

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: P129491

Luminaire Tested: **VERD-A02-E-U-T3-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129491
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-A02-E-U-T3-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8904 lumens
Efficiency: N/A
Efficacy: 96.8 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

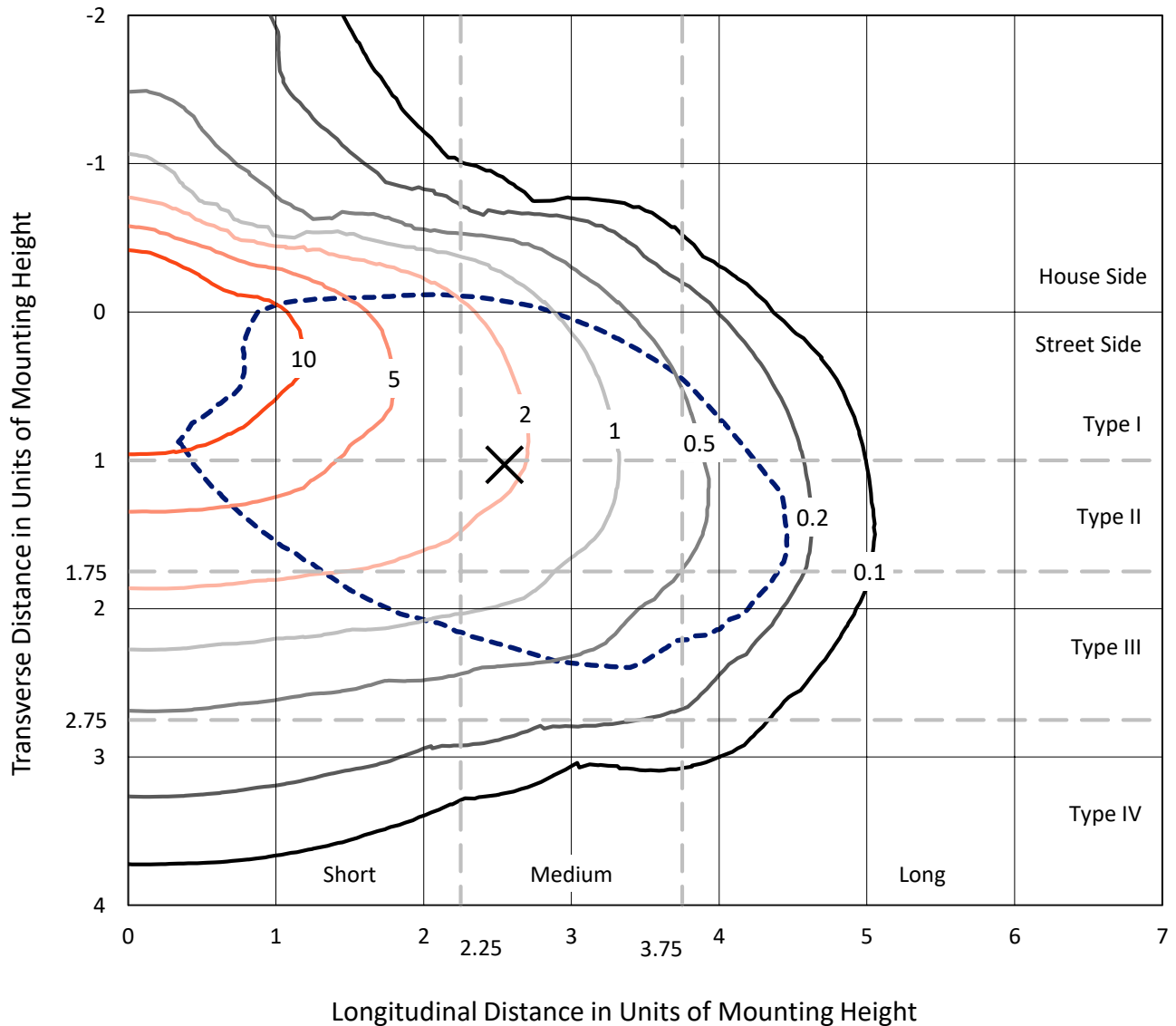
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

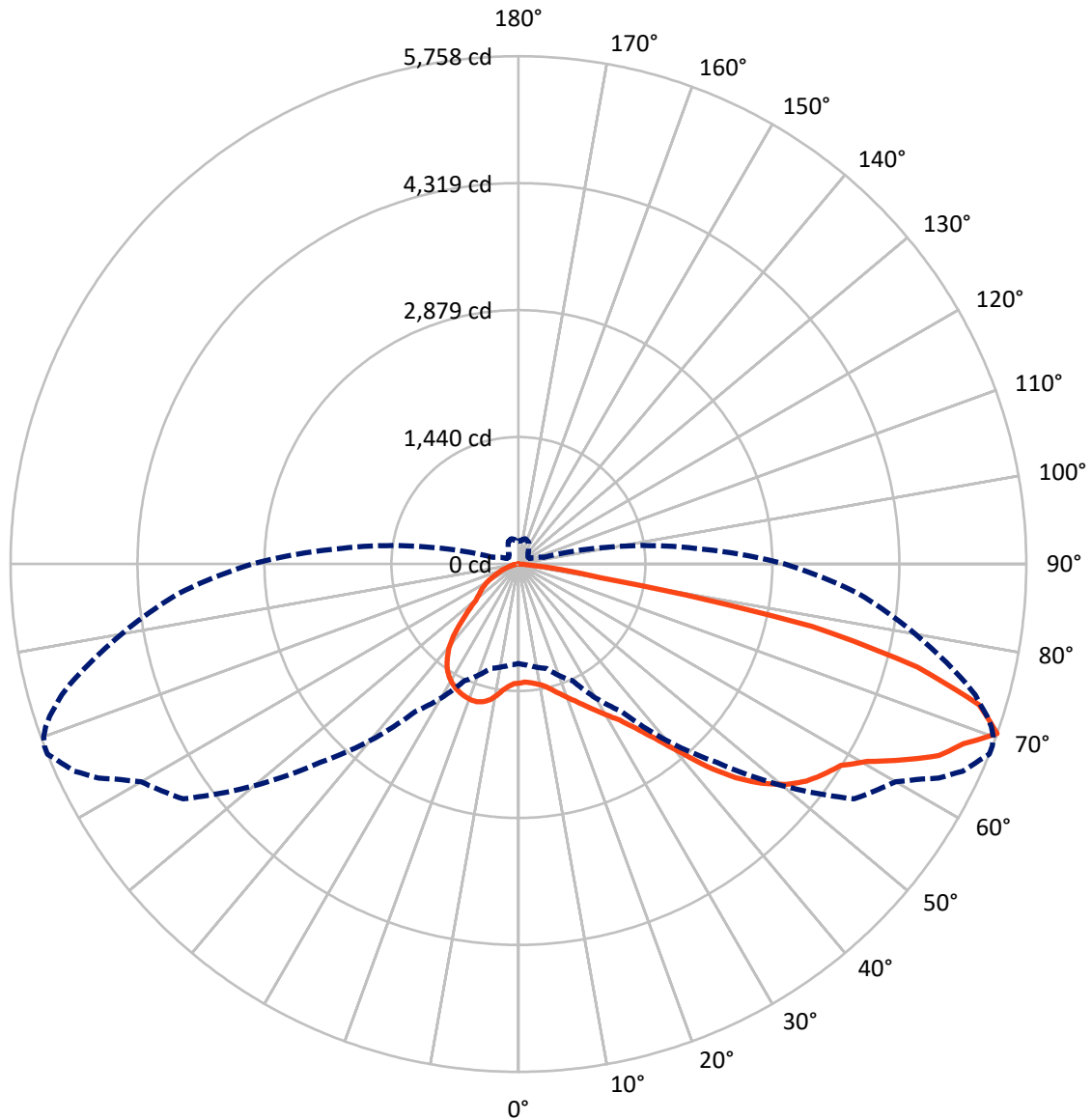
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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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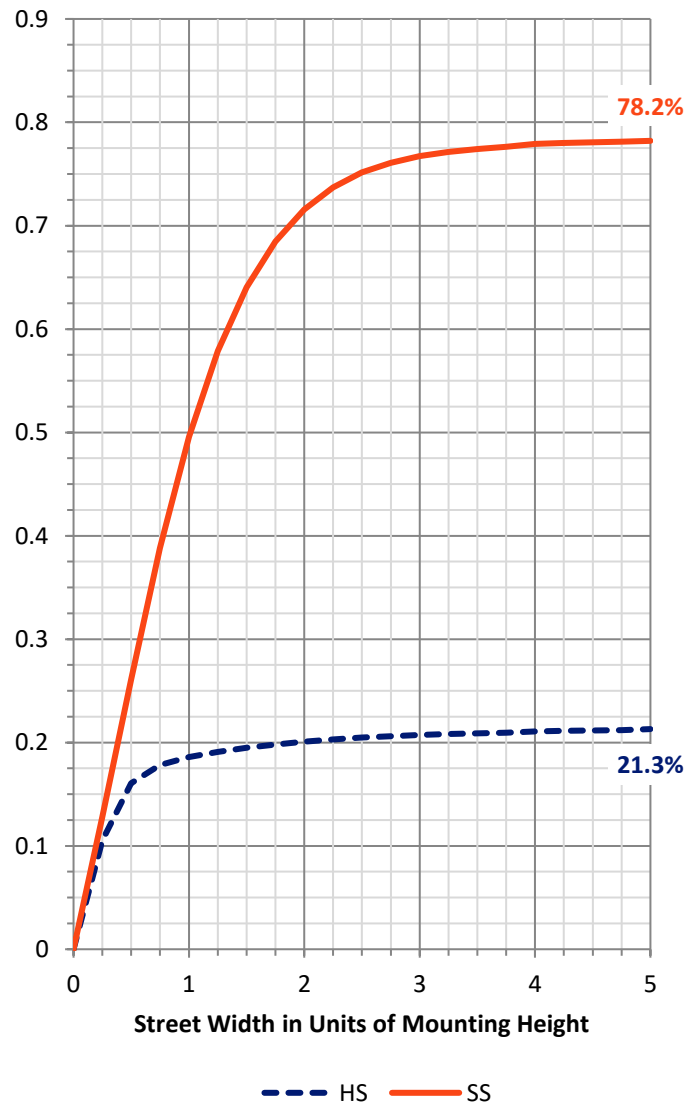
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1935.5	0.0	1935.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6968.5	0.0	6968.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	8904.0	0.0	8904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.5
10°-20°	449.0	5.0
20°-30°	757.7	8.5
30°-40°	1076.6	12.1
40°-50°	1477.5	16.6
50°-60°	1782.6	20.0
60°-70°	1922.2	21.6
70°-80°	1201.3	13.5
80°-90°	99.5	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°	8904.0	100.0
0°-180°	8904.0	100.0



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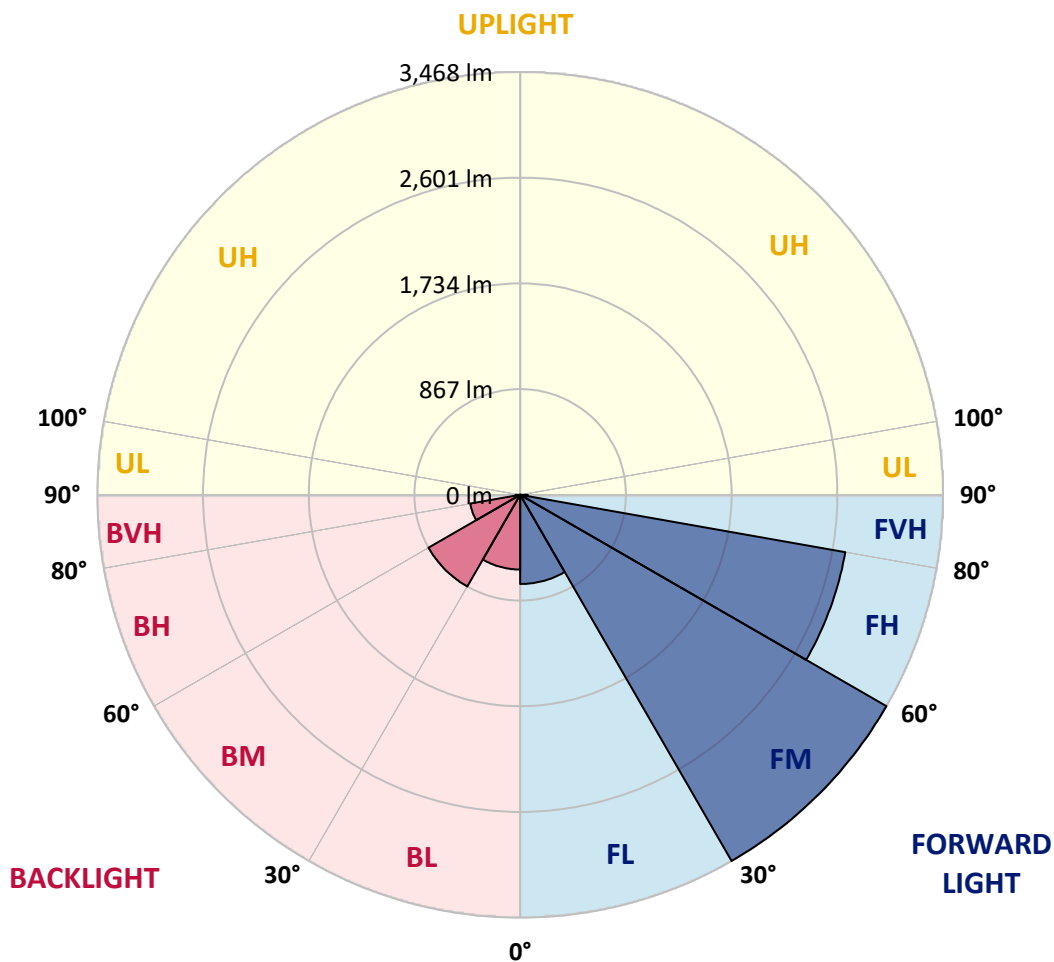
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.3	8.2			
FM (30°-60°)	3468.1	38.9			
FH (60°-80°)	2707.9	30.4			G2/5000
FVH (80°-90°)	61.2	0.7			G1/100
BL (0°-30°)	613.0	6.9	B2/1000		
BM (30°-60°)	868.5	9.8	B1/1000		
BH (60°-80°)	415.7	4.7	B1/500		G1/500
BVH (80°-90°)	38.3	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°	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5
2.5°	1362.2	1361.2	1364.2	1349.5	1346.6	1347.5	1349.5	1341.7	1340.7	1340.7	1339.7
5°	1384.7	1382.8	1385.7	1371.0	1364.2	1362.2	1363.2	1355.4	1354.4	1353.4	1351.5
7.5°	1424.8	1420.0	1421.9	1407.2	1395.5	1388.6	1384.7	1377.9	1377.9	1375.9	1374.0
10°	1467.9	1466.9	1466.9	1451.3	1437.6	1424.8	1410.2	1404.3	1405.3	1403.3	1402.3
12.5°	1520.8	1520.8	1523.7	1507.1	1501.2	1483.6	1456.2	1450.3	1448.3	1446.4	1443.4
15°	1594.1	1592.2	1598.1	1578.5	1572.6	1552.1	1519.8	1507.1	1502.2	1503.1	1501.2
17.5°	1689.1	1683.2	1678.3	1654.8	1648.0	1616.7	1581.4	1568.7	1563.8	1564.8	1561.9
20°	1787.9	1786.9	1777.1	1740.9	1725.3	1684.2	1650.9	1630.4	1627.4	1622.5	1622.5
22.5°	1902.4	1906.3	1891.6	1849.6	1819.2	1767.4	1723.3	1701.8	1695.9	1694.9	1691.0
25°	2033.5	2034.5	2023.8	1982.7	1933.7	1864.2	1804.5	1785.0	1778.1	1776.2	1773.2
27.5°	2174.5	2182.3	2165.7	2132.4	2068.8	1978.7	1895.6	1881.9	1879.9	1874.0	1871.1
30°	2323.2	2324.2	2313.4	2291.9	2219.5	2107.9	1995.4	1988.5	1990.5	1984.6	1980.7
32.5°	2455.3	2459.2	2468.0	2452.4	2382.9	2257.6	2110.9	2115.7	2116.7	2112.8	2110.9
35°	2556.1	2564.9	2601.1	2614.8	2559.1	2434.8	2250.8	2272.3	2273.3	2261.6	2263.5
37.5°	2653.0	2655.0	2699.0	2730.3	2711.7	2612.9	2435.7	2462.2	2464.1	2452.4	2449.4
40°	2716.6	2726.4	2778.3	2809.6	2831.1	2775.3	2631.5	2677.5	2684.3	2674.5	2690.2
42.5°	2674.5	2678.4	2795.9	2885.9	2929.9	2947.6	2839.9	2938.8	2953.4	2949.5	2968.1
45°	2624.6	2626.6	2742.1	2914.3	3014.1	3112.9	3092.4	3241.1	3257.8	3255.8	3273.4
47.5°	2553.2	2564.9	2688.2	2897.7	3091.4	3265.6	3377.2	3479.9	3495.6	3499.5	3520.0
50°	2476.9	2496.4	2636.4	2872.2	3156.0	3426.1	3574.8	3647.3	3665.9	3680.5	3707.9
52.5°	2386.8	2404.4	2558.1	2826.2	3186.3	3599.3	3724.6	3801.9	3824.4	3840.0	3868.4
55°	2272.3	2293.9	2450.4	2747.9	3187.3	3700.1	3856.7	3925.2	3949.7	3973.1	4005.4
57.5°	2148.0	2173.5	2325.2	2626.6	3151.1	3709.9	3937.9	4001.5	4027.0	4051.4	4086.7
60°	1999.3	2027.7	2182.3	2471.0	3068.9	3684.4	3969.2	4097.4	4155.2	4198.2	4257.9
62.5°	1842.7	1863.3	1995.4	2299.7	2929.0	3695.2	4196.3	4403.7	4440.9	4500.6	4555.4
65°	1646.0	1669.5	1780.1	2071.7	2697.0	3726.5	4509.4	4756.0	4817.7	4858.8	4922.4
67.5°	1415.1	1437.6	1520.8	1808.5	2427.9	3564.1	4665.0	4910.6	4982.1	5056.5	5150.4
70°	1128.3	1150.8	1225.2	1464.0	2041.4	3178.5	4641.5	4938.0	5061.3	5189.5	5345.1
72.5°	848.5	864.1	912.1	1043.2	1452.3	2575.7	4400.8	4751.1	4908.7	5041.8	5233.6
75°	569.5	578.4	641.0	732.0	851.4	1672.4	3681.5	3962.4	4162.0	4276.5	4418.4
77.5°	201.6	194.7	247.6	316.1	437.4	593.0	2343.8	2621.7	2879.1	2928.0	2952.5
80°	61.7	64.6	116.5	144.8	207.5	308.3	627.3	738.8	820.1	816.2	878.8
82.5°	48.0	50.9	82.2	89.1	81.2	116.5	300.4	332.7	351.3	347.4	352.3
85°	29.4	31.3	38.2	37.2	37.2	51.9	102.8	77.3	90.0	82.2	87.1
87.5°	16.6	16.6	16.6	16.6	13.7	11.7	21.5	10.8	10.8	9.8	9.8
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5
2.5°	1339.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1339.7	1339.7	1339.7	1339.7
5°	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1349.5	1348.5	1347.5	1347.5	1347.5
7.5°	1372.0	1370.0	1369.1	1369.1	1369.1	1369.1	1368.1	1367.1	1365.2	1365.2	1366.1
10°	1399.4	1397.4	1396.5	1392.6	1391.6	1390.6	1390.6	1389.6	1388.6	1389.6	1390.6
12.5°	1440.5	1441.5	1437.6	1432.7	1430.7	1426.8	1426.8	1426.8	1426.8	1428.8	1431.7
15°	1496.3	1497.3	1493.4	1490.4	1488.5	1482.6	1480.6	1482.6	1484.5	1486.5	1488.5
17.5°	1558.9	1558.9	1555.0	1553.0	1551.1	1547.2	1548.2	1548.2	1547.2	1548.2	1550.1
20°	1621.5	1620.6	1620.6	1620.6	1620.6	1617.6	1620.6	1620.6	1618.6	1615.7	1615.7
22.5°	1690.1	1691.0	1693.0	1696.9	1694.9	1694.9	1694.9	1698.9	1697.9	1694.0	1694.0
25°	1774.2	1777.1	1781.1	1785.0	1784.0	1786.9	1786.9	1790.8	1788.9	1789.9	1795.7
27.5°	1876.0	1877.9	1880.9	1877.0	1883.8	1891.6	1891.6	1891.6	1903.4	1908.3	1915.1
30°	1987.5	1986.6	1989.5	1985.6	1992.4	1999.3	2006.1	2017.9	2030.6	2035.5	2048.2
32.5°	2111.8	2109.9	2111.8	2107.9	2108.9	2120.6	2142.2	2154.9	2164.7	2181.3	2197.0
35°	2272.3	2271.3	2275.3	2282.1	2285.0	2294.8	2327.1	2332.0	2358.4	2369.2	2389.8
37.5°	2468.0	2472.0	2482.7	2498.4	2501.3	2525.8	2544.4	2587.4	2611.9	2626.6	2643.2
40°	2706.8	2724.4	2746.9	2762.6	2784.1	2835.0	2873.2	2916.2	2950.5	2972.0	3000.4
42.5°	2997.5	3037.6	3065.0	3094.4	3141.3	3195.1	3255.8	3303.8	3344.9	3367.4	3406.5
45°	3300.8	3338.0	3372.3	3414.4	3457.4	3515.2	3571.9	3615.0	3648.2	3661.9	3672.7
47.5°	3541.6	3579.7	3617.9	3663.9	3716.7	3775.5	3822.4	3844.9	3855.7	3852.8	3847.9
50°	3736.3	3775.5	3823.4	3877.2	3929.1	3972.2	3996.6	3999.6	3999.6	3992.7	3983.9
52.5°	3903.7	3948.7	4001.5	4054.4	4088.6	4109.2	4120.9	4121.9	4121.9	4115.0	4105.2
55°	4040.7	4095.5	4145.4	4180.6	4205.1	4211.9	4217.8	4216.8	4213.9	4206.0	4196.3
57.5°	4130.7	4177.7	4232.5	4272.6	4309.8	4321.5	4340.1	4357.7	4380.2	4385.1	4402.7
60°	4302.9	4378.3	4427.2	4489.8	4543.7	4574.0	4611.2	4634.7	4657.2	4653.3	4647.4
62.5°	4596.5	4680.7	4747.2	4833.3	4889.1	4911.6	4935.1	4936.1	4934.1	4910.6	4890.1
65°	4988.9	5076.0	5143.5	5206.2	5238.5	5222.8	5216.0	5181.7	5147.5	5097.6	5052.5
67.5°	5240.4	5319.7	5378.4	5415.6	5439.1	5424.4	5402.9	5357.9	5304.0	5240.4	5178.8
70°	5447.9	5556.5	5620.1	5684.7	5758.1	5756.2	5728.8	5670.0	5586.9	5483.1	5388.2
72.5°	5346.1	5425.4	5461.6	5476.3	5460.6	5436.2	5391.1	5308.9	5248.3	5123.0	5065.3
75°	4528.0	4623.9	4653.3	4683.6	4672.8	4673.8	4622.9	4552.5	4513.3	4391.0	4361.6
77.5°	3179.5	3196.1	3258.8	3362.5	3402.6	3461.3	3439.8	3376.2	3285.2	3167.7	3125.7
80°	856.3	901.3	912.1	955.1	934.6	987.4	981.5	931.6	901.3	863.1	872.9
82.5°	350.3	364.0	355.2	352.3	371.9	366.0	366.0	362.1	351.3	353.3	349.4
85°	78.3	87.1	86.1	79.3	76.3	90.0	84.2	86.1	78.3	77.3	82.2
87.5°	9.8	9.8	9.8	9.8	8.8	9.8	8.8	8.8	8.8	8.8	8.8
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):

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5	1351.5
2.5°	1340.7	1338.7	1336.8	1351.5	1352.4	1357.3	1364.2	1376.9	1382.8	1390.6	1402.3
5°	1349.5	1351.5	1349.5	1366.1	1378.9	1394.5	1411.1	1434.6	1451.3	1478.7	1504.1
7.5°	1369.1	1371.0	1374.0	1387.7	1415.1	1451.3	1497.3	1549.1	1583.4	1617.6	1647.0
10°	1393.5	1396.5	1401.4	1415.1	1474.8	1531.5	1584.4	1622.5	1646.0	1685.2	1700.8
12.5°	1431.7	1435.6	1450.3	1476.7	1550.1	1586.3	1621.5	1647.0	1659.7	1694.0	1698.9
15°	1486.5	1502.2	1529.6	1555.0	1603.0	1618.6	1633.3	1640.1	1638.2	1657.8	1650.9
17.5°	1547.2	1579.5	1610.8	1622.5	1634.3	1630.4	1621.5	1602.0	1576.5	1577.5	1565.8
20°	1614.7	1665.6	1676.4	1672.4	1648.9	1624.5	1582.4	1532.5	1483.6	1478.7	1449.3
22.5°	1694.0	1744.9	1736.0	1715.5	1655.8	1602.0	1524.7	1445.4	1371.0	1345.6	1311.3
25°	1799.7	1828.0	1804.5	1765.4	1665.6	1574.6	1454.2	1336.8	1229.1	1170.4	1126.4
27.5°	1920.0	1919.0	1879.9	1822.2	1677.3	1531.5	1367.1	1202.7	1049.1	964.9	906.2
30°	2056.0	2014.9	1960.1	1881.9	1682.2	1474.8	1259.5	1049.1	857.3	751.6	718.3
32.5°	2192.1	2125.5	2045.3	1937.6	1676.4	1411.1	1141.1	870.0	661.5	609.7	593.0
35°	2381.9	2292.9	2183.3	2033.5	1665.6	1324.1	981.5	647.8	533.3	494.2	485.4
37.5°	2642.2	2559.1	2406.4	2176.4	1665.6	1201.7	758.4	487.3	407.1	362.1	378.7
40°	3001.4	2951.5	2740.1	2411.3	1675.4	1052.0	513.8	355.2	268.1	262.3	320.0
42.5°	3402.6	3218.6	2966.2	2623.6	1691.0	844.5	332.7	246.6	227.0	246.6	298.5
45°	3661.0	3355.6	3079.7	2707.8	1700.8	600.9	240.7	226.1	216.3	234.9	283.8
47.5°	3828.3	3498.5	3183.4	2755.8	1620.6	405.1	223.1	217.3	208.4	227.0	278.9
50°	3968.2	3618.9	3268.5	2759.7	1422.9	302.4	219.2	208.4	202.6	220.2	275.0
52.5°	4088.6	3728.5	3351.7	2733.2	1265.3	267.2	211.4	200.6	195.7	213.3	266.2
55°	4181.6	3843.0	3422.2	2658.9	1132.2	262.3	205.5	191.8	188.9	213.3	266.2
57.5°	4397.9	3978.0	3447.6	2607.0	986.4	254.4	199.6	184.0	185.9	216.3	276.9
60°	4631.7	4050.4	3432.9	2587.4	833.8	240.7	191.8	177.1	185.0	231.0	342.5
62.5°	4851.9	4072.0	3443.7	2578.6	665.5	220.2	180.1	172.2	183.0	255.4	409.1
65°	4995.8	4097.4	3409.5	2528.7	493.2	197.7	167.3	170.3	185.9	305.3	343.5
67.5°	5106.4	4052.4	3279.3	2349.6	370.9	176.1	150.7	160.5	190.8	280.9	297.5
70°	5262.9	3874.3	3018.0	2020.8	293.6	150.7	133.1	151.7	197.7	273.0	296.5
72.5°	4923.4	3427.1	2491.5	1527.6	220.2	123.3	109.6	141.9	202.6	275.0	295.5
75°	4197.2	2649.1	1767.4	824.0	160.5	94.9	86.1	127.2	196.7	272.1	282.8
77.5°	2880.0	1477.7	728.1	276.0	117.4	68.5	62.6	98.8	178.1	253.5	288.7
80°	771.1	369.9	272.1	186.9	82.2	49.9	46.0	63.6	142.9	223.1	276.0
82.5°	337.6	240.7	178.1	122.3	57.7	34.3	31.3	36.2	92.0	177.1	245.6
85°	73.4	53.8	43.1	33.3	23.5	17.6	16.6	21.5	36.2	103.7	180.1
87.5°	7.8	6.9	6.9	6.9	6.9	6.9	5.9	6.9	10.8	29.4	80.2
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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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1351.5	1351.5
2.5°	1419.0	1420.0
5°	1528.6	1529.6
7.5°	1667.5	1672.4
10°	1714.5	1716.5
12.5°	1709.6	1709.6
15°	1654.8	1648.9
17.5°	1568.7	1560.9
20°	1450.3	1445.4
22.5°	1294.7	1286.9
25°	1100.0	1101.9
27.5°	889.6	873.9
30°	721.2	723.2
32.5°	616.5	620.4
35°	495.2	486.4
37.5°	395.4	388.5
40°	369.9	357.2
42.5°	328.8	324.9
45°	310.2	309.2
47.5°	311.2	313.2
50°	313.2	314.1
52.5°	294.6	293.6
55°	278.9	275.0
57.5°	301.4	298.5
60°	370.9	370.9
62.5°	373.8	361.1
65°	321.0	325.9
67.5°	276.0	273.0
70°	264.2	257.4
72.5°	247.6	239.8
75°	216.3	204.5
77.5°	206.5	185.0
80°	210.4	173.2
82.5°	209.4	152.7
85°	185.9	159.5
87.5°	112.5	108.6
90°	0.0	0.0

(END OF REPORT)