

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: P233734

Luminaire Tested: **VERD-C029-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233734  
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-C029-D-U-T3-7030-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9107 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

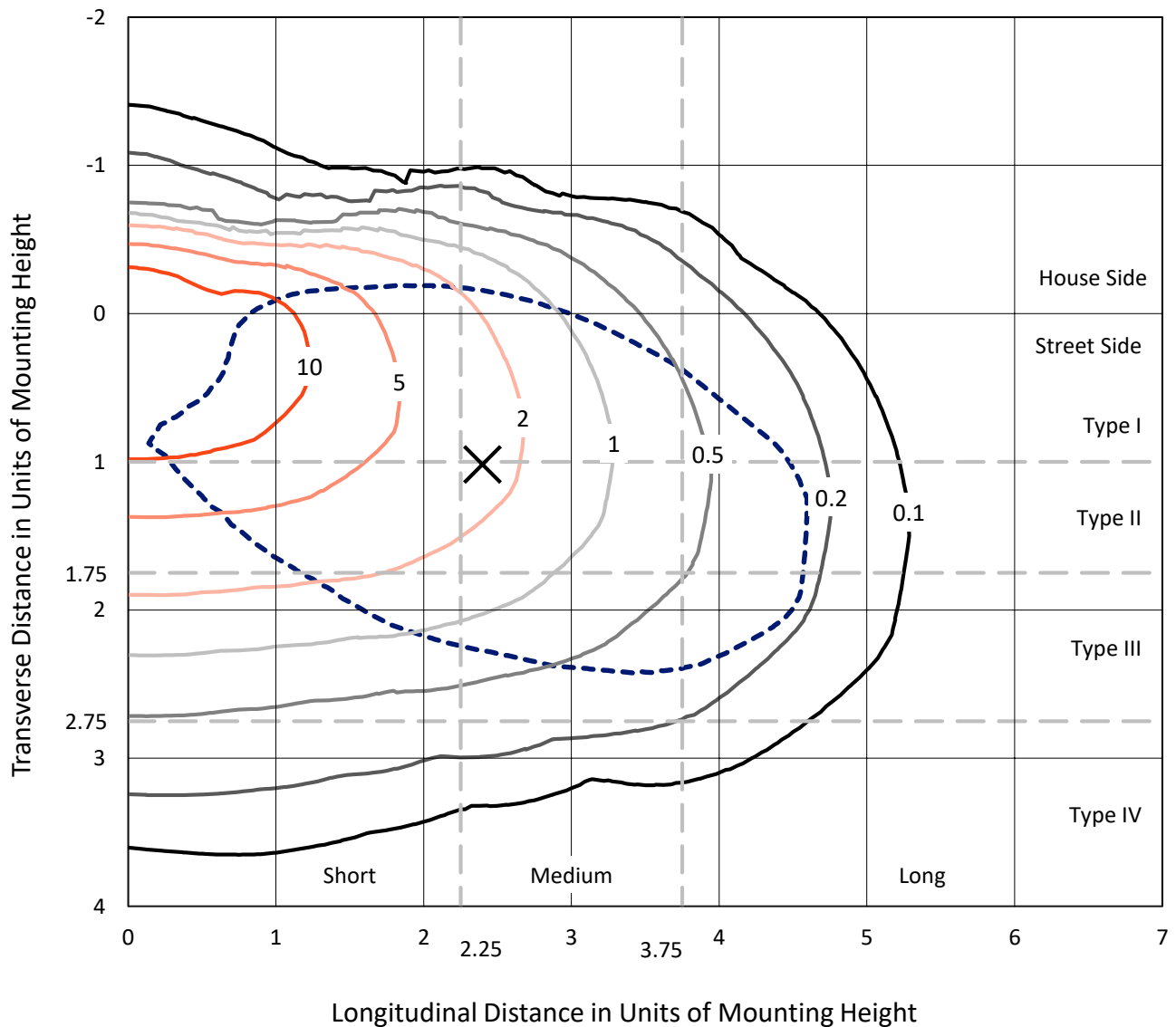
Input Watts (W): 81  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

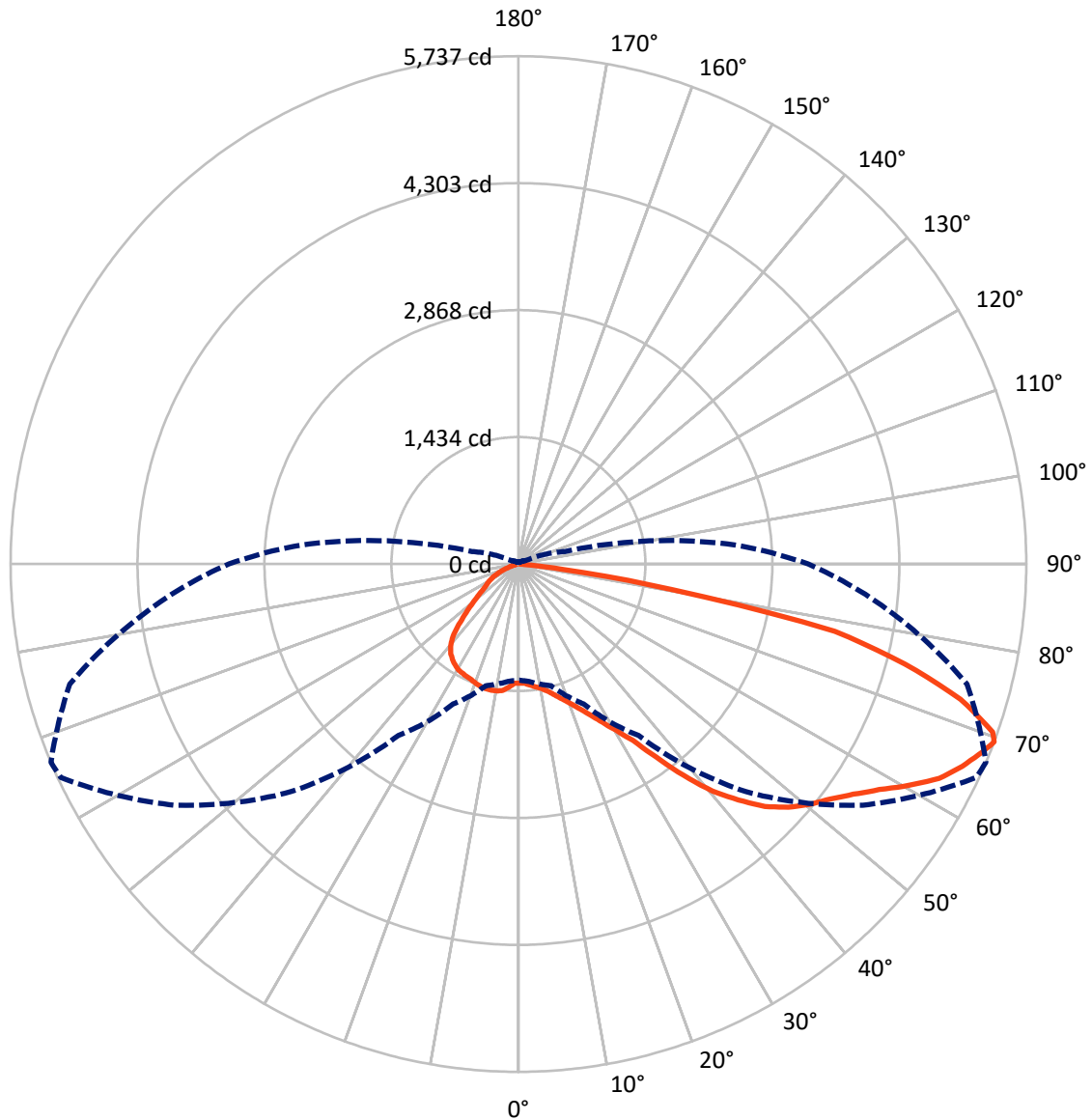
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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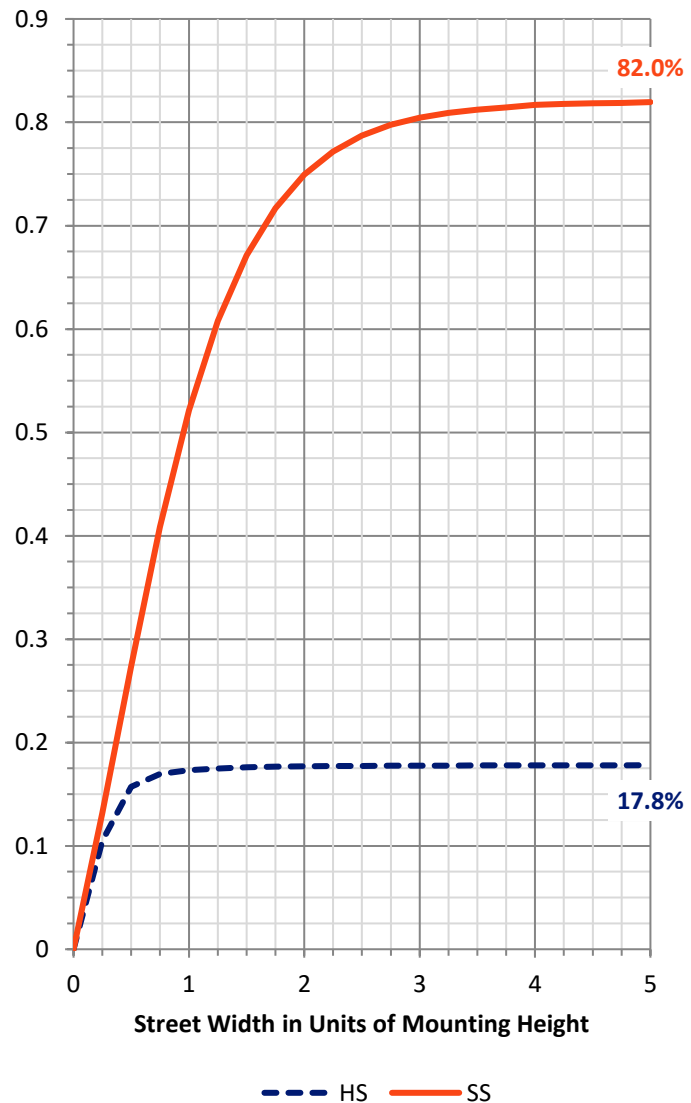
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1641.7	0.0	1641.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7465.3	0.0	7465.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	9107.0	0.0	9107.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	427.5	4.7
20°-30°	729.7	8.0
30°-40°	1103.4	12.1
40°-50°	1558.7	17.1
50°-60°	1883.8	20.7
60°-70°	1987.7	21.8
70°-80°	1196.6	13.1
80°-90°	83.6	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°	9107.0	100.0
0°-180°	9107.0	100.0

**Coefficient of Utilization**



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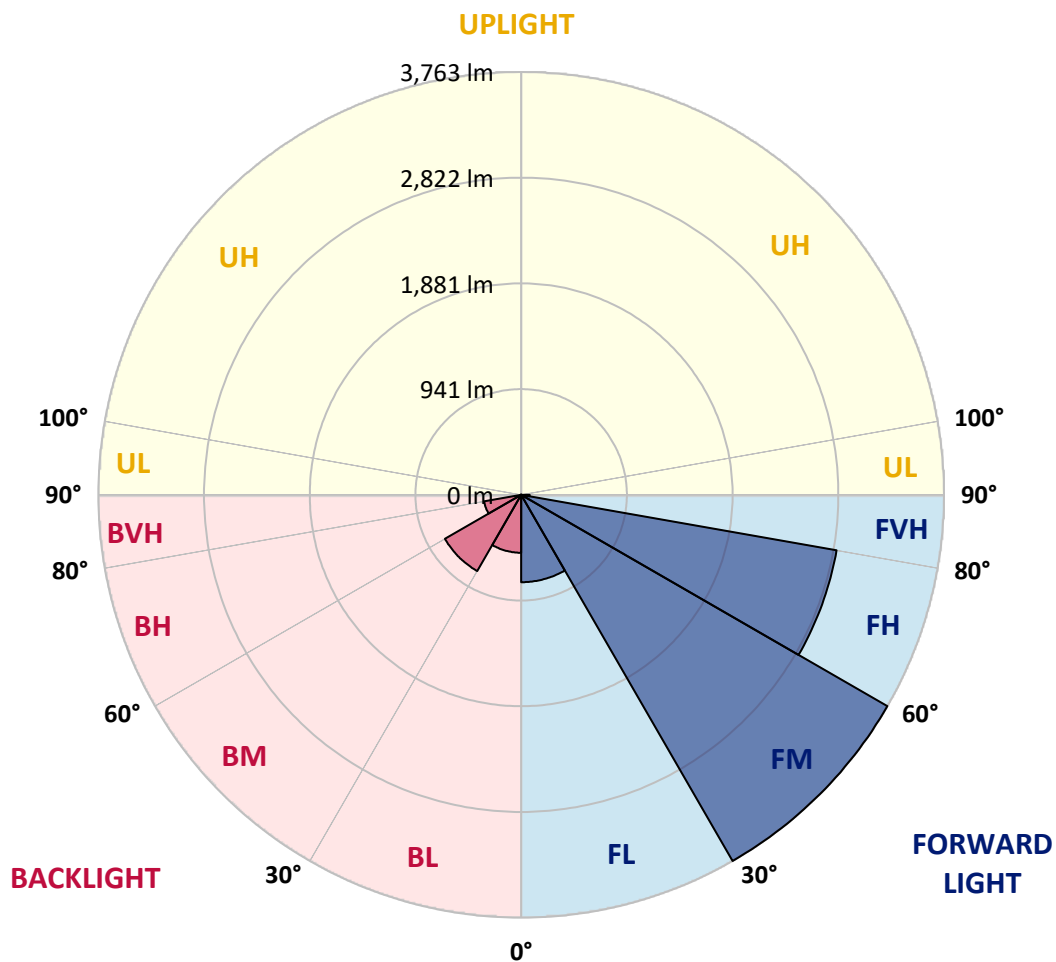
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.6	8.5			
FM	(30°-60°)	3762.5	41.3			
FH	(60°-80°)	2849.6	31.3			G2/5000
FVH	(80°-90°)	75.5	0.8			G1/100
BL	(0°-30°)	515.6	5.7	B2/1000		
BM	(30°-60°)	783.3	8.6	B1/1000		
BH	(60°-80°)	334.7	3.7	B1/500		G1/500
BVH	(80°-90°)	8.1	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°	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8
2.5°	1381.6	1379.4	1379.4	1367.1	1355.5	1352.6	1351.9	1348.2	1349.0	1343.9	1338.8
5°	1421.5	1421.5	1420.1	1404.1	1391.8	1383.8	1378.7	1372.2	1372.9	1369.3	1364.9
7.5°	1481.8	1482.5	1479.6	1458.5	1446.2	1426.6	1415.0	1402.7	1401.9	1397.6	1399.0
10°	1555.8	1557.9	1553.6	1526.7	1505.7	1478.9	1454.2	1432.4	1431.0	1425.9	1430.2
12.5°	1639.2	1642.1	1631.2	1603.7	1579.7	1537.6	1507.9	1478.9	1474.5	1473.8	1476.7
15°	1735.0	1736.5	1732.8	1692.2	1663.2	1624.7	1576.1	1539.1	1534.7	1535.5	1531.8
17.5°	1841.7	1845.3	1837.3	1801.0	1762.6	1709.6	1651.6	1605.8	1603.7	1601.5	1585.5
20°	1954.9	1958.5	1953.4	1919.3	1873.6	1806.8	1735.7	1683.5	1682.8	1677.7	1640.7
22.5°	2082.6	2087.7	2084.8	2043.4	1994.8	1922.2	1833.7	1779.3	1777.8	1761.9	1706.0
25°	2221.2	2219.7	2222.6	2178.4	2132.7	2056.5	1946.9	1890.3	1890.3	1870.7	1788.0
27.5°	2355.4	2354.7	2359.8	2328.6	2280.7	2208.8	2076.8	2019.5	2024.5	1996.2	1886.7
30°	2486.0	2486.0	2498.4	2478.1	2442.5	2367.0	2237.9	2177.6	2184.2	2154.4	2011.5
32.5°	2608.0	2613.8	2634.8	2622.5	2595.6	2527.4	2417.1	2362.0	2377.2	2389.5	2243.7
35°	2697.9	2703.7	2752.4	2756.7	2750.2	2704.5	2622.5	2658.0	2676.2	2773.4	2610.9
37.5°	2777.0	2784.3	2842.3	2878.6	2899.7	2871.4	2876.4	2995.4	3029.5	3144.2	2924.3
40°	2835.1	2851.0	2908.4	2958.4	3032.4	3065.8	3148.6	3317.6	3372.8	3418.5	3139.8
42.5°	2795.2	2806.1	2906.9	3041.2	3149.3	3266.8	3401.1	3602.1	3643.4	3628.9	3330.0
45°	2736.4	2749.5	2855.4	3062.9	3242.2	3476.5	3640.5	3858.2	3905.4	3824.8	3494.0
47.5°	2670.4	2688.5	2803.1	3033.9	3319.8	3669.6	3857.5	4078.1	4105.7	3999.7	3631.8
50°	2603.6	2623.9	2753.8	3010.0	3380.0	3830.7	4015.7	4257.3	4265.3	4144.9	3755.9
52.5°	2513.6	2534.7	2676.9	2959.9	3422.1	3936.6	4154.3	4404.6	4409.7	4301.6	3873.5
55°	2399.7	2426.5	2576.7	2885.9	3432.3	3998.3	4242.1	4557.7	4591.9	4471.4	3970.0
57.5°	2265.4	2290.1	2455.6	2779.2	3381.5	4019.3	4364.7	4760.2	4807.4	4643.4	4049.8
60°	2110.9	2139.2	2305.4	2641.3	3279.2	4078.1	4567.9	5046.1	5074.4	4823.3	4120.2
62.5°	1952.7	1973.0	2123.9	2447.6	3119.5	4113.7	4747.9	5314.6	5333.5	4996.8	4162.3
65°	1727.7	1753.1	1900.5	2225.5	2889.5	4045.4	4816.8	5498.2	5509.8	5141.9	4142.0
67.5°	1483.2	1503.5	1610.9	1957.8	2587.6	3829.2	4788.5	5620.8	5657.8	5255.1	4049.8
69°	1309.8	1330.1	1423.0	1743.7	2363.4	3637.6	4748.6	5704.3	5736.9	5247.1	3932.2
70°	1174.8	1195.1	1282.9	1584.1	2187.8	3475.8	4685.5	5662.2	5683.2	5157.8	3817.6
72.5°	840.3	860.6	932.4	1113.9	1657.4	2856.8	4294.3	5194.9	5223.2	4729.0	3412.0
75°	439.7	488.4	617.5	719.8	981.8	2011.5	3570.1	4467.8	4509.1	4149.9	2806.1
77.5°	56.6	59.5	174.2	292.4	405.6	848.3	2536.1	3587.6	3652.9	3321.3	1940.4
80°	45.7	46.4	60.2	145.9	201.7	344.0	899.8	1679.1	1758.2	1476.0	713.3
82.5°	31.9	33.4	47.2	76.9	66.0	125.5	312.8	474.6	489.1	423.0	284.5
85°	18.1	18.1	22.5	29.8	21.0	47.2	64.6	68.9	61.7	61.0	45.7
87.5°	5.1	5.8	6.5	5.1	2.2	2.2	2.9	2.9	2.9	2.2	2.2
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°	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8	1346.8
2.5°	1346.8	1345.3	1346.1	1349.0	1353.3	1369.3	1380.2	1381.6	1386.7	1405.6	1403.4
5°	1370.0	1378.7	1383.8	1399.0	1409.2	1431.0	1444.0	1445.5	1452.7	1472.3	1473.0
7.5°	1402.7	1417.2	1424.4	1441.8	1445.5	1455.6	1459.3	1455.6	1456.4	1473.8	1475.2
10°	1431.0	1449.1	1449.1	1453.5	1446.9	1447.7	1436.0	1425.2	1419.4	1434.6	1438.2
12.5°	1474.5	1479.6	1468.0	1454.9	1435.3	1417.9	1398.3	1380.9	1367.1	1375.8	1370.7
15°	1519.5	1511.5	1483.2	1449.1	1414.3	1384.5	1343.9	1318.5	1294.5	1299.6	1295.3
17.5°	1564.5	1538.4	1494.1	1437.5	1386.7	1330.1	1273.5	1233.6	1190.0	1186.4	1179.9
20°	1608.0	1570.3	1497.0	1413.5	1342.4	1262.6	1174.8	1106.6	1042.0	1025.3	1014.4
22.5°	1660.3	1605.8	1500.6	1390.3	1294.5	1185.7	1052.9	947.0	877.3	854.1	843.2
25°	1727.0	1655.2	1510.8	1372.9	1245.9	1090.6	908.5	787.3	711.9	671.9	668.3
27.5°	1806.1	1714.7	1528.2	1350.4	1177.0	963.7	759.0	632.8	552.2	511.6	498.5
30°	1909.9	1788.7	1544.2	1333.0	1079.8	825.1	602.3	461.5	365.7	339.6	325.8
32.5°	2106.5	1909.2	1564.5	1292.4	965.1	673.4	426.7	284.5	219.1	201.7	201.7
35°	2426.5	2174.0	1615.3	1236.5	827.2	490.5	256.2	159.6	130.6	120.5	115.4
37.5°	2715.3	2441.1	1742.3	1150.1	659.6	290.3	146.6	98.7	89.3	90.7	90.7
40°	2919.3	2623.9	1882.3	1033.3	447.7	155.3	92.9	79.1	80.5	81.3	81.3
42.5°	3094.1	2779.9	1959.2	894.7	243.8	100.9	79.8	71.8	74.0	73.3	72.6
45°	3240.7	2906.9	1984.6	703.9	118.3	89.3	72.6	66.0	66.0	65.3	65.3
47.5°	3366.2	3019.4	1937.5	523.2	95.8	82.0	68.9	61.0	60.2	63.9	63.9
50°	3480.9	3106.5	1819.9	396.2	92.9	75.5	65.3	56.6	57.3	62.4	62.4
52.5°	3576.7	3158.0	1645.8	296.8	86.4	69.7	60.2	53.0	53.0	58.1	58.1
55°	3647.8	3158.0	1513.0	222.0	82.7	63.9	55.9	50.8	47.9	49.3	50.1
57.5°	3683.3	3098.5	1406.3	180.0	78.4	58.1	51.5	44.3	39.2	40.6	39.9
60°	3673.9	3064.4	1283.7	160.4	73.3	53.7	45.7	37.7	32.7	31.2	31.2
62.5°	3656.5	3025.9	1130.5	139.3	68.2	50.1	37.7	30.5	27.6	26.1	26.8
65°	3590.5	2901.1	936.8	116.1	63.1	48.6	31.9	26.8	23.9	22.5	22.5
67.5°	3430.8	2676.2	708.2	98.0	58.8	39.2	27.6	23.2	20.3	18.9	18.9
69°	3272.6	2461.4	543.5	89.3	55.9	35.6	25.4	21.0	18.9	16.7	16.7
70°	3136.2	2295.2	426.0	83.4	53.7	34.1	24.7	20.3	18.1	16.0	16.0
72.5°	2670.4	1820.6	216.2	72.6	45.0	29.8	21.8	18.1	15.2	13.1	13.1
75°	2071.7	1254.6	143.0	57.3	34.8	26.8	19.6	16.0	13.1	10.9	10.2
77.5°	1246.6	490.5	102.3	37.0	22.5	21.0	16.0	13.1	10.9	8.7	8.7
80°	344.0	210.4	68.9	24.7	13.1	13.8	11.6	9.4	8.0	6.5	6.5
82.5°	206.8	136.4	45.7	16.0	8.7	8.7	6.5	6.5	5.1	5.1	5.1
85°	35.6	27.6	10.9	6.5	5.1	5.1	3.6	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	2.9	2.9	2.2	1.5	0.7	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)