

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: P507730

Luminaire Tested: **VERD-S-CA1-80-730-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507730  
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-CA1-80-730-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1500mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9916 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

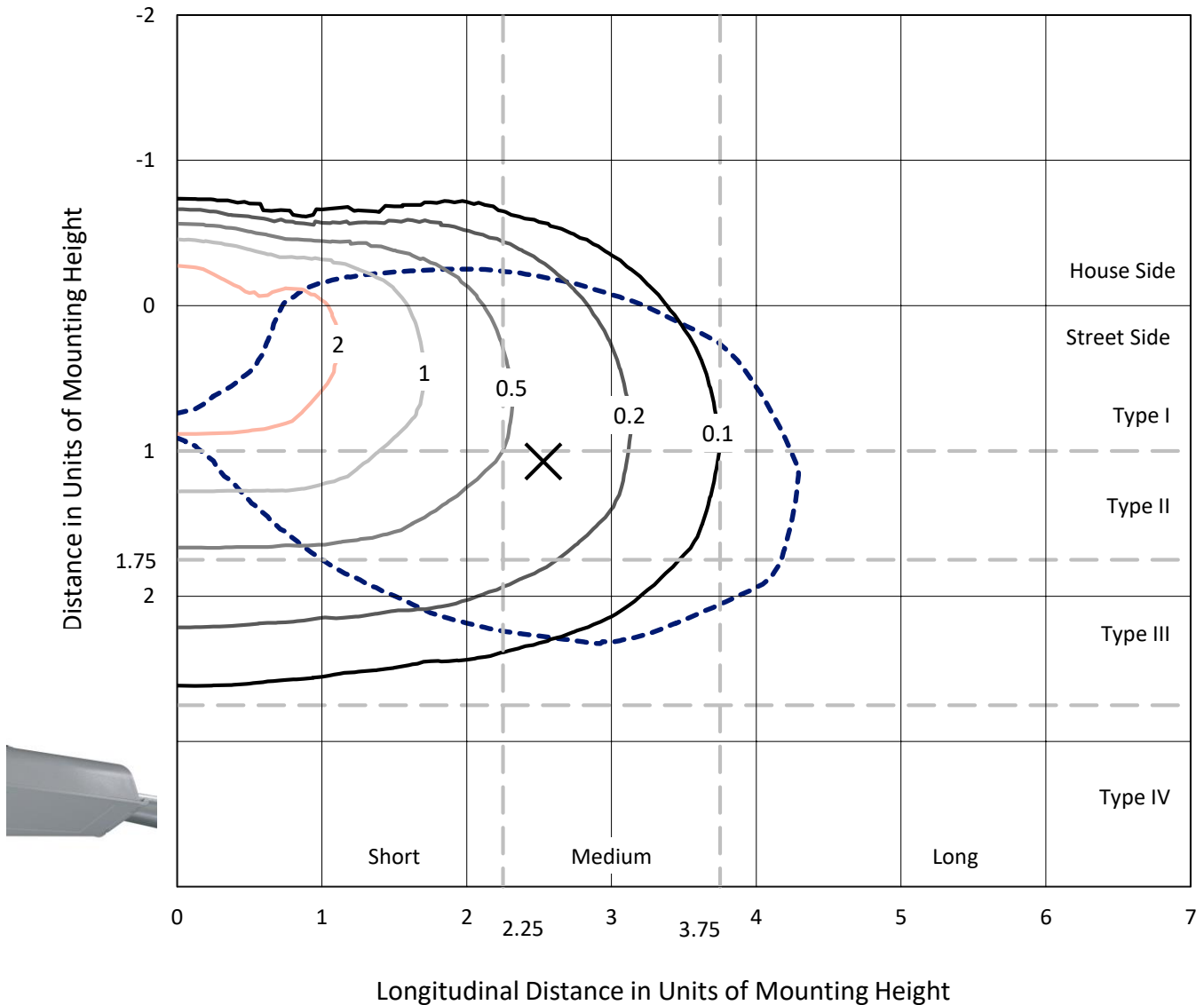
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

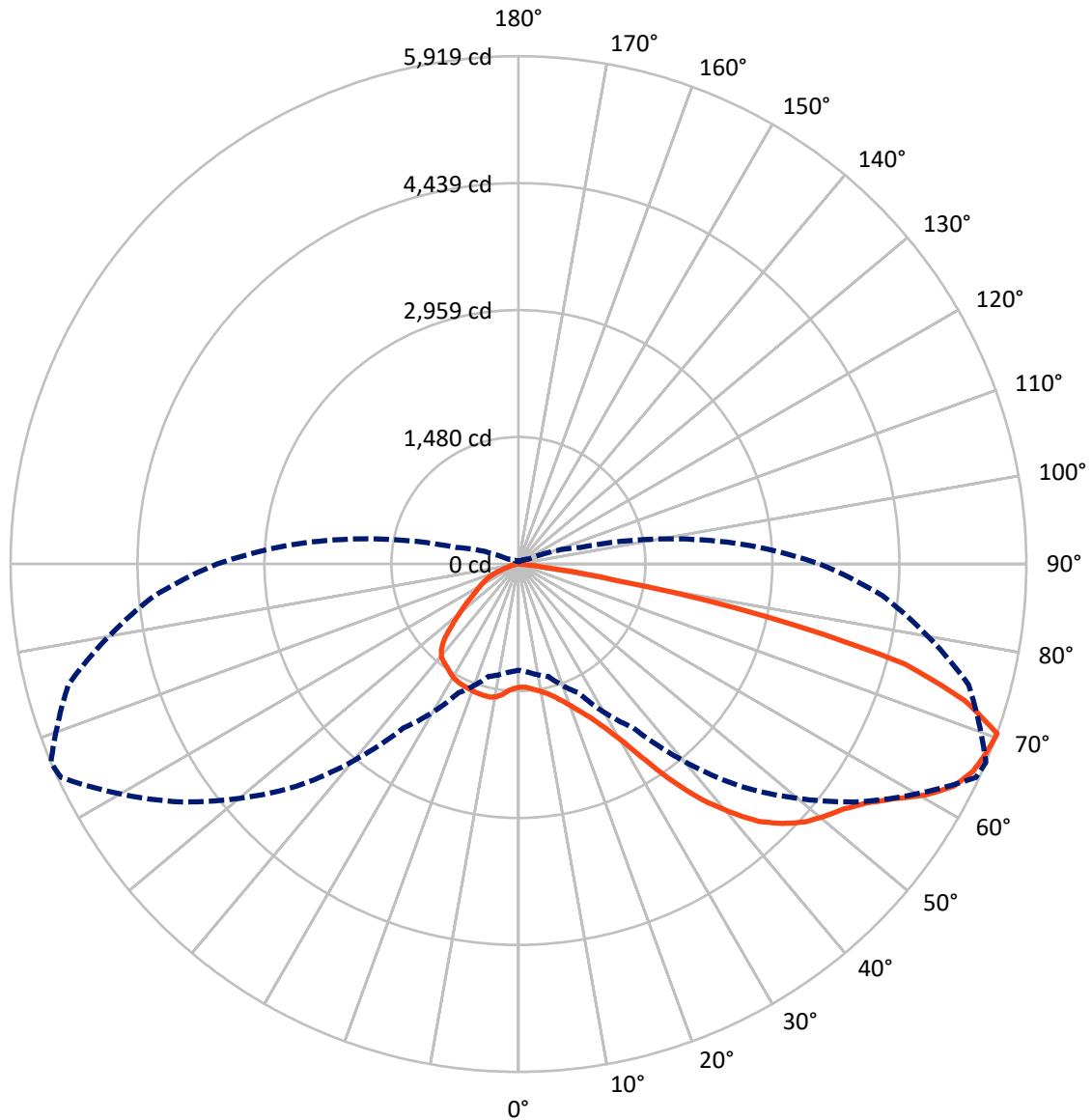
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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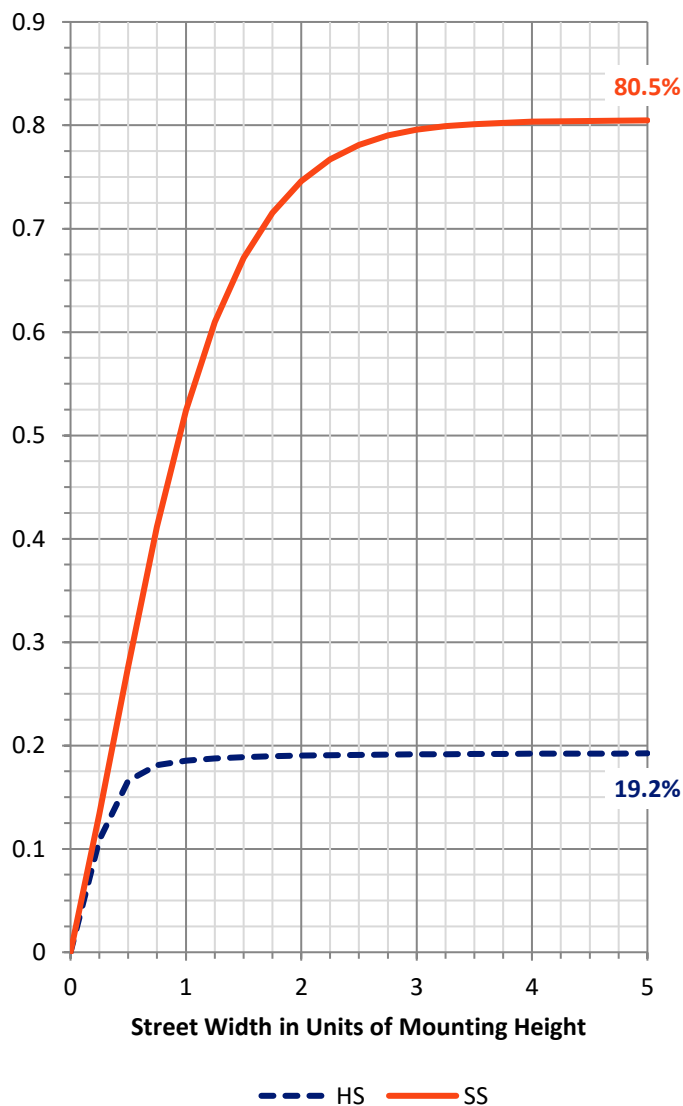
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1932.4	0.0	1932.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7983.6	0.0	7983.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9916.0	0.0	9916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	1.5
10°-20°	457.7	4.6
20°-30°	795.5	8.0
30°-40°	1245.7	12.6
40°-50°	1752.7	17.7
50°-60°	2090.4	21.1
60°-70°	2166.1	21.8
70°-80°	1195.3	12.1
80°-90°	68.1	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°	9916.0	100.0
0°-180°	9916.0	100.0

**Coefficient of Utilization**



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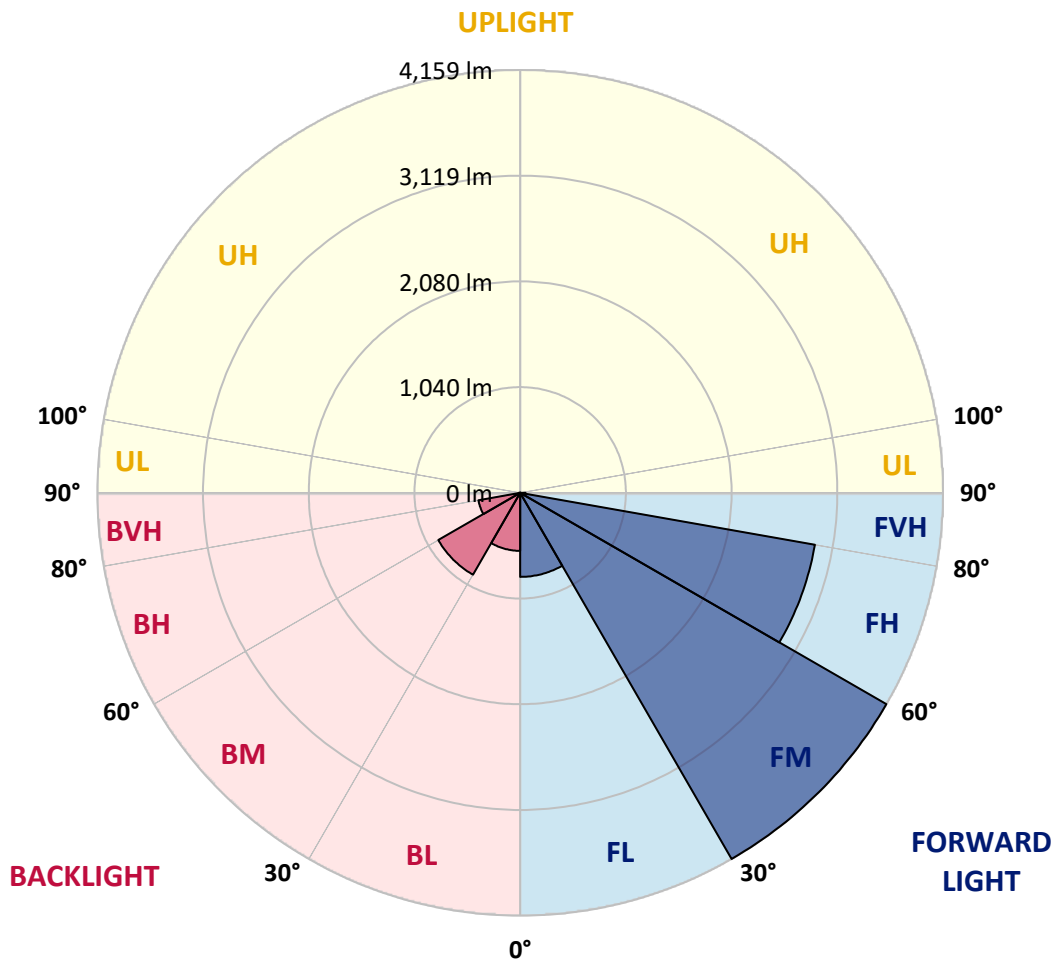
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.2	8.3			
FM (30°-60°)	4159.3	41.9			
FH (60°-80°)	2944.3	29.7			G2/5000
FVH (80°-90°)	52.9	0.5			G1/100
BL (0°-30°)	570.6	5.8	B2/1000		
BM (30°-60°)	929.5	9.4	B1/1000		
BH (60°-80°)	417.1	4.2	B1/500		G1/500
BVH (80°-90°)	15.2	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°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1445.0	1445.0	1445.0	1442.0	1442.0	1442.0	1439.0	1436.0	1436.0	1436.0	1439.0
5°	1484.2	1484.2	1481.2	1478.2	1475.1	1466.1	1460.1	1457.1	1457.1	1454.1	1460.1
7.5°	1532.3	1532.3	1532.3	1526.3	1517.3	1505.2	1493.2	1484.2	1481.2	1478.2	1481.2
10°	1604.6	1604.6	1598.6	1589.5	1574.5	1556.4	1535.4	1517.3	1514.3	1508.3	1514.3
12.5°	1697.9	1688.9	1682.9	1667.8	1649.8	1619.6	1586.5	1559.4	1553.4	1547.4	1568.5
15°	1794.3	1791.2	1776.2	1767.2	1737.1	1697.9	1652.8	1616.6	1610.6	1598.6	1616.6
17.5°	1908.7	1911.7	1905.6	1890.6	1848.4	1791.2	1737.1	1685.9	1679.9	1670.8	1679.9
20°	2065.2	2059.2	2047.1	2026.1	1977.9	1902.6	1833.4	1776.2	1767.2	1761.1	1752.1
22.5°	2221.7	2224.8	2200.7	2179.6	2119.4	2047.1	1953.8	1884.6	1872.5	1869.5	1827.4
25°	2372.3	2378.3	2369.3	2342.2	2291.0	2197.7	2095.3	2011.0	1996.0	1992.9	1920.7
27.5°	2528.8	2531.8	2540.9	2528.8	2474.6	2378.3	2263.9	2167.6	2167.6	2143.5	2035.1
30°	2679.3	2685.4	2691.4	2691.4	2664.3	2580.0	2480.6	2396.4	2396.4	2378.3	2191.6
32.5°	2796.8	2799.8	2835.9	2866.0	2866.0	2805.8	2739.6	2730.5	2727.5	2760.6	2549.9
35°	2902.1	2911.2	2962.3	3043.6	3076.7	3052.6	3055.7	3088.8	3121.9	3203.2	3043.6
37.5°	2980.4	2992.4	3040.6	3133.9	3227.3	3290.5	3350.7	3441.0	3492.2	3615.6	3395.8
40°	3001.5	3016.5	3118.9	3251.3	3401.9	3546.4	3654.7	3766.1	3799.2	3886.6	3609.6
42.5°	2935.2	2950.3	3079.7	3347.7	3558.4	3784.2	3901.6	4043.1	4100.3	4067.2	3787.2
45°	2890.1	2899.1	3034.6	3338.6	3693.9	4016.0	4130.4	4277.9	4314.0	4235.8	3934.7
47.5°	2832.9	2841.9	2983.4	3326.6	3805.3	4214.7	4293.0	4455.5	4491.7	4371.2	4061.2
50°	2748.6	2754.6	2917.2	3302.5	3877.5	4356.2	4443.5	4606.1	4621.1	4497.7	4181.6
52.5°	2646.2	2664.3	2820.8	3245.3	3928.7	4443.5	4548.9	4723.5	4744.5	4660.2	4314.0
55°	2507.7	2528.8	2709.4	3161.0	3910.6	4473.6	4597.0	4880.0	4916.1	4846.9	4425.4
57.5°	2366.3	2396.4	2574.0	3043.6	3838.4	4518.8	4756.6	5111.8	5160.0	5030.5	4515.7
60°	2221.7	2233.8	2417.4	2884.1	3718.0	4563.9	4937.2	5415.9	5461.0	5211.2	4588.0
62.5°	2056.2	2071.2	2233.8	2664.3	3510.2	4521.8	5072.7	5671.8	5698.9	5361.7	4618.1
65°	1863.5	1863.5	2002.0	2396.4	3230.3	4371.2	5090.8	5804.2	5822.3	5458.0	4582.0
67.5°	1595.6	1607.6	1719.0	2065.2	2854.0	4076.2	4988.4	5834.3	5879.5	5518.2	4482.6
70°	1237.3	1264.4	1357.7	1655.8	2330.1	3666.8	4834.9	5882.5	5918.6	5430.9	4259.9
72.5°	845.9	873.0	957.3	1135.0	1679.9	2941.3	4374.3	5427.9	5437.0	5006.5	3826.3
75°	222.8	246.9	313.1	454.6	704.5	1977.9	3498.2	4597.0	4651.2	4329.1	3158.0
77.5°	66.2	66.2	81.3	105.4	144.5	403.4	1779.2	2929.2	2983.4	2854.0	1968.9
80°	51.2	51.2	60.2	72.3	93.3	207.7	617.2	1080.8	1147.0	1225.3	812.8
82.5°	33.1	36.1	39.1	42.1	42.1	84.3	165.6	277.0	274.0	298.0	261.9
85°	21.1	21.1	18.1	18.1	15.1	21.1	15.1	18.1	21.1	21.1	24.1
87.5°	3.0	0.0	0.0	0.0	0.0	3.0	3.0	6.0	6.0	6.0	9.0
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°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1442.0	1445.0	1448.0	1451.1	1457.1	1457.1	1460.1	1460.1	1460.1	1460.1	1460.1
5°	1460.1	1463.1	1472.1	1481.2	1502.2	1514.3	1526.3	1535.4	1535.4	1541.4	1541.4
7.5°	1487.2	1496.2	1523.3	1535.4	1553.4	1571.5	1580.5	1583.5	1589.5	1589.5	1589.5
10°	1532.3	1541.4	1562.4	1571.5	1580.5	1580.5	1577.5	1574.5	1565.5	1562.4	1565.5
12.5°	1574.5	1586.5	1586.5	1583.5	1574.5	1562.4	1547.4	1532.3	1517.3	1505.2	1505.2
15°	1625.7	1619.6	1601.6	1577.5	1553.4	1523.3	1493.2	1466.1	1442.0	1433.0	1433.0
17.5°	1670.8	1655.8	1616.6	1571.5	1520.3	1472.1	1424.0	1378.8	1336.7	1321.6	1312.6
20°	1725.0	1697.9	1628.7	1559.4	1487.2	1411.9	1330.6	1249.4	1177.1	1147.0	1144.0
22.5°	1788.2	1743.1	1646.7	1541.4	1445.0	1330.6	1195.2	1080.8	1008.5	972.4	966.4
25°	1863.5	1797.3	1664.8	1526.3	1393.9	1225.3	1044.6	915.2	824.9	785.7	770.7
27.5°	1956.8	1869.5	1688.9	1508.3	1315.6	1095.8	891.1	740.6	641.2	593.1	587.0
30°	2077.2	1956.8	1713.0	1481.2	1219.3	945.3	725.5	556.9	457.6	409.4	397.4
32.5°	2354.2	2134.4	1743.1	1436.0	1098.8	800.8	547.9	373.3	274.0	228.8	225.8
35°	2823.8	2534.8	1812.3	1375.8	978.4	629.2	352.2	198.7	147.5	129.5	129.5
37.5°	3176.1	2869.0	1999.0	1297.5	821.9	421.5	180.6	117.4	93.3	90.3	90.3
40°	3386.8	3067.7	2203.7	1210.2	635.2	225.8	111.4	90.3	84.3	81.3	81.3
42.5°	3561.4	3233.3	2300.0	1101.8	403.4	126.4	93.3	84.3	78.3	75.3	75.3
45°	3705.9	3359.7	2312.1	963.4	225.8	105.4	87.3	75.3	72.3	69.2	69.2
47.5°	3820.3	3468.1	2282.0	767.7	141.5	99.3	81.3	69.2	63.2	63.2	63.2
50°	3928.7	3561.4	2197.7	605.1	132.5	93.3	75.3	63.2	60.2	60.2	60.2
52.5°	4028.0	3627.6	2056.2	487.7	123.4	87.3	72.3	60.2	54.2	57.2	57.2
55°	4109.3	3654.7	1911.7	376.3	117.4	84.3	69.2	57.2	51.2	51.2	51.2
57.5°	4154.5	3597.5	1791.2	286.0	114.4	81.3	66.2	54.2	45.2	42.1	42.1
60°	4157.5	3522.3	1679.9	240.8	108.4	75.3	63.2	48.2	39.1	36.1	36.1
62.5°	4103.3	3432.0	1511.3	207.7	102.4	72.3	57.2	45.2	36.1	33.1	33.1
65°	3997.9	3272.4	1324.6	177.6	99.3	72.3	51.2	42.1	36.1	30.1	30.1
67.5°	3829.4	3007.5	1074.7	156.5	93.3	66.2	51.2	39.1	33.1	30.1	30.1
70°	3510.2	2628.2	743.6	135.5	87.3	60.2	48.2	39.1	33.1	27.1	27.1
72.5°	3025.5	2134.4	367.3	111.4	75.3	60.2	48.2	36.1	30.1	27.1	27.1
75°	2339.2	1529.3	222.8	90.3	60.2	54.2	45.2	36.1	30.1	24.1	24.1
77.5°	1375.8	680.4	159.6	69.2	45.2	42.1	39.1	33.1	27.1	24.1	24.1
80°	502.8	289.0	117.4	54.2	36.1	36.1	30.1	27.1	24.1	21.1	21.1
82.5°	195.7	153.5	78.3	39.1	30.1	27.1	24.1	21.1	18.1	18.1	18.1
85°	27.1	27.1	27.1	21.1	18.1	18.1	15.1	15.1	12.0	12.0	12.0
87.5°	9.0	9.0	9.0	12.0	9.0	9.0	6.0	6.0	6.0	9.0	9.0
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)