

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: P175643

Luminaire Tested: **VERD-G-A028-E-U-T4-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P175643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26232)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-A028-E-U-T4-AP  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K LEDS AT 80% STANDARD LUMENS AND TYPE IV OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11944 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 103  
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

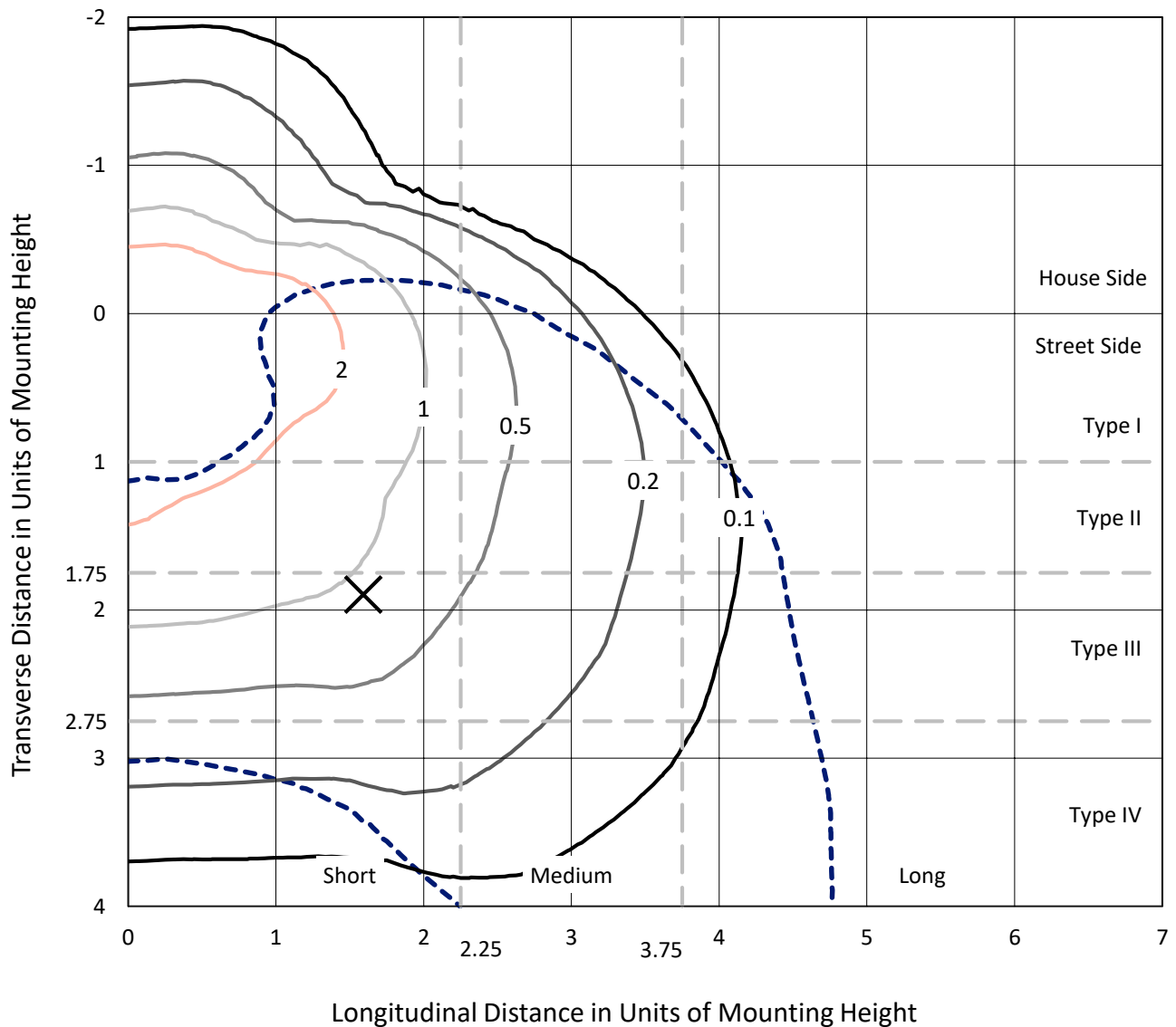


REPORT NUMBER: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

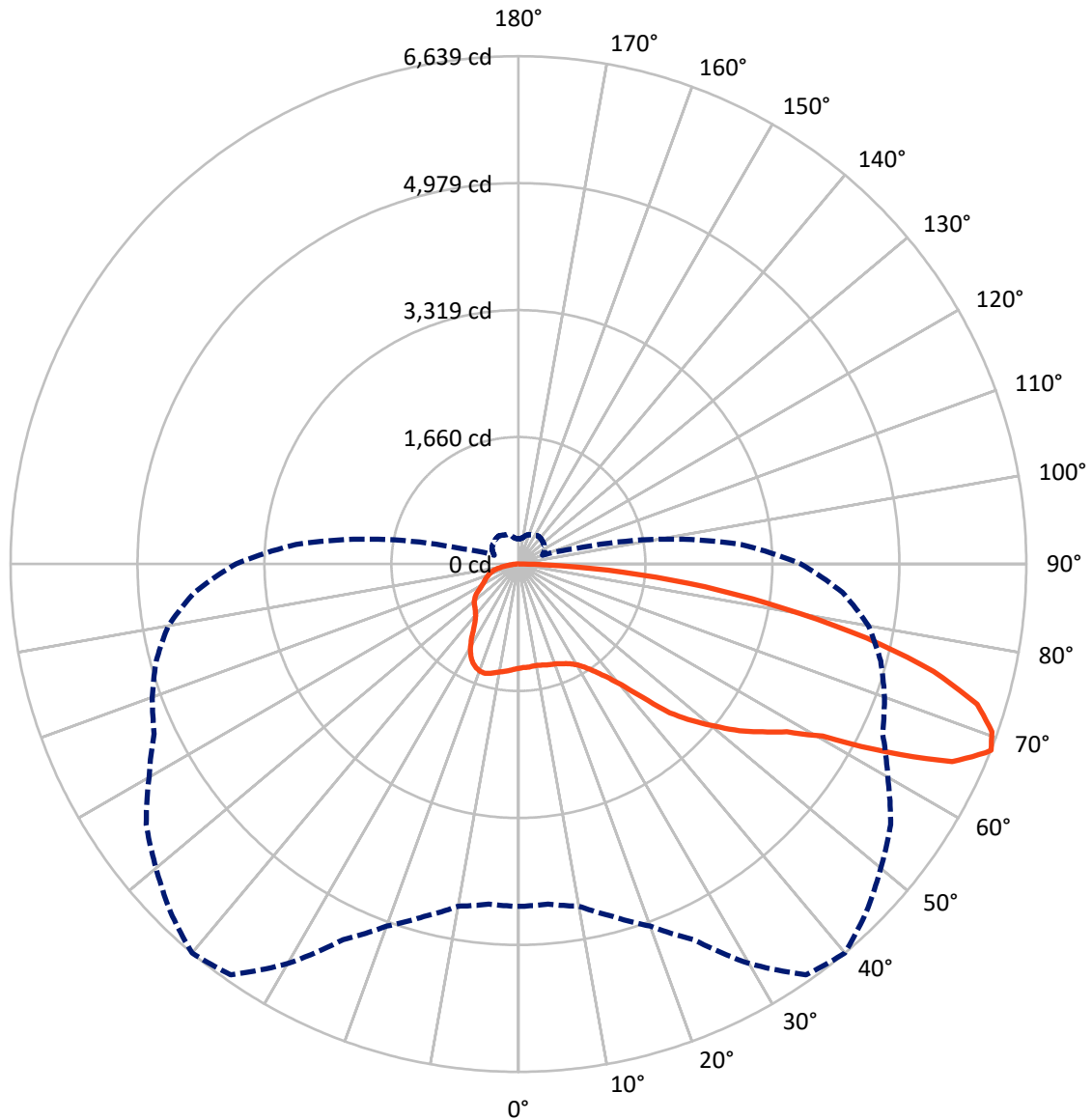


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

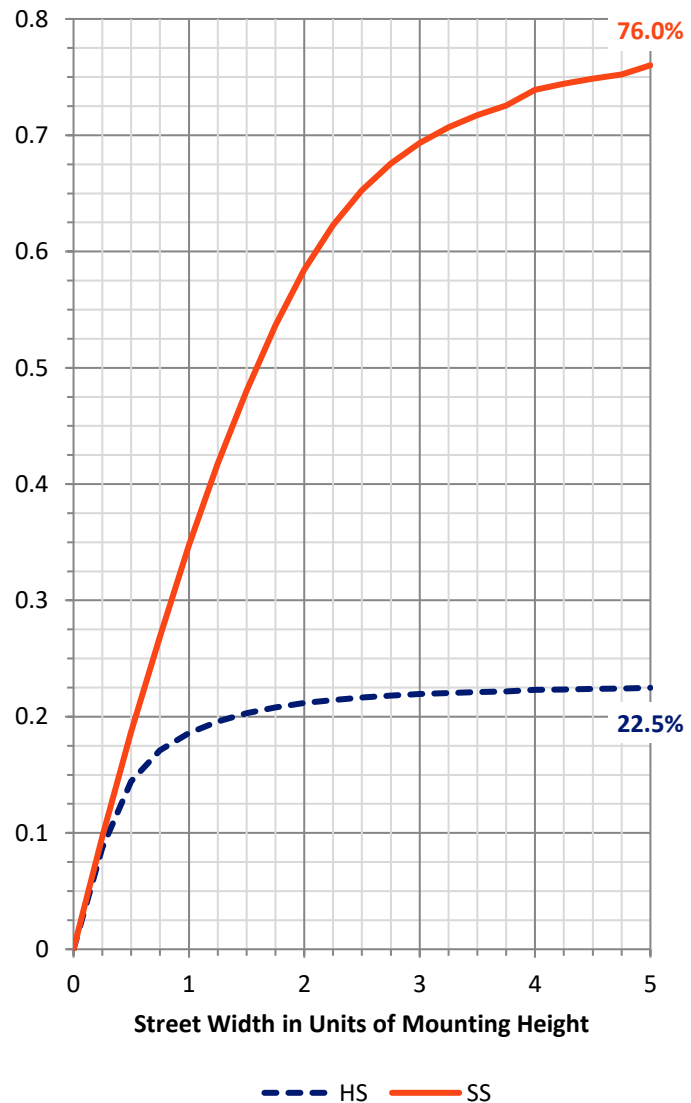
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2718.2	0.0	2718.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	9225.8	0.0	9225.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	11944.0	0.0	11944.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	1.1
10°-20°	404.3	3.4
20°-30°	680.6	5.7
30°-40°	1020.4	8.5
40°-50°	1671.5	14.0
50°-60°	2383.6	20.0
60°-70°	3003.5	25.1
70°-80°	2206.8	18.5
80°-90°	441.5	3.7
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°	11944.0	100.0
0°-180°	11944.0	100.0



REPORT NUMBER: P175643

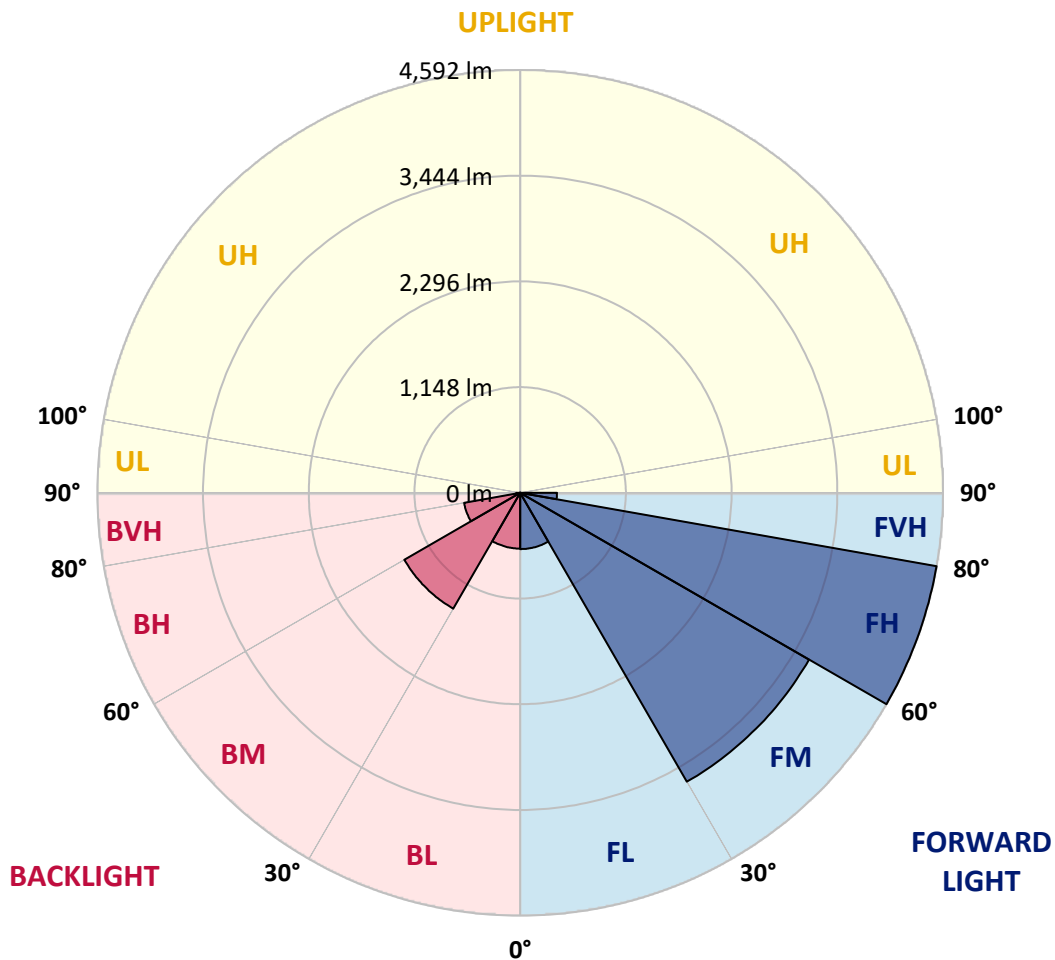
CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.0	5.1			
FM (30°-60°)	3622.4	30.3			
FH (60°-80°)	4592.0	38.4			G2/5000
FVH (80°-90°)	400.3	3.4			G3/500
BL (0°-30°)	605.7	5.1	B2/1000		
BM (30°-60°)	1453.2	12.2	B2/2500		
BH (60°-80°)	618.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	41.1	0.3			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





REPORT NUMBER: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1369.1	1368.3	1362.0	1360.5	1355.0	1355.7	1354.2	1351.8	1352.6	1347.9	1347.9
5°	1367.5	1367.5	1361.3	1359.7	1356.5	1359.7	1358.9	1354.2	1355.7	1355.0	1354.2
7.5°	1355.0	1353.4	1346.3	1345.5	1343.2	1347.9	1349.4	1345.5	1347.1	1352.6	1354.2
10°	1343.9	1344.7	1338.4	1338.4	1336.9	1344.7	1348.7	1346.3	1347.9	1355.7	1356.5
12.5°	1326.6	1329.0	1325.1	1326.6	1327.4	1338.4	1348.7	1351.8	1355.7	1362.8	1366.8
15°	1318.8	1319.5	1317.2	1320.3	1324.3	1336.9	1349.4	1358.9	1369.1	1379.3	1385.6
17.5°	1331.4	1330.6	1326.6	1327.4	1329.8	1340.8	1356.5	1370.7	1380.1	1390.4	1402.2
20°	1335.3	1337.6	1335.3	1337.6	1341.6	1353.4	1373.8	1386.4	1393.5	1403.0	1418.7
22.5°	1359.7	1356.5	1355.7	1358.1	1357.3	1368.3	1386.4	1405.3	1417.1	1422.6	1439.1
25°	1384.1	1381.7	1381.7	1386.4	1386.4	1395.1	1412.4	1428.1	1441.5	1458.8	1480.9
27.5°	1410.0	1408.5	1408.5	1417.9	1422.6	1430.5	1447.8	1465.1	1479.3	1496.6	1528.1
30°	1462.8	1459.6	1453.3	1464.3	1466.7	1473.8	1495.8	1513.9	1532.0	1554.8	1584.7
32.5°	1554.0	1548.5	1538.3	1539.1	1535.1	1540.7	1573.7	1585.5	1610.7	1634.3	1660.3
35°	1755.5	1735.8	1713.0	1698.8	1679.9	1662.6	1683.9	1700.4	1726.3	1750.0	1783.8
37.5°	2052.1	2015.1	1981.3	1965.6	1930.9	1885.3	1870.3	1846.7	1869.6	1908.9	1949.8
40°	2382.6	2382.6	2344.8	2301.5	2245.7	2169.3	2128.4	2088.3	2074.1	2087.5	2148.1
42.5°	2697.3	2707.6	2671.4	2626.5	2579.3	2499.8	2445.5	2411.7	2383.4	2369.2	2389.7
45°	2990.0	3027.8	3005.0	2955.4	2924.7	2891.7	2874.4	2813.0	2775.2	2718.6	2698.9
47.5°	3208.0	3245.0	3220.6	3148.2	3130.1	3124.6	3123.8	3083.7	3060.1	3007.3	2975.1
50°	3434.6	3488.9	3445.6	3318.1	3329.2	3333.1	3341.0	3329.9	3332.3	3320.5	3302.4
52.5°	3790.3	3795.8	3643.1	3540.0	3519.6	3524.3	3558.9	3576.2	3621.1	3582.5	3590.4
55°	4307.2	4139.6	3946.1	3866.6	3781.6	3745.4	3750.9	3802.1	3872.9	3838.3	3843.0
57.5°	4478.8	4507.1	4516.5	4352.9	4304.1	4200.2	4178.2	4071.9	4138.8	4090.8	4106.6
60°	4839.1	4918.6	4900.5	4940.6	4839.1	4835.2	4869.8	4636.9	4570.0	4437.8	4405.6
62.5°	5242.0	5241.2	5350.6	5381.3	5423.0	5359.2	5497.7	5471.8	5418.2	5032.7	4799.8
65°	5079.9	5076.8	5148.4	5389.9	5473.3	5656.7	5860.5	6142.2	6228.7	6045.4	5669.3
67.5°	4528.3	4548.8	4636.9	4924.1	5161.7	5489.1	5987.9	6512.8	6585.1	6401.0	6147.7
68°	4475.6	4463.0	4541.7	4770.7	5036.6	5416.7	6030.4	6556.0	6638.7	6432.5	6183.9
70°	3878.4	3865.8	4012.1	4271.8	4559.8	5111.4	6084.7	6545.0	6566.3	6378.2	6153.2
72.5°	3021.5	3006.6	3144.3	3354.3	3676.2	4274.2	5619.7	6257.8	6270.4	6092.6	5910.8
75°	2195.3	2177.2	2306.3	2492.0	2758.7	3285.1	4650.3	5456.8	5607.9	5628.3	5573.3
77.5°	1514.7	1552.5	1679.9	1814.5	2052.1	2451.0	3514.9	4361.5	4655.0	4839.9	4965.0
80°	1018.2	1080.3	1178.7	1306.2	1495.8	1809.0	2614.7	3259.1	3514.9	3699.8	3790.3
82.5°	668.0	677.5	757.7	867.9	1031.6	1283.4	1846.7	2312.6	2459.7	2483.3	2392.8
85°	350.9	378.5	428.0	497.3	599.6	751.4	1022.9	1323.5	1377.8	1367.5	1235.4
87.5°	128.3	139.3	163.7	196.7	245.5	317.9	411.5	460.3	348.6	256.5	183.3
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: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1350.2	1343.9	1343.2	1355.0	1351.8	1351.8	1350.2	1355.7	1350.2	1350.2	1358.1
5°	1353.4	1349.4	1349.4	1362.0	1365.2	1362.0	1365.2	1365.2	1363.6	1366.8	1372.3
7.5°	1352.6	1354.2	1355.0	1362.8	1372.3	1368.3	1377.8	1372.3	1379.3	1385.6	1387.2
10°	1352.6	1362.0	1366.0	1368.3	1377.0	1377.8	1384.9	1379.3	1390.4	1399.0	1400.6
12.5°	1366.8	1378.6	1392.7	1395.9	1403.0	1413.2	1414.0	1413.2	1427.3	1433.6	1440.7
15°	1390.4	1404.5	1421.8	1429.7	1439.1	1458.8	1456.5	1465.1	1480.9	1487.9	1500.5
17.5°	1415.5	1431.3	1451.7	1466.7	1480.9	1504.5	1502.9	1519.4	1535.1	1546.2	1560.3
20°	1438.4	1459.6	1483.2	1504.5	1528.1	1550.9	1555.6	1575.3	1597.3	1614.6	1626.4
22.5°	1465.1	1488.7	1514.7	1545.4	1575.3	1597.3	1617.8	1646.9	1671.3	1688.6	1695.7
25°	1507.6	1532.0	1561.1	1604.4	1637.4	1665.0	1702.7	1738.9	1761.8	1768.1	1765.7
27.5°	1561.1	1588.7	1624.1	1680.7	1716.9	1757.8	1812.1	1843.6	1856.2	1844.4	1813.7
30°	1623.3	1661.0	1705.1	1764.9	1812.1	1878.2	1944.3	1971.1	1956.9	1911.3	1844.4
32.5°	1709.0	1761.8	1813.7	1878.2	1956.1	2049.0	2117.4	2126.9	2072.6	1979.7	1873.5
35°	1844.4	1908.1	1974.2	2060.8	2203.2	2328.3	2384.2	2351.1	2235.4	2086.7	1927.0
37.5°	2026.1	2104.0	2202.4	2329.9	2541.5	2684.7	2708.3	2632.8	2461.3	2240.9	2004.1
40°	2239.4	2344.8	2475.4	2693.4	2920.0	3049.8	3042.0	2931.0	2710.7	2419.6	2107.2
42.5°	2506.9	2623.4	2787.8	3041.2	3296.9	3388.2	3350.4	3214.3	2953.8	2610.0	2219.7
45°	2768.1	2887.0	3072.6	3356.7	3602.2	3673.0	3613.2	3459.0	3171.8	2791.0	2347.2
47.5°	3029.4	3111.2	3347.3	3657.3	3887.8	3926.4	3839.0	3643.9	3352.8	2946.8	2439.2
50°	3337.0	3400.0	3646.3	3972.0	4143.6	4151.4	4058.6	3805.2	3480.2	3041.2	2508.5
52.5°	3625.8	3731.2	3986.2	4263.2	4368.6	4332.4	4227.7	3949.2	3573.1	3138.7	2528.1
55°	3905.1	4060.1	4337.9	4518.9	4561.4	4502.4	4341.1	4052.3	3650.2	3139.5	2511.6
57.5°	4174.2	4389.0	4648.7	4766.7	4747.9	4628.3	4386.7	4075.9	3658.1	3095.5	2445.5
60°	4468.5	4691.2	4918.6	4944.6	4862.7	4698.3	4426.0	4083.8	3612.4	3004.2	2333.0
62.5°	4791.1	4963.4	5094.1	5041.3	4927.3	4754.9	4442.6	4007.4	3536.1	2848.4	2071.8
65°	5231.8	5236.5	5224.7	5115.3	4941.4	4704.6	4373.3	3960.2	3344.9	2552.5	1612.3
67.5°	5883.3	5525.3	5264.8	5101.1	4909.2	4651.9	4291.5	3732.0	3018.4	2009.6	924.5
68°	5939.9	5575.6	5253.0	5092.5	4902.9	4646.3	4250.6	3691.1	2918.4	1864.0	779.0
70°	5953.3	5575.6	5181.4	5042.1	4877.7	4540.9	4034.2	3299.3	2384.2	1196.0	324.2
72.5°	5775.5	5370.3	5095.6	4998.1	4713.2	4182.9	3436.2	2514.8	1447.0	375.3	247.1
75°	5537.1	5125.5	4791.1	4503.9	4086.9	3340.2	2466.8	1447.0	422.5	183.3	214.8
77.5°	4829.7	4382.0	3998.0	3627.4	2992.4	2161.5	1222.0	369.0	133.0	147.1	181.0
80°	3439.3	2942.8	2384.9	1868.0	1076.4	410.7	147.9	94.4	96.0	111.7	145.6
82.5°	1890.8	1255.0	749.1	290.3	100.7	86.6	77.9	64.5	67.7	90.5	106.2
85°	823.8	397.4	120.4	73.2	63.7	58.2	49.6	44.9	57.4	59.8	57.4
87.5°	77.9	39.3	31.5	29.9	24.4	21.2	15.7	15.0	14.2	14.2	16.5
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: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1356.5	1358.1	1364.4	1362.8	1367.5	1374.6	1375.4	1379.3	1384.1	1388.8	1395.1
5°	1378.6	1378.6	1381.7	1379.3	1383.3	1387.2	1393.5	1395.1	1401.4	1410.8	1419.5
7.5°	1395.1	1394.3	1395.1	1401.4	1406.1	1406.1	1412.4	1413.2	1419.5	1427.3	1434.4
10°	1411.6	1421.8	1418.7	1423.4	1425.0	1425.8	1428.9	1430.5	1439.1	1442.3	1447.8
12.5°	1447.8	1457.2	1451.7	1458.8	1459.6	1455.7	1451.0	1450.2	1450.2	1447.0	1444.7
15°	1500.5	1505.2	1502.1	1496.6	1492.7	1491.9	1476.9	1465.1	1454.9	1440.7	1429.7
17.5°	1559.5	1557.2	1548.5	1541.4	1525.7	1514.7	1495.0	1469.0	1445.4	1414.8	1393.5
20°	1622.5	1606.0	1601.2	1576.8	1548.5	1521.0	1489.5	1453.3	1410.8	1366.0	1329.8
22.5°	1678.4	1654.0	1631.9	1599.7	1555.6	1513.9	1465.1	1418.7	1365.2	1303.8	1251.9
25°	1731.1	1684.6	1646.9	1599.7	1542.2	1487.9	1426.6	1367.5	1297.5	1221.2	1153.5
27.5°	1760.2	1697.2	1635.9	1572.1	1506.8	1432.9	1365.2	1291.2	1208.6	1122.0	1041.0
30°	1763.3	1687.0	1606.7	1518.6	1439.9	1354.2	1274.7	1182.6	1092.1	1002.4	941.1
32.5°	1764.9	1657.9	1550.9	1445.4	1348.7	1249.5	1158.2	1056.7	980.4	925.3	878.1
35°	1766.5	1622.5	1485.6	1347.1	1236.9	1129.9	1033.9	954.4	900.2	864.0	826.2
37.5°	1783.8	1589.4	1414.8	1250.3	1128.3	1021.3	941.1	880.5	843.5	816.8	788.4
40°	1803.5	1550.1	1340.0	1159.0	1033.1	938.7	878.9	841.1	813.6	793.1	770.3
42.5°	1817.6	1481.6	1237.7	1067.8	946.6	872.6	838.8	818.3	802.6	787.6	762.5
45°	1842.8	1406.1	1122.8	952.1	866.3	821.5	807.3	800.2	788.4	773.5	745.9
47.5°	1872.7	1325.8	1006.4	855.3	793.9	786.9	786.1	779.8	763.2	747.5	719.2
50°	1888.4	1246.4	883.6	774.3	749.1	754.6	759.3	753.0	728.6	705.8	680.6
52.5°	1937.2	1211.0	772.7	709.7	711.3	716.8	720.0	711.3	687.7	664.1	638.1
55°	2015.1	1159.8	690.1	646.0	660.2	668.0	675.9	662.5	646.8	629.5	609.8
57.5°	1905.8	971.8	604.3	586.2	594.9	601.9	607.4	607.4	607.4	609.0	594.9
60°	1543.0	691.6	522.5	510.7	521.7	535.8	553.9	564.2	568.1	569.7	563.4
62.5°	1086.6	491.0	450.1	457.2	471.3	494.9	512.2	523.3	521.7	512.2	498.1
65°	608.2	408.4	415.5	436.7	448.5	467.4	483.1	489.4	477.6	463.5	450.9
67.5°	343.1	374.5	402.9	421.0	431.2	442.2	451.7	458.7	444.6	428.0	418.6
68°	334.4	369.8	399.7	415.5	425.7	436.7	443.8	448.5	433.6	418.6	410.7
70°	311.6	361.2	386.3	398.9	399.7	417.8	419.4	422.5	409.9	392.6	382.4
72.5°	285.6	342.3	354.9	365.1	373.8	380.0	395.0	388.7	373.0	358.0	334.4
75°	263.6	293.5	305.3	328.9	335.2	345.4	353.3	338.3	314.7	300.6	286.4
77.5°	229.0	243.9	256.5	261.2	280.1	288.0	296.6	296.6	282.5	284.1	262.8
80°	176.3	177.8	173.1	187.3	212.4	222.7	225.8	219.5	229.8	228.2	219.5
82.5°	101.5	94.4	102.3	106.2	118.8	128.3	144.0	157.4	158.9	154.2	163.7
85°	42.5	37.8	43.3	49.6	62.9	77.9	96.0	103.1	101.5	98.4	90.5
87.5°	17.3	17.3	20.5	24.4	32.3	40.9	46.4	54.3	59.0	60.6	56.7
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: P175643

CATALOG NUMBER: VERD-G-A028-E-U-T4-AP

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1362.8	1362.8	1362.8	1362.8
2.5°	1397.4	1396.7	1395.9	1394.3
5°	1421.8	1422.6	1422.6	1421.8
7.5°	1439.9	1443.9	1444.7	1444.7
10°	1454.1	1457.2	1458.0	1457.2
12.5°	1449.4	1450.2	1453.3	1454.1
15°	1427.3	1421.8	1420.3	1419.5
17.5°	1375.4	1361.3	1349.4	1343.9
20°	1293.6	1266.0	1243.2	1237.7
22.5°	1202.3	1159.8	1129.9	1119.7
25°	1092.1	1039.4	1007.2	996.9
27.5°	984.3	932.4	909.6	897.0
30°	895.4	856.9	831.7	819.1
32.5°	836.4	798.7	772.7	760.9
35°	787.6	748.3	713.7	697.9
37.5°	755.4	709.0	668.8	653.1
40°	736.5	694.8	651.5	634.2
42.5°	727.0	691.6	653.1	634.2
45°	712.1	674.3	641.3	620.8
47.5°	689.3	653.9	620.8	601.9
50°	647.6	611.4	584.6	569.7
52.5°	603.5	563.4	535.1	518.5
55°	573.6	533.5	511.5	500.4
57.5°	568.1	530.3	508.3	495.7
60°	535.8	499.6	471.3	457.9
62.5°	466.6	431.2	409.2	400.5
65°	423.3	389.5	368.2	362.0
67.5°	395.0	359.6	337.6	332.8
68°	387.9	352.5	333.6	327.3
70°	355.7	321.8	305.3	299.0
72.5°	287.2	254.2	232.1	224.3
75°	250.2	214.0	195.9	192.0
77.5°	219.5	177.0	158.9	155.0
80°	177.8	140.1	96.0	89.7
82.5°	133.0	85.8	71.6	65.3
85°	77.1	59.0	46.4	43.3
87.5°	48.8	40.9	35.4	33.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)