

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: P509480

Luminaire Tested: **VERD-G-CA2-100-760-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-760-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

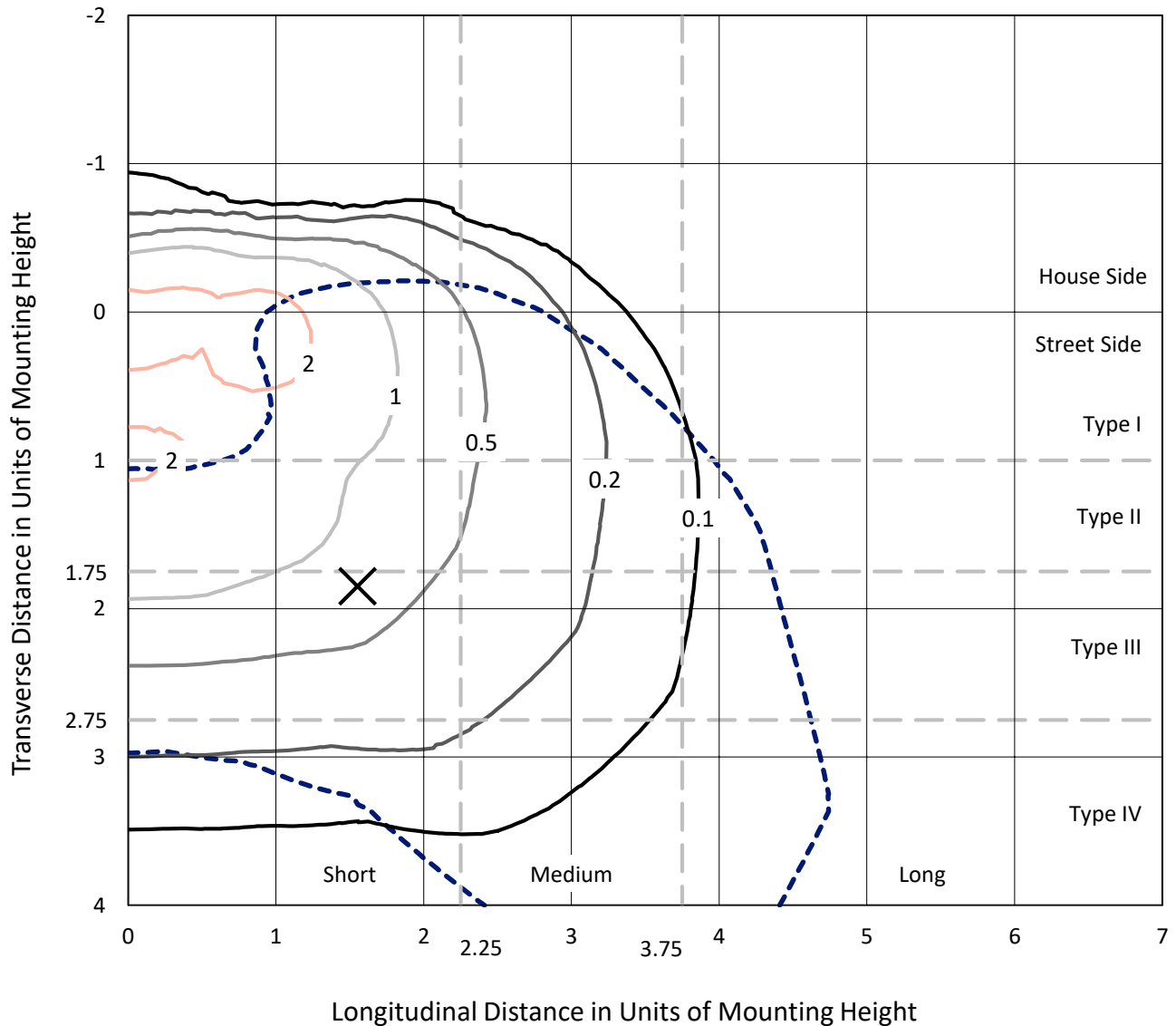
Lumens per Lamp: N/A  
Luminaire Lumens: 13425 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): 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

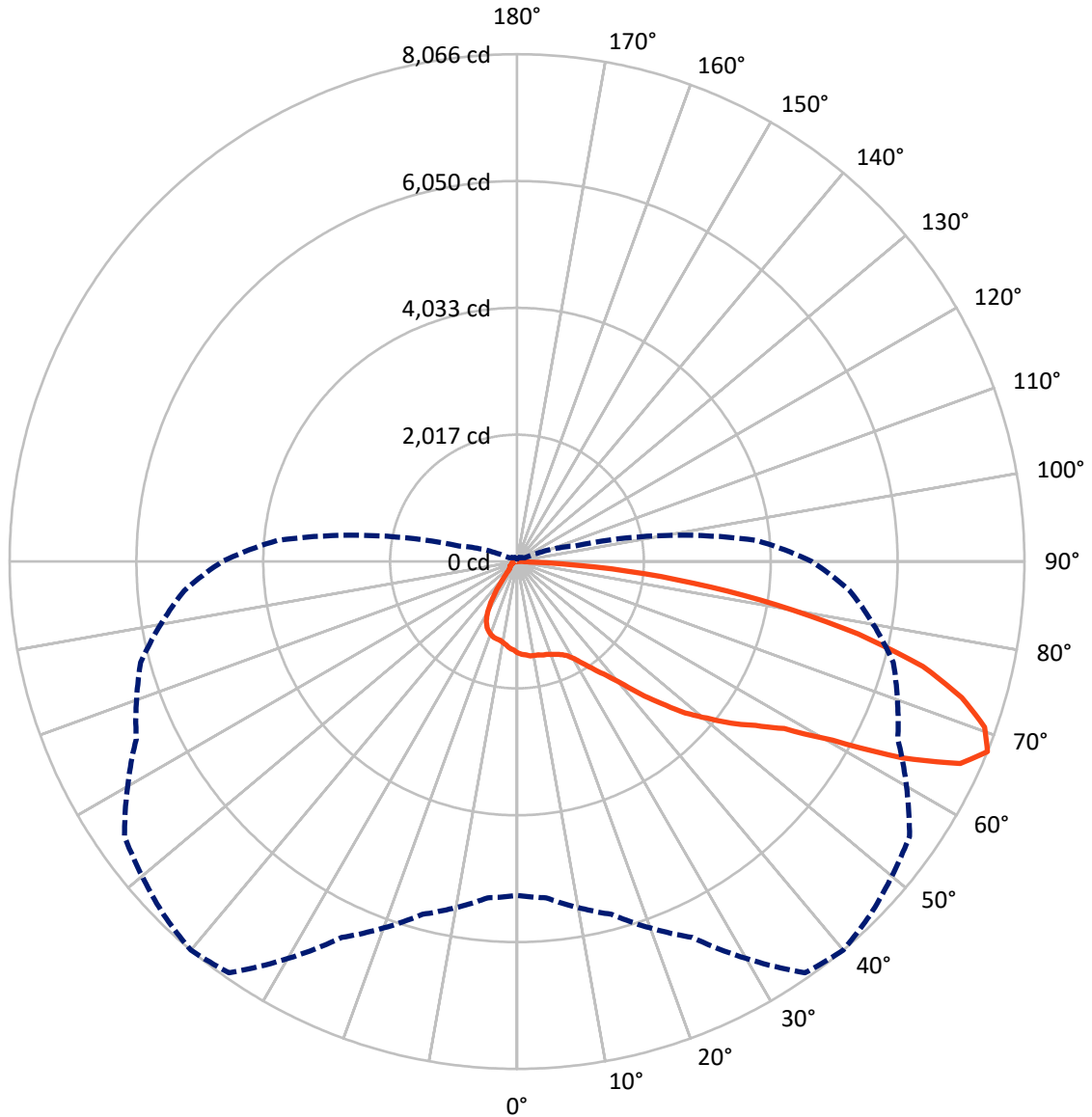
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: VERD-G-CA2-100-760-U-T4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-G-CA2-100-760-U-T4-HSS

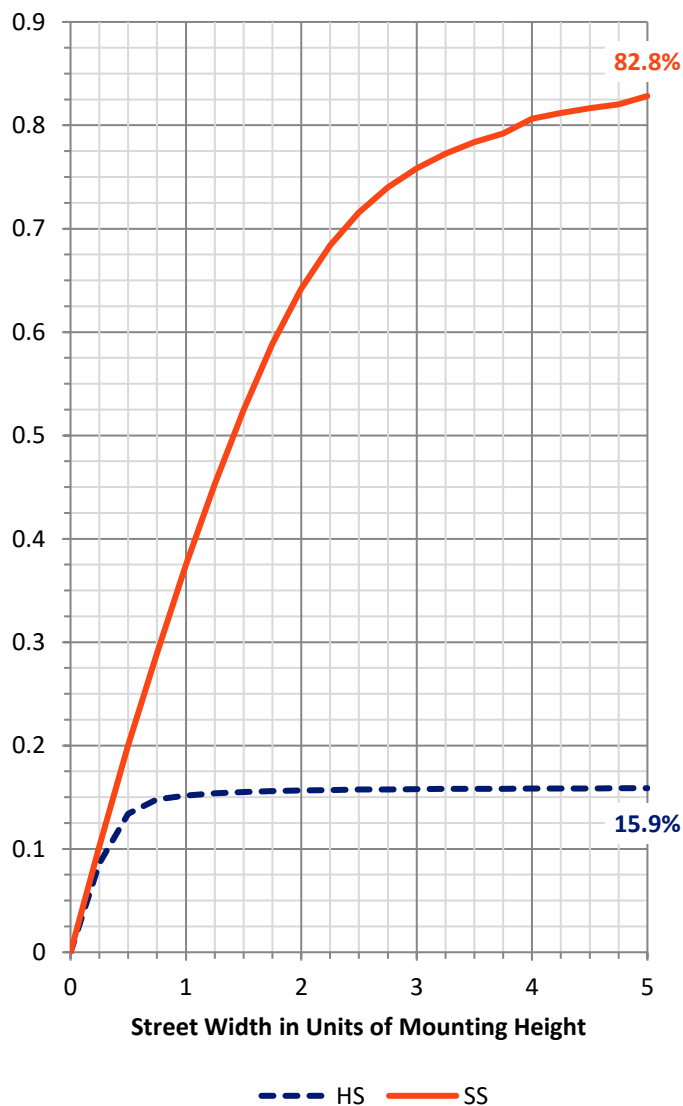
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2154.5	0.0	2154.5
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	11270.5	0.0	11270.5
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	13425.0	0.0	13425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	1.0
10°-20°	407.9	3.0
20°-30°	678.6	5.1
30°-40°	1067.1	7.9
40°-50°	1847.6	13.8
50°-60°	2731.0	20.3
60°-70°	3550.5	26.4
70°-80°	2541.4	18.9
80°-90°	463.4	3.5
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°	13425.0	100.0
0°-180°	13425.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509480

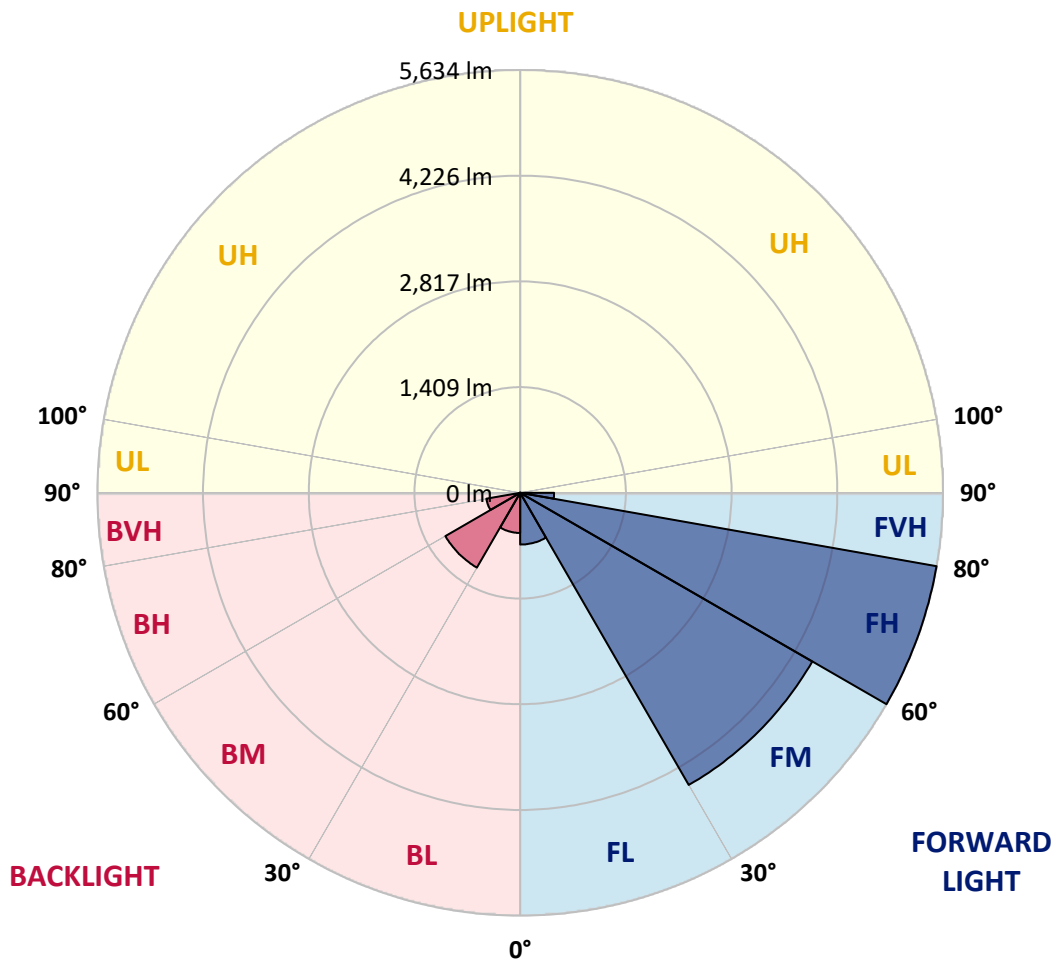
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.5	5.1			
FM	(30°-60°)	4494.8	33.5			
FH	(60°-80°)	5634.1	42.0			G3/7500
FVH	(80°-90°)	452.0	3.4			G3/500
BL	(0°-30°)	534.5	4.0	B2/1000		
BM	(30°-60°)	1150.9	8.6	B2/2500		
BH	(60°-80°)	457.7	3.4	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1512.0	1511.0	1501.1	1496.1	1482.1	1477.1	1478.1	1472.1	1458.2	1460.2	1446.2
5°	1514.0	1521.0	1506.0	1502.1	1497.1	1491.1	1498.1	1490.1	1478.1	1482.1	1467.2
7.5°	1523.0	1526.0	1519.0	1515.0	1503.0	1515.0	1514.0	1507.0	1499.1	1492.1	1486.1
10°	1526.0	1523.0	1509.0	1506.0	1506.0	1518.0	1523.0	1526.0	1526.0	1515.0	1511.0
12.5°	1511.0	1509.0	1495.1	1501.1	1514.0	1522.0	1537.9	1547.9	1563.8	1551.9	1545.9
15°	1488.1	1493.1	1499.1	1501.1	1525.0	1542.9	1557.9	1575.8	1602.7	1602.7	1600.7
17.5°	1495.1	1505.0	1512.0	1522.0	1544.9	1550.9	1571.8	1600.7	1645.6	1648.6	1653.6
20°	1530.0	1530.0	1532.0	1538.9	1558.9	1576.8	1594.7	1631.6	1683.5	1700.4	1705.4
22.5°	1567.8	1565.8	1574.8	1573.8	1589.8	1601.7	1624.6	1656.5	1721.3	1753.2	1766.2
25°	1598.7	1604.7	1612.7	1602.7	1633.6	1638.6	1656.5	1695.4	1764.2	1821.0	1848.9
27.5°	1651.6	1655.5	1653.6	1658.5	1689.4	1692.4	1709.4	1765.2	1829.0	1906.7	1967.5
30°	1742.3	1728.3	1730.3	1741.3	1786.1	1792.1	1810.0	1863.9	1914.7	2017.4	2113.0
32.5°	1866.8	1866.8	1844.9	1865.9	1917.7	1933.6	1960.5	2041.3	2091.1	2145.9	2303.4
35°	2105.1	2105.1	2089.1	2034.3	2060.2	2100.1	2149.9	2261.5	2415.0	2594.5	2761.9
37.5°	2499.8	2493.8	2431.0	2332.3	2276.5	2290.5	2339.3	2519.7	2768.9	3206.4	3335.0
40°	2971.2	2954.3	2836.7	2699.1	2556.6	2532.7	2555.6	2781.8	3136.7	3785.5	3834.4
42.5°	3389.8	3388.8	3216.4	3099.8	2917.4	2877.5	2850.6	3047.0	3505.4	4206.1	4223.1
45°	3789.5	3779.5	3612.1	3485.5	3319.1	3217.4	3210.4	3348.0	3893.2	4584.9	4513.1
47.5°	4145.3	4160.3	3972.9	3851.3	3666.9	3597.1	3541.3	3658.9	4250.0	4907.8	4759.3
50°	4555.0	4581.9	4301.8	4168.3	3981.9	3913.1	3944.0	4030.7	4605.8	5172.0	4978.6
52.5°	5072.3	4986.6	4708.5	4479.2	4305.8	4271.9	4278.9	4399.5	5017.5	5388.2	5131.1
55°	5681.3	5554.7	5275.6	4917.8	4634.7	4602.8	4599.8	4722.4	5398.2	5590.6	5248.7
57.5°	5910.5	5976.3	5866.7	5602.5	5102.2	5008.5	4935.7	5049.4	5740.1	5813.8	5372.3
60°	6439.8	6510.5	6429.8	6260.4	6090.9	5765.0	5446.1	5435.1	6059.0	6027.1	5424.1
62.5°	6498.6	6475.7	6834.5	6894.3	6994.9	6868.4	6632.1	5946.4	6347.1	6135.8	5465.0
65°	6169.7	6172.7	6654.1	6983.0	7678.7	7743.5	7597.0	6759.7	6563.4	6178.6	5436.1
67.5°	5308.5	5367.3	5805.9	6594.3	7981.7	8066.4	7942.8	7617.9	6680.0	6193.6	5310.5
70°	4562.0	4564.0	4978.6	5940.4	7822.2	7886.0	7829.2	7673.7	6635.1	6075.0	4969.6
72.5°	3590.2	3579.2	3943.0	4914.8	7259.1	7394.6	7363.7	7470.4	6470.7	5646.4	4228.1
75°	2592.5	2614.4	2983.2	3785.5	6244.4	6665.0	6814.5	7139.5	5884.6	4795.2	3099.8
77.5°	1815.0	1836.9	2190.8	2875.5	5039.4	5546.7	5786.9	6072.0	4769.3	3554.3	1588.8
80°	1187.1	1207.0	1511.0	2159.9	3756.6	4189.2	4369.6	4199.2	2800.8	1493.1	174.4
82.5°	689.7	728.6	959.8	1482.1	2632.3	2837.6	2847.6	2209.7	1046.6	133.6	81.7
85°	335.9	360.8	574.1	879.1	1440.3	1514.0	1404.4	822.3	244.2	63.8	46.8
87.5°	49.8	65.8	226.3	331.9	244.2	200.3	120.6	27.9	15.9	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509480

CATALOG NUMBER: VERD-G-CA2-100-760-U-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1438.3	1437.3	1440.3	1427.3	1428.3	1412.3	1406.4	1403.4	1417.3	1415.3	1425.3
5°	1456.2	1446.2	1445.2	1413.3	1410.4	1390.4	1378.5	1360.5	1374.5	1371.5	1371.5
7.5°	1467.2	1457.2	1451.2	1413.3	1387.4	1352.5	1332.6	1318.7	1317.7	1314.7	1315.7
10°	1485.1	1480.1	1448.2	1406.4	1371.5	1326.6	1288.8	1266.8	1256.9	1257.9	1250.9
12.5°	1525.0	1515.0	1472.1	1422.3	1366.5	1304.7	1255.9	1217.0	1197.1	1193.1	1182.1
15°	1581.8	1570.8	1517.0	1460.2	1379.5	1306.7	1233.9	1165.2	1131.3	1117.3	1107.4
17.5°	1648.6	1631.6	1569.8	1505.0	1406.4	1304.7	1213.0	1120.3	1055.5	1018.6	1015.7
20°	1701.4	1693.4	1622.7	1552.9	1423.3	1291.7	1178.1	1055.5	958.8	891.1	877.1
22.5°	1771.2	1772.2	1693.4	1588.8	1437.3	1269.8	1123.3	964.8	833.3	742.6	726.6
25°	1871.8	1856.9	1768.2	1617.7	1440.3	1244.9	1048.5	851.2	679.8	578.1	560.2
27.5°	1992.4	1970.5	1829.0	1632.6	1427.3	1195.1	948.9	702.7	502.3	414.6	400.7
30°	2120.0	2068.2	1878.8	1638.6	1387.4	1114.3	807.3	513.3	355.8	294.0	288.1
32.5°	2283.5	2207.7	1921.7	1618.7	1326.6	991.7	625.9	351.8	246.2	213.3	215.3
35°	2618.4	2433.0	1988.4	1596.7	1240.9	838.2	437.6	233.2	190.4	186.4	187.4
37.5°	3124.7	2830.7	2106.1	1564.8	1113.3	640.9	281.1	180.4	181.4	181.4	181.4
40°	3614.1	3265.2	2286.5	1502.1	956.8	448.5	185.4	170.4	175.4	174.4	175.4
42.5°	3962.9	3588.2	2475.8	1425.3	776.4	284.1	166.5	160.5	163.5	162.5	165.5
45°	4246.0	3865.3	2648.3	1316.7	581.1	185.4	163.5	152.5	149.5	148.5	151.5
47.5°	4455.3	4047.7	2771.9	1181.1	387.7	159.5	156.5	140.5	136.6	136.6	137.5
50°	4658.6	4223.1	2808.7	1026.6	239.2	155.5	147.5	130.6	124.6	122.6	124.6
52.5°	4800.2	4282.9	2816.7	852.2	160.5	151.5	136.6	118.6	111.6	110.6	111.6
55°	4920.8	4405.5	2751.9	634.9	143.5	142.5	126.6	106.6	98.7	102.7	104.7
57.5°	4950.7	4417.4	2622.4	419.6	142.5	130.6	115.6	95.7	89.7	93.7	94.7
60°	5026.4	4368.6	2460.9	258.1	139.5	116.6	102.7	84.7	80.7	81.7	83.7
62.5°	4961.6	4341.7	2184.8	180.4	128.6	106.6	95.7	77.7	70.8	69.8	69.8
65°	4895.9	4183.2	1670.5	149.5	114.6	99.7	86.7	68.8	60.8	56.8	56.8
67.5°	4686.6	3828.4	953.9	138.5	103.7	91.7	78.7	62.8	52.8	47.8	45.8
70°	4159.3	3066.9	294.0	126.6	104.7	85.7	72.8	54.8	45.8	38.9	37.9
72.5°	3257.3	1917.7	137.5	111.6	107.6	79.7	67.8	50.8	40.9	32.9	31.9
75°	1916.7	459.5	112.6	82.7	91.7	84.7	66.8	48.8	35.9	26.9	25.9
77.5°	416.6	111.6	100.7	55.8	68.8	81.7	63.8	42.9	31.9	20.9	19.9
80°	100.7	87.7	91.7	42.9	45.8	56.8	51.8	36.9	28.9	16.9	15.9
82.5°	67.8	65.8	80.7	26.9	22.9	20.9	21.9	22.9	23.9	13.0	12.0
85°	44.9	56.8	42.9	15.0	13.0	11.0	11.0	10.0	14.0	8.0	8.0
87.5°	7.0	6.0	7.0	6.0	6.0	5.0	4.0	4.0	3.0	4.0	4.0
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)