

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: P180878

Luminaire Tested: **ICM-E03-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180878
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E03-LED-E1-SL4
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8244.1 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

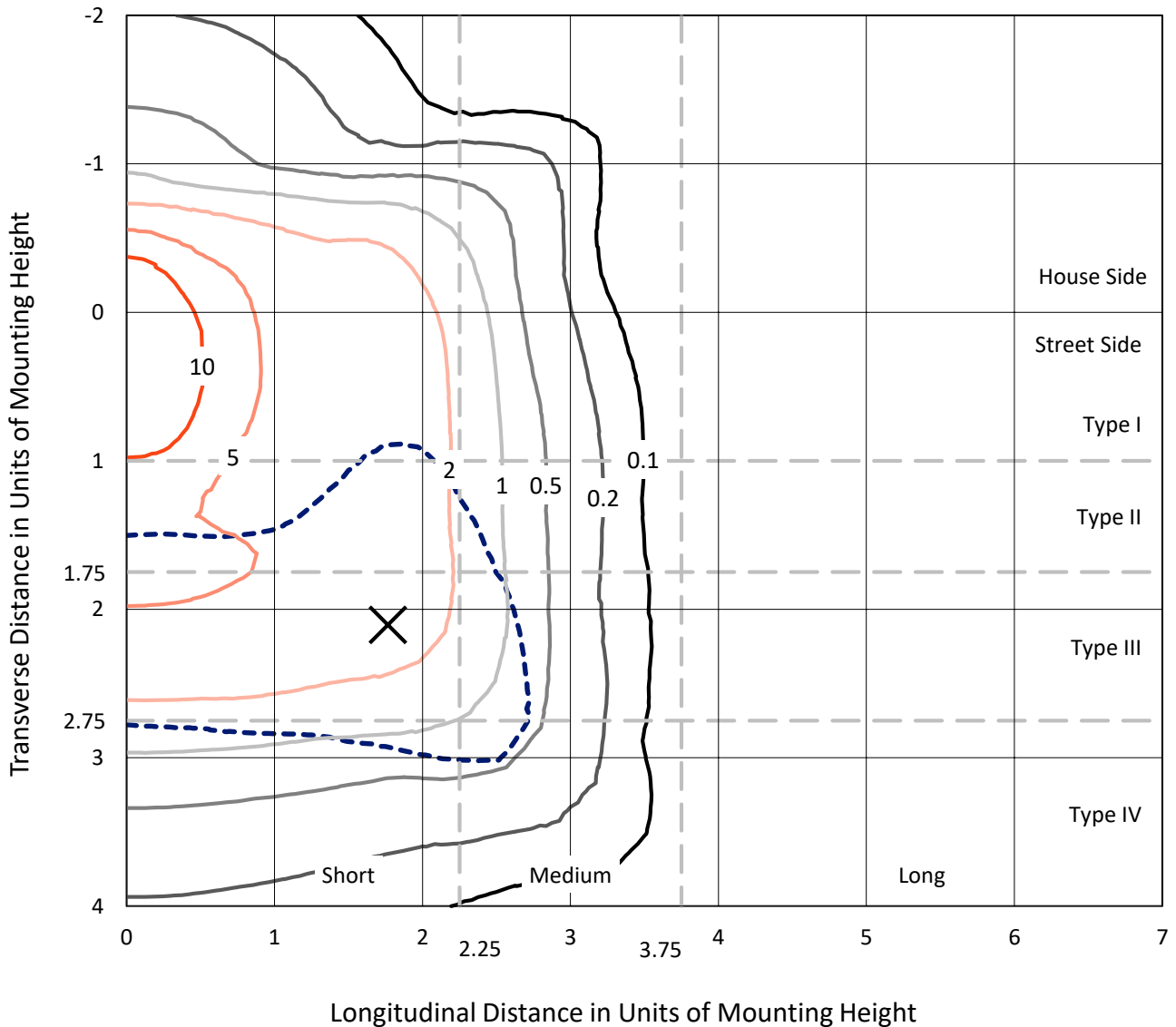
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

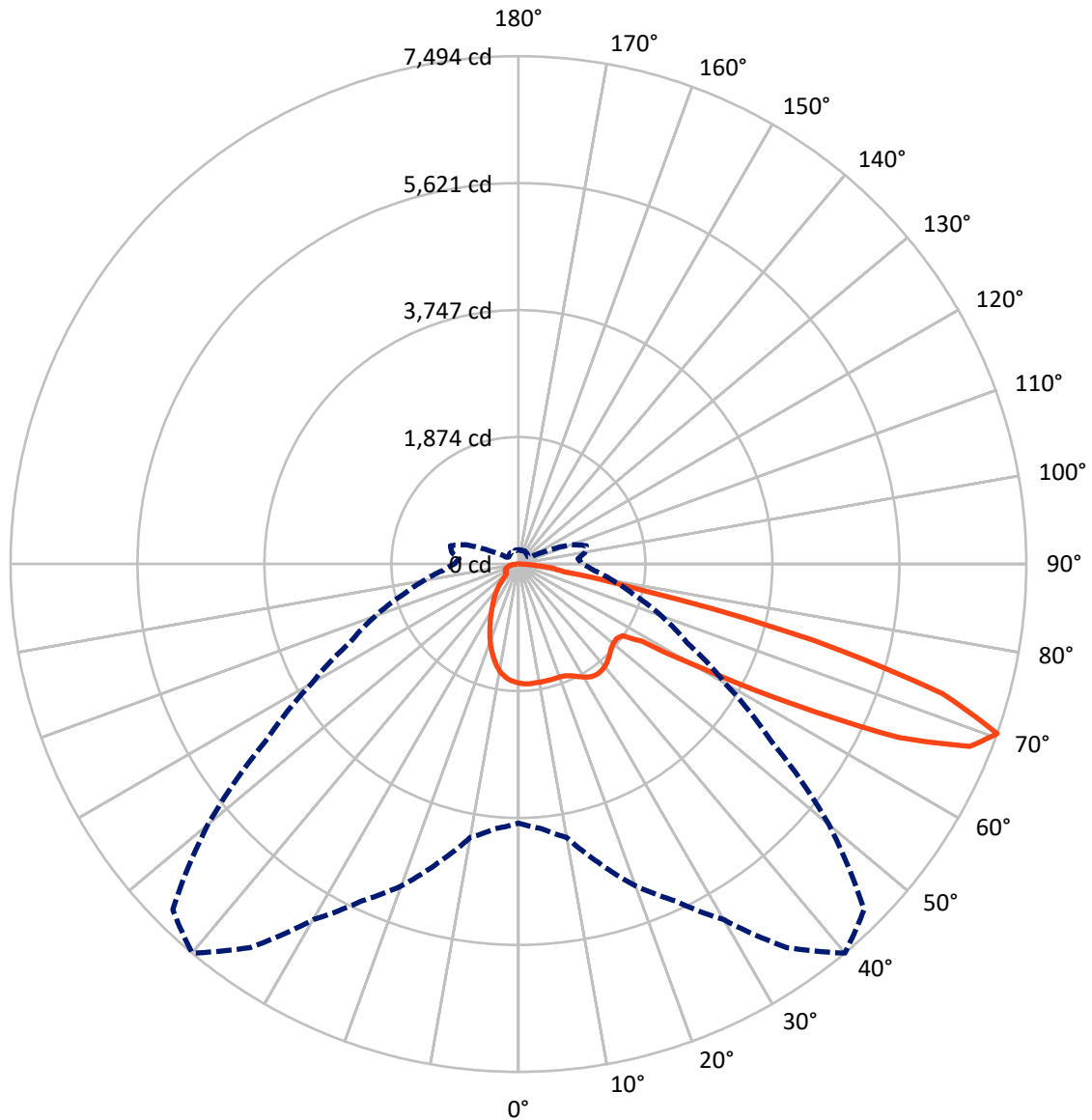
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1711.4	0.0	1711.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6532.7	0.0	6532.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	8244.1	0.0	8244.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	2.0
10°-20°	449.9	5.5
20°-30°	666.0	8.1
30°-40°	841.6	10.2
40°-50°	951.8	11.5
50°-60°	1354.5	16.4
60°-70°	2522.6	30.6
70°-80°	1156.1	14.0
80°-90°	137.2	1.7
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°	8244.1	100.0
0°-180°	8244.1	100.0



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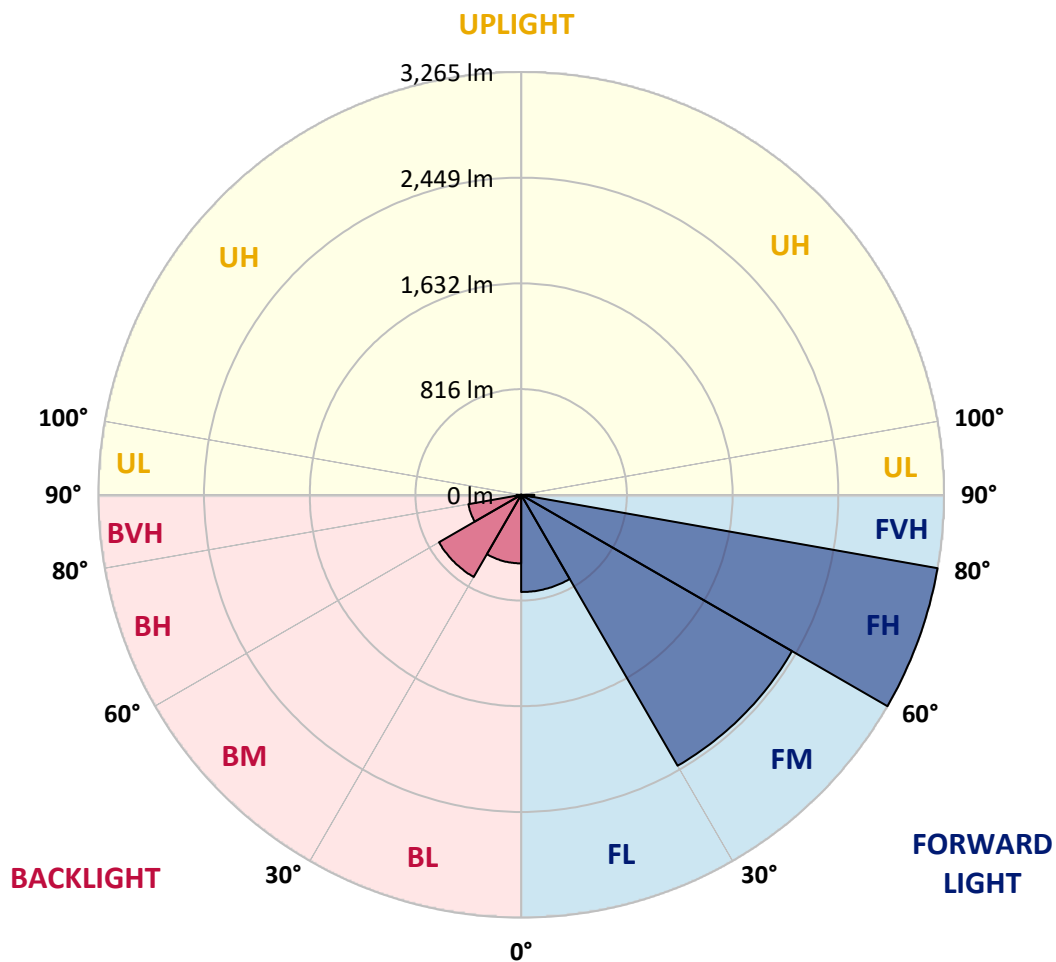
CATALOG NUMBER: ICM-E03-LED-E1-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.7	9.1			
FM	(30°-60°)	2415.2	29.3			
FH	(60°-80°)	3265.0	39.6			G2/5000
FVH	(80°-90°)	101.8	1.2			G2/225
BL	(0°-30°)	529.5	6.4	B2/1000		
BM	(30°-60°)	732.7	8.9	B1/1000		
BH	(60°-80°)	413.7	5.0	B1/500		G1/500
BVH	(80°-90°)	35.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1786.1	1790.7	1785.1	1784.2	1784.2	1783.3	1777.7	1776.8	1769.3	1770.2	1772.1
5°	1799.1	1800.9	1797.2	1796.3	1794.4	1790.7	1786.1	1780.5	1774.9	1769.3	1764.7
7.5°	1812.1	1810.2	1807.5	1807.5	1804.7	1799.1	1789.8	1782.3	1770.2	1763.7	1755.4
10°	1830.7	1827.9	1824.2	1822.3	1817.7	1809.3	1796.3	1786.1	1771.2	1758.2	1744.2
12.5°	1848.4	1847.5	1841.9	1839.1	1831.6	1823.3	1807.5	1791.6	1772.1	1751.6	1733.0
15°	1880.0	1876.3	1870.7	1865.1	1853.0	1841.9	1817.7	1799.1	1771.2	1744.2	1715.4
17.5°	1934.9	1928.4	1922.8	1910.7	1895.8	1876.3	1840.9	1809.3	1771.2	1732.1	1699.5
20°	2035.4	2021.4	2014.0	1998.2	1972.1	1936.8	1881.9	1830.7	1774.0	1723.7	1680.0
22.5°	2148.9	2139.5	2129.3	2119.1	2078.2	2027.0	1952.6	1876.3	1790.7	1720.0	1664.2
25°	2276.3	2264.2	2258.6	2240.9	2202.8	2144.2	2042.8	1936.8	1828.8	1734.9	1664.2
27.5°	2389.8	2386.1	2385.1	2364.7	2328.4	2259.5	2139.5	2012.1	1880.9	1765.6	1678.1
30°	2493.0	2489.3	2487.5	2476.3	2434.4	2352.6	2222.3	2079.1	1937.7	1808.4	1704.2
32.5°	2602.8	2590.7	2585.1	2563.7	2516.3	2420.5	2271.6	2122.8	1982.3	1850.2	1733.0
35°	2692.1	2681.9	2670.7	2640.0	2573.0	2459.5	2293.0	2137.7	2000.0	1873.5	1747.9
37.5°	2757.2	2747.0	2731.2	2692.1	2609.3	2472.6	2292.1	2133.0	1993.5	1869.8	1750.7
40°	2786.1	2775.8	2759.1	2709.8	2615.8	2465.1	2274.4	2111.6	1974.0	1850.2	1739.5
42.5°	2774.9	2767.5	2746.1	2698.6	2595.4	2431.6	2239.1	2071.6	1936.8	1818.6	1714.4
45°	2732.1	2726.5	2706.1	2655.8	2548.9	2377.7	2187.0	2021.4	1892.1	1779.5	1680.9
47.5°	2667.9	2666.1	2645.6	2596.3	2490.2	2323.7	2133.0	1972.1	1847.5	1741.4	1653.0
50°	2597.2	2587.9	2577.7	2532.1	2435.4	2277.2	2094.0	1941.4	1822.3	1727.5	1640.9
52.5°	2552.6	2549.8	2540.5	2499.6	2406.5	2250.2	2076.3	1930.2	1820.5	1724.7	1634.4
55°	2948.9	2955.4	2869.8	2692.1	2535.8	2324.7	2129.3	1987.0	1866.1	1769.3	1703.3
57.5°	4361.9	4333.0	4186.1	3833.5	3435.4	2909.8	2531.2	2301.4	2151.6	2168.4	2201.9
60°	5081.9	5076.3	5049.3	4912.6	4647.5	4247.5	3803.7	3294.9	3133.0	3150.7	3163.7
62.5°	5403.8	5412.1	5432.6	5381.4	5311.7	5195.4	4974.0	4769.3	4552.6	4471.7	4254.9
65°	5552.6	5567.5	5614.0	5642.8	5669.8	5690.3	5777.7	6017.7	6175.9	5880.0	5191.7
67.5°	5244.7	5316.3	5469.8	5619.6	5753.5	5944.2	6240.0	6797.3	7185.2	6821.4	5823.3
70°	3823.3	3921.0	4096.8	4560.0	5054.9	5487.5	6060.5	6908.9	7494.0	7213.1	5979.6
72.5°	2397.2	2424.2	2502.3	2672.6	3040.0	3595.4	4597.2	5869.8	6545.2	6321.0	5054.0
75°	1520.9	1530.2	1527.5	1566.5	1628.8	1749.8	2146.1	3467.0	4483.7	4134.0	2816.8
77.5°	906.1	920.0	925.6	937.7	967.4	1010.2	1042.8	1179.5	1880.0	1825.1	1022.3
80°	759.1	770.2	760.9	758.1	739.5	726.5	742.3	726.5	674.4	649.3	598.1
82.5°	401.9	400.9	398.1	425.1	480.0	522.8	555.4	547.9	495.8	422.3	358.1
85°	220.5	227.9	227.9	237.2	228.8	229.8	237.2	250.2	231.6	193.5	158.1
87.5°	18.6	28.8	23.3	28.8	39.1	27.9	27.0	27.0	23.3	16.7	14.9
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°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1767.5	1765.6	1761.9	1759.1	1759.1	1754.4	1751.6	1749.8	1748.8	1745.1	1745.1
5°	1761.9	1755.4	1748.8	1744.2	1741.4	1736.8	1729.3	1725.6	1720.9	1717.2	1715.4
7.5°	1749.8	1737.7	1727.5	1720.0	1710.7	1703.3	1694.0	1685.6	1677.2	1673.5	1671.6
10°	1731.2	1715.4	1699.5	1685.6	1672.6	1659.5	1647.5	1635.4	1625.1	1617.7	1610.2
12.5°	1713.5	1689.3	1668.8	1648.4	1627.9	1612.1	1595.4	1577.7	1562.8	1548.8	1545.1
15°	1689.3	1661.4	1635.4	1610.2	1585.1	1559.1	1538.6	1519.1	1494.9	1479.1	1467.0
17.5°	1667.0	1633.5	1601.9	1572.1	1541.4	1514.4	1483.7	1457.7	1433.5	1409.3	1391.6
20°	1642.8	1606.5	1573.0	1539.5	1506.1	1471.6	1436.3	1402.8	1373.0	1344.2	1315.4
22.5°	1621.4	1584.2	1551.6	1515.4	1478.1	1439.1	1398.1	1356.3	1321.9	1284.7	1251.2
25°	1608.4	1567.5	1534.0	1498.6	1457.7	1414.9	1368.4	1319.1	1277.2	1234.4	1194.4
27.5°	1608.4	1555.4	1520.9	1485.6	1443.7	1398.1	1347.0	1293.0	1245.6	1198.1	1148.8
30°	1622.3	1557.2	1510.7	1473.5	1430.7	1381.4	1324.7	1267.9	1215.8	1160.0	1112.6
32.5°	1635.4	1560.9	1503.3	1455.8	1406.5	1358.1	1300.5	1240.0	1182.3	1129.3	1079.1
35°	1643.7	1560.9	1489.3	1428.8	1373.0	1325.6	1268.8	1208.4	1149.8	1097.7	1051.2
37.5°	1644.7	1553.5	1467.0	1398.1	1339.5	1290.2	1236.3	1179.5	1123.7	1075.4	1036.3
40°	1635.4	1538.6	1444.7	1365.6	1304.2	1254.0	1204.7	1153.5	1103.3	1063.3	1029.8
42.5°	1618.6	1522.8	1423.3	1339.5	1275.4	1223.3	1177.7	1134.0	1090.2	1055.8	1027.9
45°	1593.5	1501.4	1403.7	1323.7	1260.5	1205.6	1160.9	1124.7	1087.4	1058.6	1030.7
47.5°	1571.2	1494.0	1410.2	1334.0	1267.9	1211.2	1165.6	1134.9	1106.1	1086.5	1048.4
50°	1566.5	1490.2	1413.0	1342.3	1275.4	1217.7	1177.7	1161.9	1153.5	1141.4	1082.8
52.5°	1553.5	1489.3	1433.5	1394.4	1351.6	1324.7	1282.8	1297.7	1288.4	1245.6	1139.5
55°	1690.2	1708.8	1760.9	1835.4	1904.2	1920.0	1915.4	1897.7	1803.7	1551.6	1276.3
57.5°	2323.7	2428.9	2527.5	2571.2	2565.6	2516.3	2480.9	2409.3	2273.5	1966.5	1546.1
60°	3203.7	3220.5	3168.4	3091.2	2960.9	2852.1	2735.8	2601.9	2404.7	2104.2	1711.6
62.5°	4014.0	3788.9	3557.2	3339.6	3141.4	2968.4	2806.5	2619.6	2362.8	2049.3	1690.2
65°	4586.1	4109.8	3744.2	3431.6	3151.6	2909.8	2707.9	2465.1	2175.8	1893.0	1566.5
67.5°	4881.0	4150.7	3589.8	3154.4	2757.2	2422.3	2153.5	1917.2	1702.3	1578.6	1371.2
70°	4551.7	3522.8	2741.4	2249.3	1774.0	1422.3	1123.7	943.3	880.9	998.1	1038.1
72.5°	3391.6	2293.0	1630.7	1261.4	966.5	770.2	590.7	464.2	377.7	396.3	514.4
75°	1603.7	989.8	699.5	532.1	423.3	350.7	286.5	262.3	219.5	182.3	171.2
77.5°	624.2	454.9	375.8	275.4	195.4	157.2	134.0	129.3	132.1	128.4	126.5
80°	475.4	321.9	201.9	147.9	127.4	112.6	99.5	95.8	97.7	102.3	107.0
82.5°	265.1	165.6	122.8	107.0	95.8	81.9	74.4	68.8	69.8	75.3	85.6
85°	102.3	80.0	73.5	70.7	66.0	53.0	45.6	46.5	53.0	63.3	63.3
87.5°	11.2	11.2	14.9	11.2	11.2	11.2	10.2	12.1	13.0	16.7	19.5
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°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1743.3	1743.3	1743.3	1741.4	1742.3	1738.6	1738.6	1735.8	1740.5	1737.7	1736.8
5°	1716.3	1715.4	1711.6	1711.6	1711.6	1711.6	1714.4	1707.0	1712.6	1712.6	1709.8
7.5°	1670.7	1670.7	1660.5	1666.1	1664.2	1667.0	1670.7	1667.0	1672.6	1676.3	1673.5
10°	1607.5	1607.5	1599.1	1605.6	1602.8	1609.3	1615.8	1612.1	1615.8	1621.4	1623.3
12.5°	1537.7	1534.0	1526.5	1529.3	1529.3	1533.0	1535.8	1540.5	1545.1	1552.6	1556.3
15°	1456.8	1451.2	1441.9	1441.9	1436.3	1438.1	1443.7	1445.6	1454.9	1465.1	1477.2
17.5°	1374.0	1360.0	1349.8	1337.7	1328.4	1335.8	1342.3	1347.0	1354.4	1370.2	1378.6
20°	1295.8	1267.9	1248.4	1232.6	1222.3	1227.0	1235.4	1240.9	1247.4	1251.2	1254.0
22.5°	1218.6	1187.0	1160.0	1140.5	1123.7	1128.4	1124.7	1121.9	1126.5	1114.4	1113.5
25°	1151.6	1114.4	1078.1	1054.9	1034.4	1027.9	1008.4	1003.7	990.7	980.5	973.0
27.5°	1103.3	1054.9	1014.9	987.9	955.4	931.2	906.1	880.9	867.0	850.2	841.9
30°	1065.1	1014.0	966.5	920.9	878.1	840.9	807.4	774.9	752.6	728.4	712.6
32.5°	1029.8	982.3	924.7	862.3	804.7	762.8	719.1	681.9	646.5	614.9	591.6
35°	1005.6	952.6	879.1	802.8	737.7	688.4	641.9	588.8	546.0	505.1	480.0
37.5°	992.6	927.4	837.2	752.6	680.0	624.2	566.5	505.1	453.0	414.9	376.7
40°	982.3	902.3	800.0	707.9	631.6	564.7	497.7	425.1	367.4	327.4	297.7
42.5°	971.2	874.4	767.4	672.6	587.9	509.8	428.8	351.6	296.7	268.8	255.8
45°	959.1	850.2	736.7	639.1	545.1	450.2	357.2	285.6	253.0	243.7	243.7
47.5°	956.3	834.4	714.4	606.5	496.7	381.4	291.2	246.5	237.2	239.1	242.8
50°	967.4	829.8	694.9	568.4	432.6	308.8	246.5	231.6	233.5	239.1	244.7
52.5°	994.4	833.5	674.4	515.4	356.3	254.9	227.9	227.0	232.6	240.9	246.5
55°	1040.0	833.5	635.4	436.3	284.7	228.8	221.4	225.1	232.6	240.0	244.7
57.5°	1137.7	825.1	566.5	348.8	238.1	219.5	219.5	224.2	230.7	238.1	241.9
60°	1254.0	814.0	469.8	269.8	214.9	212.1	218.6	224.2	229.8	236.3	240.0
62.5°	1261.4	785.1	372.1	223.3	202.8	207.4	217.7	225.1	227.0	231.6	236.3
65°	1159.1	684.7	295.8	200.0	197.2	204.7	214.9	220.5	221.4	223.3	227.9
67.5°	1014.9	558.1	239.1	188.8	191.6	200.0	205.6	210.2	213.0	217.7	218.6
70°	833.5	448.4	204.7	177.7	180.5	189.8	194.4	199.1	204.7	210.2	207.4
72.5°	590.7	348.8	179.5	165.6	169.3	177.7	183.3	187.0	191.6	197.2	193.5
75°	251.2	243.7	155.3	149.8	155.3	160.9	166.5	172.1	176.7	179.5	179.5
77.5°	128.4	143.3	134.0	134.0	137.7	143.3	147.9	153.5	156.3	159.1	162.8
80°	108.8	110.7	112.6	116.3	120.0	125.6	130.2	134.9	135.8	136.7	138.6
82.5°	90.2	94.0	95.8	101.4	104.2	106.0	108.8	108.8	110.7	110.7	107.9
85°	65.1	69.8	72.6	73.5	72.6	73.5	74.4	76.3	80.9	80.9	77.2
87.5°	18.6	17.7	22.3	23.3	25.1	28.8	32.6	39.1	40.9	42.8	42.8
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):

	165°	170°	175°	180°
0°	1759.1	1759.1	1759.1	1759.1
2.5°	1735.8	1737.7	1734.0	1734.9
5°	1709.8	1713.5	1708.8	1714.4
7.5°	1676.3	1681.9	1680.9	1680.0
10°	1627.9	1635.4	1635.4	1638.1
12.5°	1566.5	1571.2	1574.9	1576.8
15°	1483.7	1492.1	1496.8	1496.8
17.5°	1384.2	1389.8	1392.6	1388.8
20°	1257.7	1255.8	1256.8	1247.4
22.5°	1111.6	1114.4	1106.1	1107.9
25°	968.4	963.7	967.4	961.9
27.5°	829.8	830.7	820.5	825.1
30°	697.7	693.0	680.0	686.5
32.5°	570.2	558.1	544.2	535.8
35°	450.2	431.6	425.1	422.3
37.5°	353.5	333.0	326.5	319.1
40°	280.9	273.5	270.7	272.6
42.5°	252.1	252.1	254.0	254.9
45°	244.7	247.4	250.2	251.2
47.5°	245.6	248.4	252.1	253.0
50°	247.4	250.2	253.0	254.0
52.5°	248.4	248.4	250.2	251.2
55°	246.5	245.6	246.5	247.4
57.5°	242.8	240.9	241.9	244.7
60°	240.9	238.1	240.0	241.9
62.5°	236.3	235.4	237.2	238.1
65°	226.0	227.0	229.8	229.8
67.5°	216.7	217.7	218.6	219.5
70°	205.6	206.5	208.4	209.3
72.5°	192.6	196.3	199.1	202.8
75°	182.3	186.0	191.6	195.4
77.5°	164.7	167.4	174.0	178.6
80°	139.5	138.6	139.5	142.3
82.5°	107.0	107.0	106.0	105.1
85°	75.3	74.4	71.6	71.6
87.5°	40.9	40.0	39.1	37.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)