

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: P233736

Luminaire Tested: **VERD-C02H6-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H6-D-U-T3-7030-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10427 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 98  
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: 28.75 FT

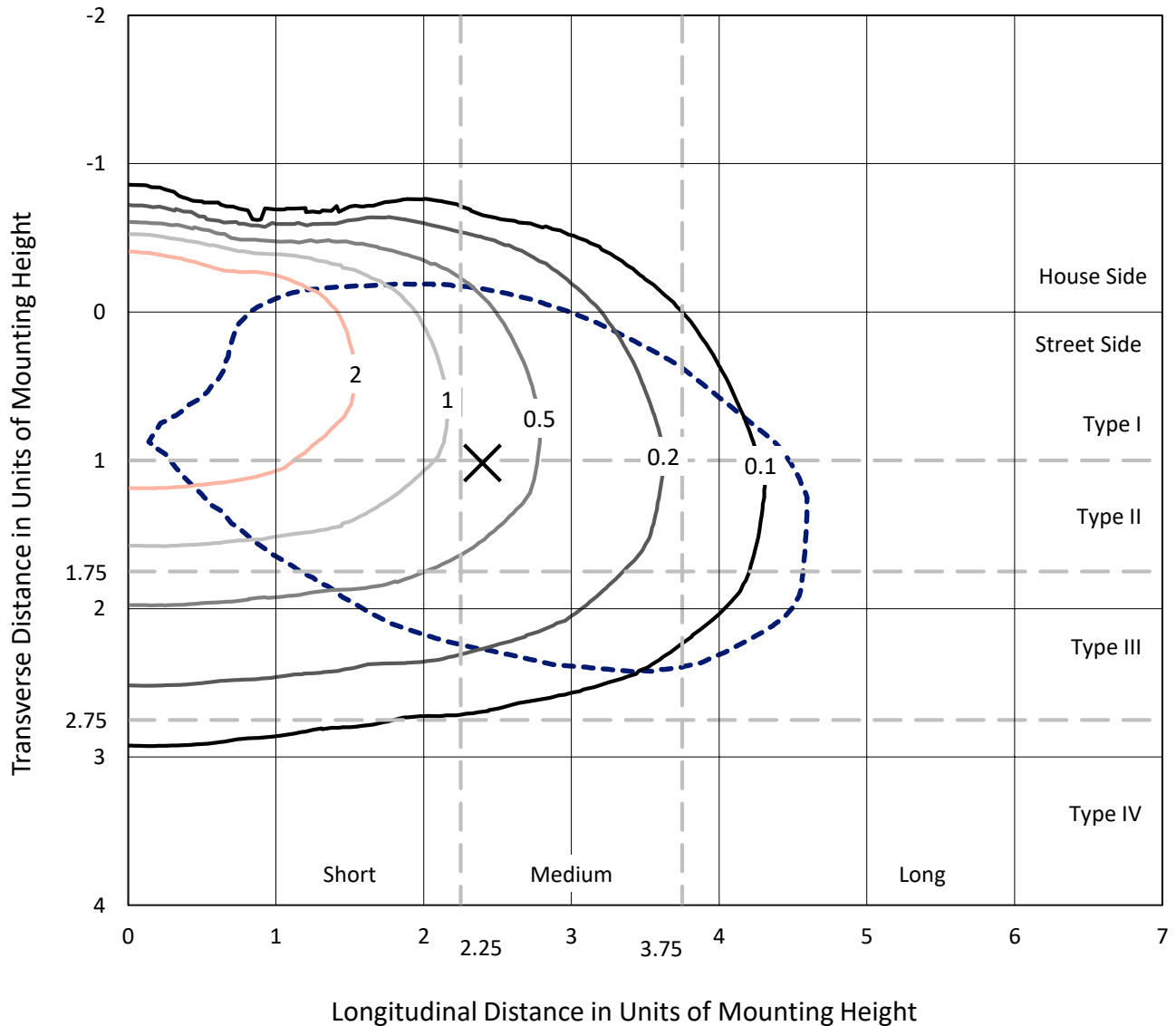


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### Iso-Footcandle Lines of Horizontal Illumination

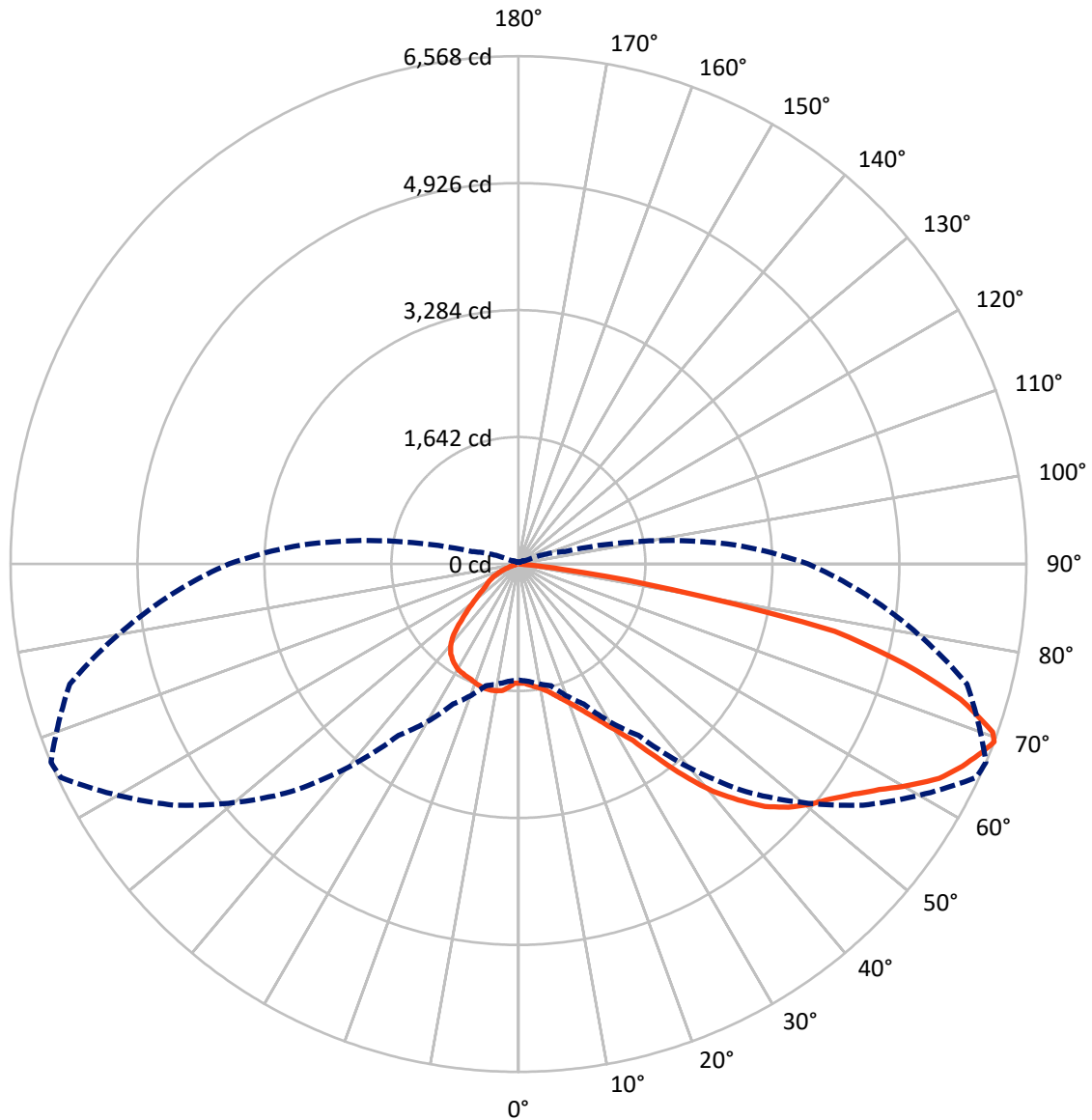
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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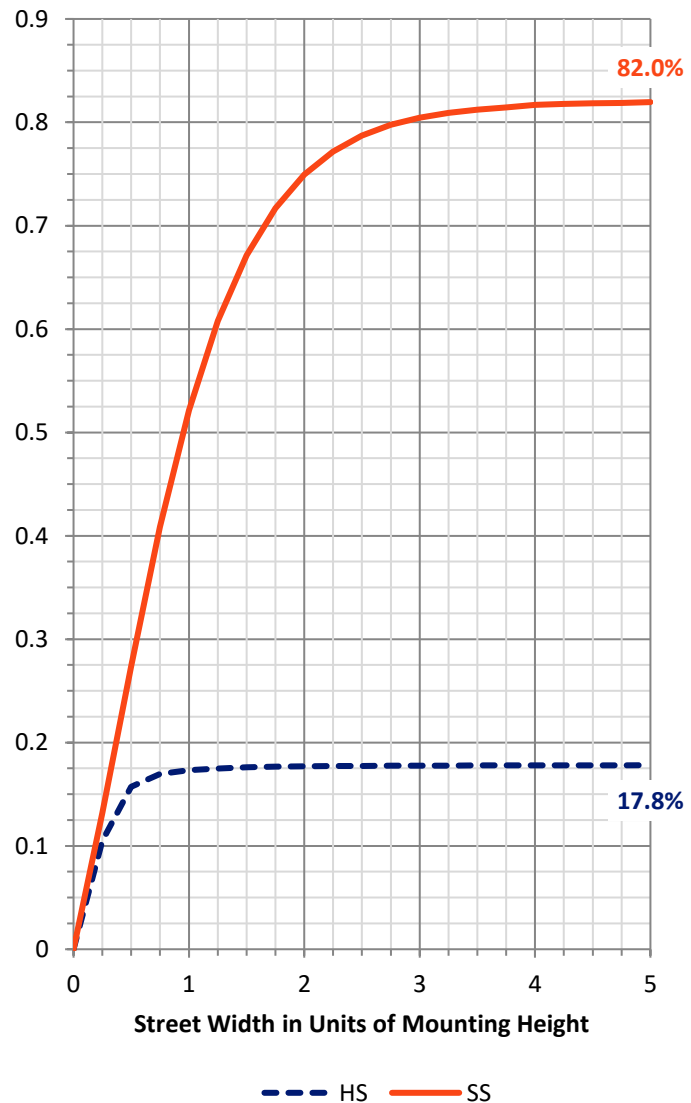
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1879.7	0.0	1879.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	8547.3	0.0	8547.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	10427.0	0.0	10427.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	1.5
10°-20°	489.5	4.7
20°-30°	835.5	8.0
30°-40°	1263.3	12.1
40°-50°	1784.7	17.1
50°-60°	2156.8	20.7
60°-70°	2275.8	21.8
70°-80°	1370.0	13.1
80°-90°	95.8	0.9
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°	10427.0	100.0
0°-180°	10427.0	100.0



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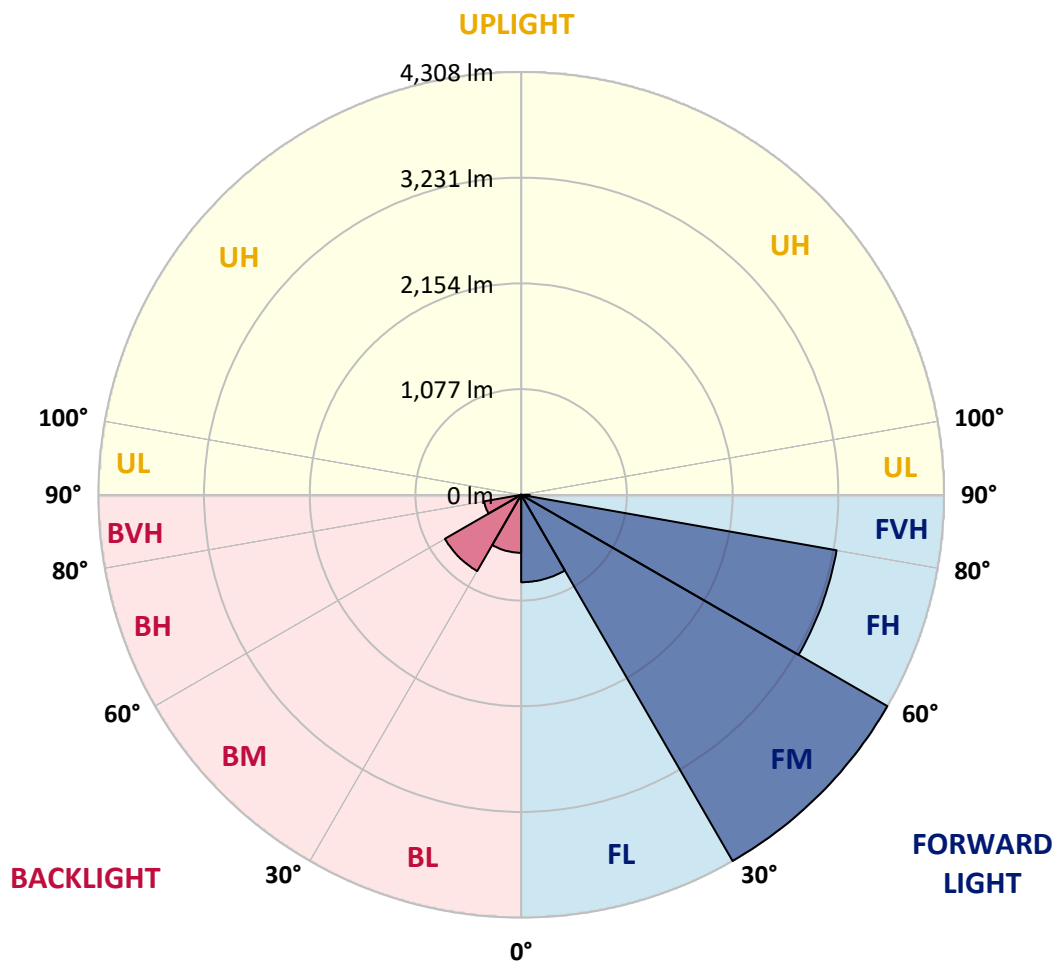
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	890.4	8.5			
FM	(30°-60°)	4307.9	41.3			
FH	(60°-80°)	3262.6	31.3			G2/5000
FVH	(80°-90°)	86.5	0.8			G1/100
BL	(0°-30°)	590.3	5.7	B2/1000		
BM	(30°-60°)	896.9	8.6	B1/1000		
BH	(60°-80°)	383.2	3.7	B1/500		G1/500
BVH	(80°-90°)	9.3	0.1			G0/10
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°	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0
2.5°	1581.9	1579.4	1579.4	1565.3	1552.0	1548.6	1547.8	1543.7	1544.5	1538.7	1532.9
5°	1627.6	1627.6	1625.9	1607.6	1593.5	1584.4	1578.6	1571.1	1571.9	1567.8	1562.8
7.5°	1696.5	1697.4	1694.0	1669.9	1655.8	1633.4	1620.1	1606.0	1605.1	1600.2	1601.8
10°	1781.3	1783.8	1778.8	1748.0	1723.9	1693.2	1665.0	1640.0	1638.4	1632.6	1637.5
12.5°	1876.8	1880.1	1867.7	1836.1	1808.7	1760.5	1726.4	1693.2	1688.2	1687.4	1690.7
15°	1986.5	1988.1	1984.0	1937.5	1904.2	1860.2	1804.5	1762.2	1757.2	1758.0	1753.9
17.5°	2108.6	2112.8	2103.6	2062.1	2018.1	1957.4	1890.9	1838.6	1836.1	1833.6	1815.3
20°	2238.2	2242.4	2236.6	2197.5	2145.2	2068.7	1987.3	1927.5	1926.7	1920.8	1878.5
22.5°	2384.4	2390.3	2386.9	2339.6	2283.9	2200.8	2099.5	2037.2	2035.5	2017.2	1953.3
25°	2543.1	2541.5	2544.8	2494.1	2441.8	2354.5	2229.1	2164.3	2164.3	2141.8	2047.1
27.5°	2696.8	2696.0	2701.8	2666.1	2611.3	2529.0	2377.8	2312.2	2318.0	2285.6	2160.1
30°	2846.4	2846.4	2860.5	2837.2	2796.5	2710.1	2562.2	2493.3	2500.8	2466.7	2303.0
32.5°	2986.0	2992.6	3016.7	3002.6	2971.8	2893.7	2767.5	2704.3	2721.8	2735.9	2568.9
35°	3089.0	3095.6	3151.3	3156.3	3148.8	3096.5	3002.6	3043.3	3064.1	3175.4	2989.3
37.5°	3179.5	3187.8	3254.3	3295.9	3319.9	3287.5	3293.4	3429.6	3468.7	3599.9	3348.2
40°	3246.0	3264.3	3329.9	3387.2	3472.0	3510.2	3604.9	3798.5	3861.6	3914.0	3594.9
42.5°	3200.3	3212.8	3328.3	3482.0	3605.7	3740.3	3894.0	4124.2	4171.5	4154.9	3812.6
45°	3133.0	3148.0	3269.3	3506.9	3712.1	3980.4	4168.2	4417.5	4471.5	4379.2	4000.4
47.5°	3057.4	3078.2	3209.4	3473.6	3801.0	4201.4	4416.6	4669.2	4700.8	4579.5	4158.2
50°	2981.0	3004.2	3152.9	3446.2	3869.9	4385.9	4597.7	4874.4	4883.5	4745.6	4300.3
52.5°	2877.9	2902.0	3064.9	3388.9	3918.1	4507.2	4756.4	5043.1	5048.9	4925.1	4434.9
55°	2747.5	2778.3	2950.2	3304.2	3929.8	4577.8	4857.0	5218.4	5257.4	5119.5	4545.4
57.5°	2593.8	2622.1	2811.5	3182.0	3871.6	4601.9	4997.4	5450.2	5504.2	5316.4	4636.8
60°	2416.8	2449.2	2639.5	3024.2	3754.5	4669.2	5230.0	5777.5	5809.9	5522.4	4717.4
62.5°	2235.7	2259.0	2431.8	2802.3	3571.7	4709.9	5436.0	6084.9	6106.5	5721.0	4765.6
65°	1978.2	2007.3	2175.9	2548.1	3308.3	4631.8	5515.0	6295.1	6308.4	5887.2	4742.3
67.5°	1698.2	1721.5	1844.4	2241.5	2962.7	4384.2	5482.6	6435.5	6477.9	6016.8	4636.8
69°	1499.6	1522.9	1629.2	1996.5	2706.0	4164.9	5436.9	6531.1	6568.4	6007.6	4502.2
70°	1345.1	1368.4	1468.9	1813.7	2504.9	3979.6	5364.6	6482.9	6507.0	5905.4	4370.9
72.5°	962.1	985.3	1067.6	1275.3	1897.6	3270.9	4916.8	5947.8	5980.2	5414.4	3906.5
75°	503.5	559.1	707.0	824.2	1124.1	2303.0	4087.6	5115.3	5162.7	4751.4	3212.8
77.5°	64.8	68.1	199.4	334.8	464.4	971.2	2903.7	4107.6	4182.3	3802.6	2221.6
80°	52.3	53.2	69.0	167.0	231.0	393.8	1030.2	1922.5	2013.1	1689.9	816.7
82.5°	36.6	38.2	54.0	88.1	75.6	143.7	358.1	543.4	560.0	484.4	325.7
85°	20.8	20.8	25.8	34.1	24.1	54.0	73.9	78.9	70.6	69.8	52.3
87.5°	5.8	6.6	7.5	5.8	2.5	2.5	3.3	3.3	3.3	2.5	2.5
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°	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0
2.5°	1542.0	1540.3	1541.2	1544.5	1549.5	1567.8	1580.2	1581.9	1587.7	1609.3	1606.8
5°	1568.6	1578.6	1584.4	1601.8	1613.4	1638.4	1653.3	1655.0	1663.3	1685.7	1686.6
7.5°	1606.0	1622.6	1630.9	1650.8	1655.0	1666.6	1670.8	1666.6	1667.4	1687.4	1689.1
10°	1638.4	1659.1	1659.1	1664.1	1656.6	1657.5	1644.2	1631.7	1625.1	1642.5	1646.7
12.5°	1688.2	1694.0	1680.7	1665.8	1643.4	1623.4	1601.0	1581.0	1565.3	1575.2	1569.4
15°	1739.7	1730.6	1698.2	1659.1	1619.3	1585.2	1538.7	1509.6	1482.2	1488.0	1483.0
17.5°	1791.2	1761.3	1710.7	1645.8	1587.7	1522.9	1458.1	1412.4	1362.5	1358.4	1350.9
20°	1841.1	1797.9	1714.0	1618.4	1537.0	1445.6	1345.1	1267.0	1193.1	1173.9	1161.5
22.5°	1900.9	1838.6	1718.1	1591.8	1482.2	1357.6	1205.5	1084.2	1004.5	977.9	965.4
25°	1977.3	1895.1	1729.8	1571.9	1426.5	1248.7	1040.2	901.4	815.0	769.3	765.2
27.5°	2067.9	1963.2	1749.7	1546.2	1347.6	1103.3	869.0	724.5	632.3	585.7	570.8
30°	2186.7	2048.0	1768.0	1526.2	1236.3	944.6	689.6	528.4	418.7	388.8	373.0
32.5°	2411.9	2185.9	1791.2	1479.7	1105.0	771.0	488.5	325.7	250.9	231.0	231.0
35°	2778.3	2489.1	1849.4	1415.7	947.1	561.6	293.3	182.8	149.5	137.9	132.1
37.5°	3108.9	2794.9	1994.8	1316.8	755.2	332.3	167.8	113.0	102.2	103.9	103.9
40°	3342.4	3004.2	2155.1	1183.1	512.6	177.8	106.3	90.6	92.2	93.1	93.1
42.5°	3542.6	3182.9	2243.2	1024.4	279.2	115.5	91.4	82.3	84.7	83.9	83.1
45°	3710.4	3328.3	2272.3	805.9	135.4	102.2	83.1	75.6	75.6	74.8	74.8
47.5°	3854.2	3457.0	2218.3	599.0	109.7	93.9	78.9	69.8	69.0	73.1	73.1
50°	3985.4	3556.7	2083.7	453.6	106.3	86.4	74.8	64.8	65.6	71.5	71.5
52.5°	4095.1	3615.7	1884.3	339.8	98.9	79.8	69.0	60.6	60.6	66.5	66.5
55°	4176.5	3615.7	1732.3	254.2	94.7	73.1	64.0	58.2	54.8	56.5	57.3
57.5°	4217.2	3547.6	1610.1	206.0	89.7	66.5	59.0	50.7	44.9	46.5	45.7
60°	4206.4	3508.5	1469.7	183.6	83.9	61.5	52.3	43.2	37.4	35.7	35.7
62.5°	4186.5	3464.5	1294.4	159.5	78.1	57.3	43.2	34.9	31.6	29.9	30.7
65°	4110.9	3321.6	1072.6	132.9	72.3	55.7	36.6	30.7	27.4	25.8	25.8
67.5°	3928.1	3064.1	810.9	112.2	67.3	44.9	31.6	26.6	23.3	21.6	21.6
69°	3747.0	2818.1	622.3	102.2	64.0	40.7	29.1	24.1	21.6	19.1	19.1
70°	3590.8	2627.9	487.7	95.5	61.5	39.0	28.2	23.3	20.8	18.3	18.3
72.5°	3057.4	2084.5	247.6	83.1	51.5	34.1	24.9	20.8	17.4	15.0	15.0
75°	2372.0	1436.5	163.7	65.6	39.9	30.7	22.4	18.3	15.0	12.5	11.6
77.5°	1427.3	561.6	117.1	42.4	25.8	24.1	18.3	15.0	12.5	10.0	10.0
80°	393.8	240.9	78.9	28.2	15.0	15.8	13.3	10.8	9.1	7.5	7.5
82.5°	236.8	156.2	52.3	18.3	10.0	10.0	7.5	7.5	5.8	5.8	5.8
85°	40.7	31.6	12.5	7.5	5.8	5.8	4.2	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	3.3	3.3	2.5	1.7	0.8	0.0	0.0	0.0
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)