

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: P129492

Luminaire Tested: **VERD-A028-E-U-T3-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25189)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A028-E-U-T3-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K LEDS AT 80% STANDARD LUMENS AND TYPE III OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7528 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 72
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

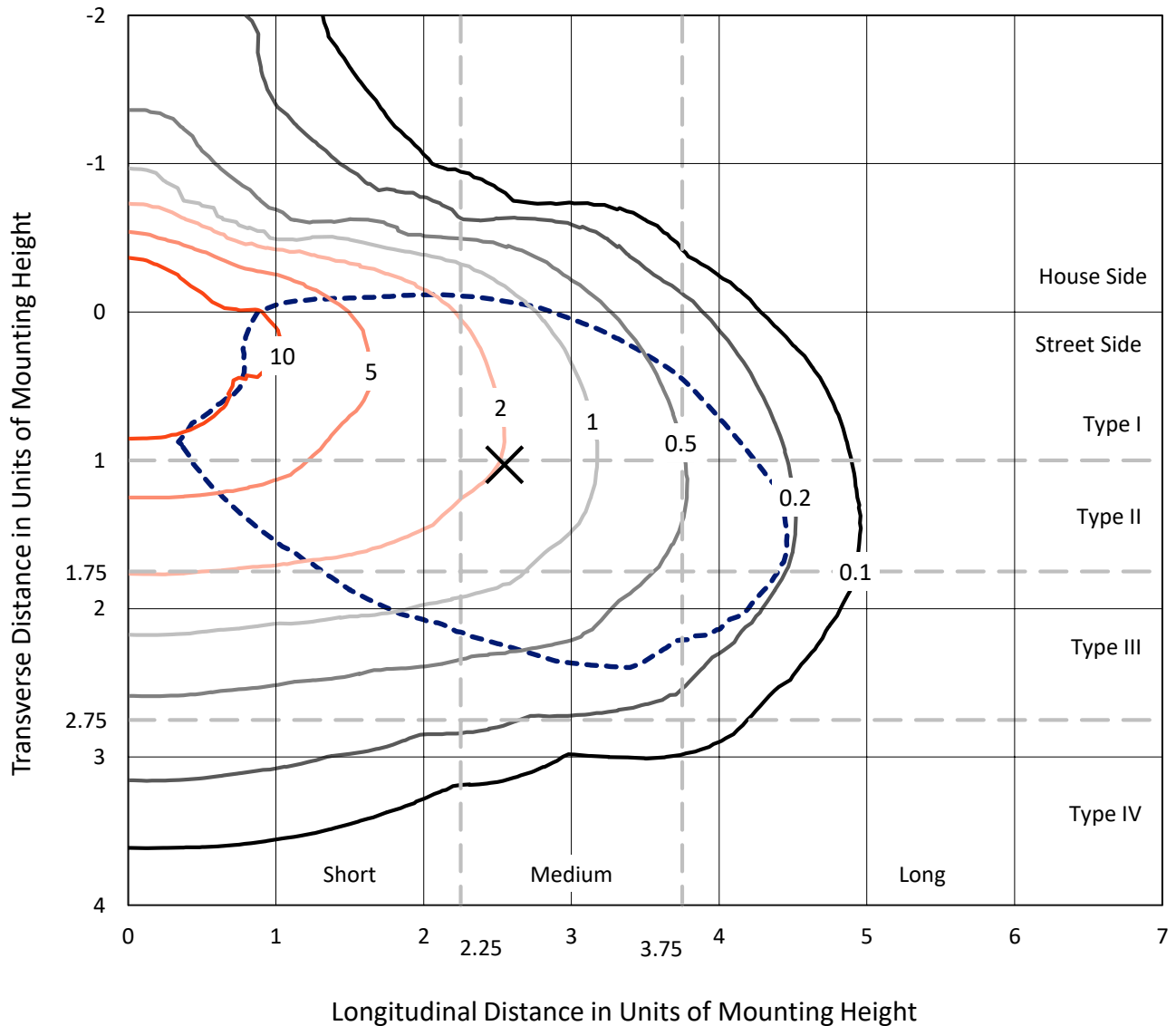


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

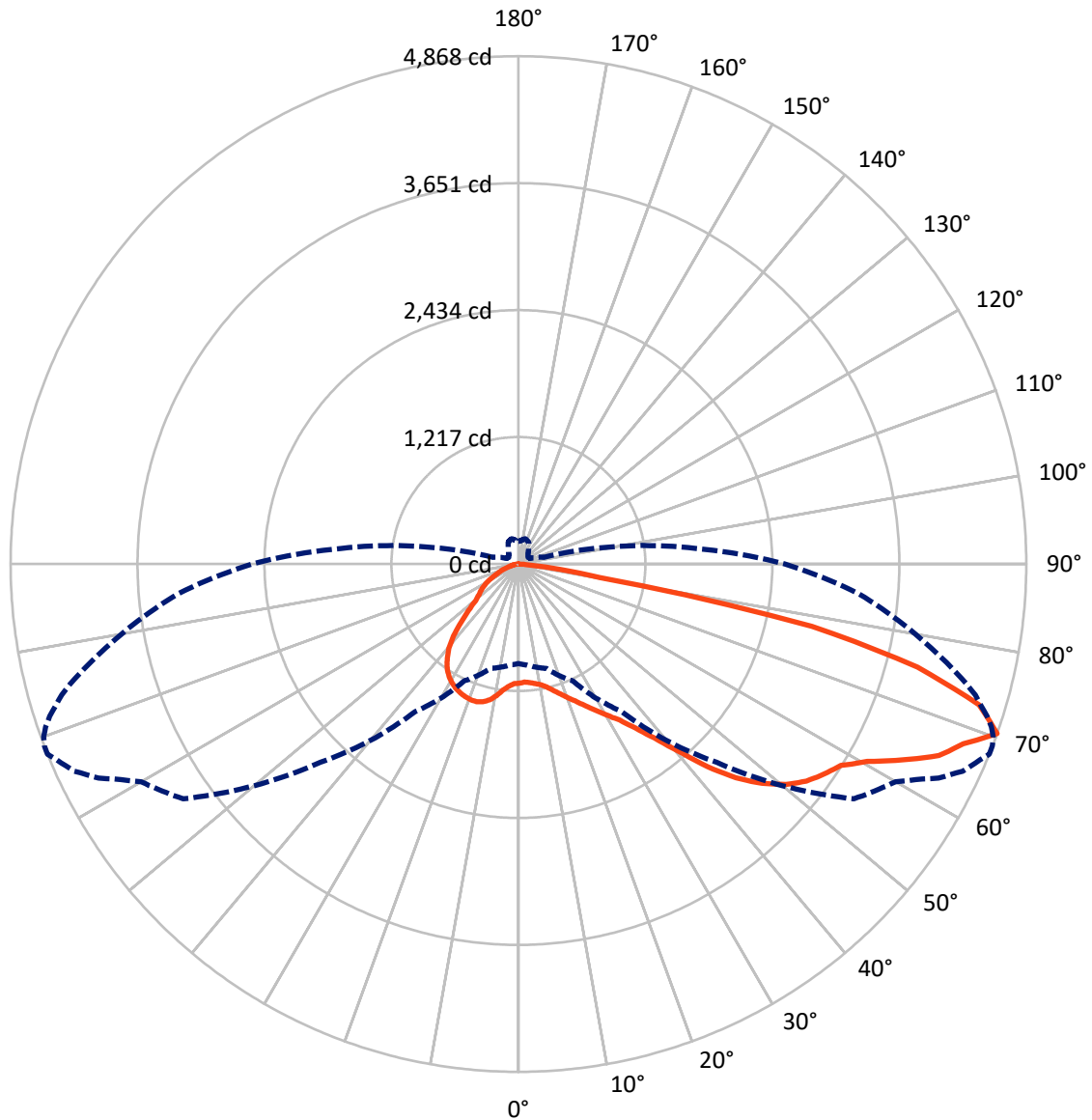


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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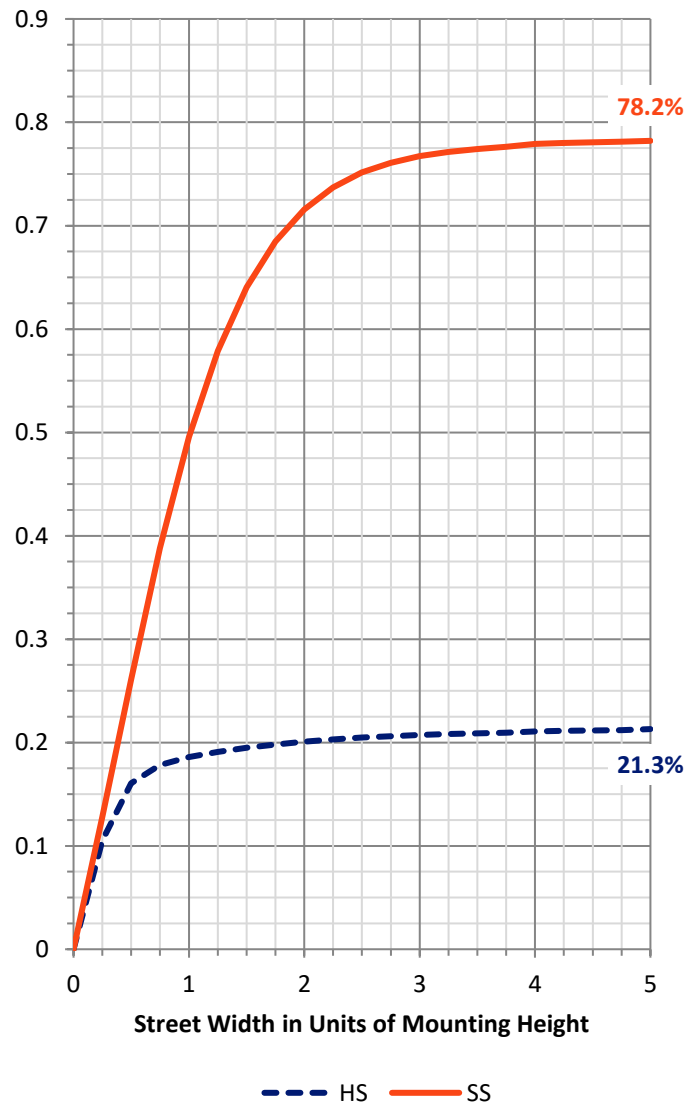
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.4	0.0	1636.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5891.6	0.0	5891.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	7528.0	0.0	7528.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.5
10°-20°	379.6	5.0
20°-30°	640.6	8.5
30°-40°	910.2	12.1
40°-50°	1249.1	16.6
50°-60°	1507.1	20.0
60°-70°	1625.2	21.6
70°-80°	1015.7	13.5
80°-90°	84.1	1.1
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°	7528.0	100.0
0°-180°	7528.0	100.0



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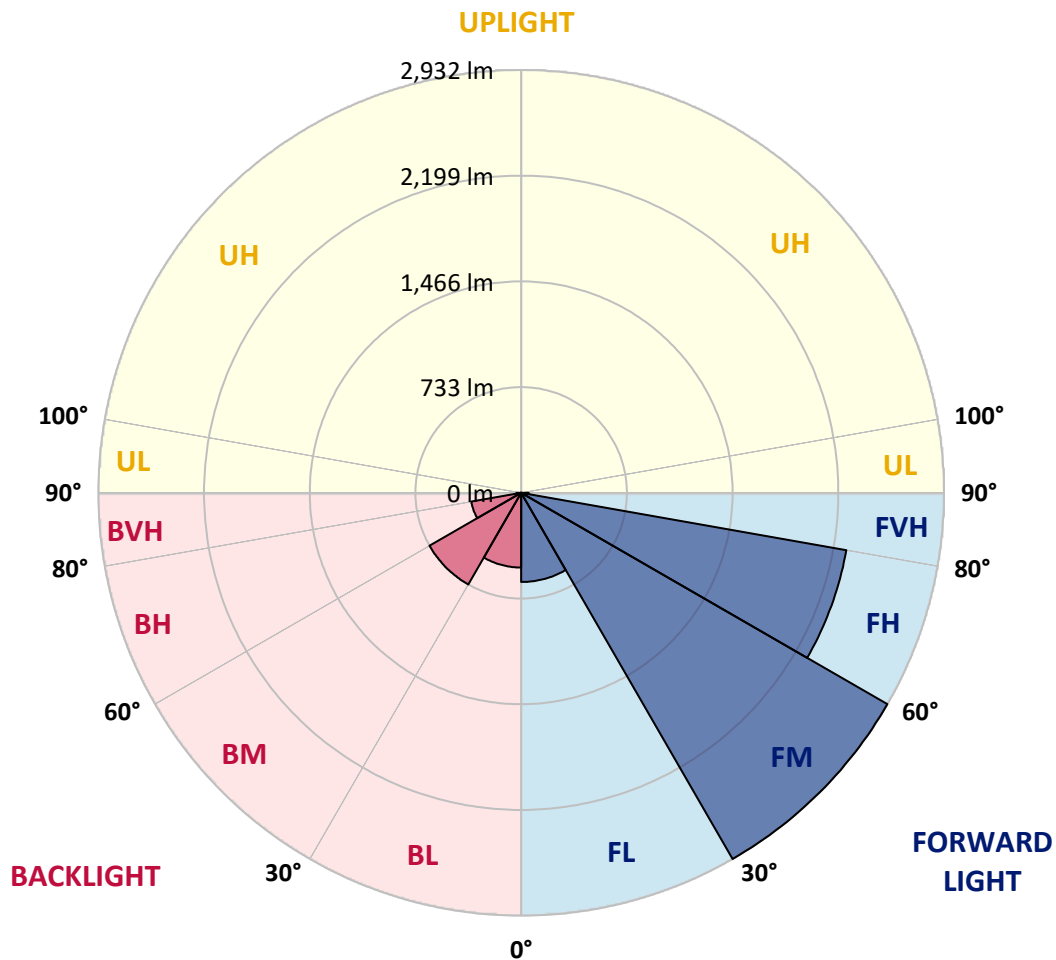
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.3	8.2			
FM	(30°-60°)	2932.1	38.9			
FH	(60°-80°)	2289.4	30.4			G2/5000
FVH	(80°-90°)	51.8	0.7			G1/100
BL	(0°-30°)	518.3	6.9	B2/1000		
BM	(30°-60°)	734.3	9.8	B1/1000		
BH	(60°-80°)	351.4	4.7	B1/500		G1/500
BVH	(80°-90°)	32.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6
2.5°	1151.7	1150.9	1153.4	1140.9	1138.5	1139.3	1140.9	1134.3	1133.5	1133.5	1132.7
5°	1170.7	1169.1	1171.6	1159.2	1153.4	1151.7	1152.5	1145.9	1145.1	1144.3	1142.6
7.5°	1204.7	1200.5	1202.2	1189.8	1179.8	1174.0	1170.7	1164.9	1164.9	1163.3	1161.6
10°	1241.1	1240.2	1240.2	1227.0	1215.4	1204.7	1192.2	1187.3	1188.1	1186.5	1185.6
12.5°	1285.7	1285.7	1288.2	1274.2	1269.2	1254.3	1231.1	1226.2	1224.5	1222.9	1220.4
15°	1347.8	1346.1	1351.1	1334.6	1329.6	1312.2	1284.9	1274.2	1270.0	1270.8	1269.2
17.5°	1428.0	1423.1	1418.9	1399.1	1393.3	1366.8	1337.0	1326.3	1322.1	1323.0	1320.5
20°	1511.6	1510.8	1502.5	1471.9	1458.7	1423.9	1395.8	1378.4	1375.9	1371.8	1371.8
22.5°	1608.4	1611.7	1599.3	1563.7	1538.1	1494.2	1457.0	1438.8	1433.8	1433.0	1429.7
25°	1719.3	1720.1	1711.0	1676.3	1634.9	1576.1	1525.7	1509.1	1503.3	1501.7	1499.2
27.5°	1838.4	1845.0	1831.0	1802.8	1749.1	1673.0	1602.6	1591.0	1589.4	1584.4	1581.9
30°	1964.2	1965.0	1955.9	1937.7	1876.5	1782.2	1687.0	1681.2	1682.9	1677.9	1674.6
32.5°	2075.9	2079.2	2086.6	2073.4	2014.7	1908.8	1784.6	1788.8	1789.6	1786.3	1784.6
35°	2161.1	2168.5	2199.2	2210.7	2163.6	2058.5	1903.0	1921.2	1922.0	1912.1	1913.7
37.5°	2243.0	2244.7	2281.9	2308.4	2292.7	2209.1	2059.3	2081.7	2083.3	2073.4	2070.9
40°	2296.8	2305.1	2348.9	2375.4	2393.6	2346.4	2224.8	2263.7	2269.5	2261.2	2274.5
42.5°	2261.2	2264.5	2363.8	2439.9	2477.2	2492.1	2401.0	2484.6	2497.0	2493.7	2509.4
45°	2219.0	2220.7	2318.3	2463.9	2548.3	2631.9	2614.5	2740.3	2754.3	2752.7	2767.6
47.5°	2158.6	2168.5	2272.8	2449.9	2613.7	2760.9	2855.3	2942.1	2955.4	2958.7	2976.1
50°	2094.1	2110.6	2228.9	2428.3	2668.3	2896.6	3022.4	3083.6	3099.3	3111.8	3134.9
52.5°	2018.0	2032.9	2162.8	2389.5	2693.9	3043.1	3149.0	3214.3	3233.4	3246.6	3270.6
55°	1921.2	1939.4	2071.7	2323.3	2694.8	3128.3	3260.7	3318.6	3339.3	3359.1	3386.4
57.5°	1816.1	1837.6	1965.8	2220.7	2664.1	3136.6	3329.4	3383.1	3404.6	3425.3	3455.1
60°	1690.3	1714.3	1845.0	2089.1	2594.6	3115.1	3355.8	3464.2	3513.0	3549.4	3599.9
62.5°	1557.9	1575.3	1687.0	1944.3	2476.3	3124.2	3547.8	3723.2	3754.6	3805.1	3851.4
65°	1391.6	1411.5	1505.0	1751.6	2280.2	3150.6	3812.5	4021.0	4073.2	4107.9	4161.7
67.5°	1196.4	1215.4	1285.7	1529.0	2052.7	3013.3	3944.1	4151.8	4212.2	4275.0	4354.5
70°	954.0	973.0	1035.9	1237.8	1725.9	2687.3	3924.2	4174.9	4279.2	4387.6	4519.1
72.5°	717.3	730.6	771.1	882.0	1227.8	2177.6	3720.7	4016.9	4150.1	4262.6	4424.8
75°	481.5	489.0	541.9	618.9	719.8	1414.0	3112.6	3350.0	3518.8	3615.6	3735.6
77.5°	170.4	164.6	209.3	267.2	369.8	501.4	1981.6	2216.5	2434.1	2475.5	2496.2
80°	52.1	54.6	98.5	122.5	175.4	260.6	530.3	624.7	693.3	690.0	743.0
82.5°	40.5	43.0	69.5	75.3	68.7	98.5	254.0	281.3	297.0	293.7	297.9
85°	24.8	26.5	32.3	31.4	31.4	43.9	86.9	65.4	76.1	69.5	73.6
87.5°	14.1	14.1	14.1	14.1	11.6	9.9	18.2	9.1	9.1	8.3	8.3
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6
2.5°	1132.7	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1132.7	1132.7	1132.7	1132.7
5°	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1140.9	1140.1	1139.3	1139.3	1139.3
7.5°	1160.0	1158.3	1157.5	1157.5	1157.5	1157.5	1156.7	1155.8	1154.2	1154.2	1155.0
10°	1183.1	1181.5	1180.7	1177.4	1176.5	1175.7	1175.7	1174.9	1174.0	1174.9	1175.7
12.5°	1217.9	1218.7	1215.4	1211.3	1209.6	1206.3	1206.3	1206.3	1206.3	1208.0	1210.4
15°	1265.1	1265.9	1262.6	1260.1	1258.4	1253.5	1251.8	1253.5	1255.1	1256.8	1258.4
17.5°	1318.0	1318.0	1314.7	1313.0	1311.4	1308.1	1308.9	1308.9	1308.1	1308.9	1310.6
20°	1371.0	1370.1	1370.1	1370.1	1370.1	1367.6	1370.1	1370.1	1368.5	1366.0	1366.0
22.5°	1428.9	1429.7	1431.4	1434.7	1433.0	1433.0	1433.0	1436.3	1435.5	1432.2	1432.2
25°	1500.0	1502.5	1505.8	1509.1	1508.3	1510.8	1510.8	1514.1	1512.4	1513.3	1518.2
27.5°	1586.1	1587.7	1590.2	1586.9	1592.7	1599.3	1599.3	1599.3	1609.2	1613.4	1619.2
30°	1680.4	1679.6	1682.1	1678.7	1684.5	1690.3	1696.1	1706.0	1716.8	1720.9	1731.7
32.5°	1785.5	1783.8	1785.5	1782.2	1783.0	1792.9	1811.1	1821.9	1830.2	1844.2	1857.5
35°	1921.2	1920.3	1923.6	1929.4	1931.9	1940.2	1967.5	1971.6	1994.0	2003.1	2020.4
37.5°	2086.6	2089.9	2099.0	2112.3	2114.8	2135.5	2151.2	2187.6	2208.3	2220.7	2234.7
40°	2288.5	2303.4	2322.4	2335.7	2353.9	2396.9	2429.2	2465.6	2494.5	2512.7	2536.7
42.5°	2534.2	2568.2	2591.3	2616.2	2655.9	2701.4	2752.7	2793.2	2828.0	2847.0	2880.1
45°	2790.7	2822.2	2851.1	2886.7	2923.1	2971.9	3019.9	3056.3	3084.5	3096.0	3105.1
47.5°	2994.3	3026.5	3058.8	3097.7	3142.4	3192.0	3231.7	3250.8	3259.9	3257.4	3253.2
50°	3158.9	3192.0	3232.6	3278.1	3321.9	3358.3	3379.0	3381.5	3381.5	3375.7	3368.2
52.5°	3300.4	3338.5	3383.1	3427.8	3456.8	3474.1	3484.1	3484.9	3484.9	3479.1	3470.8
55°	3416.2	3462.6	3504.8	3534.5	3555.2	3561.0	3566.0	3565.2	3562.7	3556.1	3547.8
57.5°	3492.3	3532.1	3578.4	3612.3	3643.8	3653.7	3669.4	3684.3	3703.3	3707.5	3722.4
60°	3638.0	3701.7	3743.0	3796.0	3841.5	3867.1	3898.6	3918.4	3937.5	3934.2	3929.2
62.5°	3886.2	3957.3	4013.6	4086.4	4133.6	4152.6	4172.4	4173.3	4171.6	4151.8	4134.4
65°	4218.0	4291.6	4348.7	4401.6	4428.9	4415.7	4409.9	4380.9	4352.0	4309.8	4271.7
67.5°	4430.6	4497.6	4547.2	4578.7	4598.5	4586.1	4567.9	4529.9	4484.4	4430.6	4378.5
70°	4606.0	4697.8	4751.6	4806.2	4868.3	4866.6	4843.4	4793.8	4723.5	4635.8	4555.5
72.5°	4519.9	4587.0	4617.6	4630.0	4616.7	4596.1	4558.0	4488.5	4437.2	4331.3	4282.5
75°	3828.3	3909.3	3934.2	3959.8	3950.7	3951.5	3908.5	3848.9	3815.9	3712.4	3687.6
77.5°	2688.1	2702.2	2755.2	2842.9	2876.8	2926.4	2908.2	2854.4	2777.5	2678.2	2642.6
80°	724.0	762.0	771.1	807.5	790.1	834.8	829.9	787.7	762.0	729.7	738.0
82.5°	296.2	307.8	300.3	297.9	314.4	309.4	309.4	306.1	297.0	298.7	295.4
85°	66.2	73.6	72.8	67.0	64.5	76.1	71.2	72.8	66.2	65.4	69.5
87.5°	8.3	8.3	8.3	8.3	7.4	8.3	7.4	7.4	7.4	7.4	7.4
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):

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6
2.5°	1133.5	1131.8	1130.2	1142.6	1143.4	1147.6	1153.4	1164.1	1169.1	1175.7	1185.6
5°	1140.9	1142.6	1140.9	1155.0	1165.8	1179.0	1193.1	1212.9	1227.0	1250.2	1271.7
7.5°	1157.5	1159.2	1161.6	1173.2	1196.4	1227.0	1265.9	1309.7	1338.7	1367.6	1392.5
10°	1178.2	1180.7	1184.8	1196.4	1246.9	1294.8	1339.5	1371.8	1391.6	1424.7	1438.0
12.5°	1210.4	1213.8	1226.2	1248.5	1310.6	1341.2	1371.0	1392.5	1403.2	1432.2	1436.3
15°	1256.8	1270.0	1293.2	1314.7	1355.2	1368.5	1380.9	1386.7	1385.0	1401.6	1395.8
17.5°	1308.1	1335.4	1361.9	1371.8	1381.7	1378.4	1371.0	1354.4	1332.9	1333.7	1323.8
20°	1365.2	1408.2	1417.3	1414.0	1394.1	1373.4	1337.9	1295.7	1254.3	1250.2	1225.3
22.5°	1432.2	1475.2	1467.8	1450.4	1399.9	1354.4	1289.0	1222.0	1159.2	1137.6	1108.7
25°	1521.5	1545.5	1525.7	1492.6	1408.2	1331.2	1229.5	1130.2	1039.2	989.5	952.3
27.5°	1623.3	1622.5	1589.4	1540.6	1418.1	1294.8	1155.8	1016.8	886.9	815.8	766.1
30°	1738.3	1703.6	1657.2	1591.0	1422.3	1246.9	1064.8	886.9	724.8	635.4	607.3
32.5°	1853.3	1797.1	1729.2	1638.2	1417.3	1193.1	964.7	735.5	559.3	515.5	501.4
35°	2013.8	1938.5	1845.9	1719.3	1408.2	1119.4	829.9	547.7	450.9	417.8	410.4
37.5°	2233.9	2163.6	2034.5	1840.1	1408.2	1016.0	641.2	412.0	344.2	306.1	320.2
40°	2537.6	2495.4	2316.6	2038.7	1416.5	889.4	434.4	300.3	226.7	221.7	270.6
42.5°	2876.8	2721.2	2507.8	2218.2	1429.7	714.0	281.3	208.5	192.0	208.5	252.3
45°	3095.2	2837.1	2603.7	2289.3	1438.0	508.0	203.5	191.1	182.8	198.6	239.9
47.5°	3236.7	2957.9	2691.4	2329.9	1370.1	342.5	188.6	183.7	176.2	192.0	235.8
50°	3355.0	3059.6	2763.4	2333.2	1203.0	255.7	185.3	176.2	171.3	186.2	232.5
52.5°	3456.8	3152.3	2833.8	2310.9	1069.8	225.9	178.7	169.6	165.5	180.4	225.0
55°	3535.4	3249.1	2893.3	2248.0	957.3	221.7	173.7	162.2	159.7	180.4	225.0
57.5°	3718.2	3363.3	2914.8	2204.1	834.0	215.1	168.8	155.5	157.2	182.8	234.1
60°	3916.0	3424.5	2902.4	2187.6	704.9	203.5	162.2	149.8	156.4	195.3	289.6
62.5°	4102.1	3442.7	2911.5	2180.1	562.6	186.2	152.2	145.6	154.7	215.9	345.8
65°	4223.7	3464.2	2882.6	2137.9	417.0	167.1	141.5	144.0	157.2	258.1	290.4
67.5°	4317.2	3426.2	2772.5	1986.5	313.6	148.9	127.4	135.7	161.3	237.5	251.5
70°	4449.6	3275.6	2551.6	1708.5	248.2	127.4	112.5	128.2	167.1	230.8	250.7
72.5°	4162.5	2897.5	2106.5	1291.5	186.2	104.2	92.7	120.0	171.3	232.5	249.9
75°	3548.6	2239.7	1494.2	696.6	135.7	80.3	72.8	107.6	166.3	230.0	239.1
77.5°	2435.0	1249.3	615.6	233.3	99.3	57.9	53.0	83.6	150.6	214.3	244.1
80°	652.0	312.7	230.0	158.0	69.5	42.2	38.9	53.8	120.8	188.6	233.3
82.5°	285.4	203.5	150.6	103.4	48.8	29.0	26.5	30.6	77.8	149.8	207.7
85°	62.1	45.5	36.4	28.1	19.9	14.9	14.1	18.2	30.6	87.7	152.2
87.5°	6.6	5.8	5.8	5.8	5.8	5.8	5.0	5.8	9.1	24.8	67.8
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):

	175°	180°
0°	1142.6	1142.6
2.5°	1199.7	1200.5
5°	1292.4	1293.2
7.5°	1409.8	1414.0
10°	1449.6	1451.2
12.5°	1445.4	1445.4
15°	1399.1	1394.1
17.5°	1326.3	1319.7
20°	1226.2	1222.0
22.5°	1094.6	1088.0
25°	930.0	931.6
27.5°	752.1	738.8
30°	609.8	611.4
32.5°	521.2	524.6
35°	418.7	411.2
37.5°	334.3	328.5
40°	312.7	302.0
42.5°	278.0	274.7
45°	262.3	261.5
47.5°	263.1	264.8
50°	264.8	265.6
52.5°	249.0	248.2
55°	235.8	232.5
57.5°	254.8	252.3
60°	313.6	313.6
62.5°	316.1	305.3
65°	271.4	275.5
67.5°	233.3	230.8
70°	223.4	217.6
72.5°	209.3	202.7
75°	182.8	172.9
77.5°	174.6	156.4
80°	177.9	146.4
82.5°	177.1	129.1
85°	157.2	134.9
87.5°	95.1	91.8
90°	0.0	0.0

(END OF REPORT)