

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: P180947

Luminaire Tested: **ICS-E04-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180947
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: ICS-E04-LED-E1-SL4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9713.8 lumens
Efficiency: N/A
Efficacy: 99.9 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 (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

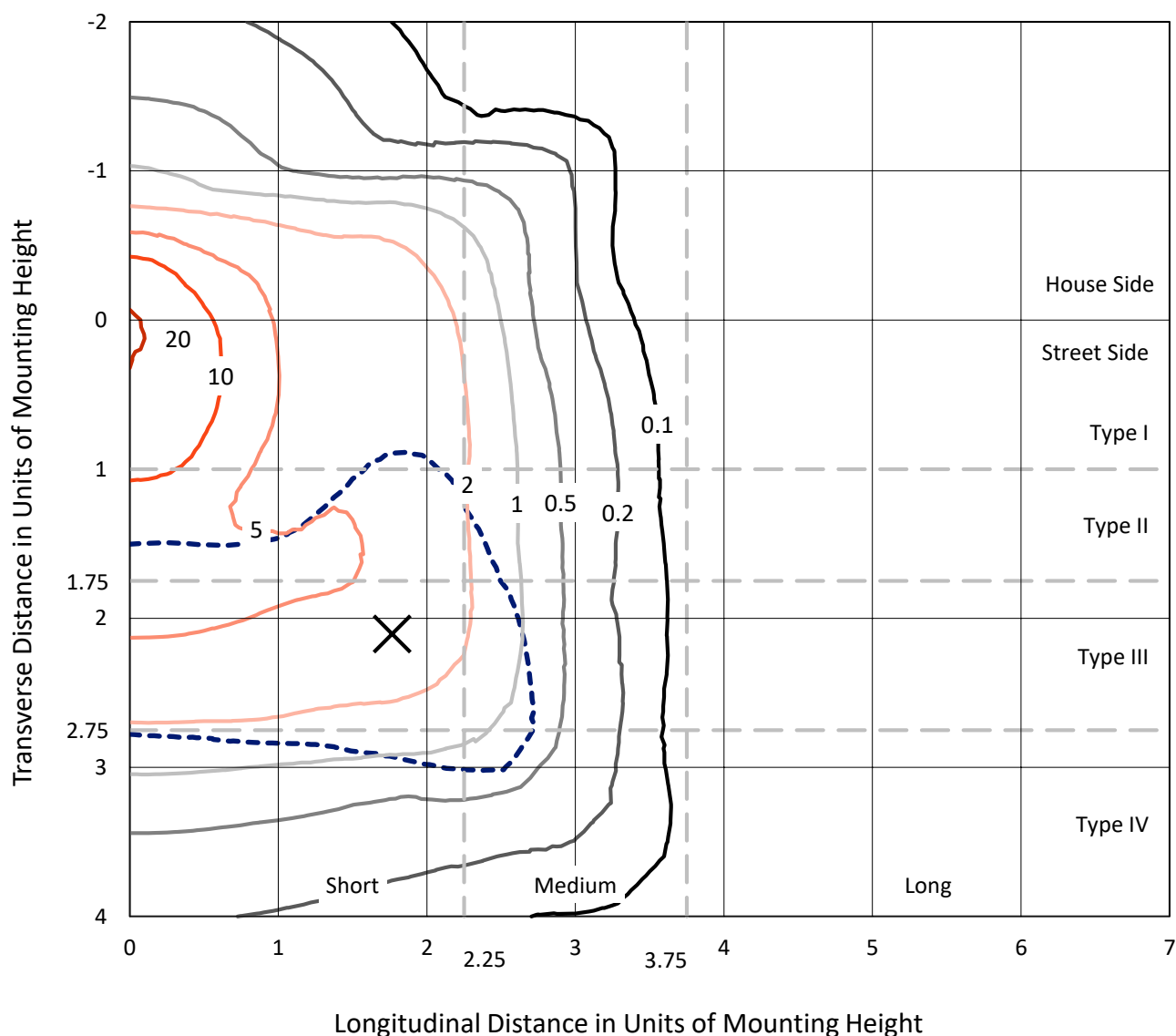


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

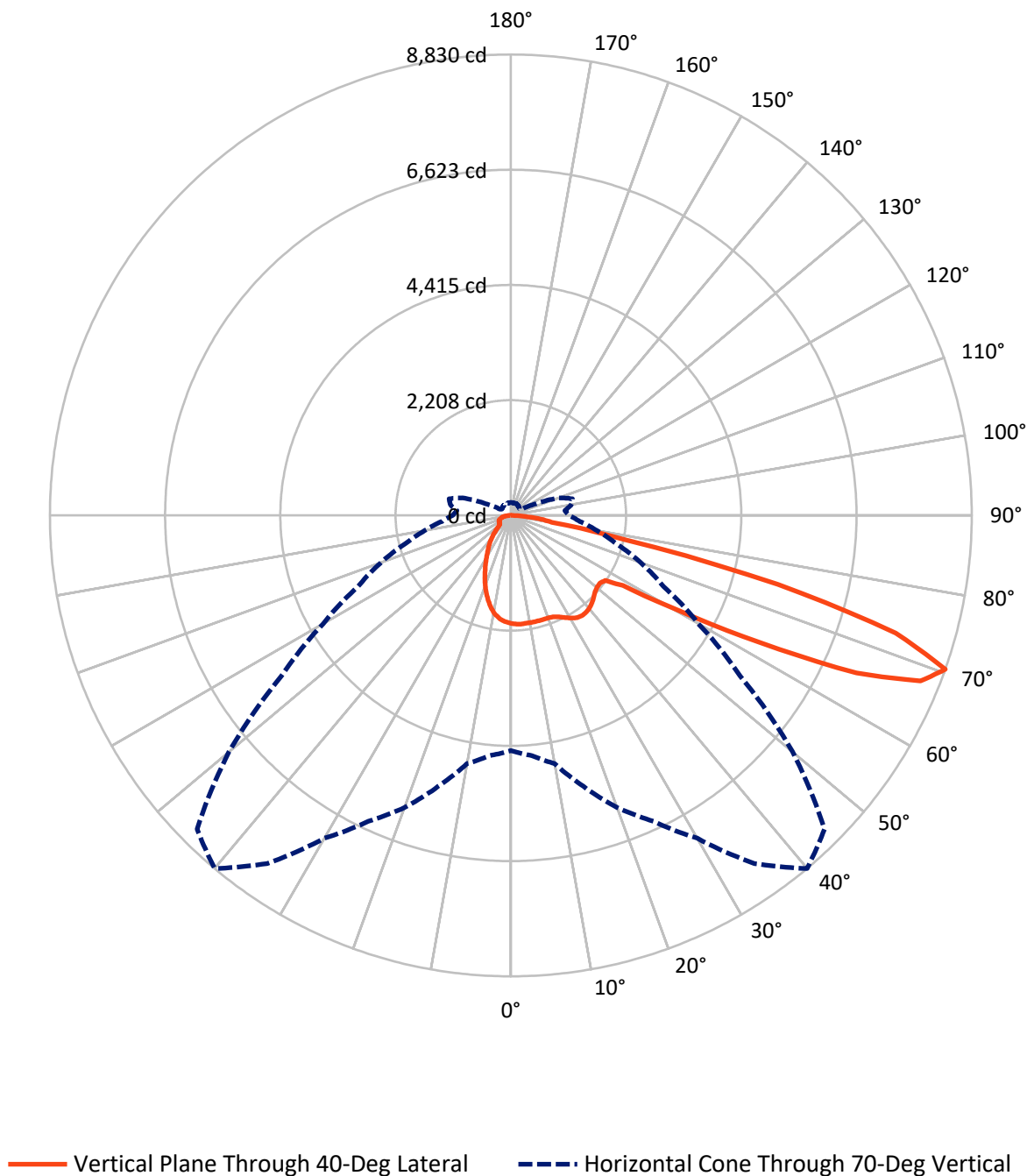


Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2016.5	0.0	2016.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7697.3	0.0	7697.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	9713.8	0.0	9713.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.0
10°-20°	530.1	5.5
20°-30°	784.7	8.1
30°-40°	991.7	10.2
40°-50°	1121.5	11.5
50°-60°	1596.0	16.4
60°-70°	2972.3	30.6
70°-80°	1362.2	14.0
80°-90°	161.7	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°	9713.8	100.0
0°-180°	9713.8	100.0

Coefficient of Utilization



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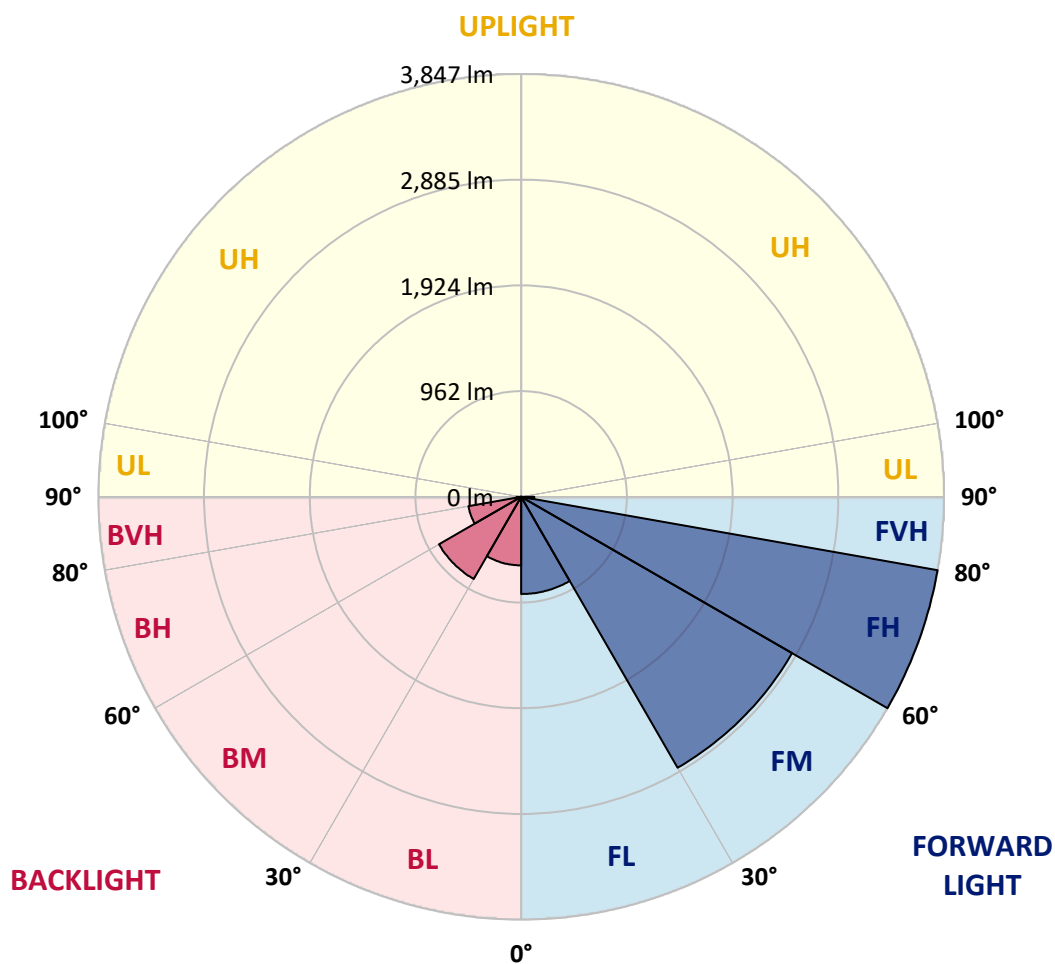
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.5	9.1			
FM	(30°-60°)	2845.8	29.3			
FH	(60°-80°)	3847.1	39.6			G2/5000
FVH	(80°-90°)	120.0	1.2			G2/225
BL	(0°-30°)	623.9	6.4	B2/1000		
BM	(30°-60°)	863.3	8.9	B1/1000		
BH	(60°-80°)	487.5	5.0	B1/500		G1/500
BVH	(80°-90°)	41.8	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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2104.5	2110.0	2103.4	2102.3	2102.3	2101.2	2094.6	2093.5	2084.7	2085.8	2088.0
5°	2119.8	2122.0	2117.6	2116.5	2114.3	2110.0	2104.5	2097.9	2091.3	2084.7	2079.3
7.5°	2135.2	2133.0	2129.7	2129.7	2126.4	2119.8	2108.9	2100.1	2085.8	2078.2	2068.3
10°	2157.1	2153.8	2149.4	2147.2	2141.7	2131.9	2116.5	2104.5	2086.9	2071.6	2055.2
12.5°	2177.9	2176.8	2170.2	2167.0	2158.2	2148.3	2129.7	2111.1	2088.0	2063.9	2042.0
15°	2215.2	2210.8	2204.2	2197.6	2183.4	2170.2	2141.7	2119.8	2086.9	2055.2	2021.2
17.5°	2279.8	2272.2	2265.6	2251.3	2233.8	2210.8	2169.1	2131.9	2086.9	2040.9	2002.5
20°	2398.2	2381.8	2373.0	2354.4	2323.7	2282.0	2217.4	2157.1	2090.2	2031.0	1979.5
22.5°	2531.9	2521.0	2508.9	2496.9	2448.6	2388.4	2300.7	2210.8	2110.0	2026.7	1960.9
25°	2682.1	2667.9	2661.3	2640.5	2595.5	2526.5	2407.0	2282.0	2154.9	2044.2	1960.9
27.5°	2815.8	2811.4	2810.3	2786.2	2743.5	2662.4	2521.0	2370.8	2216.3	2080.4	1977.3
30°	2937.5	2933.1	2930.9	2917.8	2868.4	2772.0	2618.5	2449.7	2283.1	2130.8	2008.0
32.5°	3066.8	3052.6	3046.0	3020.8	2964.9	2852.0	2676.6	2501.3	2335.7	2180.1	2042.0
35°	3172.1	3160.0	3146.8	3110.7	3031.8	2898.0	2701.8	2518.8	2356.6	2207.5	2059.5
37.5°	3248.8	3236.7	3218.1	3172.1	3074.5	2913.4	2700.7	2513.3	2348.9	2203.1	2062.8
40°	3282.8	3270.7	3251.0	3192.9	3082.2	2904.6	2679.9	2488.1	2325.9	2180.1	2049.7
42.5°	3269.6	3260.8	3235.6	3179.7	3058.1	2865.2	2638.3	2441.0	2282.0	2142.8	2020.1
45°	3219.2	3212.6	3188.5	3129.3	3003.3	2801.6	2576.9	2381.8	2229.4	2096.8	1980.6
47.5°	3143.6	3141.4	3117.3	3059.2	2934.2	2738.0	2513.3	2323.7	2176.8	2051.9	1947.7
50°	3060.3	3049.3	3037.2	2983.5	2869.5	2683.2	2467.3	2287.5	2147.2	2035.4	1933.5
52.5°	3007.6	3004.4	2993.4	2945.2	2835.6	2651.4	2446.5	2274.4	2145.0	2032.1	1925.8
55°	3474.6	3482.2	3381.4	3172.1	2987.9	2739.1	2508.9	2341.2	2198.7	2084.7	2006.9
57.5°	5139.5	5105.5	4932.4	4516.9	4047.8	3428.5	2982.4	2711.7	2535.2	2555.0	2594.4
60°	5987.9	5981.3	5949.5	5788.4	5476.0	5004.7	4481.9	3882.3	3691.6	3712.4	3727.8
62.5°	6367.1	6377.0	6401.1	6340.8	6258.6	6121.6	5860.7	5619.6	5364.2	5268.9	5013.5
65°	6542.5	6560.0	6614.8	6648.8	6680.6	6704.7	6807.8	7090.5	7276.9	6928.3	6117.2
67.5°	6179.7	6264.1	6445.0	6621.4	6779.3	7004.0	7352.5	8009.1	8466.1	8037.6	6861.5
70°	4504.9	4620.0	4827.1	5373.0	5956.1	6465.8	7141.0	8140.6	8830.0	8499.0	7045.6
72.5°	2824.6	2856.4	2948.5	3149.0	3582.0	4236.3	5416.8	6916.3	7712.0	7447.9	5955.0
75°	1792.1	1803.1	1799.8	1845.8	1919.2	2061.7	2528.7	4085.1	5283.1	4871.0	3318.9
77.5°	1067.6	1084.0	1090.6	1104.8	1139.9	1190.3	1228.7	1389.8	2215.2	2150.5	1204.6
80°	894.4	907.6	896.6	893.3	871.4	856.0	874.7	856.0	794.7	765.1	704.8
82.5°	473.5	472.4	469.1	500.9	565.6	616.0	654.4	645.6	584.2	497.6	422.0
85°	259.8	268.5	268.5	279.5	269.6	270.7	279.5	294.8	272.9	228.0	186.3
87.5°	21.9	34.0	27.4	34.0	46.0	32.9	31.8	31.8	27.4	19.7	17.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2082.6	2080.4	2076.0	2072.7	2072.7	2067.2	2063.9	2061.7	2060.6	2056.2	2056.2
5°	2076.0	2068.3	2060.6	2055.2	2051.9	2046.4	2037.6	2033.2	2027.7	2023.4	2021.2
7.5°	2061.7	2047.5	2035.4	2026.7	2015.7	2006.9	1996.0	1986.1	1976.2	1971.8	1969.7
10°	2039.8	2021.2	2002.5	1986.1	1970.8	1955.4	1941.2	1926.9	1914.9	1906.1	1897.3
12.5°	2019.0	1990.5	1966.4	1942.3	1918.1	1899.5	1879.8	1859.0	1841.4	1825.0	1820.6
15°	1990.5	1957.6	1926.9	1897.3	1867.7	1837.0	1812.9	1789.9	1761.4	1742.8	1728.5
17.5°	1964.2	1924.7	1887.4	1852.4	1816.2	1784.4	1748.2	1717.6	1689.1	1660.6	1639.7
20°	1935.7	1892.9	1853.5	1814.0	1774.6	1734.0	1692.3	1652.9	1617.8	1583.8	1549.9
22.5°	1910.5	1866.6	1828.3	1785.5	1741.7	1695.6	1647.4	1598.1	1557.5	1513.7	1474.2
25°	1895.1	1846.9	1807.4	1765.8	1717.6	1667.1	1612.3	1554.2	1504.9	1454.5	1407.4
27.5°	1895.1	1832.6	1792.1	1750.4	1701.1	1647.4	1587.1	1523.6	1467.7	1411.8	1353.7
30°	1911.6	1834.8	1780.0	1736.2	1685.8	1627.7	1560.8	1494.0	1432.6	1366.8	1310.9
32.5°	1926.9	1839.2	1771.3	1715.4	1657.3	1600.3	1532.3	1461.1	1393.1	1330.6	1271.5
35°	1936.8	1839.2	1754.8	1683.6	1617.8	1561.9	1495.1	1423.8	1354.8	1293.4	1238.6
37.5°	1937.9	1830.5	1728.5	1647.4	1578.4	1520.3	1456.7	1389.8	1324.1	1267.1	1221.0
40°	1926.9	1812.9	1702.2	1609.0	1536.7	1477.5	1419.4	1359.1	1300.0	1252.8	1213.4
42.5°	1907.2	1794.3	1677.0	1578.4	1502.7	1441.3	1387.6	1336.1	1284.6	1244.1	1211.2
45°	1877.6	1769.1	1654.0	1559.7	1485.2	1420.5	1367.9	1325.2	1281.3	1247.3	1214.5
47.5°	1851.3	1760.3	1661.7	1571.8	1494.0	1427.1	1373.4	1337.2	1303.2	1280.2	1235.3
50°	1845.8	1755.9	1664.9	1581.6	1502.7	1434.8	1387.6	1369.0	1359.1	1344.9	1275.8
52.5°	1830.5	1754.8	1689.1	1643.0	1592.6	1560.8	1511.5	1529.0	1518.1	1467.7	1342.7
55°	1991.6	2013.5	2074.9	2162.6	2243.7	2262.3	2256.8	2236.0	2125.3	1828.3	1503.8
57.5°	2738.0	2861.9	2978.0	3029.6	3023.0	2964.9	2923.2	2838.8	2678.8	2317.1	1821.7
60°	3774.9	3794.6	3733.2	3642.3	3488.8	3360.6	3223.6	3065.7	2833.4	2479.3	2016.8
62.5°	4729.6	4464.3	4191.4	3934.9	3701.5	3497.6	3306.9	3086.6	2784.0	2414.7	1991.6
65°	5403.7	4842.5	4411.7	4043.4	3713.5	3428.5	3190.7	2904.6	2563.7	2230.5	1845.8
67.5°	5751.1	4890.7	4229.8	3716.8	3248.8	2854.2	2537.4	2259.0	2005.8	1860.0	1615.6
70°	5363.1	4150.9	3230.1	2650.3	2090.2	1675.9	1324.1	1111.4	1038.0	1176.1	1223.2
72.5°	3996.3	2701.8	1921.4	1486.3	1138.8	907.6	696.0	546.9	445.0	466.9	606.1
75°	1889.6	1166.2	824.3	627.0	498.7	413.2	337.6	309.1	258.7	214.8	201.7
77.5°	735.5	536.0	442.8	324.4	230.2	185.2	157.8	152.4	155.6	151.3	149.1
80°	560.1	379.2	237.8	174.3	150.2	132.6	117.3	112.9	115.1	120.6	126.0
82.5°	312.4	195.1	144.7	126.0	112.9	96.5	87.7	81.1	82.2	88.8	100.8
85°	120.6	94.3	86.6	83.3	77.8	62.5	53.7	54.8	62.5	74.5	74.5
87.5°	13.2	13.2	17.5	13.2	13.2	13.2	12.1	14.2	15.3	19.7	23.0
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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2054.1	2054.1	2054.1	2051.9	2053.0	2048.6	2048.6	2045.3	2050.8	2047.5	2046.4
5°	2022.3	2021.2	2016.8	2016.8	2016.8	2016.8	2020.1	2011.3	2017.9	2017.9	2014.6
7.5°	1968.6	1968.6	1956.5	1963.1	1960.9	1964.2	1968.6	1964.2	1970.8	1975.1	1971.8
10°	1894.0	1894.0	1884.2	1891.8	1888.5	1896.2	1903.9	1899.5	1903.9	1910.5	1912.7
12.5°	1811.8	1807.4	1798.7	1802.0	1802.0	1806.3	1809.6	1815.1	1820.6	1829.4	1833.7
15°	1716.5	1709.9	1698.9	1698.9	1692.3	1694.5	1701.1	1703.3	1714.3	1726.3	1740.6
17.5°	1618.9	1602.5	1590.4	1576.2	1565.2	1574.0	1581.6	1587.1	1595.9	1614.5	1624.4
20°	1526.8	1494.0	1470.9	1452.3	1440.2	1445.7	1455.6	1462.2	1469.8	1474.2	1477.5
22.5°	1435.9	1398.6	1366.8	1343.8	1324.1	1329.5	1325.2	1321.9	1327.4	1313.1	1312.0
25°	1356.9	1313.1	1270.4	1243.0	1218.8	1211.2	1188.2	1182.7	1167.3	1155.3	1146.5
27.5°	1300.0	1243.0	1195.8	1164.0	1125.7	1097.2	1067.6	1038.0	1021.5	1001.8	992.0
30°	1255.0	1194.7	1138.8	1085.1	1034.7	990.9	951.4	913.0	886.7	858.2	839.6
32.5°	1213.4	1157.5	1089.5	1016.1	948.1	898.8	847.3	803.4	761.8	724.5	697.1
35°	1184.9	1122.4	1035.8	945.9	869.2	811.1	756.3	693.8	643.4	595.2	565.6
37.5°	1169.5	1092.8	986.5	886.7	801.2	735.5	667.5	595.2	533.8	488.9	443.9
40°	1157.5	1063.2	942.6	834.1	744.2	665.3	586.4	500.9	433.0	385.8	350.7
42.5°	1144.3	1030.3	904.3	792.5	692.7	600.7	505.3	414.3	349.6	316.8	301.4
45°	1130.1	1001.8	868.1	753.0	642.3	530.5	420.9	336.5	298.1	287.2	287.2
47.5°	1126.8	983.2	841.8	714.6	585.3	449.4	343.1	290.5	279.5	281.7	286.1
50°	1139.9	977.7	818.8	669.7	509.7	363.9	290.5	272.9	275.1	281.7	288.3
52.5°	1171.7	982.1	794.7	607.2	419.8	300.3	268.5	267.4	274.0	283.9	290.5
55°	1225.4	982.1	748.6	514.1	335.4	269.6	260.9	265.3	274.0	282.8	288.3
57.5°	1340.5	972.2	667.5	411.0	280.6	258.7	258.7	264.2	271.8	280.6	285.0
60°	1477.5	959.1	553.5	317.9	253.2	249.9	257.6	264.2	270.7	278.4	282.8
62.5°	1486.3	925.1	438.4	263.1	238.9	244.4	256.5	265.3	267.4	272.9	278.4
65°	1365.7	806.7	348.6	235.7	232.4	241.1	253.2	259.8	260.9	263.1	268.5
67.5°	1195.8	657.6	281.7	222.5	225.8	235.7	242.2	247.7	251.0	256.5	257.6
70°	982.1	528.3	241.1	209.4	212.6	223.6	229.1	234.6	241.1	247.7	244.4
72.5°	696.0	411.0	211.5	195.1	199.5	209.4	215.9	220.3	225.8	232.4	228.0
75°	295.9	287.2	183.0	176.5	183.0	189.6	196.2	202.8	208.3	211.5	211.5
77.5°	151.3	168.8	157.8	157.8	162.2	168.8	174.3	180.9	184.1	187.4	191.8
80°	128.2	130.4	132.6	137.0	141.4	148.0	153.5	158.9	160.0	161.1	163.3
82.5°	106.3	110.7	112.9	119.5	122.8	125.0	128.2	128.2	130.4	130.4	127.1
85°	76.7	82.2	85.5	86.6	85.5	86.6	87.7	89.9	95.4	95.4	91.0
87.5°	21.9	20.8	26.3	27.4	29.6	34.0	38.4	46.0	48.2	50.4	50.4
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):

	165°	170°	175°	180°
0°	2072.7	2072.7	2072.7	2072.7
2.5°	2045.3	2047.5	2043.1	2044.2
5°	2014.6	2019.0	2013.5	2020.1
7.5°	1975.1	1981.7	1980.6	1979.5
10°	1918.1	1926.9	1926.9	1930.2
12.5°	1845.8	1851.3	1855.7	1857.9
15°	1748.2	1758.1	1763.6	1763.6
17.5°	1631.0	1637.5	1640.8	1636.4
20°	1481.9	1479.7	1480.8	1469.8
22.5°	1309.8	1313.1	1303.2	1305.4
25°	1141.0	1135.5	1139.9	1133.3
27.5°	977.7	978.8	966.7	972.2
30°	822.1	816.6	801.2	808.9
32.5°	671.9	657.6	641.2	631.3
35°	530.5	508.6	500.9	497.6
37.5°	416.5	392.4	384.7	376.0
40°	331.0	322.2	319.0	321.2
42.5°	297.0	297.0	299.2	300.3
45°	288.3	291.6	294.8	295.9
47.5°	289.4	292.7	297.0	298.1
50°	291.6	294.8	298.1	299.2
52.5°	292.7	292.7	294.8	295.9
55°	290.5	289.4	290.5	291.6
57.5°	286.1	283.9	285.0	288.3
60°	283.9	280.6	282.8	285.0
62.5°	278.4	277.3	279.5	280.6
65°	266.3	267.4	270.7	270.7
67.5°	255.4	256.5	257.6	258.7
70°	242.2	243.3	245.5	246.6
72.5°	226.9	231.3	234.6	238.9
75°	214.8	219.2	225.8	230.2
77.5°	194.0	197.3	205.0	210.4
80°	164.4	163.3	164.4	167.7
82.5°	126.0	126.0	125.0	123.9
85°	88.8	87.7	84.4	84.4
87.5°	48.2	47.1	46.0	43.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)