

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: INVUE

Report Number: P181709

Luminaire Tested: **ICS-E04-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181709
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E04-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10879.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

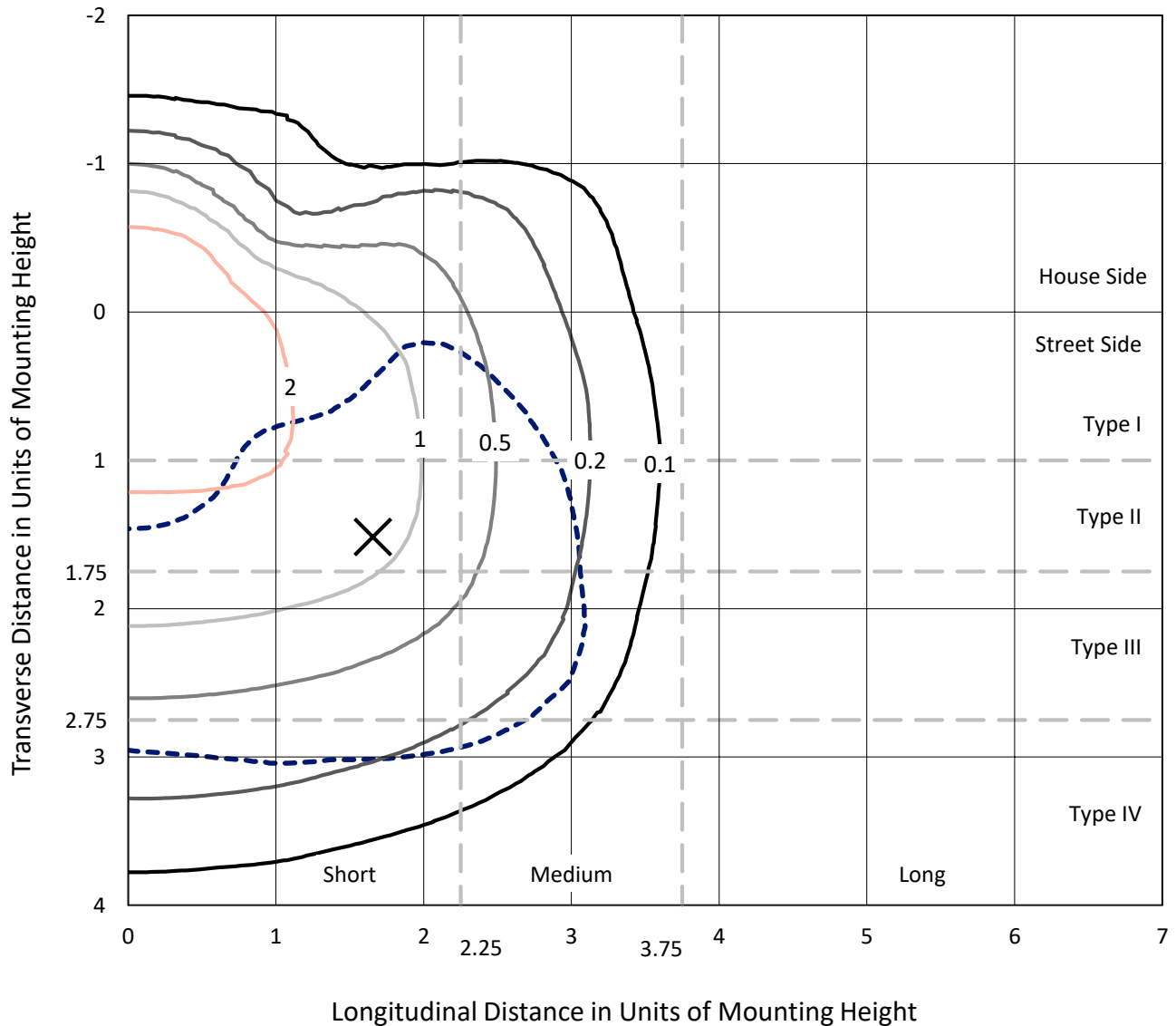
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

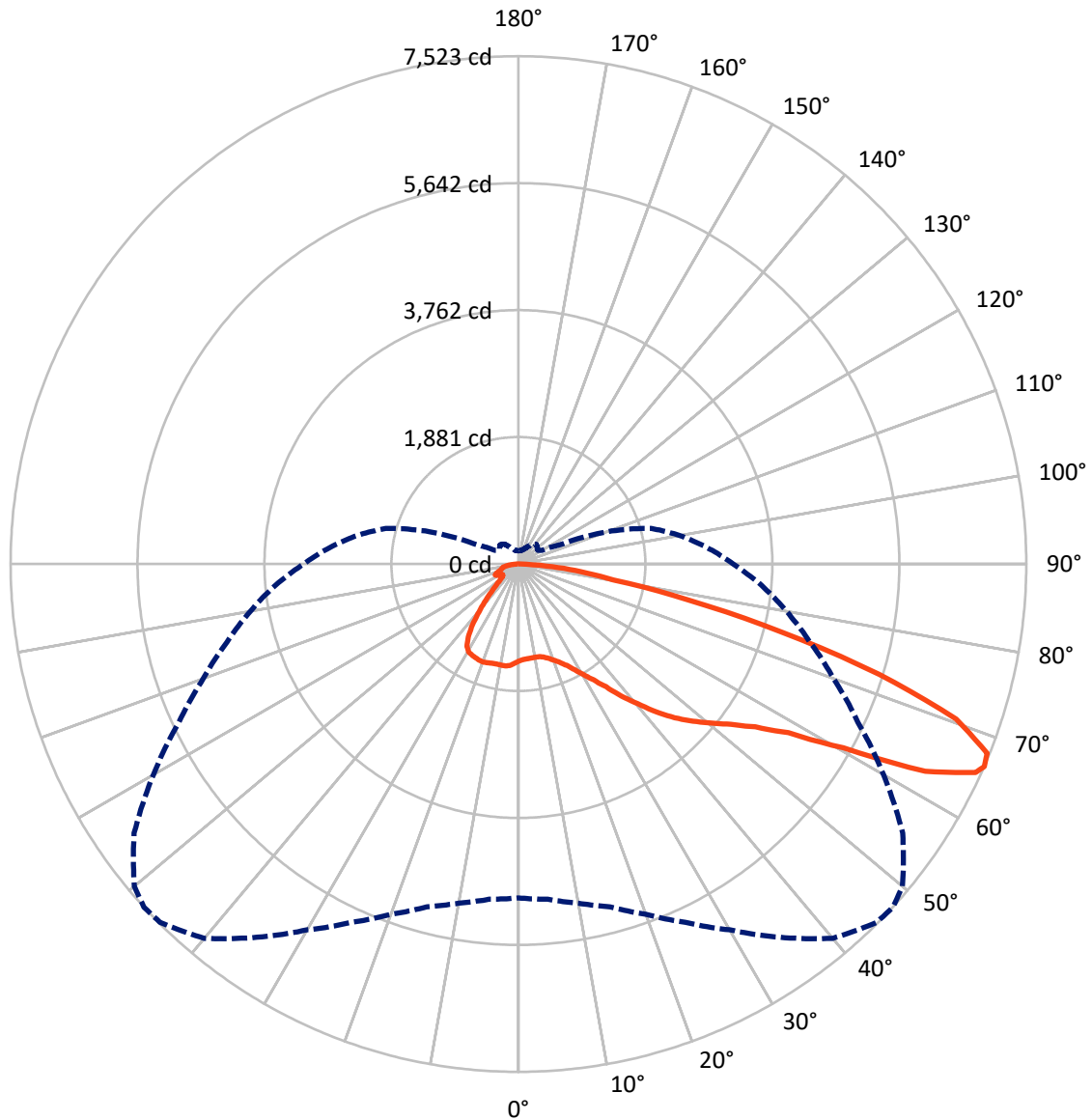
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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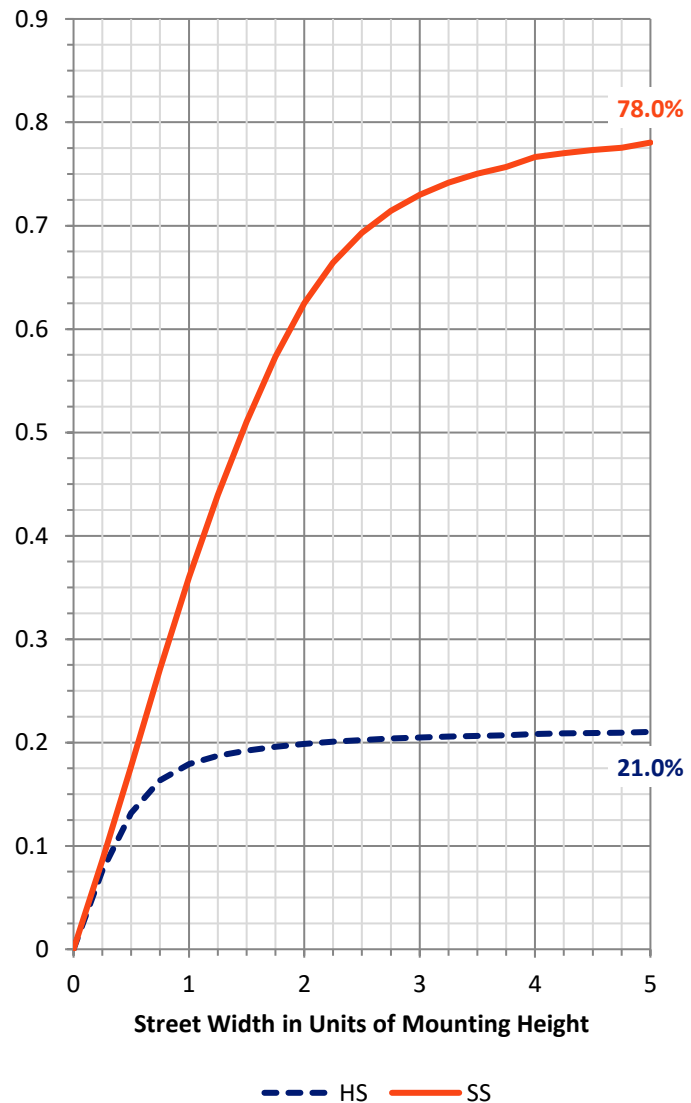
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.5	0.0	2321.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8558.4	0.0	8558.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	10879.9	0.0	10879.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.3
10°-20°	422.8	3.9
20°-30°	728.3	6.7
30°-40°	1101.8	10.1
40°-50°	1428.1	13.1
50°-60°	1968.9	18.1
60°-70°	3059.0	28.1
70°-80°	1778.8	16.3
80°-90°	252.9	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°	10879.9	100.0
0°-180°	10879.9	100.0



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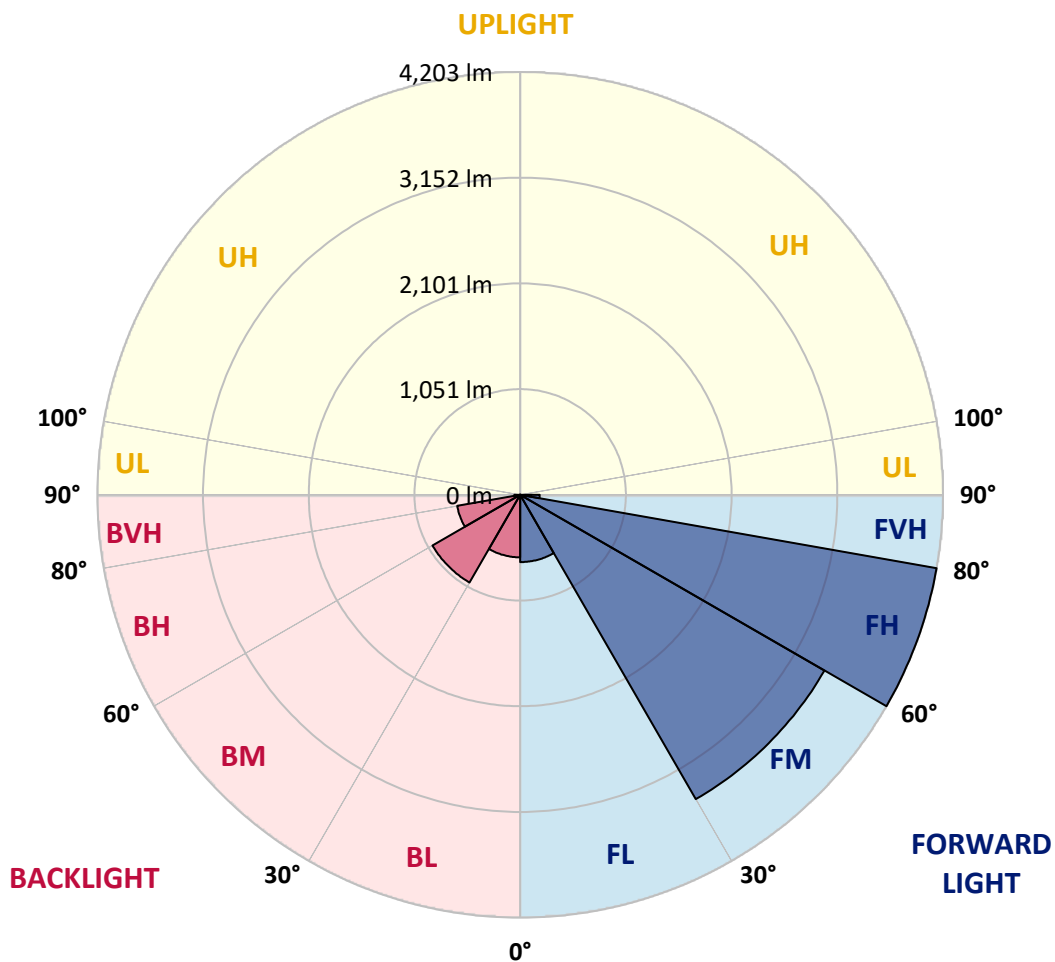
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.9	6.1			
FM (30°-60°)	3492.5	32.1			
FH (60°-80°)	4202.9	38.6			G2/5000
FVH (80°-90°)	194.1	1.8			G2/225
BL (0°-30°)	621.4	5.7	B2/1000		
BM (30°-60°)	1006.4	9.2	B2/2500		
BH (60°-80°)	634.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	58.8	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°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1407.7	1412.5	1408.9	1410.1	1410.1	1411.3	1411.3	1412.5	1411.3	1414.9	1417.3
5°	1382.5	1384.9	1383.7	1386.1	1388.5	1393.3	1392.1	1398.1	1399.3	1402.9	1408.9
7.5°	1372.9	1370.5	1371.7	1375.3	1377.7	1380.1	1382.5	1387.3	1390.9	1399.3	1404.1
10°	1382.5	1381.3	1382.5	1384.9	1384.9	1386.1	1383.7	1388.5	1390.9	1398.1	1402.9
12.5°	1422.1	1422.1	1419.7	1419.7	1417.3	1414.9	1408.9	1405.3	1404.1	1405.3	1407.7
15°	1485.7	1483.3	1478.5	1474.9	1470.1	1461.7	1453.3	1446.1	1441.3	1434.1	1431.7
17.5°	1548.1	1544.5	1539.7	1534.9	1528.9	1520.5	1507.3	1498.9	1485.7	1477.3	1472.5
20°	1620.1	1612.9	1606.9	1600.9	1588.9	1586.5	1573.3	1558.9	1543.3	1524.1	1521.7
22.5°	1713.7	1701.7	1694.5	1690.9	1678.9	1675.3	1653.7	1633.3	1614.1	1588.9	1582.9
25°	1808.5	1796.5	1792.9	1788.1	1779.7	1774.9	1754.5	1731.7	1706.5	1671.7	1664.5
27.5°	1900.9	1902.1	1892.5	1896.1	1893.7	1885.3	1864.9	1842.1	1822.9	1782.1	1773.7
30°	2016.1	2008.9	2004.1	2011.3	2002.9	2004.1	1986.1	1974.1	1942.9	1918.9	1902.1
32.5°	2136.1	2134.9	2142.1	2146.9	2145.7	2143.3	2128.9	2116.9	2089.3	2054.5	2047.3
35°	2300.5	2307.7	2313.7	2335.3	2335.3	2350.9	2336.5	2322.1	2289.7	2247.7	2233.3
37.5°	2412.1	2414.5	2438.5	2467.3	2503.3	2536.9	2546.5	2550.1	2536.9	2505.7	2484.1
40°	2514.1	2518.9	2557.3	2601.7	2654.5	2720.5	2760.2	2778.2	2781.8	2767.4	2720.5
42.5°	2616.1	2623.3	2662.9	2727.7	2801.0	2885.0	2954.6	2999.0	3024.2	3024.2	2996.6
45°	2734.9	2744.5	2787.8	2858.6	2943.8	3049.4	3145.4	3230.6	3271.4	3273.8	3247.4
47.5°	2875.4	2883.8	2934.2	3006.2	3093.8	3200.6	3321.8	3419.0	3494.6	3499.4	3477.8
50°	3056.6	3068.6	3110.6	3175.4	3265.4	3373.4	3494.6	3630.2	3709.4	3728.6	3705.8
52.5°	3296.6	3299.0	3333.8	3393.8	3481.4	3584.6	3713.0	3860.6	3965.0	3980.6	3943.4
55°	3627.8	3624.2	3647.0	3711.8	3777.8	3858.2	3991.4	4157.0	4273.4	4297.4	4259.0
57.5°	4077.8	4074.2	4093.4	4109.0	4232.6	4310.6	4441.4	4599.9	4712.7	4782.3	4716.3
60°	4775.1	4771.5	4802.7	4893.9	4986.3	5100.3	5227.5	5417.1	5575.5	5595.9	5531.1
62.5°	5280.3	5298.3	5366.7	5473.5	5660.7	5883.9	6116.7	6366.3	6691.6	6794.8	6763.6
65°	5103.9	5139.9	5234.7	5396.7	5646.3	5954.7	6319.5	6772.0	7207.6	7451.2	7444.0
66°	4945.5	4985.1	5101.5	5257.5	5521.5	5858.7	6257.1	6750.4	7237.6	7506.4	7523.2
67.5°	4657.5	4701.9	4815.9	5000.7	5257.5	5616.3	6044.7	6581.2	7132.0	7445.2	7489.6
70°	4097.0	4147.4	4230.2	4382.6	4635.9	4956.3	5407.5	5887.5	6464.8	6823.6	6877.6
72.5°	3425.0	3469.4	3561.8	3686.6	3894.2	4095.8	4449.8	4803.9	5216.7	5625.9	5586.3
75°	2458.9	2478.1	2533.3	2668.9	2780.6	2961.8	3246.2	3536.6	3818.6	4005.8	4032.2
77.5°	1278.1	1328.5	1406.5	1556.5	1677.7	1840.9	2025.7	2244.1	2450.5	2622.1	2575.3
80°	836.4	858.0	927.7	1004.5	1093.3	1197.7	1321.3	1402.9	1429.3	1418.5	1429.3
82.5°	482.4	522.0	614.4	673.2	739.2	775.2	873.6	967.3	1020.1	954.1	930.1
85°	61.2	79.2	249.6	314.4	360.0	414.0	444.0	500.4	466.8	417.6	508.8
87.5°	13.2	12.0	16.8	36.0	37.2	31.2	58.8	62.4	38.4	19.2	24.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1419.7	1420.9	1423.3	1426.9	1429.3	1431.7	1434.1	1437.7	1440.1	1442.5	1447.3
5°	1413.7	1418.5	1423.3	1428.1	1434.1	1443.7	1449.7	1454.5	1459.3	1468.9	1472.5
7.5°	1410.1	1418.5	1425.7	1434.1	1443.7	1452.1	1462.9	1468.9	1476.1	1482.1	1489.3
10°	1407.7	1419.7	1426.9	1438.9	1449.7	1458.1	1470.1	1477.3	1485.7	1492.9	1496.5
12.5°	1412.5	1418.5	1425.7	1437.7	1450.9	1462.9	1476.1	1482.1	1489.3	1495.3	1496.5
15°	1432.9	1432.9	1434.1	1443.7	1456.9	1466.5	1477.3	1483.3	1486.9	1490.5	1490.5
17.5°	1470.1	1461.7	1455.7	1456.9	1465.3	1471.3	1477.3	1477.3	1474.9	1473.7	1471.3
20°	1513.3	1502.5	1490.5	1482.1	1479.7	1474.9	1471.3	1459.3	1449.7	1441.3	1435.3
22.5°	1575.7	1558.9	1542.1	1526.5	1512.1	1494.1	1473.7	1449.7	1426.9	1411.3	1401.7
25°	1652.5	1639.3	1618.9	1594.9	1576.9	1543.3	1516.9	1482.1	1453.3	1432.9	1416.1
27.5°	1761.7	1746.1	1726.9	1705.3	1678.9	1641.7	1609.3	1568.5	1533.7	1503.7	1482.1
30°	1897.3	1876.9	1862.5	1836.1	1818.1	1776.1	1743.7	1693.3	1626.1	1578.1	1548.1
32.5°	2036.5	2013.7	2001.7	1981.3	1960.9	1935.7	1886.5	1808.5	1722.1	1644.1	1592.5
35°	2222.5	2198.5	2176.9	2158.9	2128.9	2082.1	2038.9	1945.3	1826.5	1717.3	1630.9
37.5°	2456.5	2416.9	2362.9	2317.3	2264.5	2197.3	2131.3	2035.3	1899.7	1758.1	1642.9
40°	2706.1	2636.5	2559.7	2474.5	2383.3	2286.1	2210.5	2113.3	1960.9	1792.9	1634.5
42.5°	2966.6	2856.2	2749.3	2629.3	2502.1	2386.9	2288.5	2181.7	2006.5	1802.5	1600.9
45°	3224.6	3101.0	2939.0	2781.8	2620.9	2478.1	2367.7	2247.7	2048.5	1806.1	1556.5
47.5°	3438.2	3311.0	3126.2	2929.4	2738.5	2576.5	2446.9	2317.3	2104.9	1831.3	1545.7
50°	3663.8	3509.0	3303.8	3071.0	2855.0	2673.7	2535.7	2401.3	2184.1	1896.1	1580.5
52.5°	3909.8	3732.2	3492.2	3231.8	2995.4	2792.6	2642.5	2504.5	2284.9	1987.3	1646.5
55°	4209.8	3992.6	3732.2	3438.2	3185.0	2960.6	2795.0	2631.7	2404.9	2095.3	1729.3
57.5°	4668.3	4401.8	4109.0	3774.2	3493.4	3228.2	3030.2	2841.8	2590.9	2256.1	1842.1
60°	5497.5	5213.1	4832.7	4427.0	4097.0	3787.4	3497.0	3263.0	2954.6	2572.9	2091.7
62.5°	6685.6	6307.5	5799.9	5232.3	4800.3	4353.8	4026.2	3678.2	3295.4	2883.8	2385.7
65°	7345.6	6887.2	6207.9	5549.1	4993.5	4508.6	4092.2	3689.0	3264.2	2870.6	2454.1
66°	7427.2	6949.6	6243.9	5550.3	4967.1	4469.0	4031.0	3613.4	3179.0	2803.4	2425.3
67.5°	7393.6	6905.2	6177.9	5445.9	4853.1	4317.8	3865.4	3432.2	2999.0	2648.5	2329.3
70°	6842.8	6379.5	5665.5	4956.3	4393.4	3865.4	3433.4	3007.4	2610.1	2310.1	2074.9
72.5°	5682.3	5286.3	4665.9	4109.0	3667.4	3231.8	2865.8	2458.9	2122.9	1900.9	1761.7
75°	4101.8	3861.8	3296.6	2977.4	2589.7	2300.5	1945.3	1704.1	1462.9	1354.9	1330.9
77.5°	2590.9	2268.1	1909.3	1572.1	1292.5	1071.7	834.0	708.0	590.4	578.4	698.4
80°	1311.7	1180.9	909.6	724.8	609.6	493.2	390.0	295.2	206.4	248.4	297.6
82.5°	859.2	716.4	561.6	462.0	402.0	333.6	259.2	180.0	132.0	148.8	204.0
85°	464.4	396.0	319.2	252.0	204.0	182.4	122.4	86.4	85.2	91.2	116.4
87.5°	33.6	33.6	26.4	24.0	28.8	24.0	21.6	21.6	20.4	21.6	28.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1449.7	1453.3	1454.5	1460.5	1464.1	1466.5	1468.9	1468.9	1470.1	1473.7	1474.9
5°	1477.3	1483.3	1490.5	1495.3	1497.7	1504.9	1507.3	1507.3	1509.7	1514.5	1518.1
7.5°	1494.1	1502.5	1509.7	1512.1	1516.9	1519.3	1522.9	1525.3	1525.3	1530.1	1532.5
10°	1500.1	1504.9	1512.1	1512.1	1516.9	1516.9	1520.5	1521.7	1521.7	1526.5	1530.1
12.5°	1500.1	1502.5	1508.5	1508.5	1512.1	1513.3	1518.1	1521.7	1522.9	1528.9	1533.7
15°	1492.9	1495.3	1500.1	1501.3	1509.7	1514.5	1525.3	1532.5	1532.5	1538.5	1540.9
17.5°	1472.5	1478.5	1488.1	1497.7	1513.3	1524.1	1537.3	1543.3	1538.5	1534.9	1531.3
20°	1438.9	1449.7	1472.5	1496.5	1524.1	1538.5	1545.7	1539.7	1522.9	1506.1	1495.3
22.5°	1405.3	1426.9	1465.3	1501.3	1532.5	1542.1	1538.5	1516.9	1489.3	1468.9	1454.5
25°	1420.9	1446.1	1483.3	1515.7	1536.1	1533.7	1519.3	1489.3	1459.3	1432.9	1408.9
27.5°	1485.7	1513.3	1533.7	1544.5	1542.1	1525.3	1502.5	1468.9	1432.9	1398.1	1364.5
30°	1546.9	1561.3	1566.1	1557.7	1538.5	1510.9	1482.1	1443.7	1395.7	1352.5	1314.1
32.5°	1574.5	1560.1	1537.3	1514.5	1483.3	1459.3	1419.7	1377.7	1317.7	1266.1	1227.7
35°	1574.5	1516.9	1459.3	1411.3	1364.5	1334.5	1288.9	1232.5	1177.3	1134.1	1104.1
37.5°	1539.7	1429.3	1334.5	1256.5	1197.7	1165.3	1096.9	1046.5	999.7	985.3	966.1
40°	1476.1	1312.9	1176.1	1074.1	999.7	951.7	883.2	848.4	830.4	823.2	819.6
42.5°	1390.9	1183.3	1000.9	874.8	794.4	740.4	694.8	673.2	672.0	670.8	670.8
45°	1299.7	1044.1	830.4	680.4	609.6	561.6	540.0	531.6	538.8	537.6	538.8
47.5°	1243.3	938.5	674.4	514.8	460.8	429.6	418.8	422.4	428.4	426.0	426.0
50°	1236.1	884.4	570.0	400.8	360.0	344.4	342.0	342.0	345.6	343.2	342.0
52.5°	1262.5	876.0	516.0	344.4	312.0	298.8	296.4	295.2	294.0	286.8	280.8
55°	1308.1	895.2	500.4	330.0	296.4	282.0	278.4	276.0	271.2	261.6	250.8
57.5°	1399.3	955.3	514.8	337.2	301.2	289.2	285.6	285.6	276.0	260.4	244.8
60°	1618.9	1107.7	573.6	364.8	324.0	312.0	314.4	313.2	298.8	276.0	252.0
62.5°	1902.1	1306.9	650.4	403.2	352.8	350.4	362.4	360.0	336.0	301.2	266.4
65°	2032.9	1400.5	672.0	411.6	358.8	369.6	393.6	391.2	361.2	313.2	268.8
66°	2035.3	1400.5	662.4	404.4	350.4	363.6	387.6	386.4	356.4	308.4	264.0
67.5°	1986.1	1362.1	634.8	390.0	333.6	343.2	364.8	363.6	336.0	296.4	254.4
70°	1801.3	1219.3	564.0	364.8	310.8	306.0	313.2	308.4	290.4	262.8	234.0
72.5°	1543.3	1023.7	492.0	345.6	295.2	276.0	271.2	267.6	253.2	237.6	219.6
75°	1215.7	810.0	432.0	331.2	280.8	255.6	247.2	242.4	232.8	222.0	207.6
77.5°	750.0	579.6	376.8	312.0	270.0	244.8	238.8	231.6	217.2	204.0	193.2
80°	334.8	358.8	309.6	272.4	241.2	218.4	208.8	198.0	183.6	175.2	169.2
82.5°	223.2	231.6	224.4	204.0	182.4	164.4	150.0	150.0	147.6	140.4	138.0
85°	142.8	144.0	139.2	126.0	117.6	106.8	100.8	102.0	106.8	105.6	104.4
87.5°	32.4	32.4	38.4	36.0	42.0	44.4	48.0	51.6	58.8	58.8	62.4
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):

	160°	165°	170°	175°	180°
0°	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1476.1	1478.5	1480.9	1477.3	1478.5
5°	1518.1	1516.9	1522.9	1519.3	1521.7
7.5°	1531.3	1532.5	1537.3	1537.3	1538.5
10°	1532.5	1534.9	1540.9	1544.5	1546.9
12.5°	1538.5	1543.3	1552.9	1555.3	1555.3
15°	1543.3	1545.7	1551.7	1554.1	1556.5
17.5°	1526.5	1521.7	1524.1	1525.3	1524.1
20°	1484.5	1479.7	1478.5	1473.7	1476.1
22.5°	1438.9	1425.7	1417.3	1407.7	1407.7
25°	1383.7	1363.3	1346.5	1329.7	1333.3
27.5°	1332.1	1305.7	1288.9	1278.1	1275.7
30°	1281.7	1254.1	1238.5	1225.3	1225.3
32.5°	1197.7	1178.5	1158.1	1149.7	1148.5
35°	1081.3	1069.3	1052.5	1048.9	1042.9
37.5°	950.5	946.9	932.5	931.3	925.3
40°	813.6	816.0	811.2	808.8	805.2
42.5°	676.8	688.8	686.4	685.2	682.8
45°	546.0	554.4	555.6	559.2	565.2
47.5°	429.6	432.0	434.4	433.2	434.4
50°	336.0	330.0	328.8	325.2	328.8
52.5°	271.2	261.6	256.8	252.0	249.6
55°	238.8	229.2	224.4	222.0	219.6
57.5°	230.4	220.8	213.6	208.8	207.6
60°	232.8	218.4	208.8	202.8	201.6
62.5°	238.8	219.6	206.4	200.4	199.2
65°	237.6	217.2	205.2	198.0	196.8
66°	234.0	214.8	202.8	196.8	195.6
67.5°	228.0	211.2	200.4	195.6	193.2
70°	217.2	206.4	198.0	192.0	189.6
72.5°	207.6	199.2	192.0	186.0	184.8
75°	196.8	189.6	182.4	177.6	176.4
77.5°	183.6	176.4	171.6	168.0	166.8
80°	162.0	157.2	152.4	147.6	147.6
82.5°	134.4	130.8	126.0	122.4	121.2
85°	103.2	103.2	99.6	96.0	94.8
87.5°	61.2	60.0	60.0	56.4	56.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)