

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: P156879

Luminaire Tested: **AVS-E04-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156879
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E04-LED-E-U-T4-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11040.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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



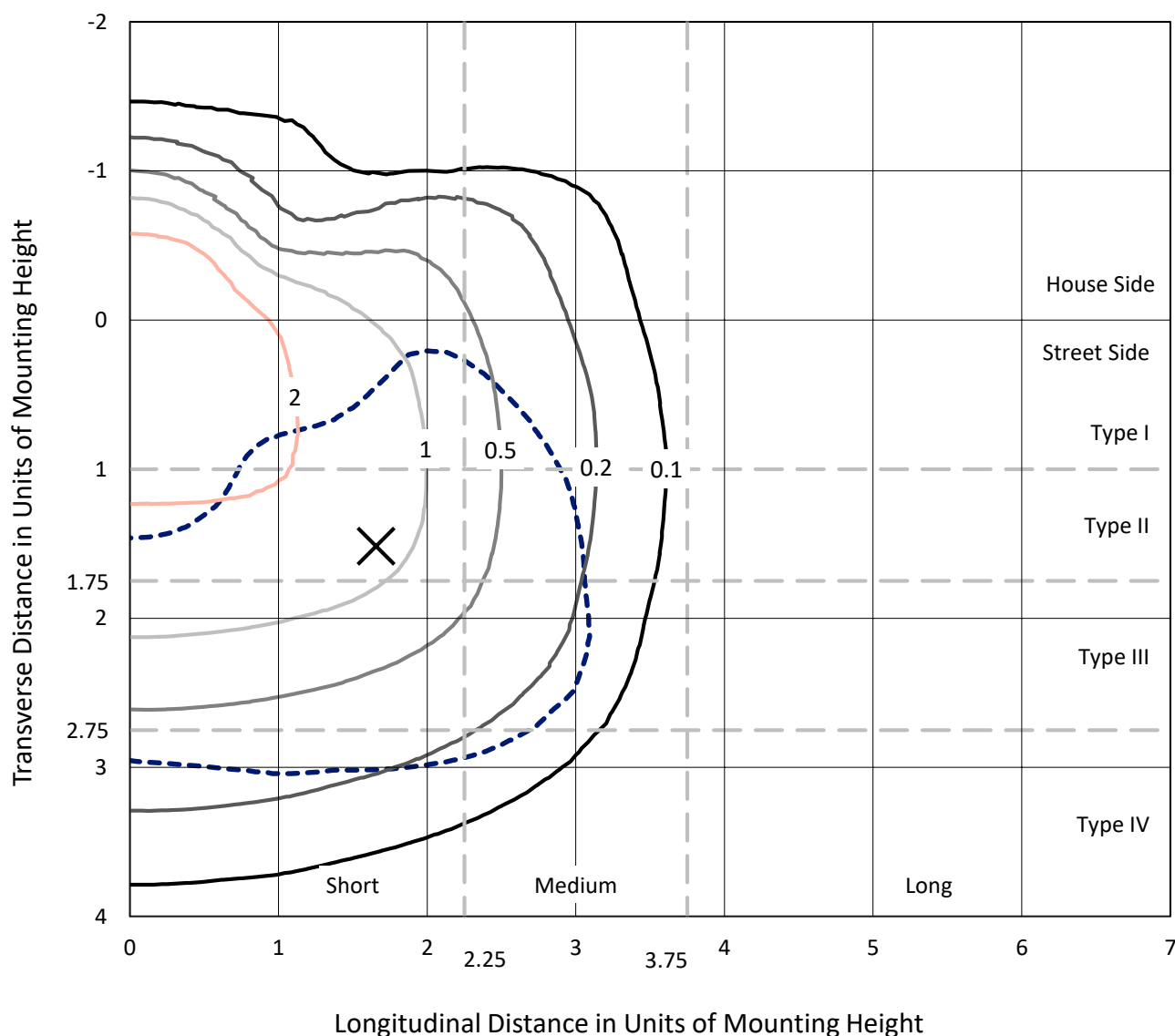
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

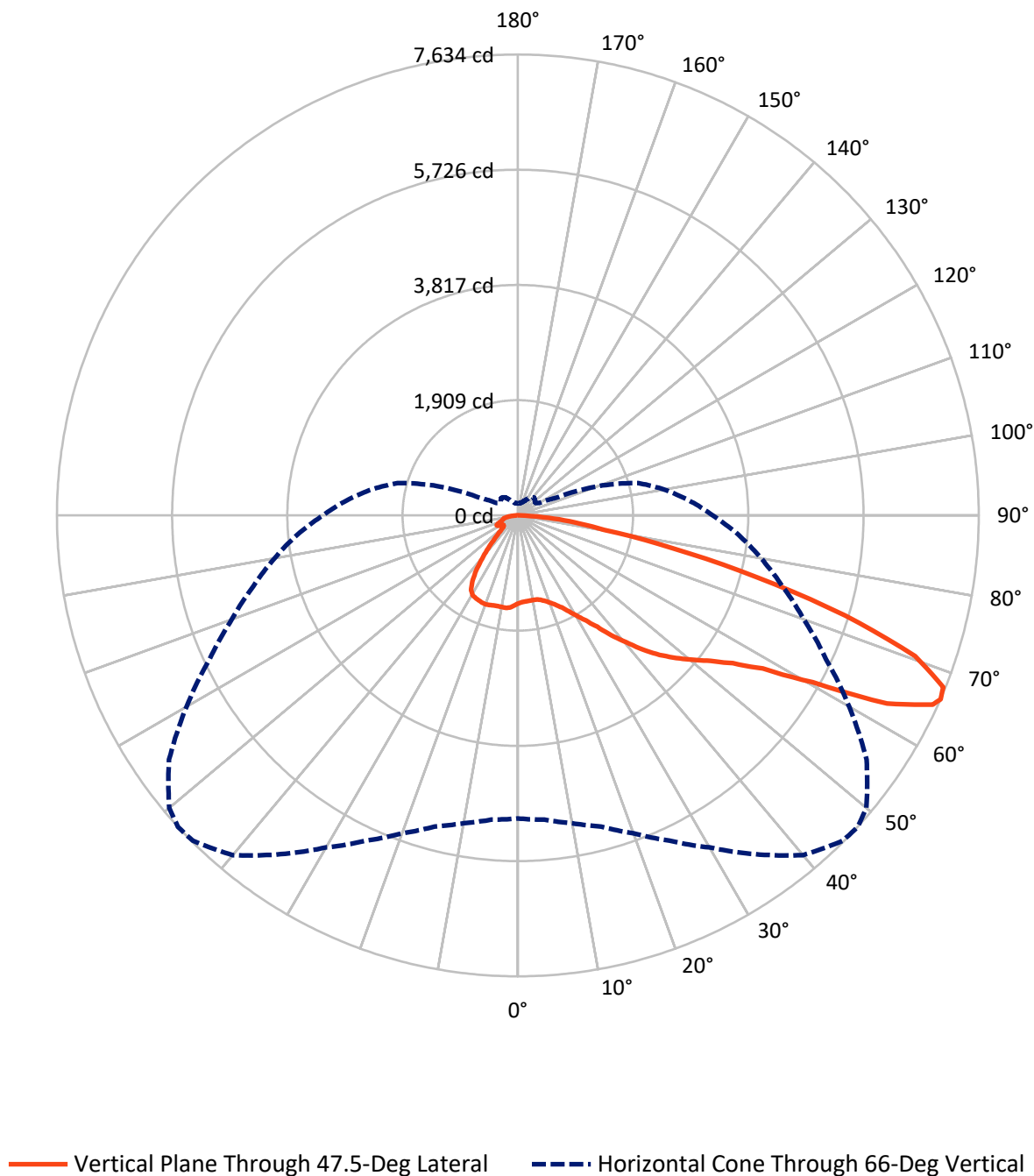


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2355.8	0.0	2355.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8684.9	0.0	8684.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	11040.7	0.0	11040.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.3
10°-20°	429.1	3.9
20°-30°	739.0	6.7
30°-40°	1118.1	10.1
40°-50°	1449.2	13.1
50°-60°	1998.0	18.1
60°-70°	3104.2	28.1
70°-80°	1805.1	16.3
80°-90°	256.7	2.3
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°	11040.7	100.0
0°-180°	11040.7	100.0

Coefficient of Utilization



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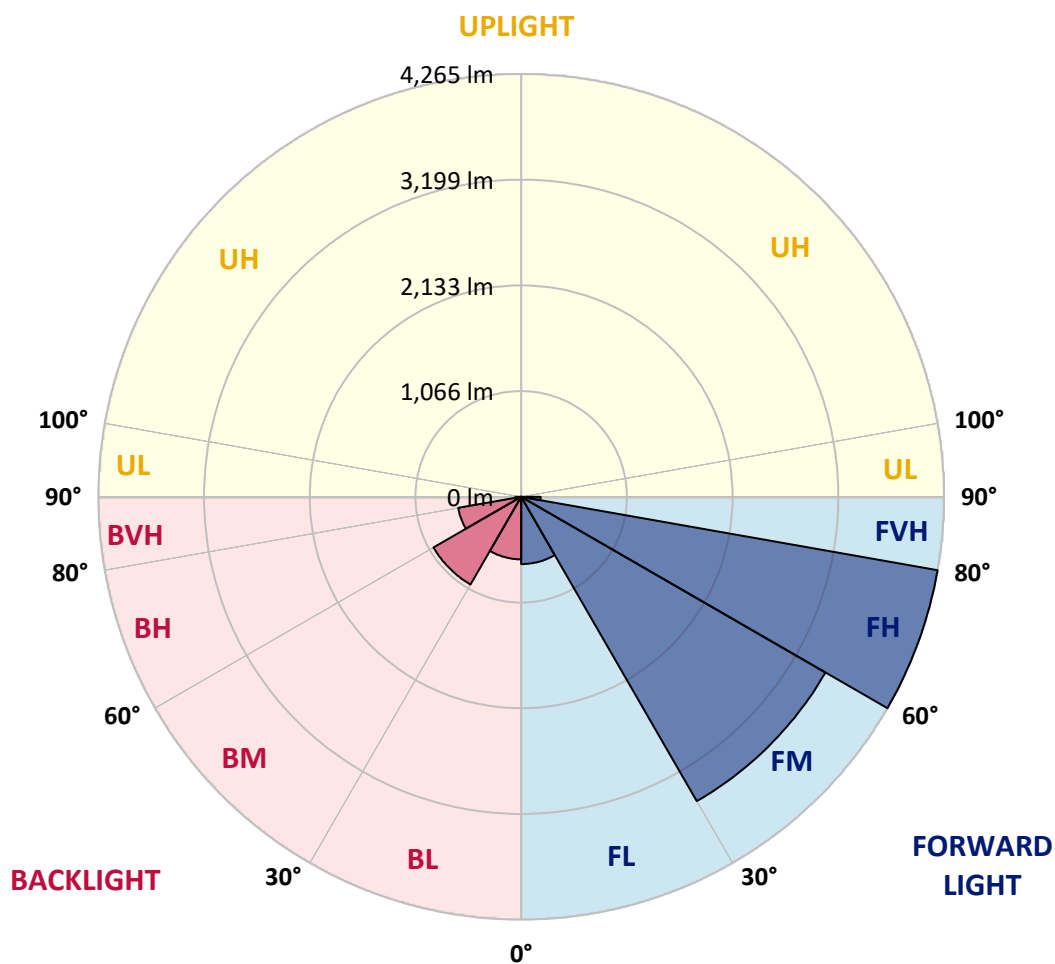
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.8	6.1			
FM	(30°-60°)	3544.1	32.1			
FH	(60°-80°)	4265.0	38.6			G2/5000
FVH	(80°-90°)	197.0	1.8			G2/225
BL	(0°-30°)	630.6	5.7	B2/1000		
BM	(30°-60°)	1021.2	9.2	B2/2500		
BH	(60°-80°)	644.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	59.7	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1428.5	1433.4	1429.7	1430.9	1430.9	1432.1	1432.1	1433.4	1432.1	1435.8	1438.2
5°	1402.9	1405.4	1404.1	1406.5	1409.0	1413.9	1412.6	1418.8	1420.0	1423.6	1429.7
7.5°	1393.2	1390.8	1391.9	1395.6	1398.0	1400.5	1402.9	1407.8	1411.4	1420.0	1424.9
10°	1402.9	1401.7	1402.9	1405.4	1405.4	1406.5	1404.1	1409.0	1411.4	1418.8	1423.6
12.5°	1443.1	1443.1	1440.6	1440.6	1438.2	1435.8	1429.7	1426.0	1424.9	1426.0	1428.5
15°	1507.7	1505.2	1500.3	1496.7	1491.8	1483.3	1474.7	1467.5	1462.6	1455.2	1452.8
17.5°	1571.0	1567.4	1562.5	1557.6	1551.5	1542.9	1529.5	1521.0	1507.7	1499.1	1494.2
20°	1644.0	1636.7	1630.7	1624.6	1612.3	1609.9	1596.6	1582.0	1566.1	1546.6	1544.1
22.5°	1739.1	1726.8	1719.6	1715.9	1703.7	1700.0	1678.1	1657.4	1637.9	1612.3	1606.3
25°	1835.2	1823.0	1819.4	1814.5	1806.0	1801.1	1780.4	1757.3	1731.7	1696.4	1689.1
27.5°	1929.0	1930.3	1920.5	1924.1	1921.7	1913.2	1892.4	1869.3	1849.8	1808.4	1799.9
30°	2045.9	2038.5	2033.7	2041.0	2032.5	2033.7	2015.4	2003.3	1971.6	1947.3	1930.3
32.5°	2167.7	2166.4	2173.8	2178.7	2177.4	2175.0	2160.4	2148.2	2120.2	2084.9	2077.6
35°	2334.5	2341.9	2347.9	2369.8	2369.8	2385.7	2371.1	2356.5	2323.5	2280.9	2266.3
37.5°	2447.8	2450.3	2474.6	2503.8	2540.3	2574.4	2584.1	2587.9	2574.4	2542.8	2520.8
40°	2551.3	2556.2	2595.1	2640.2	2693.8	2760.7	2800.9	2819.2	2822.9	2808.3	2760.7
42.5°	2654.8	2662.1	2702.3	2768.1	2842.4	2927.6	2998.2	3043.3	3068.8	3068.8	3040.8
45°	2775.3	2785.1	2828.9	2900.8	2987.3	3094.4	3191.8	3278.3	3319.7	3322.2	3295.3
47.5°	2917.8	2926.4	2977.5	3050.6	3139.5	3247.9	3370.9	3469.5	3546.2	3551.1	3529.2
50°	3101.8	3113.9	3156.6	3222.3	3313.7	3423.2	3546.2	3683.8	3764.2	3783.7	3760.5
52.5°	3345.3	3347.8	3383.0	3443.9	3532.8	3637.6	3767.9	3917.6	4023.6	4039.5	4001.7
55°	3681.5	3677.7	3700.9	3766.6	3833.7	3915.2	4050.4	4218.4	4336.6	4360.9	4322.0
57.5°	4138.1	4134.4	4153.9	4169.7	4295.2	4374.3	4507.0	4667.9	4782.3	4853.0	4785.9
60°	4845.6	4842.0	4873.7	4966.2	5060.0	5175.6	5304.8	5497.2	5657.9	5678.7	5612.8
62.5°	5358.3	5376.6	5446.0	5554.4	5744.4	5970.9	6207.2	6460.4	6790.5	6895.2	6863.5
65°	5179.3	5215.9	5312.0	5476.5	5729.7	6042.7	6413.0	6872.0	7314.1	7561.3	7554.0
66°	5018.5	5058.8	5176.9	5335.2	5603.1	5945.3	6349.6	6850.2	7344.6	7617.3	7634.4
67.5°	4726.3	4771.3	4887.0	5074.6	5335.2	5699.3	6134.1	6678.4	7237.4	7555.2	7600.3
70°	4157.6	4208.7	4292.7	4447.4	4704.4	5029.5	5487.4	5974.5	6560.3	6924.5	6979.2
72.5°	3475.6	3520.6	3614.4	3741.0	3951.8	4156.4	4515.6	4874.8	5293.8	5709.0	5668.9
75°	2495.2	2514.7	2570.8	2708.4	2821.7	3005.5	3294.2	3588.8	3875.0	4065.0	4091.8
77.5°	1297.0	1348.1	1427.3	1579.5	1702.5	1868.1	2055.6	2277.3	2486.7	2660.9	2613.4
80°	848.8	870.8	941.3	1019.3	1109.4	1215.3	1340.8	1423.6	1450.4	1439.5	1450.4
82.5°	489.5	529.7	623.5	683.2	750.2	786.7	886.5	981.6	1035.1	968.2	943.8
85°	62.1	80.4	253.3	319.1	365.4	420.1	450.6	507.8	473.7	423.8	516.4
87.5°	13.4	12.2	17.1	36.6	37.7	31.7	59.7	63.3	39.0	19.5	24.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1440.6	1441.9	1444.4	1448.0	1450.4	1452.8	1455.2	1459.0	1461.3	1463.8	1468.7
5°	1434.6	1439.5	1444.4	1449.2	1455.2	1465.0	1471.1	1476.0	1480.8	1490.6	1494.2
7.5°	1430.9	1439.5	1446.7	1455.2	1465.0	1473.6	1484.5	1490.6	1497.9	1503.9	1511.3
10°	1428.5	1440.6	1448.0	1460.1	1471.1	1479.6	1491.8	1499.1	1507.7	1514.9	1518.5
12.5°	1433.4	1439.5	1446.7	1459.0	1472.3	1484.5	1497.9	1503.9	1511.3	1517.4	1518.5
15°	1454.1	1454.1	1455.2	1465.0	1478.4	1488.2	1499.1	1505.2	1508.8	1512.5	1512.5
17.5°	1491.8	1483.3	1477.2	1478.4	1486.9	1493.1	1499.1	1499.1	1496.7	1495.4	1493.1
20°	1535.6	1524.7	1512.5	1503.9	1501.6	1496.7	1493.1	1480.8	1471.1	1462.6	1456.5
22.5°	1599.0	1582.0	1564.9	1549.0	1534.4	1516.2	1495.4	1471.1	1448.0	1432.1	1422.4
25°	1676.9	1663.5	1642.8	1618.4	1600.2	1566.1	1539.3	1503.9	1474.7	1454.1	1437.0
27.5°	1787.8	1771.9	1752.4	1730.5	1703.7	1665.9	1633.1	1591.7	1556.4	1525.9	1503.9
30°	1925.4	1904.7	1890.1	1863.2	1845.0	1802.4	1769.4	1718.3	1650.2	1601.5	1571.0
32.5°	2066.6	2043.4	2031.3	2010.6	1989.8	1964.4	1914.4	1835.2	1747.6	1668.4	1616.1
35°	2255.3	2231.0	2209.1	2190.8	2160.4	2112.8	2069.0	1974.1	1853.5	1742.7	1655.0
37.5°	2492.8	2452.6	2397.8	2351.6	2298.0	2229.7	2162.8	2065.4	1927.8	1784.0	1667.2
40°	2746.1	2675.5	2597.6	2511.1	2418.5	2319.9	2243.2	2144.6	1989.8	1819.4	1658.7
42.5°	3010.4	2898.3	2789.9	2668.2	2539.1	2422.2	2322.4	2214.0	2036.2	1829.1	1624.6
45°	3272.2	3146.8	2982.4	2822.9	2659.7	2514.7	2402.7	2280.9	2078.8	1832.7	1579.5
47.5°	3489.0	3359.9	3172.3	2972.6	2779.1	2614.6	2483.1	2351.6	2136.1	1858.3	1568.5
50°	3717.9	3560.8	3352.6	3116.4	2897.1	2713.3	2573.2	2436.8	2216.4	1924.1	1603.8
52.5°	3967.6	3787.4	3543.8	3279.6	3039.6	2833.8	2681.6	2541.6	2318.7	2016.7	1670.8
55°	4272.0	4051.6	3787.4	3489.0	3232.0	3004.4	2836.3	2670.7	2440.5	2126.3	1754.8
57.5°	4737.2	4466.9	4169.7	3829.9	3545.0	3275.9	3074.9	2883.7	2629.2	2289.4	1869.3
60°	5578.8	5290.2	4904.0	4492.4	4157.6	3843.4	3548.7	3311.2	2998.2	2611.0	2122.6
62.5°	6784.4	6400.7	5885.6	5309.6	4871.2	4418.1	4085.7	3732.5	3344.0	2926.4	2421.0
65°	7454.2	6988.9	6299.7	5631.1	5067.3	4575.2	4152.7	3743.5	3312.4	2913.0	2490.4
66°	7537.0	7052.3	6336.2	5632.3	5040.5	4535.1	4090.6	3666.8	3225.9	2844.8	2461.1
67.5°	7502.9	7007.3	6269.2	5526.4	4924.8	4381.7	3922.5	3482.9	3043.3	2687.7	2363.7
70°	6943.9	6473.8	5749.2	5029.5	4458.3	3922.5	3484.1	3051.8	2648.7	2344.2	2105.6
72.5°	5766.3	5364.5	4734.8	4169.7	3721.6	3279.6	2908.1	2495.2	2154.3	1929.0	1787.8
75°	4162.5	3918.9	3345.3	3021.3	2628.0	2334.5	1974.1	1729.3	1484.5	1374.9	1350.6
77.5°	2629.2	2301.7	1937.5	1595.3	1311.6	1087.5	846.3	718.5	599.2	586.9	708.8
80°	1331.1	1198.3	923.1	735.5	618.7	500.5	395.8	299.6	209.4	252.1	302.0
82.5°	871.9	727.0	569.9	468.8	408.0	338.5	263.0	182.7	134.0	151.0	207.0
85°	471.3	401.9	323.9	255.8	207.0	185.1	124.2	87.7	86.4	92.5	118.1
87.5°	34.1	34.1	26.8	24.4	29.2	24.4	22.0	22.0	20.7	22.0	29.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1471.1	1474.7	1476.0	1482.1	1485.7	1488.2	1490.6	1490.6	1491.8	1495.4	1496.7
5°	1499.1	1505.2	1512.5	1517.4	1519.8	1527.2	1529.5	1529.5	1532.0	1536.9	1540.5
7.5°	1516.2	1524.7	1532.0	1534.4	1539.3	1541.8	1545.4	1547.9	1547.9	1552.7	1555.1
10°	1522.3	1527.2	1534.4	1534.4	1539.3	1539.3	1542.9	1544.1	1544.1	1549.0	1552.7
12.5°	1522.3	1524.7	1530.8	1530.8	1534.4	1535.6	1540.5	1544.1	1545.4	1551.5	1556.4
15°	1514.9	1517.4	1522.3	1523.4	1532.0	1536.9	1547.9	1555.1	1555.1	1561.2	1563.6
17.5°	1494.2	1500.3	1510.1	1519.8	1535.6	1546.6	1560.0	1566.1	1561.2	1557.6	1553.9
20°	1460.1	1471.1	1494.2	1518.5	1546.6	1561.2	1568.5	1562.5	1545.4	1528.3	1517.4
22.5°	1426.0	1448.0	1486.9	1523.4	1555.1	1564.9	1561.2	1539.3	1511.3	1490.6	1476.0
25°	1441.9	1467.5	1505.2	1538.0	1558.8	1556.4	1541.8	1511.3	1480.8	1454.1	1429.7
27.5°	1507.7	1535.6	1556.4	1567.4	1564.9	1547.9	1524.7	1490.6	1454.1	1418.8	1384.7
30°	1569.7	1584.4	1589.2	1580.7	1561.2	1533.2	1503.9	1465.0	1416.3	1372.4	1333.5
32.5°	1597.7	1583.1	1560.0	1536.9	1505.2	1480.8	1440.6	1398.0	1337.1	1284.8	1245.8
35°	1597.7	1539.3	1480.8	1432.1	1384.7	1354.2	1307.9	1250.7	1194.6	1150.8	1120.4
37.5°	1562.5	1450.4	1354.2	1275.0	1215.3	1182.5	1113.1	1062.0	1014.4	999.8	980.3
40°	1497.9	1332.2	1193.5	1089.9	1014.4	965.7	896.3	861.0	842.7	835.4	831.7
42.5°	1411.4	1200.7	1015.6	887.8	806.2	751.4	705.1	683.2	682.0	680.7	680.7
45°	1318.9	1059.5	842.7	690.5	618.7	569.9	548.0	539.5	546.8	545.6	546.8
47.5°	1261.7	952.3	684.4	522.5	467.7	436.0	425.0	428.7	434.7	432.3	432.3
50°	1254.3	897.5	578.4	406.7	365.4	349.5	347.0	347.0	350.8	348.3	347.0
52.5°	1281.1	889.0	523.6	349.5	316.6	303.2	300.8	299.6	298.3	291.1	285.0
55°	1327.4	908.5	507.8	334.9	300.8	286.2	282.5	280.1	275.2	265.5	254.5
57.5°	1420.0	969.3	522.5	342.2	305.7	293.5	289.8	289.8	280.1	264.2	248.4
60°	1642.8	1124.0	582.1	370.3	328.8	316.6	319.1	317.8	303.2	280.1	255.8
62.5°	1930.3	1326.2	660.0	409.2	358.0	355.6	367.8	365.4	340.9	305.7	270.4
65°	2063.0	1421.1	682.0	417.7	364.1	375.1	399.5	397.0	366.5	317.8	272.7
66°	2065.4	1421.1	672.2	410.4	355.6	369.0	393.4	392.1	361.7	313.0	267.9
67.5°	2015.4	1382.2	644.2	395.8	338.5	348.3	370.3	369.0	340.9	300.8	258.1
70°	1827.9	1237.3	572.3	370.3	315.4	310.6	317.8	313.0	294.7	266.7	237.5
72.5°	1566.1	1038.8	499.3	350.8	299.6	280.1	275.2	271.6	257.0	241.1	222.9
75°	1233.7	822.0	438.4	336.1	285.0	259.4	250.9	246.0	236.3	225.3	210.7
77.5°	761.1	588.2	382.4	316.6	274.0	248.4	242.4	235.0	220.4	207.0	196.1
80°	339.8	364.1	314.2	276.5	244.8	221.7	211.9	200.9	186.3	177.8	171.7
82.5°	226.5	235.0	227.8	207.0	185.1	166.8	152.2	152.2	149.7	142.5	140.0
85°	144.9	146.1	141.2	127.9	119.4	108.4	102.3	103.5	108.4	107.2	105.9
87.5°	32.8	32.8	39.0	36.6	42.6	45.1	48.7	52.3	59.7	59.7	63.3
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):

	160°	165°	170°	175°	180°
0°	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1497.9	1500.3	1502.8	1499.1	1500.3
5°	1540.5	1539.3	1545.4	1541.8	1544.1
7.5°	1553.9	1555.1	1560.0	1560.0	1561.2
10°	1555.1	1557.6	1563.6	1567.4	1569.7
12.5°	1561.2	1566.1	1575.9	1578.2	1578.2
15°	1566.1	1568.5	1574.6	1577.1	1579.5
17.5°	1549.0	1544.1	1546.6	1547.9	1546.6
20°	1506.4	1501.6	1500.3	1495.4	1497.9
22.5°	1460.1	1446.7	1438.2	1428.5	1428.5
25°	1404.1	1383.4	1366.3	1349.3	1353.0
27.5°	1351.7	1325.0	1307.9	1297.0	1294.5
30°	1300.6	1272.6	1256.8	1243.4	1243.4
32.5°	1215.3	1195.9	1175.1	1166.6	1165.4
35°	1097.2	1085.1	1068.0	1064.4	1058.2
37.5°	964.5	960.8	946.2	945.0	939.0
40°	825.7	828.1	823.2	820.8	817.1
42.5°	686.8	699.1	696.6	695.3	693.0
45°	554.1	562.6	563.8	567.5	573.6
47.5°	436.0	438.4	440.8	439.6	440.8
50°	340.9	334.9	333.7	330.1	333.7
52.5°	275.2	265.5	260.6	255.8	253.3
55°	242.4	232.6	227.8	225.3	222.9
57.5°	233.8	224.0	216.8	211.9	210.7
60°	236.3	221.7	211.9	205.8	204.6
62.5°	242.4	222.9	209.4	203.4	202.2
65°	241.1	220.4	208.3	200.9	199.7
66°	237.5	218.0	205.8	199.7	198.5
67.5°	231.4	214.3	203.4	198.5	196.1
70°	220.4	209.4	200.9	194.8	192.4
72.5°	210.7	202.2	194.8	188.8	187.6
75°	199.7	192.4	185.1	180.2	179.1
77.5°	186.3	179.1	174.2	170.5	169.2
80°	164.4	159.5	154.6	149.7	149.7
82.5°	136.4	132.7	127.9	124.2	123.0
85°	104.8	104.8	101.0	97.4	96.2
87.5°	62.1	60.9	60.9	57.2	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)