

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: P175641

Luminaire Tested: **VERD-G-A028-E-U-T4-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175641
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-T4-7030-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K 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: 11483 lumens
Efficiency: N/A
Efficacy: 111.5 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

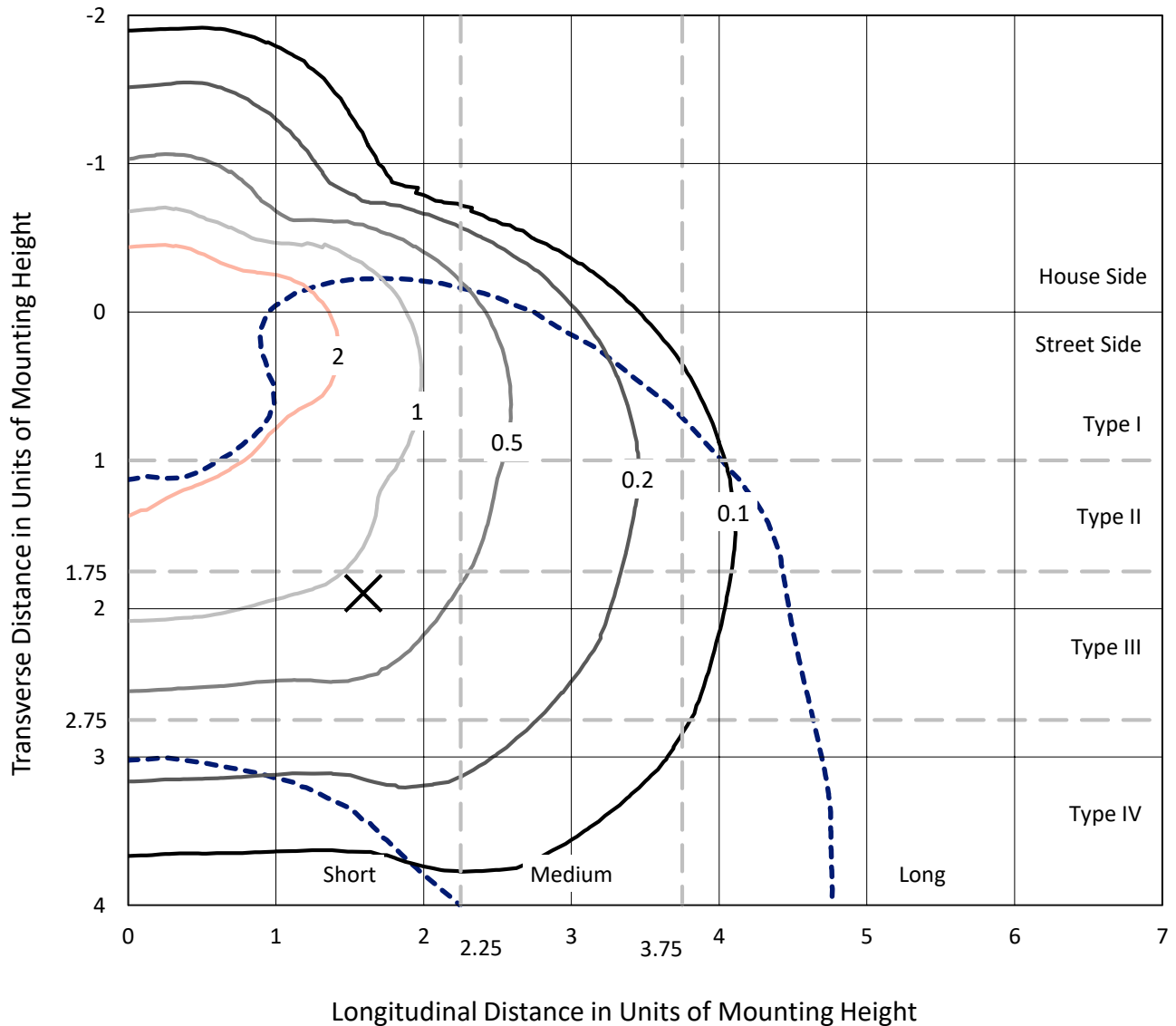


REPORT NUMBER: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

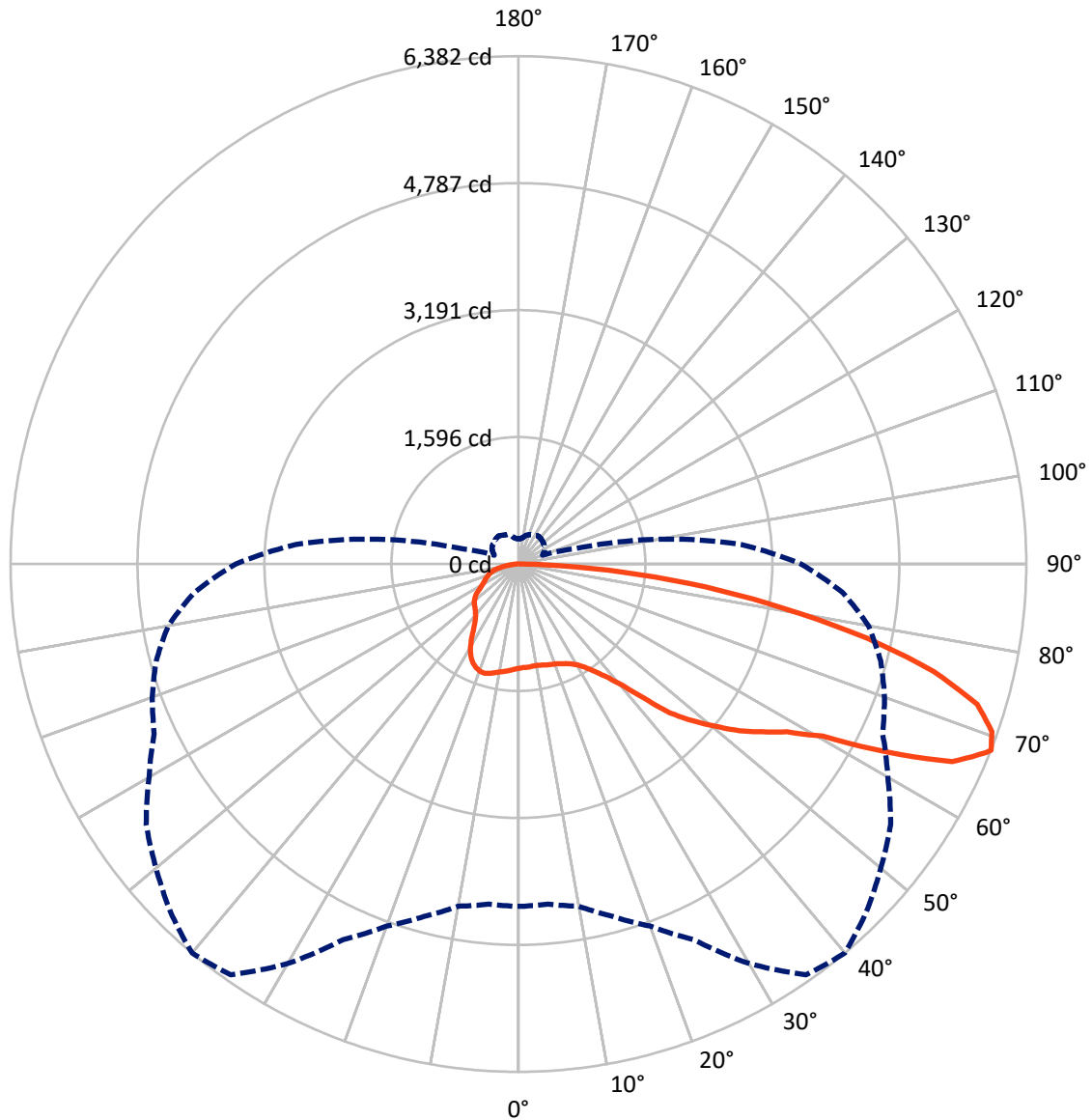


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

Luminous Intensity Polar Plot



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

REPORT NUMBER: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

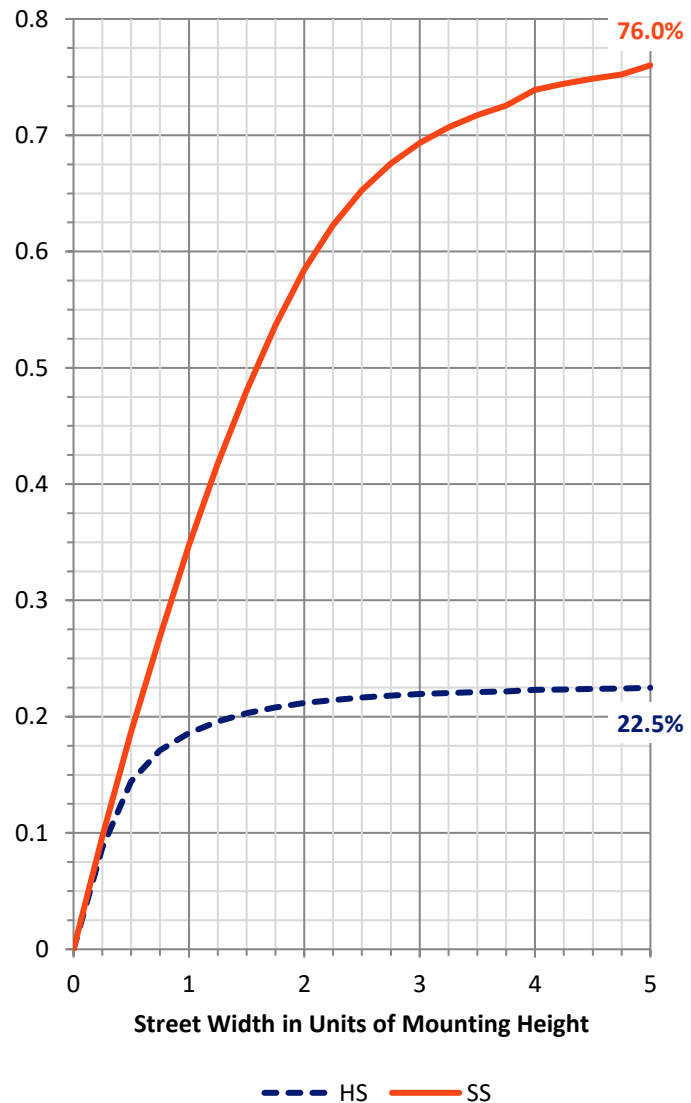
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.3	0.0	2613.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8869.7	0.0	8869.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	11483.0	0.0	11483.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.1
10°-20°	388.7	3.4
20°-30°	654.4	5.7
30°-40°	981.0	8.5
40°-50°	1607.0	14.0
50°-60°	2291.6	20.0
60°-70°	2887.6	25.1
70°-80°	2121.6	18.5
80°-90°	424.4	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°	11483.0	100.0
0°-180°	11483.0	100.0



REPORT NUMBER: P175641

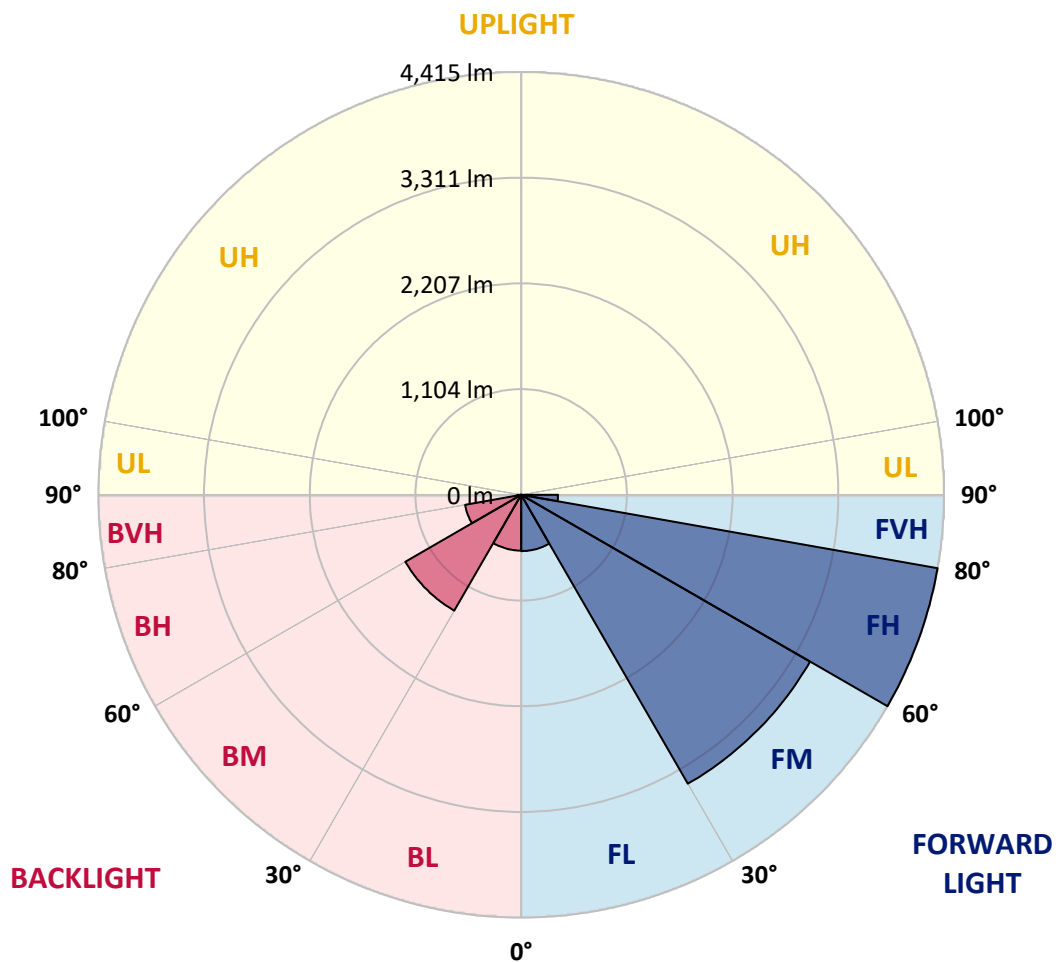
CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	587.5	5.1			
FM	(30°-60°)	3482.5	30.3			
FH	(60°-80°)	4414.8	38.4			G2/5000
FVH	(80°-90°)	384.9	3.4			G3/500
BL	(0°-30°)	582.3	5.1	B2/1000		
BM	(30°-60°)	1397.1	12.2	B2/2500		
BH	(60°-80°)	594.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	39.5	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: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1316.3	1315.5	1309.5	1308.0	1302.7	1303.4	1301.9	1299.6	1300.4	1295.9	1295.9
5°	1314.8	1314.8	1308.7	1307.2	1304.2	1307.2	1306.4	1301.9	1303.4	1302.7	1301.9
7.5°	1302.7	1301.1	1294.3	1293.6	1291.3	1295.9	1297.4	1293.6	1295.1	1300.4	1301.9
10°	1292.1	1292.8	1286.8	1286.8	1285.3	1292.8	1296.6	1294.3	1295.9	1303.4	1304.2
12.5°	1275.4	1277.7	1273.9	1275.4	1276.2	1286.8	1296.6	1299.6	1303.4	1310.2	1314.0
15°	1267.9	1268.6	1266.3	1269.4	1273.2	1285.3	1297.4	1306.4	1316.3	1326.1	1332.2
17.5°	1280.0	1279.2	1275.4	1276.2	1278.5	1289.0	1304.2	1317.8	1326.9	1336.7	1348.0
20°	1283.7	1286.0	1283.7	1286.0	1289.8	1301.1	1320.8	1332.9	1339.7	1348.8	1363.9
22.5°	1307.2	1304.2	1303.4	1305.7	1304.9	1315.5	1332.9	1351.1	1362.4	1367.7	1383.6
25°	1330.6	1328.4	1328.4	1332.9	1332.9	1341.2	1357.9	1373.0	1385.9	1402.5	1423.7
27.5°	1355.6	1354.1	1354.1	1363.2	1367.7	1375.3	1391.9	1408.6	1422.2	1438.8	1469.1
30°	1406.3	1403.3	1397.2	1407.8	1410.1	1416.9	1438.1	1455.5	1472.9	1494.8	1523.6
32.5°	1494.0	1488.8	1478.9	1479.7	1475.9	1481.2	1513.0	1524.3	1548.5	1571.2	1596.2
35°	1687.7	1668.8	1646.9	1633.2	1615.1	1598.4	1618.9	1634.8	1659.7	1682.4	1714.9
37.5°	1972.9	1937.3	1904.8	1889.7	1856.4	1812.5	1798.2	1775.5	1797.4	1835.2	1874.6
40°	2290.6	2290.6	2254.3	2212.7	2159.0	2085.6	2046.3	2007.7	1994.1	2006.9	2065.2
42.5°	2593.2	2603.0	2568.3	2525.1	2479.7	2403.3	2351.1	2318.6	2291.4	2277.8	2297.4
45°	2874.6	2910.9	2889.0	2841.3	2811.8	2780.1	2763.4	2704.4	2668.1	2613.6	2594.7
47.5°	3084.2	3119.7	3096.3	3026.7	3009.3	3004.0	3003.2	2964.6	2942.0	2891.3	2860.3
50°	3302.0	3354.2	3312.6	3190.1	3200.7	3204.4	3212.0	3201.4	3203.7	3192.3	3174.9
52.5°	3644.0	3649.3	3502.5	3403.4	3383.7	3388.3	3421.6	3438.2	3481.3	3444.3	3451.8
55°	4141.0	3979.8	3793.7	3717.3	3635.6	3600.8	3606.1	3655.3	3723.4	3690.1	3694.6
57.5°	4305.9	4333.1	4342.2	4184.8	4137.9	4038.1	4016.9	3914.8	3979.1	3932.9	3948.1
60°	4652.4	4728.8	4711.4	4749.9	4652.4	4648.6	4681.9	4457.9	4393.6	4266.5	4235.5
62.5°	5039.7	5038.9	5144.1	5173.6	5213.7	5152.4	5285.5	5260.6	5209.1	4838.4	4614.5
65°	4883.8	4880.8	4949.6	5181.9	5262.1	5438.3	5634.3	5905.1	5988.3	5812.0	5450.4
67.5°	4353.5	4373.2	4457.9	4734.1	4962.5	5277.2	5756.8	6261.4	6331.0	6154.0	5910.4
68°	4302.9	4290.8	4366.4	4586.5	4842.2	5207.6	5797.7	6303.0	6382.4	6184.2	5945.2
70°	3728.7	3716.6	3857.3	4106.9	4383.8	4914.1	5849.9	6292.4	6312.8	6132.0	5915.7
72.5°	2904.9	2890.5	3022.9	3224.9	3534.3	4109.2	5402.8	6016.3	6028.4	5857.4	5682.7
75°	2110.6	2093.2	2217.2	2395.8	2652.2	3158.3	4470.8	5246.2	5391.4	5411.1	5358.1
77.5°	1456.2	1492.5	1615.1	1744.4	1972.9	2356.4	3379.2	4193.2	4475.3	4653.1	4773.4
80°	978.9	1038.6	1133.2	1255.8	1438.1	1739.1	2513.8	3133.3	3379.2	3557.0	3644.0
82.5°	642.3	651.3	728.5	834.4	991.7	1233.8	1775.5	2223.3	2364.8	2387.5	2300.5
85°	337.4	363.9	411.5	478.1	576.4	722.4	983.4	1272.4	1324.6	1314.8	1187.7
87.5°	123.3	133.9	157.3	189.1	236.0	305.6	395.6	442.5	335.1	246.6	176.3
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: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1298.1	1292.1	1291.3	1302.7	1299.6	1299.6	1298.1	1303.4	1298.1	1298.1	1305.7
5°	1301.1	1297.4	1297.4	1309.5	1312.5	1309.5	1312.5	1312.5	1311.0	1314.0	1319.3
7.5°	1300.4	1301.9	1302.7	1310.2	1319.3	1315.5	1324.6	1319.3	1326.1	1332.2	1333.7
10°	1300.4	1309.5	1313.2	1315.5	1323.8	1324.6	1331.4	1326.1	1336.7	1345.0	1346.5
12.5°	1314.0	1325.4	1339.0	1342.0	1348.8	1358.6	1359.4	1358.6	1372.3	1378.3	1385.1
15°	1336.7	1350.3	1367.0	1374.5	1383.6	1402.5	1400.2	1408.6	1423.7	1430.5	1442.6
17.5°	1360.9	1376.0	1395.7	1410.1	1423.7	1446.4	1444.9	1460.8	1475.9	1486.5	1500.1
20°	1382.8	1403.3	1426.0	1446.4	1469.1	1491.0	1495.6	1514.5	1535.7	1552.3	1563.6
22.5°	1408.6	1431.3	1456.2	1485.7	1514.5	1535.7	1555.3	1583.3	1606.8	1623.4	1630.2
25°	1449.4	1472.9	1500.9	1542.5	1574.2	1600.7	1637.0	1671.8	1693.8	1699.8	1697.5
27.5°	1500.9	1527.3	1561.4	1615.8	1650.6	1690.0	1742.2	1772.4	1784.5	1773.2	1743.7
30°	1560.6	1596.9	1639.3	1696.8	1742.2	1805.7	1869.3	1895.0	1881.4	1837.5	1773.2
32.5°	1643.1	1693.8	1743.7	1805.7	1880.6	1969.9	2035.7	2044.8	1992.6	1903.3	1801.2
35°	1773.2	1834.5	1898.0	1981.2	2118.1	2238.4	2292.1	2260.4	2149.2	2006.2	1852.6
37.5°	1947.9	2022.8	2117.4	2239.9	2443.4	2581.1	2603.8	2531.2	2366.3	2154.5	1926.8
40°	2152.9	2254.3	2379.9	2589.4	2807.3	2932.1	2924.6	2817.9	2606.1	2326.2	2025.9
42.5°	2410.1	2522.1	2680.2	2923.8	3169.7	3257.4	3221.1	3090.2	2839.8	2509.2	2134.0
45°	2661.3	2775.5	2954.1	3227.1	3463.2	3531.2	3473.8	3325.5	3049.4	2683.2	2256.6
47.5°	2912.4	2991.1	3218.1	3516.1	3737.8	3774.8	3690.9	3503.3	3223.4	2833.0	2345.1
50°	3208.2	3268.8	3505.5	3818.7	3983.6	3991.2	3901.9	3658.3	3345.9	2923.8	2411.7
52.5°	3485.9	3587.2	3832.3	4098.6	4200.0	4165.2	4064.6	3796.8	3435.2	3017.6	2430.6
55°	3754.4	3903.4	4170.5	4344.5	4385.3	4328.6	4173.5	3895.9	3509.3	3018.4	2414.7
57.5°	4013.1	4219.6	4469.3	4582.8	4564.6	4449.6	4217.4	3918.6	3516.9	2976.0	2351.1
60°	4296.1	4510.1	4728.8	4753.7	4675.0	4516.9	4255.2	3926.1	3473.0	2888.2	2243.0
62.5°	4606.2	4771.9	4897.5	4846.8	4737.1	4571.4	4271.1	3852.8	3399.6	2738.5	1991.8
65°	5029.8	5034.4	5023.0	4917.9	4750.7	4523.0	4204.5	3807.4	3215.8	2454.0	1550.0
67.5°	5656.2	5312.0	5061.6	4904.3	4719.7	4472.3	4125.8	3588.0	2901.9	1932.1	888.9
68°	5710.7	5360.4	5050.3	4895.9	4713.6	4467.0	4086.5	3548.6	2805.8	1792.1	748.9
70°	5723.5	5360.4	4981.4	4847.5	4689.4	4365.6	3878.5	3171.9	2292.1	1149.8	311.7
72.5°	5552.6	5163.0	4899.0	4805.2	4531.3	4021.4	3303.5	2417.7	1391.2	360.8	237.5
75°	5323.4	4927.7	4606.2	4330.1	3929.2	3211.3	2371.6	1391.2	406.2	176.3	206.5
77.5°	4643.3	4212.8	3843.7	3487.4	2876.9	2078.1	1174.8	354.8	127.8	141.5	174.0
80°	3306.6	2829.2	2292.9	1795.9	1034.9	394.9	142.2	90.8	92.3	107.4	139.9
82.5°	1817.8	1206.6	720.2	279.1	96.8	83.2	74.9	62.0	65.1	87.0	102.1
85°	792.0	382.0	115.7	70.4	61.3	56.0	47.7	43.1	55.2	57.5	55.2
87.5°	74.9	37.8	30.3	28.7	23.5	20.4	15.1	14.4	13.6	13.6	15.9
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: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1304.2	1305.7	1311.7	1310.2	1314.8	1321.6	1322.3	1326.1	1330.6	1335.2	1341.2
5°	1325.4	1325.4	1328.4	1326.1	1329.9	1333.7	1339.7	1341.2	1347.3	1356.4	1364.7
7.5°	1341.2	1340.5	1341.2	1347.3	1351.8	1351.8	1357.9	1358.6	1364.7	1372.3	1379.1
10°	1357.1	1367.0	1363.9	1368.5	1370.0	1370.7	1373.8	1375.3	1383.6	1386.6	1391.9
12.5°	1391.9	1401.0	1395.7	1402.5	1403.3	1399.5	1394.9	1394.2	1394.2	1391.2	1388.9
15°	1442.6	1447.1	1444.1	1438.8	1435.0	1434.3	1419.9	1408.6	1398.7	1385.1	1374.5
17.5°	1499.3	1497.1	1488.8	1481.9	1466.8	1456.2	1437.3	1412.3	1389.7	1360.2	1339.7
20°	1559.9	1544.0	1539.4	1516.0	1488.8	1462.3	1432.0	1397.2	1356.4	1313.2	1278.5
22.5°	1613.6	1590.1	1568.9	1537.9	1495.6	1455.5	1408.6	1363.9	1312.5	1253.5	1203.6
25°	1664.3	1619.6	1583.3	1537.9	1482.7	1430.5	1371.5	1314.8	1247.4	1174.1	1109.0
27.5°	1692.2	1631.7	1572.7	1511.4	1448.7	1377.6	1312.5	1241.4	1162.0	1078.7	1000.8
30°	1695.3	1621.9	1544.7	1460.0	1384.4	1301.9	1225.5	1137.0	1050.0	963.8	904.8
32.5°	1696.8	1593.9	1491.0	1389.7	1296.6	1201.3	1113.5	1016.0	942.6	889.6	844.2
35°	1698.3	1559.9	1428.2	1295.1	1189.2	1086.3	994.0	917.6	865.4	830.6	794.3
37.5°	1714.9	1528.1	1360.2	1202.0	1084.8	981.9	904.8	846.5	810.9	785.2	758.0
40°	1733.9	1490.3	1288.3	1114.3	993.3	902.5	845.0	808.7	782.2	762.5	740.6
42.5°	1747.5	1424.5	1189.9	1026.5	910.0	838.9	806.4	786.7	771.6	757.2	733.0
45°	1771.7	1351.8	1079.5	915.3	832.9	789.8	776.1	769.3	758.0	743.6	717.1
47.5°	1800.4	1274.7	967.5	822.3	763.3	756.5	755.7	749.7	733.8	718.7	691.4
50°	1815.6	1198.3	849.5	744.4	720.2	725.5	730.0	724.0	700.5	678.6	654.4
52.5°	1862.5	1164.2	742.9	682.3	683.9	689.2	692.2	683.9	661.2	638.5	613.5
55°	1937.3	1115.1	663.4	621.1	634.7	642.3	649.8	637.0	621.8	605.2	586.3
57.5°	1832.2	934.3	581.0	563.6	571.9	578.7	584.0	584.0	584.0	585.5	571.9
60°	1483.5	664.9	502.3	491.0	501.5	515.2	532.6	542.4	546.2	547.7	541.6
62.5°	1044.7	472.0	432.7	439.5	453.1	475.8	492.5	503.1	501.5	492.5	478.9
65°	584.8	392.6	399.4	419.8	431.2	449.3	464.5	470.5	459.2	445.6	433.5
67.5°	329.8	360.1	387.3	404.7	414.6	425.1	434.2	441.0	427.4	411.5	402.4
68°	321.5	355.5	384.3	399.4	409.3	419.8	426.7	431.2	416.8	402.4	394.9
70°	299.6	347.2	371.4	383.5	384.3	401.7	403.2	406.2	394.1	377.5	367.6
72.5°	274.6	329.1	341.2	351.0	359.3	365.4	379.8	373.7	358.6	344.2	321.5
75°	253.4	282.2	293.5	316.2	322.3	332.1	339.7	325.3	302.6	289.0	275.4
77.5°	220.1	234.5	246.6	251.2	269.3	276.9	285.2	285.2	271.6	273.1	252.7
80°	169.5	171.0	166.4	180.0	204.2	214.1	217.1	211.1	220.9	219.4	211.1
82.5°	97.6	90.8	98.3	102.1	114.2	123.3	138.4	151.3	152.8	148.3	157.3
85°	40.8	36.3	41.6	47.7	60.5	74.9	92.3	99.1	97.6	94.6	87.0
87.5°	16.6	16.6	19.7	23.5	31.0	39.3	44.6	52.2	56.7	58.2	54.5
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: P175641

CATALOG NUMBER: VERD-G-A028-E-U-T4-7030-AP

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1310.2	1310.2	1310.2	1310.2
2.5°	1343.5	1342.8	1342.0	1340.5
5°	1367.0	1367.7	1367.7	1367.0
7.5°	1384.4	1388.1	1388.9	1388.9
10°	1398.0	1401.0	1401.8	1401.0
12.5°	1393.4	1394.2	1397.2	1398.0
15°	1372.3	1367.0	1365.4	1364.7
17.5°	1322.3	1308.7	1297.4	1292.1
20°	1243.7	1217.2	1195.2	1189.9
22.5°	1155.9	1115.1	1086.3	1076.5
25°	1050.0	999.3	968.3	958.5
27.5°	946.4	896.4	874.5	862.4
30°	860.9	823.8	799.6	787.5
32.5°	804.1	767.8	742.9	731.5
35°	757.2	719.4	686.1	671.0
37.5°	726.2	681.6	643.0	627.9
40°	708.1	668.0	626.4	609.7
42.5°	699.0	664.9	627.9	609.7
45°	684.6	648.3	616.5	596.9
47.5°	662.7	628.6	596.9	578.7
50°	622.6	587.8	562.1	547.7
52.5°	580.2	541.6	514.4	498.5
55°	551.5	512.9	491.7	481.1
57.5°	546.2	509.9	488.7	476.6
60°	515.2	480.4	453.1	440.3
62.5°	448.6	414.6	393.4	385.0
65°	407.0	374.5	354.0	348.0
67.5°	379.8	345.7	324.5	320.0
68°	372.9	338.9	320.7	314.7
70°	341.9	309.4	293.5	287.5
72.5°	276.1	244.3	223.2	215.6
75°	240.6	205.8	188.4	184.6
77.5°	211.1	170.2	152.8	149.0
80°	171.0	134.7	92.3	86.2
82.5°	127.8	82.5	68.8	62.8
85°	74.1	56.7	44.6	41.6
87.5°	46.9	39.3	34.0	31.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)