9
27.5°	1588.3	1554.6	1419.7	1251.1	1070.1	892.3	726.7	558.1	386.4	325.0	315.8
30°	1720.2	1661.9	1481.0	1269.5	1051.7	843.2	647.0	417.0	279.0	242.2	233.0
32.5°	1870.4	1778.5	1536.2	1272.5	1011.9	775.8	512.1	285.2	199.3	177.8	174.8
35°	2051.4	1925.6	1594.5	1260.3	953.6	665.4	355.7	193.2	147.2	141.1	141.1
37.5°	2287.5	2112.7	1658.9	1223.5	864.7	515.1	236.1	131.9	128.8	131.9	131.9
40°	2535.8	2327.3	1738.6	1168.3	751.2	371.0	150.2	122.7	122.7	125.7	125.7
42.5°	2771.9	2532.8	1839.8	1094.7	622.5	239.2	122.7	116.5	113.5	116.5	119.6
45°	2971.3	2726.0	1937.9	1014.9	475.3	153.3	119.6	110.4	104.3	107.3	107.3
47.5°	3149.1	2873.1	1993.1	919.9	334.2	119.6	119.6	101.2	95.1	95.1	98.1
50°	3299.4	2989.7	2023.8	809.5	211.6	116.5	107.3	95.1	88.9	88.9	85.9
52.5°	3425.1	3075.5	2020.7	686.9	138.0	113.5	101.2	88.9	79.7	82.8	82.8
55°	3520.1	3143.0	1974.7	527.4	116.5	107.3	98.1	82.8	76.7	82.8	82.8
57.5°	3593.7	3173.6	1888.8	368.0	113.5	98.1	92.0	76.7	70.5	73.6	73.6
60°	3630.5	3158.3	1753.9	230.0	110.4	95.1	85.9	70.5	64.4	61.3	64.4
62.5°	3618.2	3103.1	1560.8	153.3	104.3	88.9	79.7	67.5	58.3	52.1	52.1
65°	3544.7	2980.5	1330.8	128.8	101.2	88.9	76.7	64.4	52.1	49.1	49.1
67.5°	3379.1	2726.0	987.4	119.6	101.2	85.9	73.6	61.3	52.1	46.0	46.0
70°	3038.7	2269.1	475.3	110.4	101.2	88.9	73.6	58.3	49.1	42.9	42.9
72.5°	2459.2	1603.7	122.7	95.1	98.1	88.9	76.7	58.3	46.0	39.9	39.9
75°	1603.7	769.6	104.3	76.7	88.9	82.8	73.6	58.3	46.0	36.8	36.8
77.5°	521.3	107.3	95.1	67.5	79.7	79.7	73.6	58.3	46.0	33.7	33.7
80°	82.8	76.7	82.8	52.1	58.3	67.5	58.3	55.2	42.9	30.7	30.7
82.5°	58.3	70.5	61.3	42.9	52.1	55.2	46.0	36.8	30.7	27.6	27.6
85°	42.9	46.0	36.8	33.7	39.9	46.0	36.8	27.6	24.5	24.5	24.5
87.5°	15.3	18.4	18.4	24.5	30.7	33.7	21.5	15.3	18.4	18.4	18.4
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)