

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: P180902

Luminaire Tested: **ICM-F05-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180902
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-F05-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10360 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

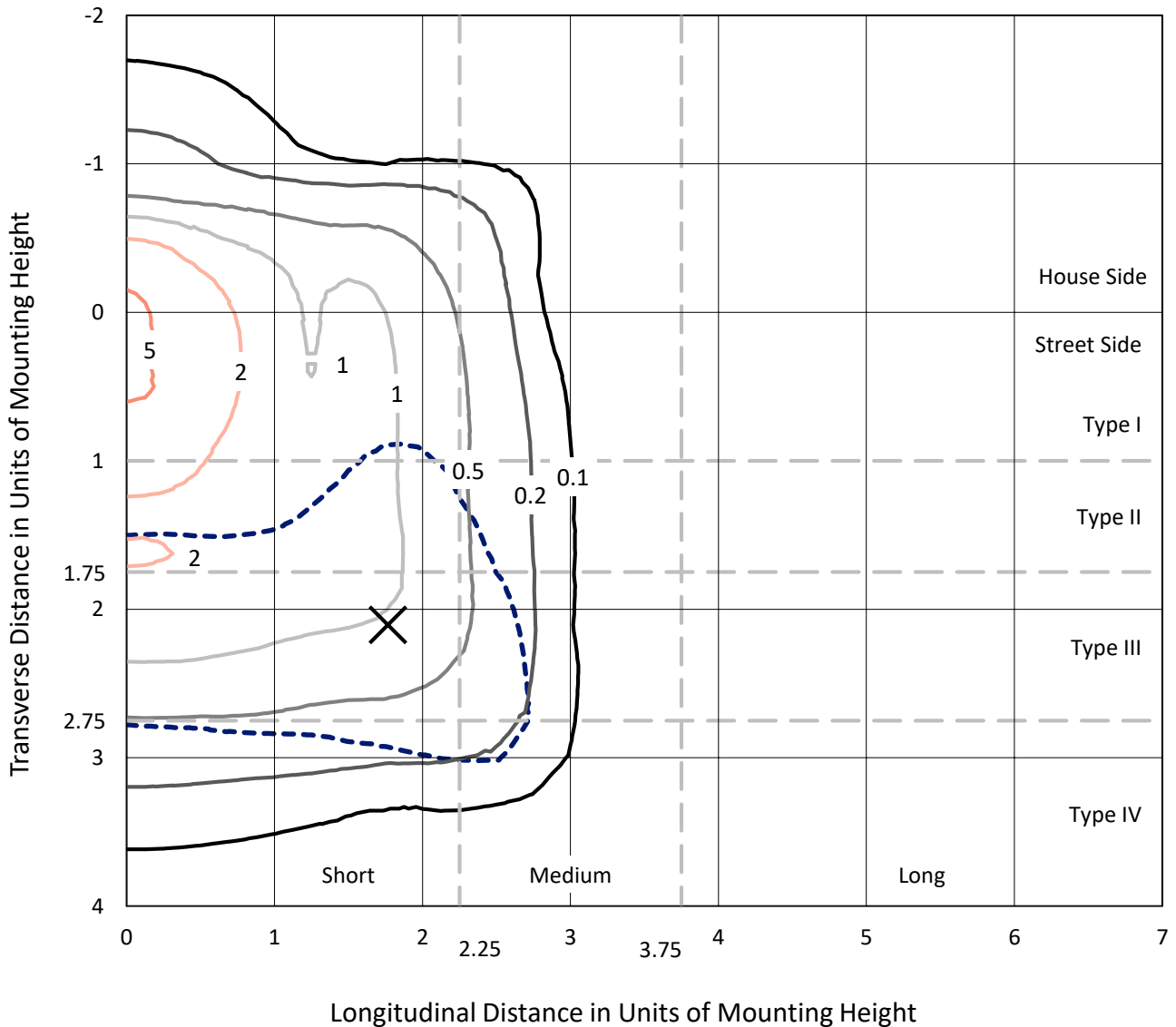
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

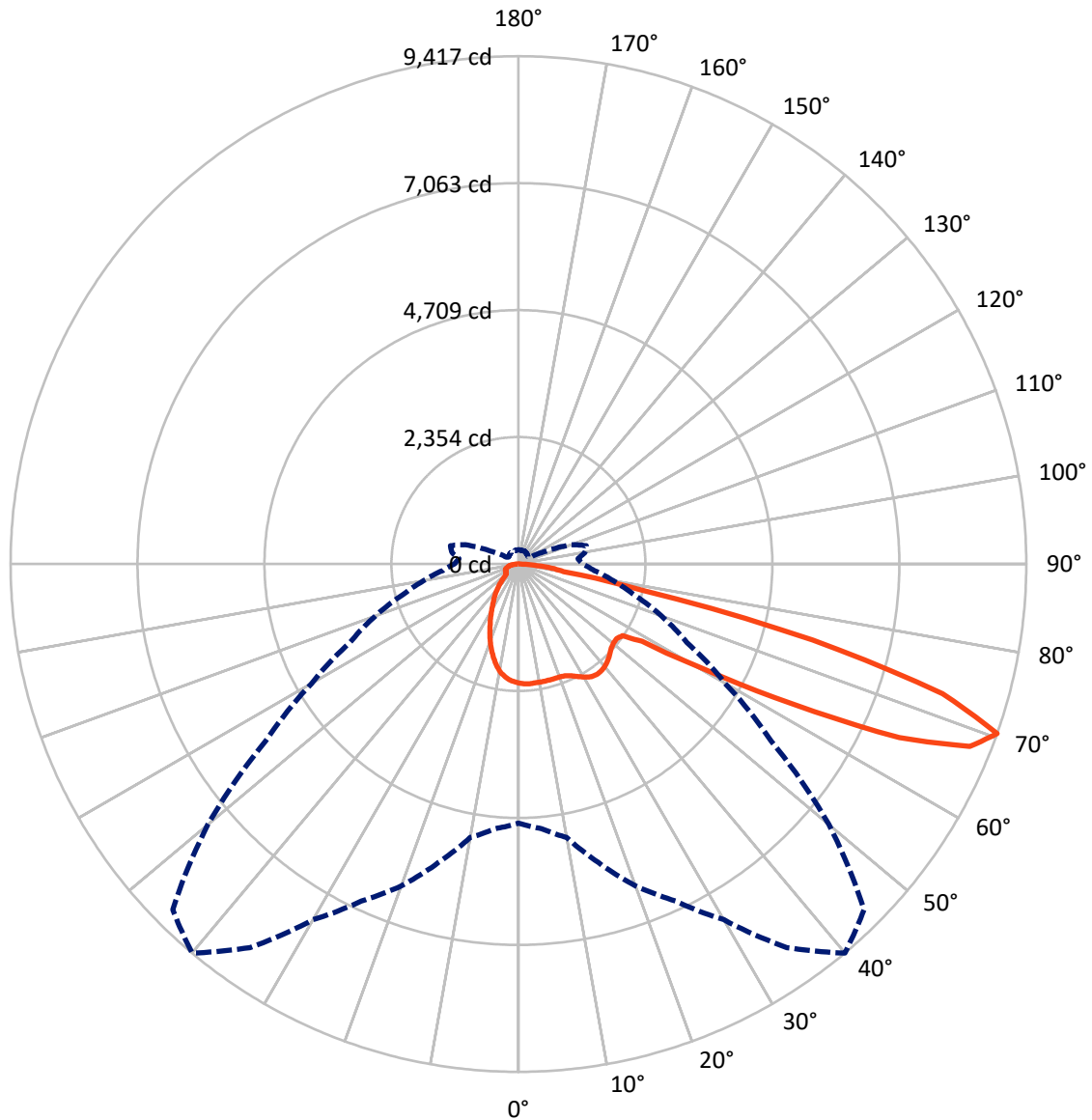


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Full Cutoff

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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	2150.6	0.0	2150.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8209.4	0.0	8209.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	10360.0	0.0	10360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	2.0
10°-20°	565.4	5.5
20°-30°	836.9	8.1
30°-40°	1057.6	10.2
40°-50°	1196.1	11.5
50°-60°	1702.1	16.4
60°-70°	3170.0	30.6
70°-80°	1452.8	14.0
80°-90°	172.5	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°	10360.0	100.0
0°-180°	10360.0	100.0



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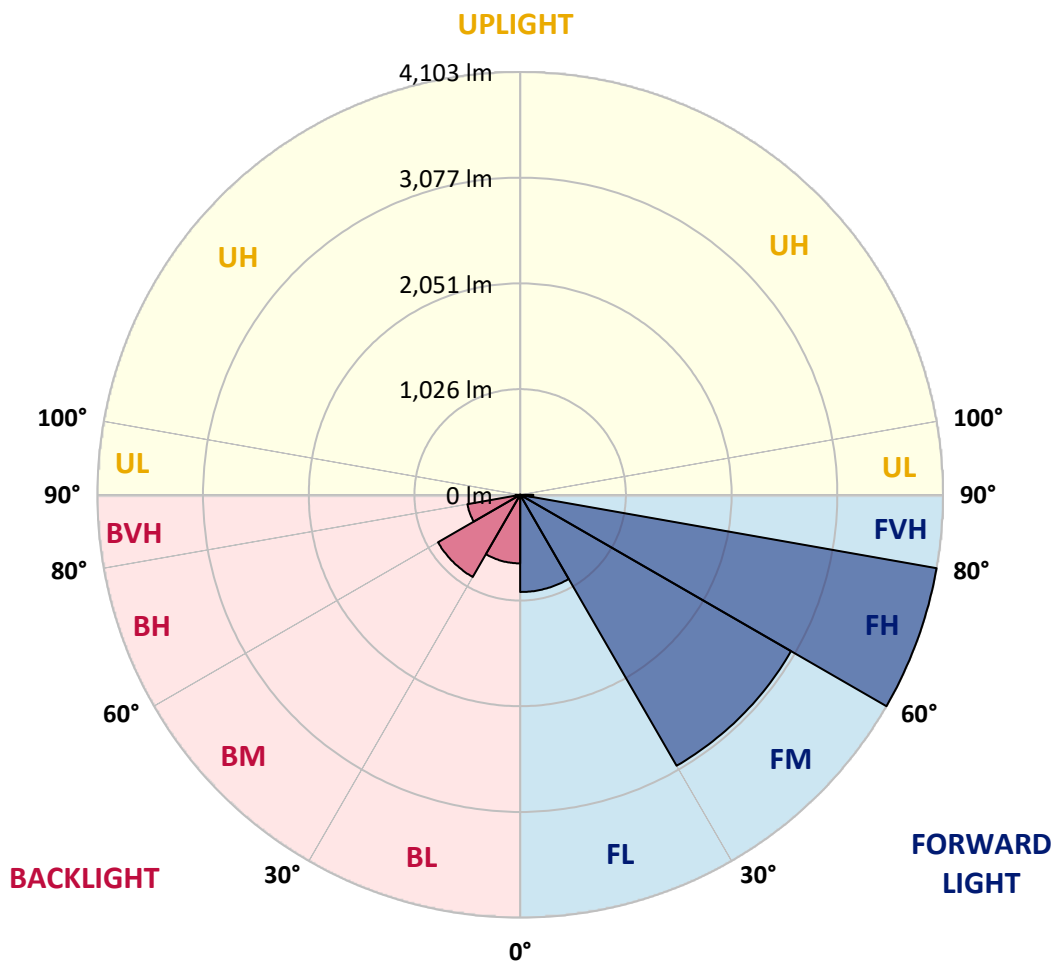
CATALOG NUMBER: ICM-F05-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.4	9.1			
FM	(30°-60°)	3035.1	29.3			
FH	(60°-80°)	4103.0	39.6			G2/5000
FVH	(80°-90°)	127.9	1.2			G2/225
BL	(0°-30°)	665.4	6.4	B2/1000		
BM	(30°-60°)	920.8	8.9	B1/1000		
BH	(60°-80°)	519.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	44.5	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°	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5
2.5°	2244.5	2250.3	2243.3	2242.2	2242.2	2240.9	2234.0	2232.8	2223.5	2224.6	2226.9
5°	2260.9	2263.2	2258.5	2257.3	2255.0	2250.3	2244.5	2237.4	2230.4	2223.5	2217.6
7.5°	2277.2	2274.9	2271.4	2271.4	2267.8	2260.9	2249.1	2239.8	2224.6	2216.4	2205.9
10°	2300.6	2297.0	2292.4	2290.1	2284.2	2273.7	2257.3	2244.5	2225.8	2209.4	2191.8
12.5°	2322.8	2321.6	2314.6	2311.1	2301.8	2291.2	2271.4	2251.5	2226.9	2201.2	2177.8
15°	2362.5	2357.9	2350.8	2343.8	2328.7	2314.6	2284.2	2260.9	2225.8	2191.8	2155.6
17.5°	2431.5	2423.3	2416.3	2401.1	2382.4	2357.9	2313.4	2273.7	2225.8	2176.7	2135.7
20°	2557.8	2540.2	2530.9	2511.0	2478.2	2433.9	2364.9	2300.6	2229.2	2166.2	2111.2
22.5°	2700.4	2688.7	2675.8	2663.0	2611.6	2547.3	2453.7	2357.9	2250.3	2161.5	2091.4
25°	2860.5	2845.3	2838.3	2816.1	2768.2	2694.5	2567.1	2433.9	2298.2	2180.2	2091.4
27.5°	3003.1	2998.4	2997.3	2971.6	2926.0	2839.5	2688.7	2528.5	2363.7	2218.7	2108.9
30°	3132.9	3128.2	3125.9	3111.8	3059.3	2956.4	2792.8	2612.7	2435.0	2272.5	2141.6
32.5°	3270.8	3255.6	3248.6	3221.7	3162.2	3041.7	2854.7	2667.6	2491.1	2325.1	2177.8
35°	3383.1	3370.2	3356.2	3317.6	3233.4	3090.8	2881.6	2686.3	2513.3	2354.3	2196.6
37.5°	3464.9	3452.0	3432.1	3383.1	3279.0	3107.2	2880.4	2680.5	2505.1	2349.7	2200.0
40°	3501.1	3488.3	3467.2	3405.2	3287.2	3097.8	2858.2	2653.6	2480.6	2325.1	2186.0
42.5°	3487.1	3477.8	3450.8	3391.3	3261.5	3055.7	2813.8	2603.4	2433.9	2285.4	2154.4
45°	3433.3	3426.3	3400.6	3337.5	3203.0	2987.9	2748.3	2540.2	2377.7	2236.3	2112.4
47.5°	3352.7	3350.3	3324.6	3262.6	3129.4	2920.1	2680.5	2478.2	2321.6	2188.4	2077.3
50°	3263.8	3252.1	3239.3	3182.0	3060.4	2861.7	2631.4	2439.6	2290.1	2170.8	2062.1
52.5°	3207.7	3204.2	3192.5	3141.0	3024.2	2827.8	2609.2	2425.7	2287.7	2167.3	2053.9
55°	3705.7	3713.9	3606.3	3383.1	3186.6	2921.3	2675.8	2496.9	2345.0	2223.5	2140.4
57.5°	5481.4	5445.1	5260.5	4817.4	4317.0	3656.6	3180.9	2892.1	2703.8	2724.9	2767.0
60°	6386.2	6379.2	6345.2	6173.4	5840.3	5337.6	4780.0	4140.6	3937.1	3959.4	3975.7
62.5°	6790.6	6801.2	6826.9	6762.6	6674.9	6528.8	6250.5	5993.4	5721.1	5619.3	5346.9
65°	6977.7	6996.4	7054.8	7091.1	7125.0	7150.7	7260.6	7562.2	7760.9	7389.2	6524.1
67.5°	6590.7	6680.8	6873.6	7061.9	7230.2	7469.8	7841.5	8541.8	9029.3	8572.2	7317.9
70°	4804.6	4927.3	5148.2	5730.4	6352.3	6895.9	7616.0	8682.1	9417.4	9064.3	7514.3
72.5°	3012.5	3046.3	3144.6	3358.5	3820.3	4518.2	5777.2	7376.3	8225.0	7943.3	6351.1
75°	1911.3	1923.0	1919.5	1968.6	2046.9	2198.9	2696.9	4356.9	5634.5	5195.0	3539.7
77.5°	1138.6	1156.1	1163.2	1178.3	1215.7	1269.5	1310.4	1482.2	2362.5	2293.6	1284.8
80°	953.9	967.9	956.2	952.8	929.3	912.9	932.8	912.9	847.5	815.9	751.6
82.5°	505.0	503.8	500.3	534.2	603.2	656.9	697.9	688.6	623.1	530.7	450.0
85°	277.0	286.4	286.4	298.0	287.5	288.7	298.0	314.4	291.1	243.2	198.7
87.5°	23.3	36.3	29.2	36.3	49.1	35.1	33.9	33.9	29.2	21.0	18.7
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°	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5
2.5°	2221.0	2218.7	2214.1	2210.5	2210.5	2204.8	2201.2	2198.9	2197.7	2193.0	2193.0
5°	2214.1	2205.9	2197.7	2191.8	2188.4	2182.5	2173.1	2168.5	2162.6	2158.0	2155.6
7.5°	2198.9	2183.6	2170.8	2161.5	2149.8	2140.4	2128.8	2118.2	2107.7	2103.0	2100.7
10°	2175.5	2155.6	2135.7	2118.2	2101.9	2085.5	2070.2	2055.1	2042.2	2032.8	2023.5
12.5°	2153.3	2122.9	2097.1	2071.5	2045.7	2025.9	2004.8	1982.6	1963.9	1946.3	1941.7
15°	2122.9	2087.8	2055.1	2023.5	1991.9	1959.3	1933.5	1908.9	1878.5	1858.7	1843.5
17.5°	2094.8	2052.8	2013.0	1975.5	1937.0	1903.1	1864.6	1831.8	1801.4	1771.0	1748.8
20°	2064.5	2018.8	1976.8	1934.7	1892.6	1849.3	1804.9	1762.8	1725.4	1689.2	1652.9
22.5°	2037.6	1990.8	1949.9	1904.3	1857.5	1808.4	1757.0	1704.4	1661.1	1614.3	1572.3
25°	2021.2	1969.8	1927.6	1883.3	1831.8	1778.1	1719.5	1657.6	1605.0	1551.3	1500.9
27.5°	2021.2	1954.5	1911.3	1866.9	1814.2	1757.0	1692.7	1624.9	1565.3	1505.7	1443.7
30°	2038.7	1956.8	1898.4	1851.6	1797.9	1735.9	1664.7	1593.3	1527.8	1457.7	1398.1
32.5°	2055.1	1961.6	1889.1	1829.5	1767.5	1706.7	1634.2	1558.2	1485.8	1419.2	1356.0
35°	2065.6	1961.6	1871.5	1795.5	1725.4	1665.8	1594.5	1518.5	1444.8	1379.5	1320.9
37.5°	2066.8	1952.2	1843.5	1757.0	1683.4	1621.4	1553.6	1482.2	1412.1	1351.4	1302.2
40°	2055.1	1933.5	1815.5	1716.1	1638.9	1575.8	1513.9	1449.6	1386.4	1336.2	1294.1
42.5°	2034.1	1913.6	1788.6	1683.4	1602.7	1537.2	1479.9	1425.0	1370.1	1326.8	1291.7
45°	2002.5	1886.7	1764.0	1663.5	1584.0	1515.0	1458.9	1413.3	1366.5	1330.3	1295.3
47.5°	1974.4	1877.4	1772.2	1676.3	1593.3	1522.1	1464.8	1426.1	1390.0	1365.4	1317.5
50°	1968.6	1872.8	1775.7	1686.9	1602.7	1530.2	1479.9	1460.1	1449.6	1434.3	1360.7
52.5°	1952.2	1871.5	1801.4	1752.3	1698.5	1664.7	1612.0	1630.7	1619.1	1565.3	1432.0
55°	2124.0	2147.5	2212.9	2306.4	2392.9	2412.8	2407.0	2384.8	2266.7	1949.9	1603.8
57.5°	2920.1	3052.2	3176.1	3231.1	3224.1	3162.2	3117.7	3027.6	2857.0	2471.3	1942.9
60°	4026.0	4047.0	3981.6	3884.6	3720.9	3584.1	3438.0	3269.7	3021.9	2644.3	2150.9
62.5°	5044.2	4761.3	4470.3	4196.7	3947.7	3730.3	3526.8	3291.8	2969.2	2575.3	2124.0
65°	5763.1	5164.6	4705.1	4312.4	3960.5	3656.6	3402.9	3097.8	2734.2	2378.9	1968.6
67.5°	6133.7	5216.0	4511.1	3964.0	3464.9	3044.0	2706.2	2409.3	2139.3	1983.7	1723.1
70°	5719.8	4427.0	3445.0	2826.6	2229.2	1787.4	1412.1	1185.3	1107.1	1254.3	1304.6
72.5°	4262.2	2881.6	2049.2	1585.1	1214.6	967.9	742.3	583.4	474.6	498.0	646.4
75°	2015.4	1243.8	879.1	668.7	531.9	440.7	360.0	329.7	275.9	229.1	215.1
77.5°	784.4	571.6	472.3	346.0	245.5	197.6	168.4	162.5	166.0	161.3	159.0
80°	597.4	404.5	253.7	185.9	160.2	141.5	125.1	120.4	122.7	128.6	134.4
82.5°	333.1	208.1	154.3	134.4	120.4	102.9	93.5	86.5	87.6	94.7	107.5
85°	128.6	100.6	92.4	88.8	83.0	66.6	57.3	58.4	66.6	79.5	79.5
87.5°	14.0	14.0	18.7	14.0	14.0	14.0	12.8	15.2	16.4	21.0	24.6
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°	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5	2210.5
2.5°	2190.7	2190.7	2190.7	2188.4	2189.5	2184.9	2184.9	2181.3	2187.2	2183.6	2182.5
5°	2156.8	2155.6	2150.9	2150.9	2150.9	2150.9	2154.4	2145.1	2152.1	2152.1	2148.6
7.5°	2099.5	2099.5	2086.6	2093.7	2091.4	2094.8	2099.5	2094.8	2101.9	2106.5	2103.0
10°	2020.0	2020.0	2009.5	2017.7	2014.2	2022.3	2030.5	2025.9	2030.5	2037.6	2039.9
12.5°	1932.4	1927.6	1918.3	1921.8	1921.8	1926.5	1930.0	1935.8	1941.7	1951.1	1955.7
15°	1830.6	1823.6	1811.9	1811.9	1804.9	1807.3	1814.2	1816.6	1828.3	1841.1	1856.4
17.5°	1726.6	1709.0	1696.2	1681.0	1669.3	1678.7	1686.9	1692.7	1702.1	1722.0	1732.5
20°	1628.4	1593.3	1568.8	1548.9	1536.0	1541.9	1552.4	1559.5	1567.6	1572.3	1575.8
22.5°	1531.4	1491.6	1457.7	1433.2	1412.1	1418.0	1413.3	1409.8	1415.6	1400.5	1399.3
25°	1447.2	1400.5	1354.9	1325.6	1299.9	1291.7	1267.2	1261.3	1244.9	1232.1	1222.8
27.5°	1386.4	1325.6	1275.4	1241.5	1200.6	1170.1	1138.6	1107.1	1089.5	1068.5	1058.0
30°	1338.5	1274.2	1214.6	1157.3	1103.5	1056.8	1014.7	973.8	945.7	915.4	895.4
32.5°	1294.1	1234.4	1162.0	1083.6	1011.2	958.6	903.6	856.8	812.5	772.7	743.4
35°	1263.6	1197.0	1104.7	1008.8	927.0	865.0	806.6	740.0	686.2	634.8	603.2
37.5°	1247.4	1165.5	1052.1	945.7	854.5	784.4	711.9	634.8	569.3	521.4	473.4
40°	1234.4	1134.0	1005.3	889.6	793.8	709.6	625.4	534.2	461.8	411.4	374.0
42.5°	1220.4	1098.9	964.4	845.2	738.8	640.6	538.9	441.9	372.9	337.9	321.5
45°	1205.2	1068.5	925.9	803.1	685.0	565.8	448.9	358.9	318.0	306.2	306.2
47.5°	1201.7	1048.6	897.8	762.1	624.3	479.3	365.9	309.8	298.0	300.5	305.1
50°	1215.7	1042.7	873.2	714.2	543.5	388.1	309.8	291.1	293.4	300.5	307.4
52.5°	1249.7	1047.4	847.5	647.6	447.7	320.3	286.4	285.2	292.3	302.8	309.8
55°	1306.9	1047.4	798.4	548.3	357.7	287.5	278.2	282.9	292.3	301.6	307.4
57.5°	1429.7	1036.9	711.9	438.3	299.3	275.9	275.9	281.8	290.0	299.3	303.9
60°	1575.8	1022.9	590.3	339.0	270.0	266.5	274.7	281.8	288.7	296.9	301.6
62.5°	1585.1	986.6	467.6	280.6	254.9	260.7	273.6	282.9	285.2	291.1	296.9
65°	1456.6	860.4	371.7	251.4	247.8	257.2	270.0	277.0	278.2	280.6	286.4
67.5°	1275.4	701.4	300.5	237.3	240.8	251.4	258.3	264.2	267.7	273.6	274.7
70°	1047.4	563.4	257.2	223.3	226.8	238.5	244.3	250.1	257.2	264.2	260.7
72.5°	742.3	438.3	225.6	208.1	212.7	223.3	230.3	235.0	240.8	247.8	243.2
75°	315.6	306.2	195.3	188.2	195.3	202.2	209.2	216.3	222.1	225.6	225.6
77.5°	161.3	180.0	168.4	168.4	173.0	180.0	185.9	192.8	196.4	199.9	204.6
80°	136.7	139.1	141.5	146.1	150.8	157.8	163.6	169.5	170.7	171.8	174.1
82.5°	113.4	118.0	120.4	127.4	130.9	133.3	136.7	136.7	139.1	139.1	135.6
85°	81.9	87.6	91.2	92.4	91.2	92.4	93.5	95.8	101.7	101.7	97.0
87.5°	23.3	22.2	28.1	29.2	31.5	36.3	40.9	49.1	51.4	53.8	53.8
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°	2210.5	2210.5	2210.5	2210.5
2.5°	2181.3	2183.6	2179.0	2180.2
5°	2148.6	2153.3	2147.5	2154.4
7.5°	2106.5	2113.5	2112.4	2111.2
10°	2045.7	2055.1	2055.1	2058.6
12.5°	1968.6	1974.4	1979.1	1981.4
15°	1864.6	1875.1	1880.9	1880.9
17.5°	1739.5	1746.4	1750.0	1745.3
20°	1580.5	1578.1	1579.3	1567.6
22.5°	1396.9	1400.5	1390.0	1392.3
25°	1216.9	1211.1	1215.7	1208.8
27.5°	1042.7	1043.9	1031.1	1036.9
30°	876.7	870.9	854.5	862.7
32.5°	716.6	701.4	683.8	673.3
35°	565.8	542.4	534.2	530.7
37.5°	444.2	418.5	410.3	400.9
40°	353.0	343.7	340.2	342.5
42.5°	316.8	316.8	319.2	320.3
45°	307.4	311.0	314.4	315.6
47.5°	308.7	312.1	316.8	318.0
50°	311.0	314.4	318.0	319.2
52.5°	312.1	312.1	314.4	315.6
55°	309.8	308.7	309.8	311.0
57.5°	305.1	302.8	303.9	307.4
60°	302.8	299.3	301.6	303.9
62.5°	296.9	295.7	298.0	299.3
65°	284.1	285.2	288.7	288.7
67.5°	272.4	273.6	274.7	275.9
70°	258.3	259.5	261.9	263.0
72.5°	242.0	246.7	250.1	254.9
75°	229.1	233.8	240.8	245.5
77.5°	206.9	210.4	218.6	224.5
80°	175.3	174.1	175.3	178.9
82.5°	134.4	134.4	133.3	132.1
85°	94.7	93.5	90.0	90.0
87.5°	51.4	50.2	49.1	46.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)