

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: P180886

Luminaire Tested: **ICM-E04-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180886
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-E04-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9277.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): 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

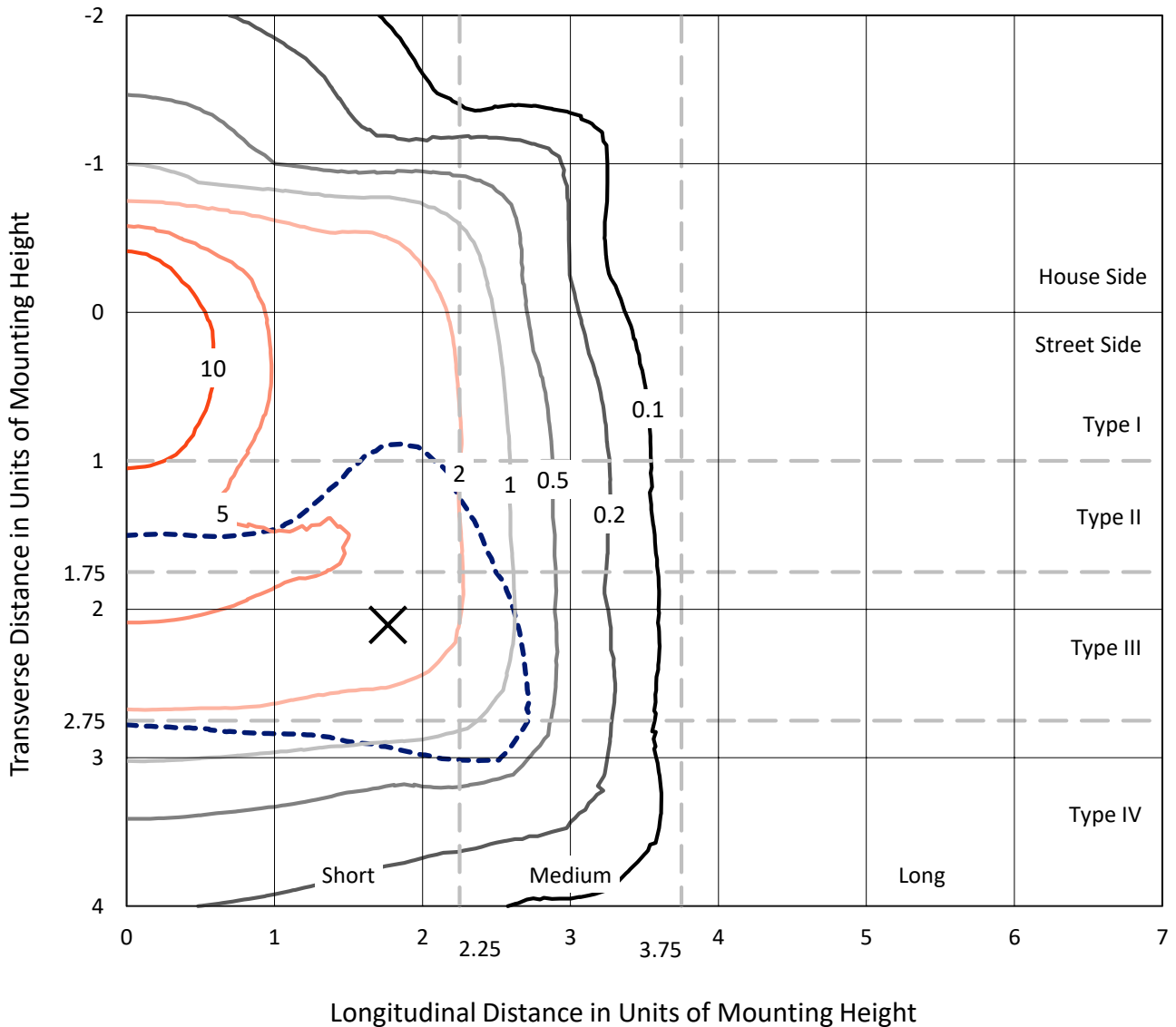


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Iso-Footcandle Lines of Horizontal Illumination

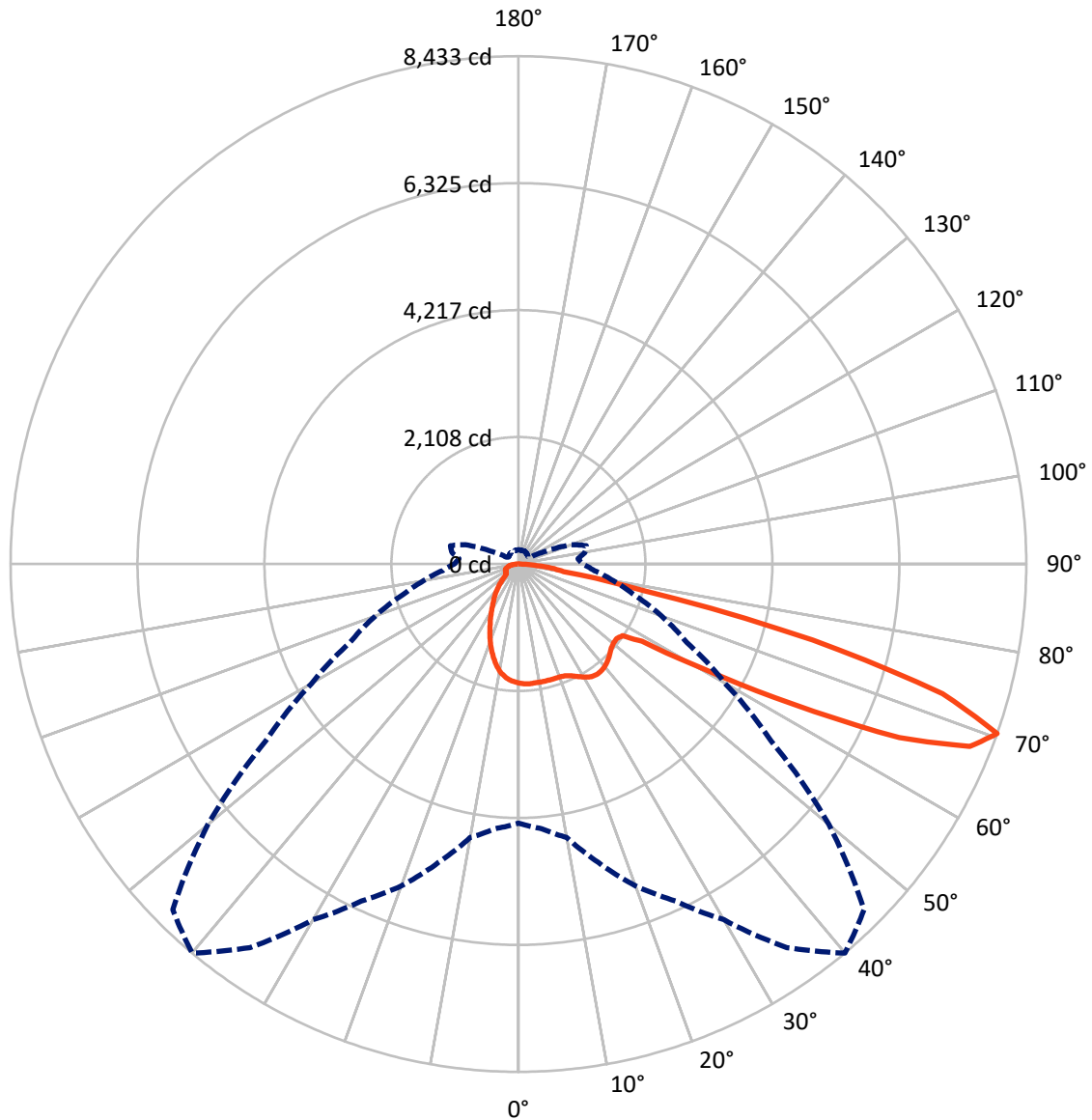
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 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	1925.9	0.0	1925.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7351.4	0.0	7351.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	9277.3	0.0	9277.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	2.0
10°-20°	506.3	5.5
20°-30°	749.4	8.1
30°-40°	947.1	10.2
40°-50°	1071.1	11.5
50°-60°	1524.2	16.4
60°-70°	2838.7	30.6
70°-80°	1301.0	14.0
80°-90°	154.4	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°	9277.3	100.0
0°-180°	9277.3	100.0



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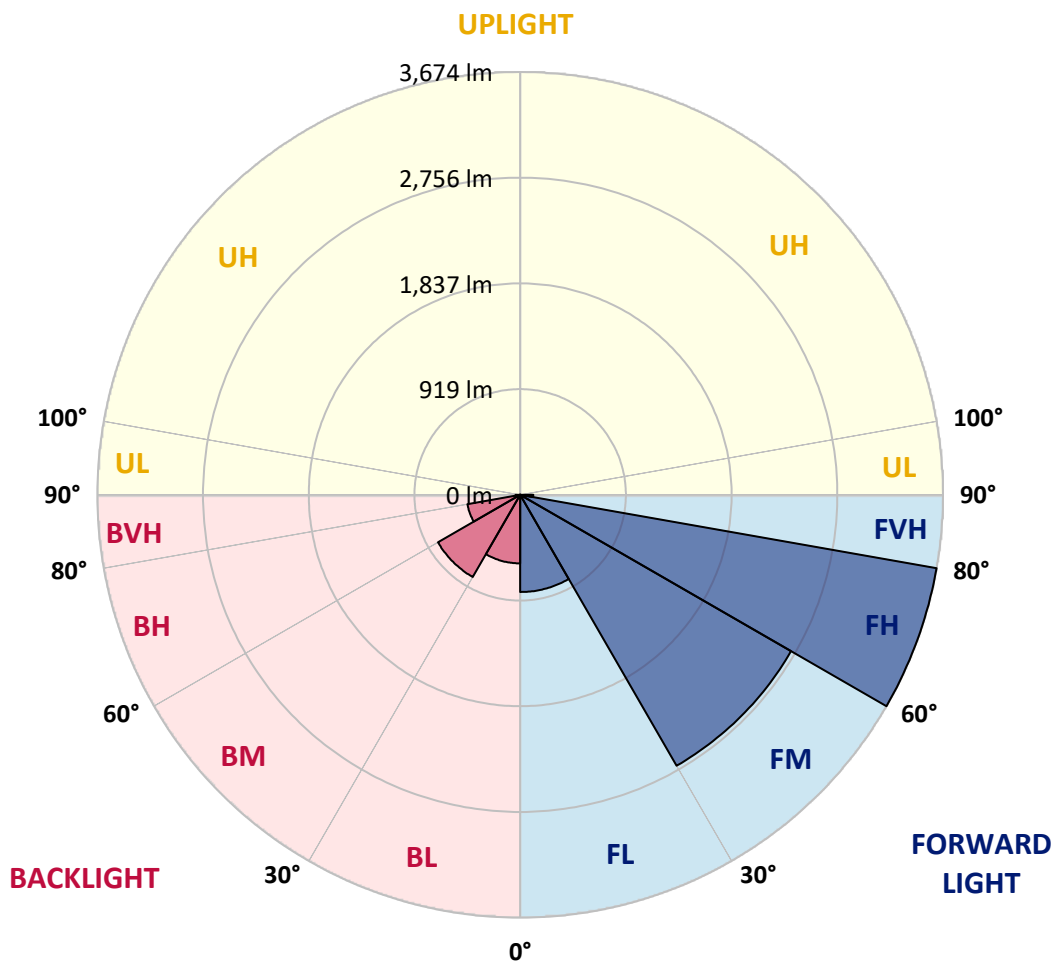
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.8	9.1			
FM	(30°-60°)	2717.9	29.3			
FH	(60°-80°)	3674.2	39.6			G2/5000
FVH	(80°-90°)	114.6	1.2			G2/225
BL	(0°-30°)	595.9	6.4	B2/1000		
BM	(30°-60°)	824.5	8.9	B1/1000		
BH	(60°-80°)	465.6	5.0	B1/500		G1/500
BVH	(80°-90°)	39.9	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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	2009.9	2015.1	2008.8	2007.8	2007.8	2006.7	2000.5	1999.5	1991.1	1992.1	1994.2
5°	2024.6	2026.6	2022.4	2021.4	2019.3	2015.1	2009.9	2003.6	1997.3	1991.1	1985.8
7.5°	2039.2	2037.1	2034.0	2034.0	2030.8	2024.6	2014.1	2005.7	1992.1	1984.8	1975.4
10°	2060.1	2057.0	2052.8	2050.7	2045.5	2036.0	2021.4	2009.9	1993.1	1978.5	1962.8
12.5°	2080.0	2079.0	2072.7	2069.6	2061.2	2051.7	2034.0	2016.2	1994.2	1971.2	1950.2
15°	2115.6	2111.5	2105.1	2098.9	2085.2	2072.7	2045.5	2024.6	1993.1	1962.8	1930.3
17.5°	2177.4	2170.1	2163.7	2150.2	2133.4	2111.5	2071.6	2036.0	1993.1	1949.1	1912.6
20°	2290.4	2274.7	2266.3	2248.6	2219.3	2179.5	2117.7	2060.1	1996.3	1939.7	1890.5
22.5°	2418.2	2407.6	2396.2	2384.7	2338.6	2281.0	2197.2	2111.5	2015.1	1935.5	1872.8
25°	2561.6	2547.9	2541.7	2521.8	2478.9	2412.9	2298.8	2179.5	2058.1	1952.3	1872.8
27.5°	2689.3	2685.0	2684.0	2661.0	2620.2	2542.7	2407.6	2264.3	2116.7	1986.9	1888.5
30°	2805.5	2801.3	2799.2	2786.6	2739.6	2647.4	2500.9	2339.6	2180.5	2035.0	1917.8
32.5°	2928.9	2915.4	2909.1	2885.0	2831.6	2723.8	2556.3	2388.9	2230.8	2082.2	1950.2
35°	3029.5	3018.0	3005.4	2970.9	2895.5	2767.7	2580.4	2405.6	2250.6	2108.3	1967.0
37.5°	3102.8	3091.3	3073.4	3029.5	2936.3	2782.4	2579.4	2400.4	2243.4	2104.1	1970.2
40°	3135.2	3123.7	3104.9	3049.4	2943.6	2774.1	2559.5	2376.3	2221.3	2082.2	1957.6
42.5°	3122.6	3114.3	3090.2	3036.9	2920.6	2736.4	2519.6	2331.3	2179.5	2046.5	1929.3
45°	3074.5	3068.2	3045.2	2988.7	2868.3	2675.6	2461.0	2274.7	2129.2	2002.5	1891.6
47.5°	3002.3	3000.2	2977.1	2921.7	2802.3	2615.0	2400.4	2219.3	2079.0	1959.6	1860.2
50°	2922.7	2912.2	2900.8	2849.4	2740.6	2562.6	2356.4	2184.7	2050.7	1943.9	1846.6
52.5°	2872.5	2869.3	2858.9	2812.8	2708.1	2532.3	2336.5	2172.1	2048.7	1940.8	1839.3
55°	3318.4	3325.7	3229.4	3029.5	2853.6	2616.0	2396.2	2236.0	2099.9	1991.1	1916.8
57.5°	4908.5	4876.0	4710.6	4313.9	3865.9	3274.4	2848.4	2589.8	2421.3	2440.1	2477.8
60°	5718.7	5712.5	5682.1	5528.2	5229.9	4779.8	4280.4	3707.8	3525.7	3545.6	3560.2
62.5°	6081.0	6090.4	6113.4	6055.9	5977.3	5846.5	5597.3	5367.0	5123.1	5032.0	4788.1
65°	6248.4	6265.2	6317.5	6350.0	6380.3	6403.4	6501.8	6771.9	6949.8	6617.0	5842.3
67.5°	5902.0	5982.5	6155.3	6323.9	6474.6	6689.2	7022.1	7649.1	8085.6	7676.3	6553.1
70°	4302.4	4412.3	4610.2	5131.5	5688.4	6175.2	6820.0	7774.7	8433.2	8117.0	6729.0
72.5°	2697.7	2728.0	2815.9	3007.5	3421.0	4046.0	5173.3	6605.4	7365.4	7113.2	5687.4
75°	1711.5	1722.1	1718.9	1762.8	1832.9	1969.0	2415.0	3901.5	5045.6	4652.0	3169.8
77.5°	1019.6	1035.3	1041.6	1055.2	1088.7	1136.8	1173.5	1327.4	2115.6	2053.9	1150.4
80°	854.2	866.8	856.3	853.1	832.2	817.6	835.4	817.6	759.0	730.7	673.1
82.5°	452.2	451.2	448.0	478.4	540.2	588.3	624.9	616.6	558.0	475.3	403.0
85°	248.1	256.5	256.5	267.0	257.5	258.6	267.0	281.6	260.7	217.8	178.0
87.5°	20.9	32.5	26.1	32.5	44.0	31.4	30.3	30.3	26.1	18.9	16.7
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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	1988.9	1986.9	1982.7	1979.5	1979.5	1974.3	1971.2	1969.0	1968.0	1963.8	1963.8
5°	1982.7	1975.4	1968.0	1962.8	1959.6	1954.4	1946.1	1941.9	1936.6	1932.4	1930.3
7.5°	1969.0	1955.5	1943.9	1935.5	1925.1	1916.8	1906.2	1896.8	1887.5	1883.3	1881.1
10°	1948.1	1930.3	1912.6	1896.8	1882.2	1867.5	1853.9	1840.3	1828.8	1820.4	1812.0
12.5°	1928.2	1901.0	1878.0	1855.0	1831.9	1814.2	1795.3	1775.4	1758.6	1743.0	1738.8
15°	1901.0	1869.6	1840.3	1812.0	1783.7	1754.4	1731.5	1709.4	1682.2	1664.5	1650.8
17.5°	1875.9	1838.2	1802.6	1769.1	1734.6	1704.2	1669.7	1640.4	1613.1	1586.0	1566.1
20°	1848.7	1807.8	1770.2	1732.5	1694.8	1656.1	1616.3	1578.6	1545.1	1512.7	1480.2
22.5°	1824.6	1782.7	1746.1	1705.2	1663.4	1619.5	1573.4	1526.2	1487.5	1445.7	1408.0
25°	1810.0	1763.9	1726.2	1686.4	1640.4	1592.2	1539.8	1484.4	1437.3	1389.1	1344.1
27.5°	1810.0	1750.2	1711.5	1671.7	1624.7	1573.4	1515.8	1455.1	1401.7	1348.3	1292.8
30°	1825.7	1752.4	1700.0	1658.1	1610.0	1554.5	1490.7	1426.8	1368.2	1305.4	1252.0
32.5°	1840.3	1756.6	1691.6	1638.2	1582.8	1528.4	1463.5	1395.5	1330.5	1270.8	1214.3
35°	1849.7	1756.6	1675.9	1607.9	1545.1	1491.7	1427.8	1359.8	1293.9	1235.3	1182.9
37.5°	1850.8	1748.2	1650.8	1573.4	1507.5	1451.9	1391.3	1327.4	1264.6	1210.1	1166.1
40°	1840.3	1731.5	1625.7	1536.8	1467.6	1411.1	1355.6	1298.1	1241.5	1196.5	1158.8
42.5°	1821.5	1713.7	1601.6	1507.5	1435.2	1376.6	1325.3	1276.1	1226.9	1188.1	1156.8
45°	1793.2	1689.6	1579.6	1489.6	1418.4	1356.7	1306.4	1265.6	1223.7	1191.3	1159.9
47.5°	1768.1	1681.2	1587.0	1501.1	1426.8	1363.0	1311.6	1277.1	1244.7	1222.7	1179.7
50°	1762.8	1677.0	1590.1	1510.5	1435.2	1370.2	1325.3	1307.4	1298.1	1284.5	1218.5
52.5°	1748.2	1675.9	1613.1	1569.2	1521.0	1490.7	1443.5	1460.3	1449.9	1401.7	1282.3
55°	1902.1	1923.0	1981.6	2065.4	2142.8	2160.7	2155.4	2135.5	2029.8	1746.1	1436.2
57.5°	2615.0	2733.2	2844.2	2893.4	2887.1	2831.6	2791.8	2711.3	2558.4	2212.9	1739.8
60°	3605.2	3624.1	3565.4	3478.5	3332.0	3209.5	3078.7	2927.9	2706.1	2367.9	1926.2
62.5°	4517.1	4263.7	4003.0	3758.1	3535.1	3340.4	3158.3	2947.8	2658.9	2306.2	1902.1
65°	5160.8	4624.9	4213.4	3861.7	3546.6	3274.4	3047.3	2774.1	2448.5	2130.2	1762.8
67.5°	5492.7	4670.9	4039.7	3549.8	3102.8	2725.9	2423.4	2157.5	1915.6	1776.5	1543.0
70°	5122.1	3964.3	3084.9	2531.2	1996.3	1600.6	1264.6	1061.5	991.4	1123.3	1168.3
72.5°	3816.7	2580.4	1835.1	1419.5	1087.6	866.8	664.7	522.3	425.0	446.0	578.9
75°	1804.8	1113.8	787.2	598.8	476.3	394.6	322.4	295.2	247.1	205.2	192.7
77.5°	702.4	511.9	422.9	309.9	219.8	176.9	150.7	145.5	148.7	144.5	142.3
80°	534.9	362.2	227.2	166.4	143.4	126.7	112.0	107.8	110.0	115.2	120.4
82.5°	298.3	186.3	138.1	120.4	107.8	92.1	83.7	77.5	78.5	84.8	96.3
85°	115.2	90.0	82.7	79.5	74.3	59.6	51.3	52.4	59.6	71.2	71.2
87.5°	12.6	12.6	16.7	12.6	12.6	12.6	11.5	13.6	14.7	18.9	22.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	1961.8	1961.8	1961.8	1959.6	1960.7	1956.5	1956.5	1953.3	1958.6	1955.5	1954.4
5°	1931.4	1930.3	1926.2	1926.2	1926.2	1926.2	1929.3	1920.9	1927.2	1927.2	1924.0
7.5°	1880.1	1880.1	1868.6	1874.9	1872.8	1875.9	1880.1	1875.9	1882.2	1886.3	1883.3
10°	1808.9	1808.9	1799.5	1806.8	1803.6	1811.0	1818.3	1814.2	1818.3	1824.6	1826.7
12.5°	1730.4	1726.2	1717.9	1720.9	1720.9	1725.1	1728.3	1733.5	1738.8	1747.2	1751.4
15°	1639.4	1633.0	1622.5	1622.5	1616.3	1618.3	1624.7	1626.7	1637.2	1648.8	1662.3
17.5°	1546.1	1530.4	1518.9	1505.3	1494.9	1503.3	1510.5	1515.8	1524.2	1542.0	1551.4
20°	1458.2	1426.8	1404.8	1387.1	1375.5	1380.8	1390.1	1396.5	1403.8	1408.0	1411.1
22.5°	1371.4	1335.7	1305.4	1283.4	1264.6	1269.8	1265.6	1262.4	1267.7	1254.1	1253.0
25°	1295.9	1254.1	1213.2	1187.1	1164.1	1156.8	1134.7	1129.5	1114.9	1103.4	1095.0
27.5°	1241.5	1187.1	1142.1	1111.7	1075.1	1047.8	1019.6	991.4	975.6	956.8	947.4
30°	1198.6	1141.0	1087.6	1036.4	988.2	946.3	908.7	872.0	846.9	819.6	801.9
32.5°	1158.8	1105.4	1040.6	970.4	905.5	858.4	809.2	767.4	727.5	691.9	665.8
35°	1131.6	1071.9	989.2	903.4	830.1	774.6	722.3	662.6	614.5	568.4	540.2
37.5°	1116.9	1043.6	942.1	846.9	765.2	702.4	637.5	568.4	509.8	466.9	424.0
40°	1105.4	1015.4	900.3	796.7	710.8	635.4	560.0	478.4	413.5	368.5	335.0
42.5°	1092.8	984.0	863.6	756.8	661.6	573.7	482.6	395.7	334.0	302.5	287.9
45°	1079.3	956.8	829.1	719.2	613.4	506.7	402.0	321.4	284.7	274.2	274.2
47.5°	1076.1	939.0	803.9	682.5	559.0	429.2	327.6	277.4	267.0	269.0	273.2
50°	1088.7	933.8	782.0	639.6	486.8	347.5	277.4	260.7	262.8	269.0	275.4
52.5°	1119.1	938.0	759.0	579.9	400.9	286.8	256.5	255.4	261.7	271.2	277.4
55°	1170.3	938.0	715.0	491.0	320.3	257.5	249.1	253.3	261.7	270.0	275.4
57.5°	1280.3	928.6	637.5	392.6	268.0	247.1	247.1	252.3	259.6	268.0	272.2
60°	1411.1	916.0	528.7	303.5	241.8	238.7	246.0	252.3	258.6	265.9	270.0
62.5°	1419.5	883.5	418.7	251.3	228.2	233.4	244.9	253.3	255.4	260.7	265.9
65°	1304.4	770.4	332.9	225.0	222.0	230.3	241.8	248.1	249.1	251.3	256.5
67.5°	1142.1	628.1	269.0	212.5	215.6	225.0	231.4	236.6	239.7	244.9	246.0
70°	938.0	504.6	230.3	199.9	203.1	213.6	218.8	224.0	230.3	236.6	233.4
72.5°	664.7	392.6	202.0	186.3	190.5	199.9	206.2	210.4	215.6	222.0	217.8
75°	282.6	274.2	174.8	168.6	174.8	181.1	187.3	193.7	198.9	202.0	202.0
77.5°	144.5	161.2	150.7	150.7	154.9	161.2	166.4	172.7	175.9	179.0	183.2
80°	122.5	124.6	126.7	130.9	135.1	141.3	146.5	151.8	152.8	153.9	156.0
82.5°	101.6	105.8	107.8	114.1	117.2	119.3	122.5	122.5	124.6	124.6	121.4
85°	73.3	78.5	81.7	82.7	81.7	82.7	83.7	85.9	91.1	91.1	86.9
87.5°	20.9	19.9	25.1	26.1	28.3	32.5	36.7	44.0	46.0	48.2	48.2
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):

	165°	170°	175°	180°
0°	1979.5	1979.5	1979.5	1979.5
2.5°	1953.3	1955.5	1951.3	1952.3
5°	1924.0	1928.2	1923.0	1929.3
7.5°	1886.3	1892.7	1891.6	1890.5
10°	1831.9	1840.3	1840.3	1843.5
12.5°	1762.8	1768.1	1772.3	1774.3
15°	1669.7	1679.1	1684.3	1684.3
17.5°	1557.7	1563.9	1567.1	1562.9
20°	1415.3	1413.2	1414.2	1403.8
22.5°	1251.0	1254.1	1244.7	1246.8
25°	1089.8	1084.5	1088.7	1082.4
27.5°	933.8	934.8	923.3	928.6
30°	785.1	779.9	765.2	772.6
32.5°	641.7	628.1	612.4	603.0
35°	506.7	485.7	478.4	475.3
37.5°	397.8	374.8	367.4	359.1
40°	316.1	307.7	304.7	306.7
42.5°	283.7	283.7	285.8	286.8
45°	275.4	278.4	281.6	282.6
47.5°	276.4	279.5	283.7	284.7
50°	278.4	281.6	284.7	285.8
52.5°	279.5	279.5	281.6	282.6
55°	277.4	276.4	277.4	278.4
57.5°	273.2	271.2	272.2	275.4
60°	271.2	268.0	270.0	272.2
62.5°	265.9	264.8	267.0	268.0
65°	254.4	255.4	258.6	258.6
67.5°	243.9	244.9	246.0	247.1
70°	231.4	232.4	234.5	235.5
72.5°	216.7	220.8	224.0	228.2
75°	205.2	209.4	215.6	219.8
77.5°	185.3	188.5	195.7	201.0
80°	157.0	156.0	157.0	160.2
82.5°	120.4	120.4	119.3	118.3
85°	84.8	83.7	80.6	80.6
87.5°	46.0	45.0	44.0	41.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)