

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: P175645

Luminaire Tested: **VERD-G-A028-E-U-T4-7060-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175645
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-T4-7060-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K 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: 11590 lumens
Efficiency: N/A
Efficacy: 112.5 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

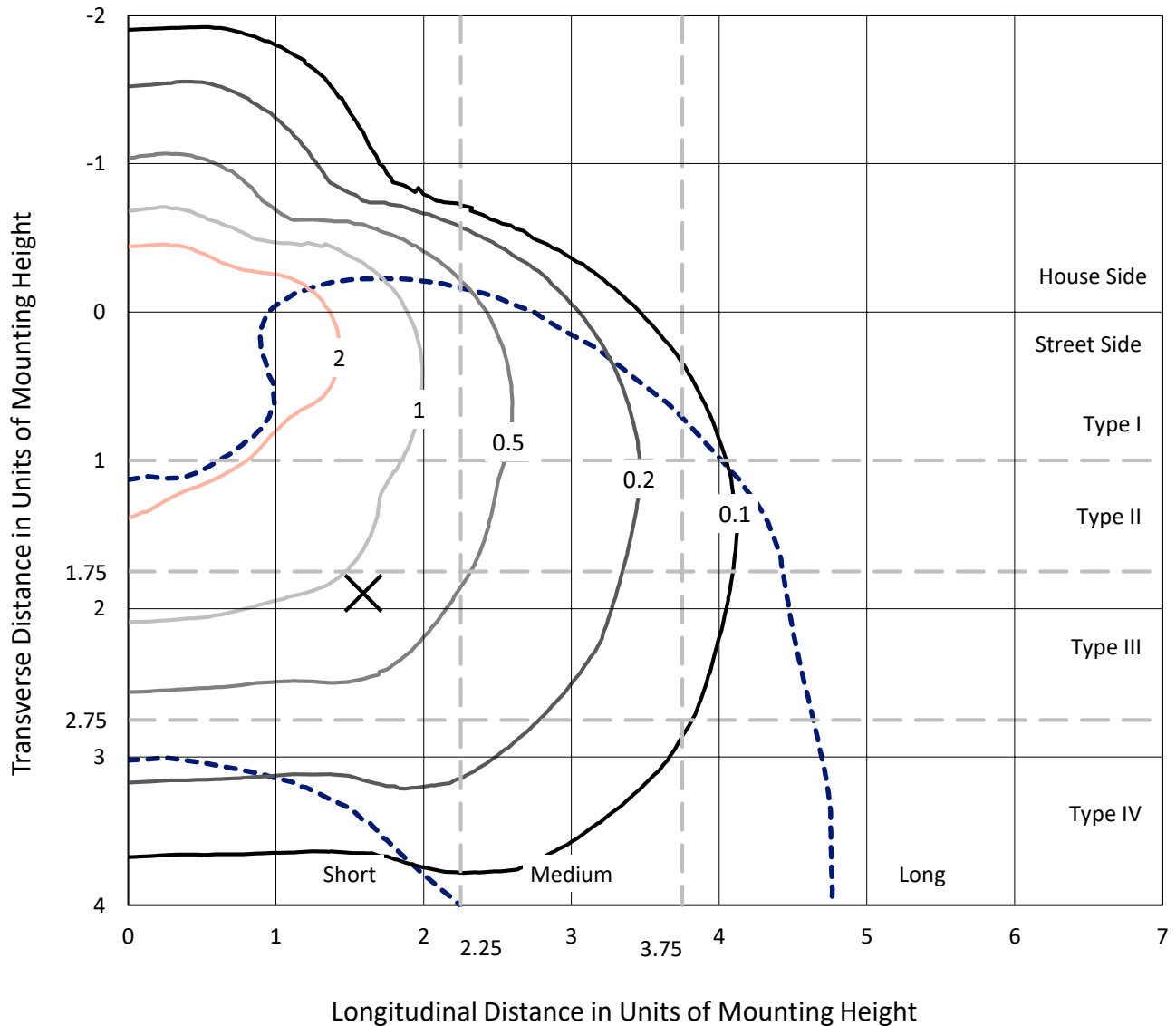


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

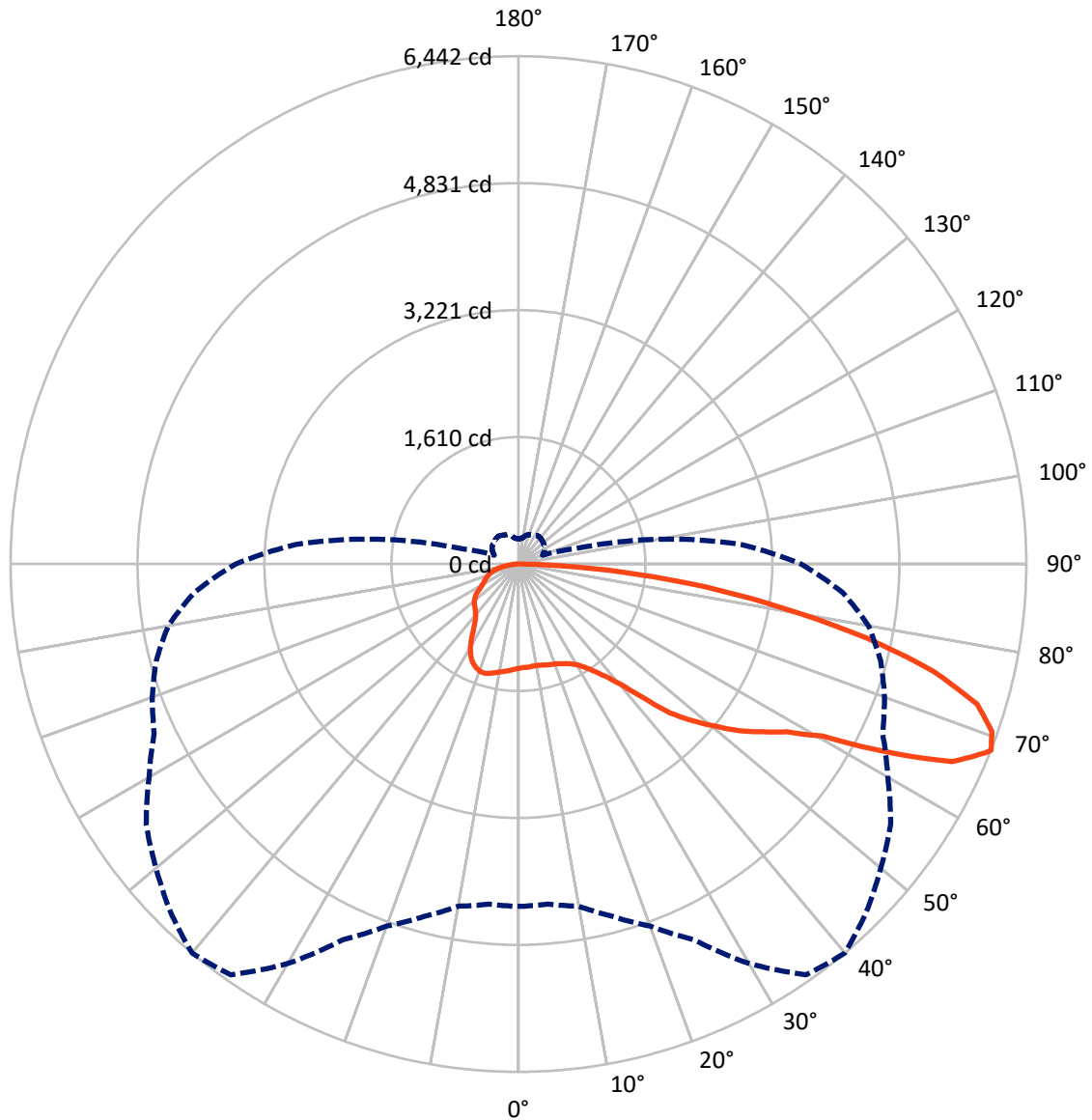


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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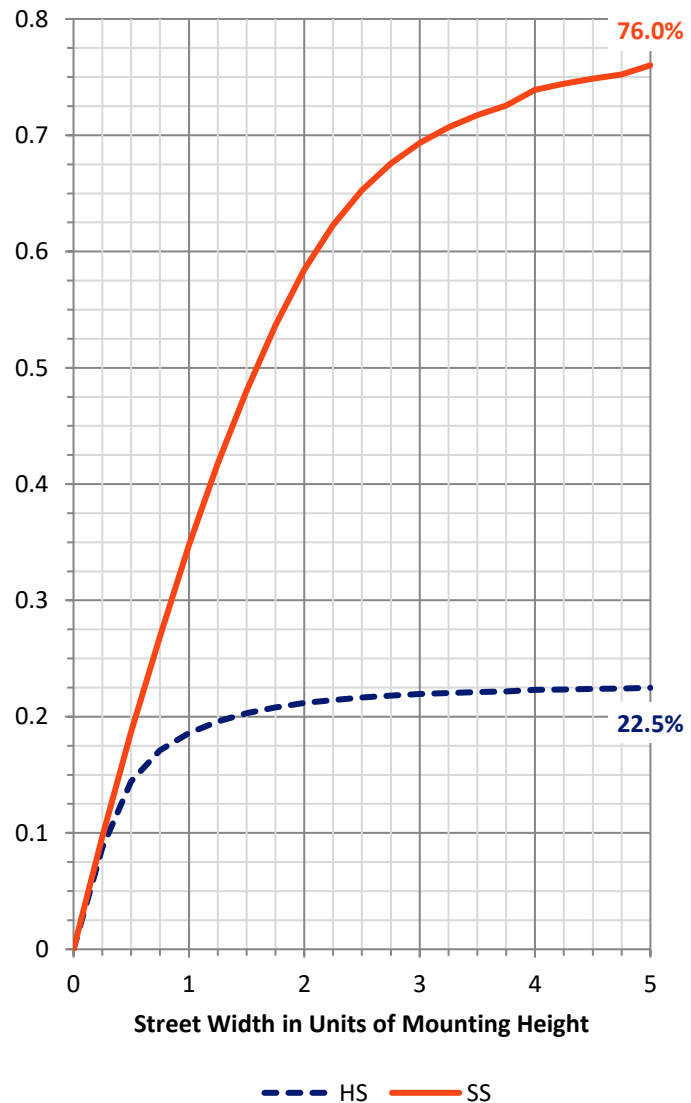
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.6	0.0	2637.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8952.4	0.0	8952.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	11590.0	0.0	11590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.1
10°-20°	392.4	3.4
20°-30°	660.5	5.7
30°-40°	990.2	8.5
40°-50°	1622.0	14.0
50°-60°	2313.0	20.0
60°-70°	2914.5	25.1
70°-80°	2141.4	18.5
80°-90°	428.4	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°	11590.0	100.0
0°-180°	11590.0	100.0



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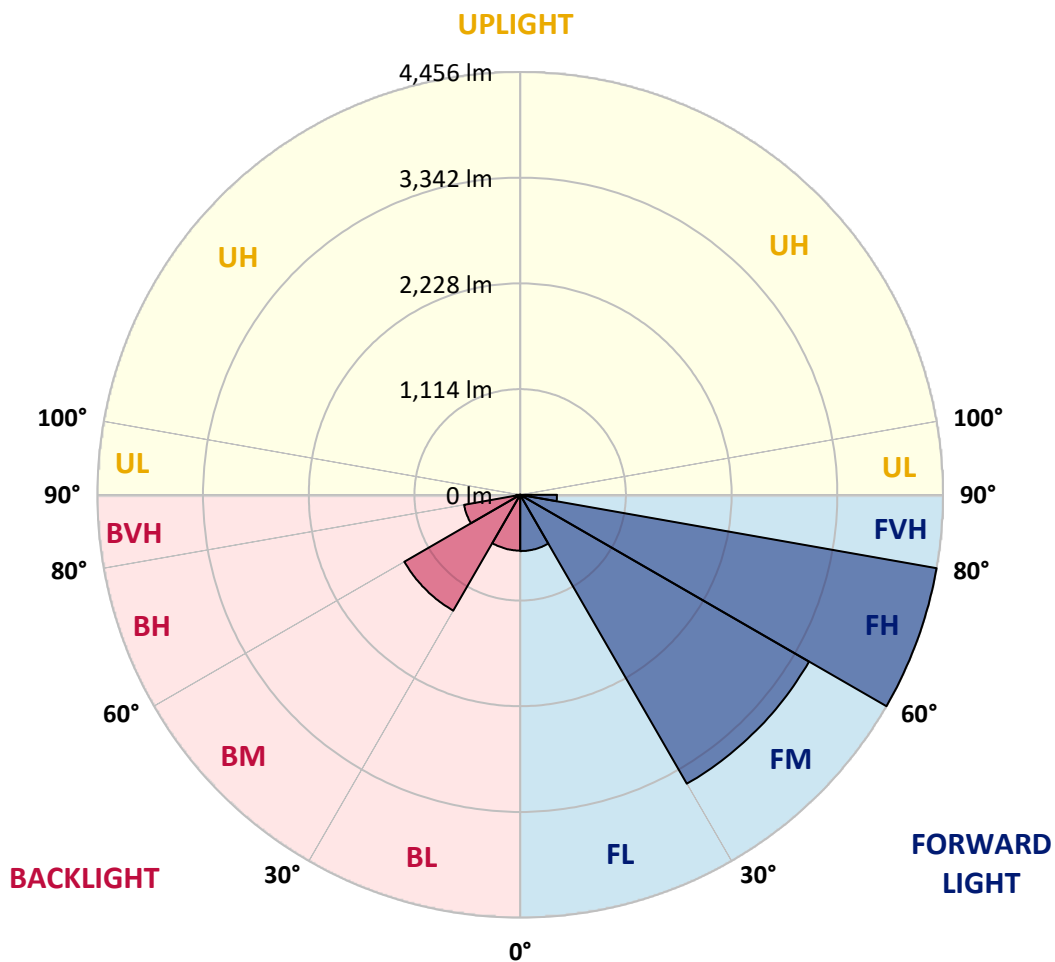
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	592.9	5.1			
FM	(30°-60°)	3515.0	30.3			
FH	(60°-80°)	4455.9	38.4			G2/5000
FVH	(80°-90°)	388.5	3.4			G3/500
BL	(0°-30°)	587.7	5.1	B2/1000		
BM	(30°-60°)	1410.1	12.2	B2/2500		
BH	(60°-80°)	599.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	39.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1328.5	1327.8	1321.7	1320.1	1314.8	1315.6	1314.0	1311.7	1312.5	1307.9	1307.9
5°	1327.0	1327.0	1320.9	1319.4	1316.3	1319.4	1318.6	1314.0	1315.6	1314.8	1314.0
7.5°	1314.8	1313.3	1306.4	1305.6	1303.3	1307.9	1309.5	1305.6	1307.2	1312.5	1314.0
10°	1304.1	1304.9	1298.8	1298.8	1297.2	1304.9	1308.7	1306.4	1307.9	1315.6	1316.3
12.5°	1287.3	1289.6	1285.8	1287.3	1288.1	1298.8	1308.7	1311.7	1315.6	1322.4	1326.3
15°	1279.7	1280.4	1278.1	1281.2	1285.0	1297.2	1309.5	1318.6	1328.5	1338.5	1344.6
17.5°	1291.9	1291.1	1287.3	1288.1	1290.4	1301.1	1316.3	1330.1	1339.2	1349.2	1360.6
20°	1295.7	1298.0	1295.7	1298.0	1301.8	1313.3	1333.1	1345.3	1352.2	1361.4	1376.6
22.5°	1319.4	1316.3	1315.6	1317.9	1317.1	1327.8	1345.3	1363.7	1375.1	1380.5	1396.5
25°	1343.0	1340.8	1340.8	1345.3	1345.3	1353.7	1370.5	1385.8	1398.8	1415.6	1437.0
27.5°	1368.2	1366.7	1366.7	1375.9	1380.5	1388.1	1404.9	1421.7	1435.4	1452.2	1482.8
30°	1419.4	1416.3	1410.2	1420.9	1423.2	1430.1	1451.5	1469.0	1486.6	1508.7	1537.7
32.5°	1508.0	1502.6	1492.7	1493.5	1489.6	1495.0	1527.1	1538.5	1562.9	1585.8	1611.0
35°	1703.4	1684.3	1662.2	1648.5	1630.1	1613.3	1634.0	1650.0	1675.2	1698.1	1730.9
37.5°	1991.3	1955.4	1922.6	1907.3	1873.7	1829.4	1814.9	1792.0	1814.1	1852.3	1892.0
40°	2312.0	2312.0	2275.3	2233.3	2179.1	2105.0	2065.3	2026.4	2012.7	2025.6	2084.4
42.5°	2617.4	2627.3	2592.2	2548.7	2502.8	2425.7	2373.0	2340.2	2312.7	2299.0	2318.8
45°	2901.4	2938.1	2915.9	2867.8	2838.0	2806.0	2789.2	2729.6	2693.0	2638.0	2618.9
47.5°	3112.9	3148.8	3125.1	3054.9	3037.3	3032.0	3031.2	2992.3	2969.4	2918.2	2886.9
50°	3332.8	3385.5	3343.5	3219.8	3230.5	3234.3	3241.9	3231.3	3233.5	3222.1	3204.5
52.5°	3677.9	3683.3	3535.1	3435.1	3415.3	3419.8	3453.4	3470.2	3513.8	3476.3	3484.0
55°	4179.6	4016.9	3829.1	3752.0	3669.5	3634.4	3639.7	3689.4	3758.1	3724.5	3729.1
57.5°	4346.0	4373.5	4382.7	4223.8	4176.5	4075.7	4054.3	3951.3	4016.2	3969.6	3984.9
60°	4695.7	4772.8	4755.3	4794.2	4695.7	4691.9	4725.5	4499.5	4434.6	4306.3	4275.0
62.5°	5086.6	5085.9	5192.0	5221.8	5262.2	5200.4	5334.8	5309.6	5257.7	4883.5	4657.5
65°	4929.3	4926.3	4995.8	5230.2	5311.1	5489.0	5686.8	5960.1	6044.1	5866.2	5501.2
67.5°	4394.1	4414.0	4499.5	4778.2	5008.8	5326.4	5810.5	6319.7	6390.0	6211.3	5965.5
68°	4343.0	4330.7	4407.1	4629.3	4887.3	5256.1	5851.7	6361.7	6441.9	6241.9	6000.6
70°	3763.4	3751.2	3893.2	4145.2	4424.7	4959.9	5904.4	6351.0	6371.7	6189.2	5970.8
72.5°	2932.0	2917.4	3051.1	3254.9	3567.2	4147.5	5453.1	6072.3	6084.6	5912.0	5735.6
75°	2130.2	2112.7	2237.9	2418.1	2676.9	3187.7	4512.5	5295.1	5441.7	5461.5	5408.1
77.5°	1469.8	1506.4	1630.1	1760.7	1991.3	2378.4	3410.7	4232.2	4517.0	4696.5	4817.9
80°	988.0	1048.3	1143.8	1267.5	1451.5	1755.4	2537.2	3162.5	3410.7	3590.1	3677.9
82.5°	648.2	657.4	735.3	842.2	1001.0	1245.3	1792.0	2244.0	2386.8	2409.7	2321.9
85°	340.5	367.3	415.4	482.6	581.8	729.2	992.6	1284.3	1336.9	1327.0	1198.7
87.5°	124.5	135.1	158.8	190.9	238.2	308.5	399.3	446.7	338.2	248.9	177.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1310.2	1304.1	1303.3	1314.8	1311.7	1311.7	1310.2	1315.6	1310.2	1310.2	1317.9
5°	1313.3	1309.5	1309.5	1321.7	1324.7	1321.7	1324.7	1324.7	1323.2	1326.3	1331.6
7.5°	1312.5	1314.0	1314.8	1322.4	1331.6	1327.8	1336.9	1331.6	1338.5	1344.6	1346.1
10°	1312.5	1321.7	1325.5	1327.8	1336.2	1336.9	1343.8	1338.5	1349.2	1357.6	1359.1
12.5°	1326.3	1337.7	1351.4	1354.5	1361.4	1371.3	1372.1	1371.3	1385.0	1391.2	1398.0
15°	1349.2	1362.9	1379.7	1387.3	1396.5	1415.6	1413.3	1421.7	1437.0	1443.8	1456.0
17.5°	1373.6	1388.9	1408.7	1423.2	1437.0	1459.9	1458.3	1474.4	1489.6	1500.3	1514.1
20°	1395.7	1416.3	1439.3	1459.9	1482.8	1504.9	1509.5	1528.6	1550.0	1566.8	1578.2
22.5°	1421.7	1444.6	1469.8	1499.6	1528.6	1550.0	1569.8	1598.1	1621.7	1638.5	1645.4
25°	1462.9	1486.6	1514.8	1556.8	1588.9	1615.6	1652.3	1687.4	1709.5	1715.6	1713.4
27.5°	1514.8	1541.6	1575.9	1630.9	1666.0	1705.7	1758.4	1788.9	1801.2	1789.7	1759.9
30°	1575.2	1611.8	1654.6	1712.6	1758.4	1822.5	1886.7	1912.6	1898.9	1854.6	1789.7
32.5°	1658.4	1709.5	1759.9	1822.5	1898.1	1988.2	2054.7	2063.8	2011.1	1921.0	1818.0
35°	1789.7	1851.6	1915.7	1999.7	2137.9	2259.3	2313.5	2281.4	2169.2	2024.9	1869.9
37.5°	1966.1	2041.7	2137.1	2260.8	2466.2	2605.2	2628.1	2554.8	2388.3	2174.5	1944.7
40°	2173.0	2275.3	2402.1	2613.6	2833.5	2959.4	2951.8	2844.1	2630.4	2347.9	2044.7
42.5°	2432.6	2545.6	2705.2	2951.0	3199.2	3287.8	3251.1	3119.0	2866.3	2532.6	2153.9
45°	2686.1	2801.4	2981.6	3257.2	3495.4	3564.2	3506.1	3356.5	3077.8	2708.2	2277.6
47.5°	2939.6	3019.0	3248.1	3548.9	3772.6	3810.0	3725.3	3535.9	3253.4	2859.4	2366.9
50°	3238.1	3299.2	3538.2	3854.3	4020.7	4028.4	3938.3	3692.4	3377.1	2951.0	2434.1
52.5°	3518.3	3620.7	3868.0	4136.8	4239.1	4204.0	4102.4	3832.2	3467.2	3045.7	2453.2
55°	3789.4	3939.8	4209.3	4384.9	4426.2	4368.9	4212.4	3932.2	3542.0	3046.5	2437.2
57.5°	4050.5	4259.0	4510.9	4625.5	4607.1	4491.1	4256.7	3955.1	3549.6	3003.7	2373.0
60°	4336.1	4552.2	4772.8	4798.0	4718.6	4559.0	4294.9	3962.7	3505.4	2915.2	2263.9
62.5°	4649.1	4816.3	4943.1	4891.9	4781.2	4614.0	4310.9	3888.7	3431.3	2764.0	2010.4
65°	5076.7	5081.3	5069.8	4963.7	4795.0	4565.1	4243.7	3842.8	3245.8	2476.9	1564.5
67.5°	5708.9	5361.5	5108.8	4950.0	4763.7	4514.0	4164.3	3621.4	2928.9	1950.1	897.1
68°	5763.9	5410.4	5097.3	4941.6	4757.5	4508.6	4124.6	3581.7	2831.9	1808.8	755.9
70°	5776.9	5410.4	5027.8	4892.7	4733.1	4406.3	3914.6	3201.5	2313.5	1160.6	314.6
72.5°	5604.3	5211.1	4944.6	4849.9	4573.5	4058.9	3334.3	2440.2	1404.1	364.2	239.7
75°	5373.0	4973.6	4649.1	4370.4	3965.8	3241.2	2393.7	1404.1	410.0	177.9	208.4
77.5°	4686.5	4252.1	3879.5	3519.9	2903.7	2097.4	1185.8	358.1	129.0	142.8	175.6
80°	3337.4	2855.6	2314.3	1812.6	1044.5	398.6	143.5	91.6	93.2	108.4	141.3
82.5°	1834.8	1217.8	726.9	281.7	97.7	84.0	75.6	62.6	65.7	87.8	103.1
85°	799.4	385.6	116.8	71.0	61.8	56.5	48.1	43.5	55.7	58.0	55.7
87.5°	75.6	38.2	30.5	29.0	23.7	20.6	15.3	14.5	13.7	13.7	16.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1316.3	1317.9	1324.0	1322.4	1327.0	1333.9	1334.6	1338.5	1343.0	1347.6	1353.7
5°	1337.7	1337.7	1340.8	1338.5	1342.3	1346.1	1352.2	1353.7	1359.8	1369.0	1377.4
7.5°	1353.7	1353.0	1353.7	1359.8	1364.4	1364.4	1370.5	1371.3	1377.4	1385.0	1391.9
10°	1369.8	1379.7	1376.6	1381.2	1382.8	1383.5	1386.6	1388.1	1396.5	1399.5	1404.9
12.5°	1404.9	1414.1	1408.7	1415.6	1416.3	1412.5	1407.9	1407.2	1407.2	1404.1	1401.8
15°	1456.0	1460.6	1457.6	1452.2	1448.4	1447.7	1433.1	1421.7	1411.8	1398.0	1387.3
17.5°	1513.3	1511.0	1502.6	1495.8	1480.5	1469.8	1450.7	1425.5	1402.6	1372.8	1352.2
20°	1574.4	1558.4	1553.8	1530.1	1502.6	1475.9	1445.4	1410.2	1369.0	1325.5	1290.4
22.5°	1628.6	1604.9	1583.6	1552.3	1509.5	1469.0	1421.7	1376.6	1324.7	1265.2	1214.8
25°	1679.8	1634.7	1598.1	1552.3	1496.5	1443.8	1384.3	1327.0	1259.1	1185.0	1119.3
27.5°	1708.0	1646.9	1587.4	1525.5	1462.2	1390.4	1324.7	1253.0	1172.8	1088.8	1010.1
30°	1711.1	1637.0	1559.1	1473.6	1397.3	1314.0	1236.9	1147.6	1059.8	972.7	913.2
32.5°	1712.6	1608.8	1504.9	1402.6	1308.7	1212.5	1123.9	1025.4	951.4	897.9	852.1
35°	1714.1	1574.4	1441.5	1307.2	1200.3	1096.4	1003.3	926.2	873.5	838.4	801.7
37.5°	1730.9	1542.3	1372.8	1213.2	1094.9	991.1	913.2	854.4	818.5	792.5	765.1
40°	1750.0	1504.2	1300.3	1124.7	1002.5	910.9	852.9	816.2	789.5	769.6	747.5
42.5°	1763.8	1437.7	1201.0	1036.1	918.5	846.8	813.9	794.1	778.8	764.3	739.9
45°	1788.2	1364.4	1089.6	923.9	840.6	797.1	783.4	776.5	765.1	750.5	723.8
47.5°	1817.2	1286.5	976.6	830.0	770.4	763.5	762.8	756.7	740.6	725.4	697.9
50°	1832.5	1209.4	857.4	751.3	726.9	732.2	736.8	730.7	707.0	684.9	660.5
52.5°	1879.8	1175.1	749.8	688.7	690.2	695.6	698.6	690.2	667.3	644.4	619.2
55°	1955.4	1125.4	669.6	626.9	640.6	648.2	655.9	642.9	627.6	610.8	591.7
57.5°	1849.3	943.0	586.4	568.8	577.2	584.1	589.4	589.4	589.4	591.0	577.2
60°	1497.3	671.1	507.0	495.5	506.2	520.0	537.5	547.5	551.3	552.8	546.7
62.5°	1054.4	476.4	436.7	443.6	457.4	480.3	497.1	507.7	506.2	497.1	483.3
65°	590.2	396.3	403.1	423.8	435.2	453.5	468.8	474.9	463.5	449.7	437.5
67.5°	332.9	363.4	390.9	408.5	418.4	429.1	438.3	445.1	431.4	415.4	406.2
68°	324.5	358.9	387.9	403.1	413.1	423.8	430.6	435.2	420.7	406.2	398.6
70°	302.4	350.5	374.9	387.1	387.9	405.4	407.0	410.0	397.8	381.0	371.1
72.5°	277.2	332.1	344.4	354.3	362.7	368.8	383.3	377.2	361.9	347.4	324.5
75°	255.8	284.8	296.2	319.2	325.3	335.2	342.8	328.3	305.4	291.7	277.9
77.5°	222.2	236.7	248.9	253.5	271.8	279.5	287.9	287.9	274.1	275.6	255.0
80°	171.0	172.6	168.0	181.7	206.2	216.1	219.1	213.0	223.0	221.4	213.0
82.5°	98.5	91.6	99.3	103.1	115.3	124.5	139.7	152.7	154.2	149.7	158.8
85°	41.2	36.6	42.0	48.1	61.1	75.6	93.2	100.0	98.5	95.4	87.8
87.5°	16.8	16.8	19.9	23.7	31.3	39.7	45.0	52.7	57.3	58.8	55.0
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):

	165°	170°	175°	180°
0°	1322.4	1322.4	1322.4	1322.4
2.5°	1356.0	1355.3	1354.5	1353.0
5°	1379.7	1380.5	1380.5	1379.7
7.5°	1397.3	1401.1	1401.8	1401.8
10°	1411.0	1414.1	1414.8	1414.1
12.5°	1406.4	1407.2	1410.2	1411.0
15°	1385.0	1379.7	1378.2	1377.4
17.5°	1334.6	1320.9	1309.5	1304.1
20°	1255.2	1228.5	1206.4	1201.0
22.5°	1166.7	1125.4	1096.4	1086.5
25°	1059.8	1008.6	977.3	967.4
27.5°	955.2	904.8	882.6	870.4
30°	868.9	831.5	807.1	794.8
32.5°	811.6	775.0	749.8	738.3
35°	764.3	726.1	692.5	677.3
37.5°	733.0	687.9	649.0	633.7
40°	714.7	674.2	632.2	615.4
42.5°	705.5	671.1	633.7	615.4
45°	691.0	654.3	622.3	602.4
47.5°	668.9	634.5	602.4	584.1
50°	628.4	593.3	567.3	552.8
52.5°	585.6	546.7	519.2	503.2
55°	556.6	517.7	496.3	485.6
57.5°	551.3	514.6	493.2	481.0
60°	520.0	484.8	457.4	444.4
62.5°	452.8	418.4	397.0	388.6
65°	410.8	377.9	357.3	351.2
67.5°	383.3	348.9	327.6	323.0
68°	376.4	342.1	323.7	317.6
70°	345.1	312.3	296.2	290.1
72.5°	278.7	246.6	225.2	217.6
75°	242.8	207.7	190.1	186.3
77.5°	213.0	171.8	154.2	150.4
80°	172.6	135.9	93.2	87.0
82.5°	129.0	83.2	69.5	63.4
85°	74.8	57.3	45.0	42.0
87.5°	47.3	39.7	34.4	32.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)