

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: P509568

Luminaire Tested: **VERD-G-CA2-120-750-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509568  
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-CA2-120-750-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

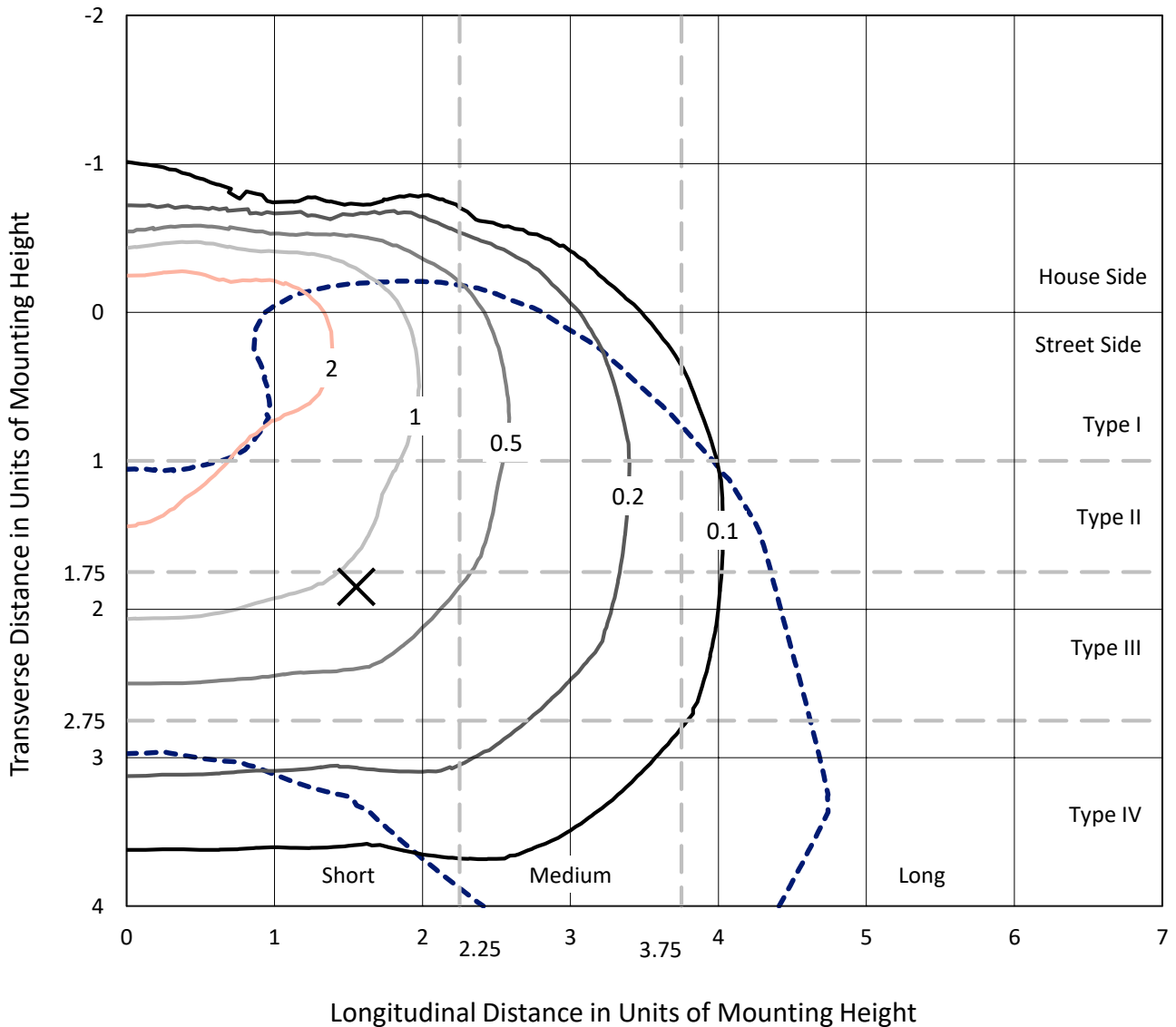
Lumens per Lamp: N/A  
Luminaire Lumens: 16080 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P509568  
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### Iso-Footcandle Lines of Horizontal Illumination

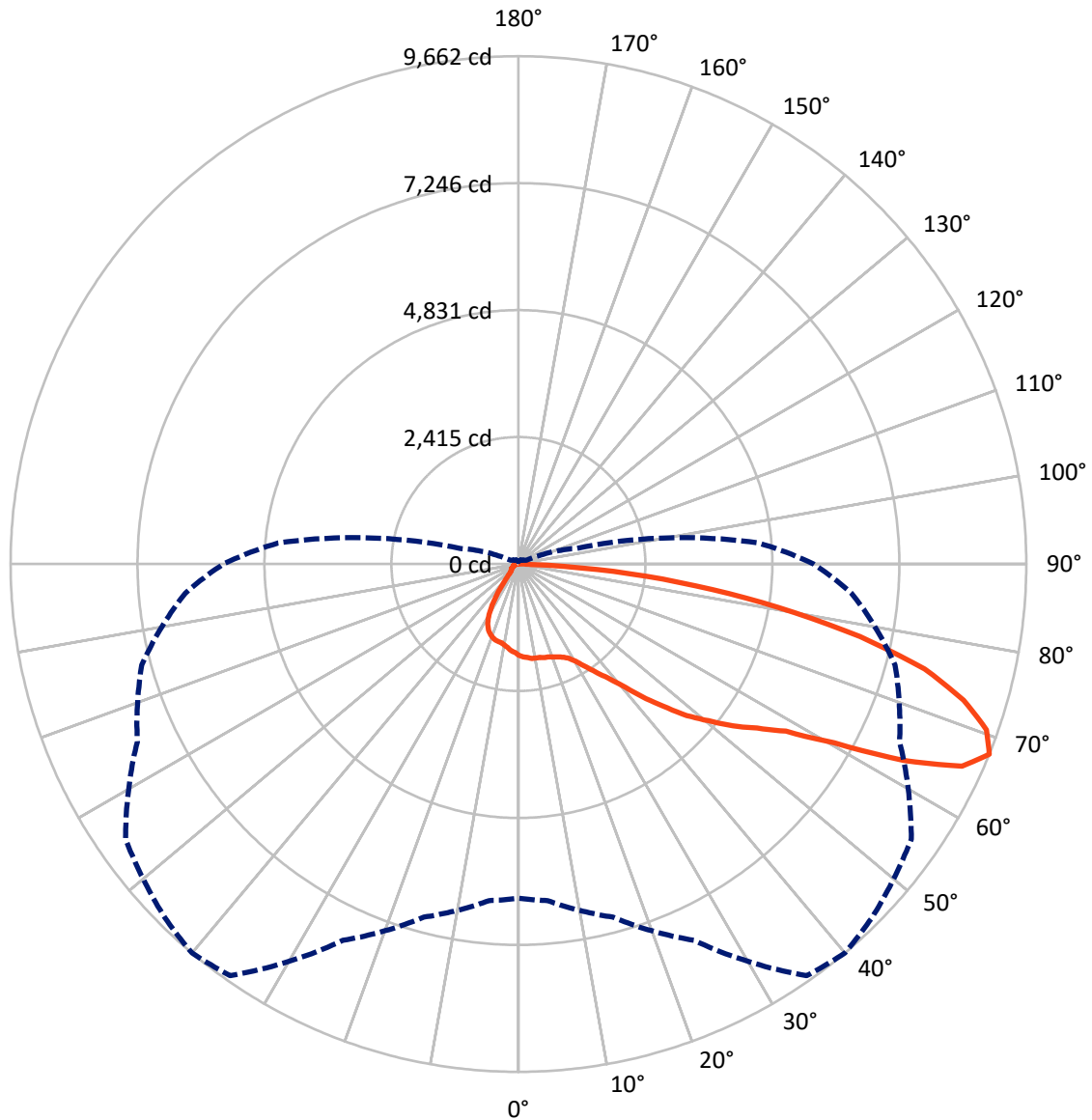
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P509568  
CATALOG NUMBER: VERD-G-CA2-120-750-U-T4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509568

CATALOG NUMBER: VERD-G-CA2-120-750-U-T4-HSS

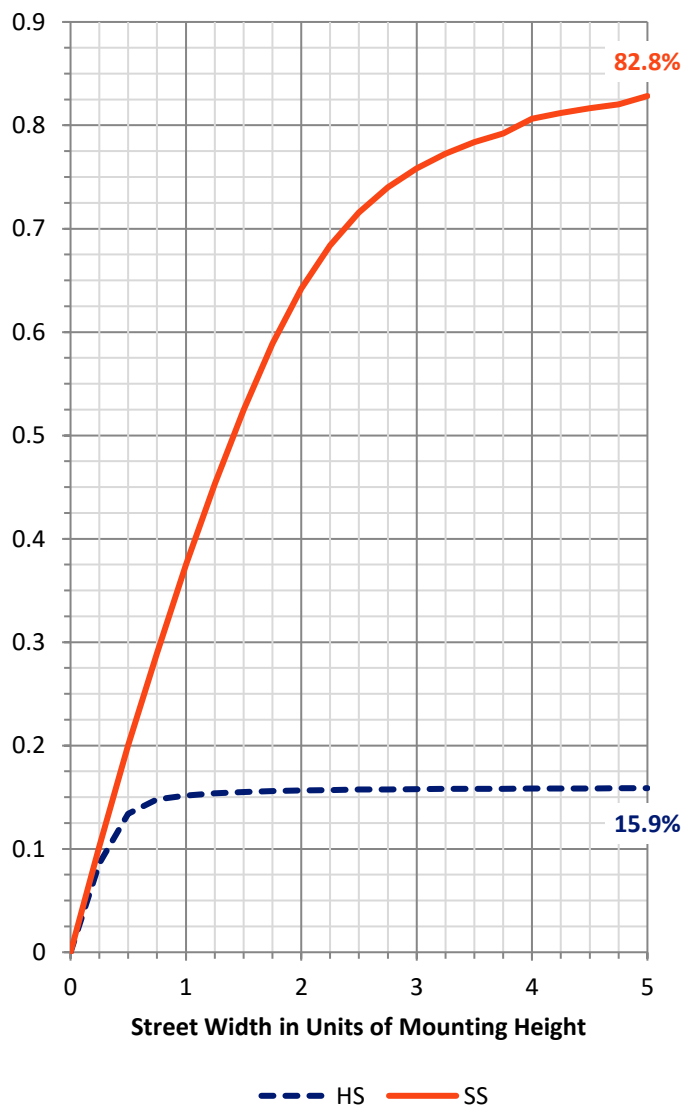
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2580.6	0.0	2580.6
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	13499.4	0.0	13499.4
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	16080.0	0.0	16080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	1.0
10°-20°	488.6	3.0
20°-30°	812.8	5.1
30°-40°	1278.1	7.9
40°-50°	2213.0	13.8
50°-60°	3271.1	20.3
60°-70°	4252.7	26.4
70°-80°	3044.0	18.9
80°-90°	555.1	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°	16080.0	100.0
0°-180°	16080.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509568

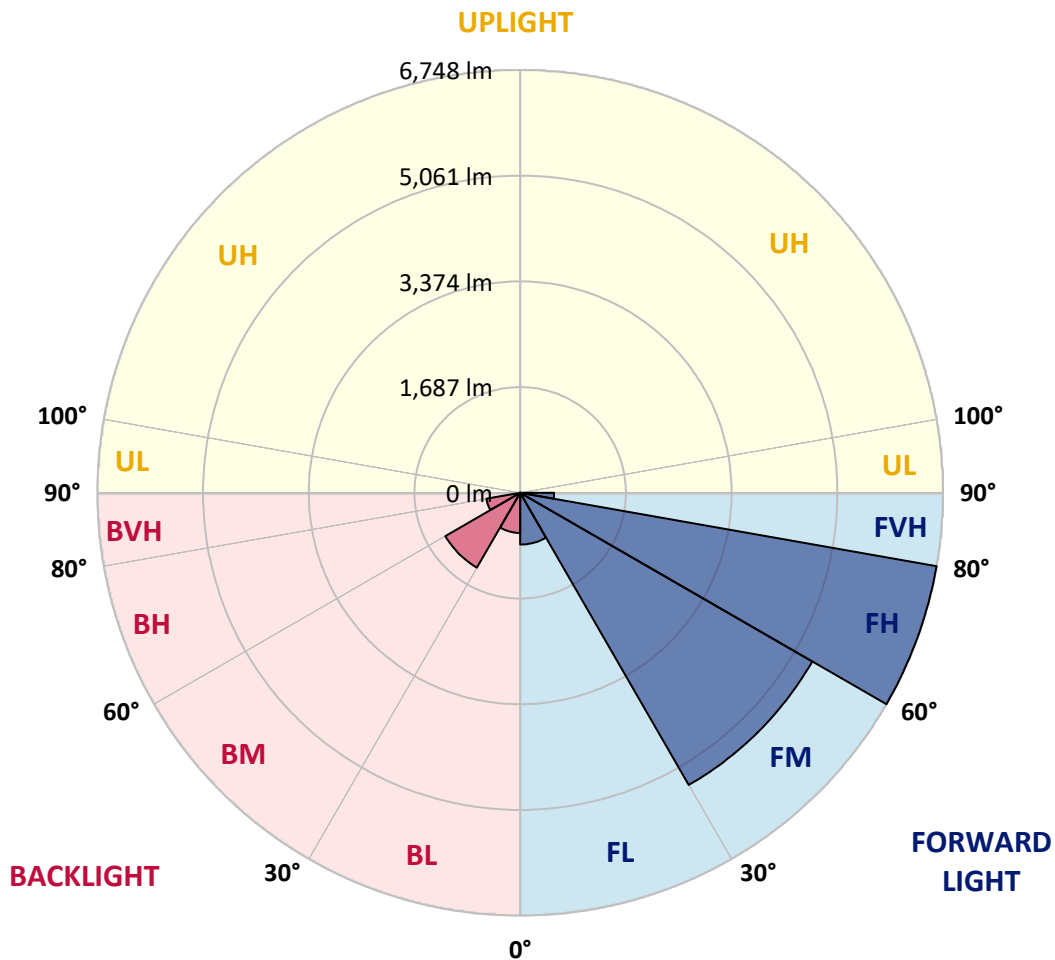
CATALOG NUMBER: VERD-G-CA2-120-750-U-T4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.9	5.1			
FM (30°-60°)	5383.7	33.5			
FH (60°-80°)	6748.4	42.0			G3/7500
FVH (80°-90°)	541.4	3.4			G4/750
BL (0°-30°)	640.2	4.0	B2/1000		
BM (30°-60°)	1378.5	8.6	B2/2500		
BH (60°-80°)	548.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.6	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-G4**

Type IV Short





REPORT NUMBER: P509568

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6
2.5°	1811.0	1809.8	1797.9	1791.9	1775.2	1769.3	1770.5	1763.3	1746.6	1749.0	1732.2
5°	1813.4	1821.8	1803.9	1799.1	1793.1	1786.0	1794.3	1784.8	1770.5	1775.2	1757.3
7.5°	1824.2	1827.8	1819.4	1814.6	1800.3	1814.6	1813.4	1805.1	1795.5	1787.2	1780.0
10°	1827.8	1824.2	1807.5	1803.9	1803.9	1818.2	1824.2	1827.8	1827.8	1814.6	1809.8
12.5°	1809.8	1807.5	1790.7	1797.9	1813.4	1823.0	1842.1	1854.0	1873.1	1858.8	1851.6
15°	1782.4	1788.4	1795.5	1797.9	1826.6	1848.1	1866.0	1887.4	1919.7	1919.7	1917.3
17.5°	1790.7	1802.7	1811.0	1823.0	1850.4	1857.6	1882.7	1917.3	1971.0	1974.6	1980.6
20°	1832.5	1832.5	1834.9	1843.3	1867.2	1888.6	1910.1	1954.3	2016.4	2036.7	2042.6
22.5°	1877.9	1875.5	1886.3	1885.1	1904.2	1918.5	1945.9	1984.1	2061.7	2099.9	2115.5
25°	1914.9	1922.1	1931.6	1919.7	1956.7	1962.7	1984.1	2030.7	2113.1	2181.1	2214.6
27.5°	1978.2	1983.0	1980.6	1986.5	2023.5	2027.1	2047.4	2114.3	2190.7	2283.8	2356.6
30°	2086.8	2070.1	2072.5	2085.6	2139.3	2146.5	2168.0	2232.5	2293.4	2416.3	2530.9
32.5°	2236.0	2236.0	2209.8	2234.9	2296.9	2316.0	2348.3	2445.0	2504.7	2570.3	2758.9
35°	2521.4	2521.4	2502.3	2436.6	2467.6	2515.4	2575.1	2708.8	2892.7	3107.5	3308.1
37.5°	2994.1	2987.0	2911.8	2793.6	2726.7	2743.4	2801.9	3018.0	3316.5	3840.6	3994.6
40°	3558.8	3538.5	3397.6	3232.9	3062.2	3033.5	3061.0	3332.0	3757.0	4534.2	4592.7
42.5°	4060.2	4059.0	3852.5	3712.8	3494.3	3446.6	3414.4	3649.5	4198.7	5038.0	5058.3
45°	4538.9	4527.0	4326.4	4174.8	3975.5	3853.7	3845.3	4010.1	4663.1	5491.6	5405.7
47.5°	4965.1	4983.1	4758.6	4613.0	4392.1	4308.5	4241.7	4382.6	5090.5	5878.4	5700.5
50°	5455.8	5488.0	5152.6	4992.6	4769.4	4687.0	4724.0	4827.9	5516.7	6194.8	5963.2
52.5°	6075.4	5972.7	5639.7	5365.1	5157.4	5116.8	5125.1	5269.6	6009.7	6453.9	6145.8
55°	6804.8	6653.2	6318.9	5890.4	5551.3	5513.1	5509.5	5656.4	6465.8	6696.2	6286.7
57.5°	7079.4	7158.2	7026.9	6710.5	6111.2	5999.0	5911.9	6047.9	6875.3	6963.6	6434.8
60°	7713.3	7798.1	7701.4	7498.5	7295.5	6905.1	6523.1	6510.0	7257.3	7219.1	6496.8
62.5°	7783.8	7756.3	8186.1	8257.7	8378.3	8226.7	7943.8	7122.4	7602.3	7349.2	6545.8
65°	7389.8	7393.4	7970.0	8364.0	9197.3	9274.9	9099.4	8096.6	7861.4	7400.6	6511.2
67.5°	6358.3	6428.8	6954.1	7898.4	9560.2	9661.7	9513.6	9124.5	8001.1	7418.5	6360.7
70°	5464.2	5466.6	5963.2	7115.2	9369.2	9445.6	9377.5	9191.3	7947.3	7276.4	5952.4
72.5°	4300.2	4287.0	4722.8	5886.8	8694.7	8857.0	8820.0	8947.8	7750.4	6763.1	5064.2
75°	3105.2	3131.4	3573.1	4534.2	7479.4	7983.2	8162.2	8551.4	7048.4	5743.5	3712.8
77.5°	2174.0	2200.2	2624.0	3444.2	6036.0	6643.7	6931.4	7272.8	5712.5	4257.2	1903.0
80°	1421.9	1445.7	1809.8	2587.0	4499.6	5017.7	5233.8	5029.6	3354.7	1788.4	208.9
82.5°	826.1	872.7	1149.7	1775.2	3152.9	3398.8	3410.8	2646.7	1253.5	160.0	97.9
85°	402.3	432.2	687.6	1053.0	1725.1	1813.4	1682.1	984.9	292.5	76.4	56.1
87.5°	59.7	78.8	271.0	397.5	292.5	240.0	144.5	33.4	19.1	9.6	7.2
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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CATALOG NUMBER: VERD-G-CA2-120-750-U-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6	1740.6
2.5°	1722.7	1721.5	1725.1	1709.6	1710.8	1691.7	1684.5	1680.9	1697.6	1695.2	1707.2
5°	1744.2	1732.2	1731.1	1692.9	1689.3	1665.4	1651.1	1629.6	1646.3	1642.7	1642.7
7.5°	1757.3	1745.4	1738.2	1692.9	1661.8	1620.0	1596.2	1579.4	1578.2	1574.7	1575.9
10°	1778.8	1772.8	1734.6	1684.5	1642.7	1589.0	1543.6	1517.4	1505.4	1506.6	1498.3
12.5°	1826.6	1814.6	1763.3	1703.6	1636.7	1562.7	1504.2	1457.7	1433.8	1429.0	1415.9
15°	1894.6	1881.5	1817.0	1749.0	1652.3	1565.1	1478.0	1395.6	1355.0	1338.3	1326.3
17.5°	1974.6	1954.3	1880.3	1802.7	1684.5	1562.7	1452.9	1341.9	1264.3	1220.1	1216.5
20°	2037.9	2028.3	1943.6	1860.0	1704.8	1547.2	1411.1	1264.3	1148.5	1067.3	1050.6
22.5°	2121.4	2122.6	2028.3	1903.0	1721.5	1520.9	1345.4	1155.6	998.0	889.4	870.3
25°	2242.0	2224.1	2117.9	1937.6	1725.1	1491.1	1255.9	1019.5	814.2	692.4	670.9
27.5°	2386.5	2360.2	2190.7	1955.5	1709.6	1431.4	1136.5	841.7	601.7	496.6	479.9
30°	2539.3	2477.2	2250.4	1962.7	1661.8	1334.7	967.0	614.8	426.2	352.2	345.0
32.5°	2735.1	2644.3	2301.7	1938.8	1589.0	1187.9	749.7	421.4	294.9	255.5	257.9
35°	3136.2	2914.1	2381.7	1912.5	1486.3	1004.0	524.1	279.4	228.0	223.2	224.4
37.5°	3742.7	3390.5	2522.6	1874.3	1333.5	767.6	336.7	216.1	217.3	217.3	217.3
40°	4328.8	3911.0	2738.6	1799.1	1146.1	537.2	222.1	204.1	210.1	208.9	210.1
42.5°	4746.7	4297.8	2965.5	1707.2	930.0	340.2	199.4	192.2	195.8	194.6	198.2
45°	5085.7	4629.7	3172.0	1577.1	696.0	222.1	195.8	182.7	179.1	177.9	181.5
47.5°	5336.4	4848.1	3320.0	1414.7	464.4	191.0	187.4	168.3	163.6	163.6	164.7
50°	5580.0	5058.3	3364.2	1229.6	286.5	186.2	176.7	156.4	149.2	146.8	149.2
52.5°	5749.5	5129.9	3373.8	1020.7	192.2	181.5	163.6	142.1	133.7	132.5	133.7
55°	5893.9	5276.7	3296.2	760.5	171.9	170.7	151.6	127.7	118.2	123.0	125.4
57.5°	5929.8	5291.1	3141.0	502.6	170.7	156.4	138.5	114.6	107.4	112.2	113.4
60°	6020.5	5232.6	2947.6	309.2	167.1	139.7	123.0	101.5	96.7	97.9	100.3
62.5°	5942.9	5200.3	2616.9	216.1	154.0	127.7	114.6	93.1	84.8	83.6	83.6
65°	5864.1	5010.5	2000.9	179.1	137.3	119.4	103.9	82.4	72.8	68.0	68.0
67.5°	5613.4	4585.5	1142.5	165.9	124.2	109.8	94.3	75.2	63.3	57.3	54.9
70°	4981.9	3673.4	352.2	151.6	125.4	102.7	87.1	65.7	54.9	46.6	45.4
72.5°	3901.4	2296.9	164.7	133.7	128.9	95.5	81.2	60.9	48.9	39.4	38.2
75°	2295.7	550.4	134.9	99.1	109.8	101.5	80.0	58.5	43.0	32.2	31.0
77.5°	499.0	133.7	120.6	66.9	82.4	97.9	76.4	51.3	38.2	25.1	23.9
80°	120.6	105.1	109.8	51.3	54.9	68.0	62.1	44.2	34.6	20.3	19.1
82.5°	81.2	78.8	96.7	32.2	27.5	25.1	26.3	27.5	28.7	15.5	14.3
85°	53.7	68.0	51.3	17.9	15.5	13.1	13.1	11.9	16.7	9.6	9.6
87.5°	8.4	7.2	8.4	7.2	7.2	6.0	4.8	4.8	3.6	4.8	4.8
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)