

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: P95428

Luminaire Tested: **VFS-K-B40-5-LED-E1-VAT-SG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95428
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22787)
Test Lab: INNOVATION CENTER
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VFS-K-B40-5-LED-E1-VAT-SG
Description: ARCHITECTURAL FLOOD LUMINAIRE
VERTICAL ASYMMETRIC RECTANGULAR WITH SOFTENING GLASS DISTRIBUTION
WITH 40 LED'S, 525mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

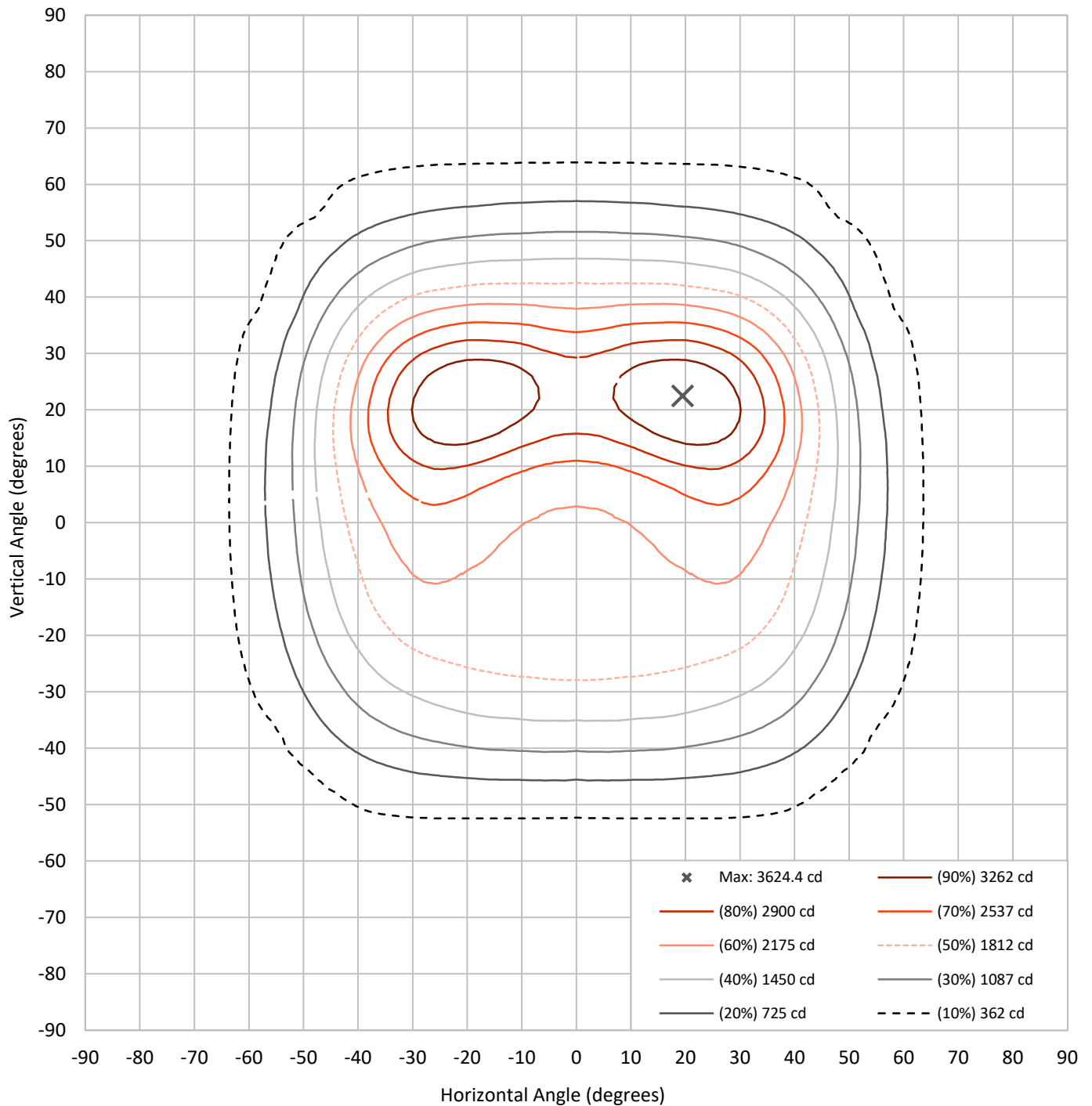
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	5920.8 lumens	Max Intensity:	3624.4 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	89.4 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	88.1°H x 67.9°V	Field Angle (10%):	126°H x 116.1°V
Beam Lumens:	3735.5 lumens	Field Lumens:	5653.9 lumens
Beam Efficiency:	63.1%	Field Efficiency:	95.5%
Input Watts (W):	66.2		
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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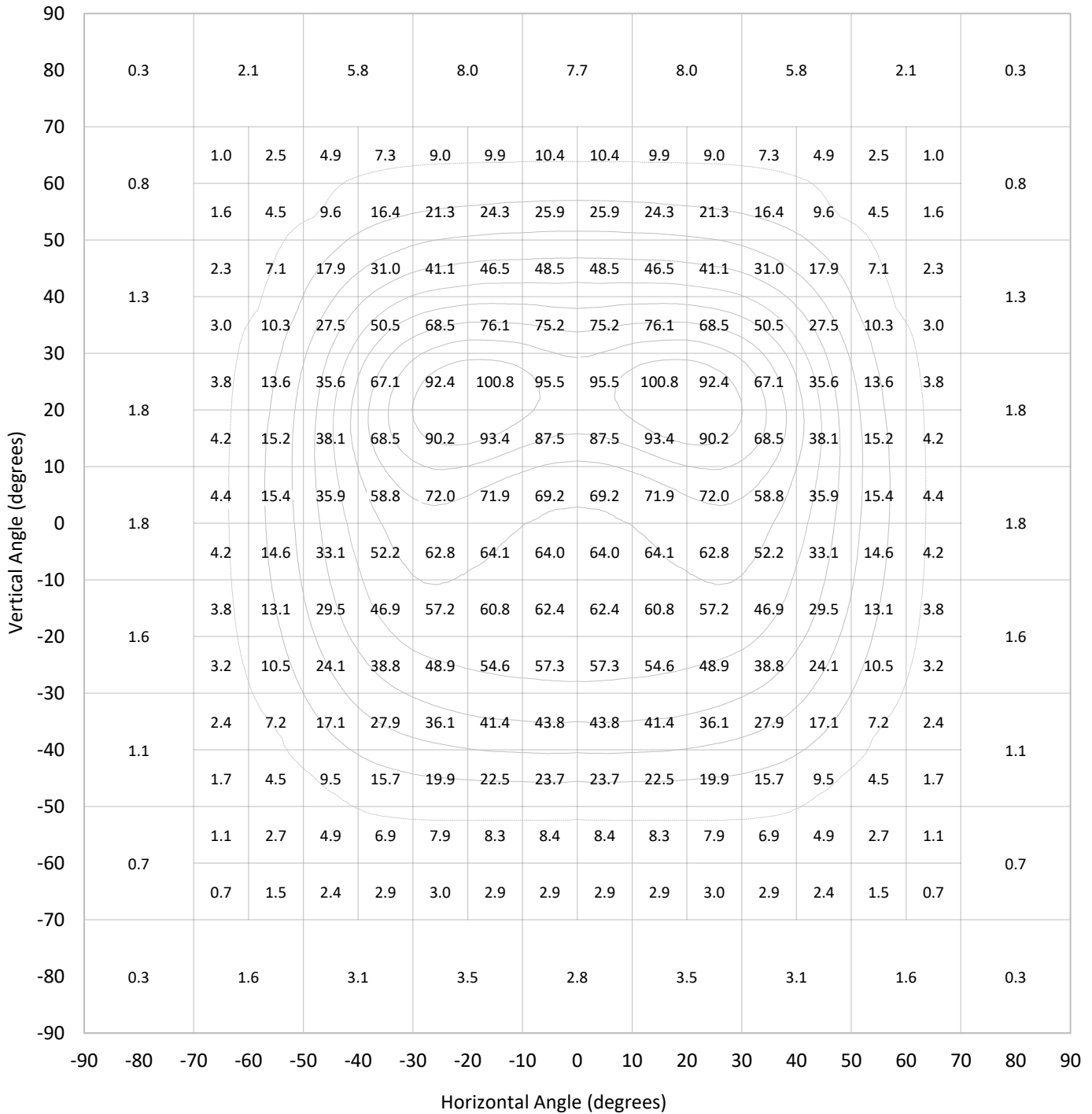
Iso-Candela Plot





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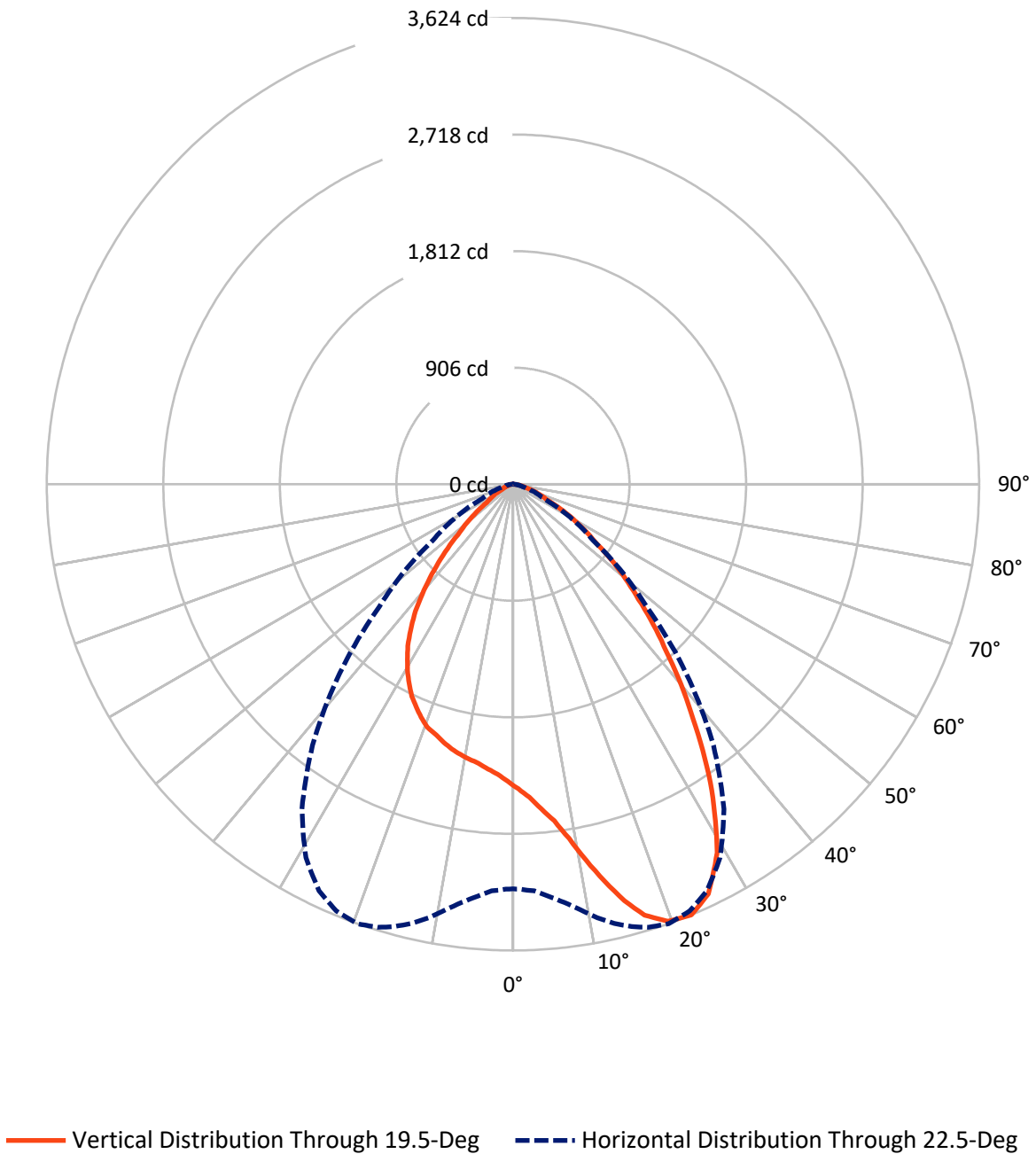
Lumen Table



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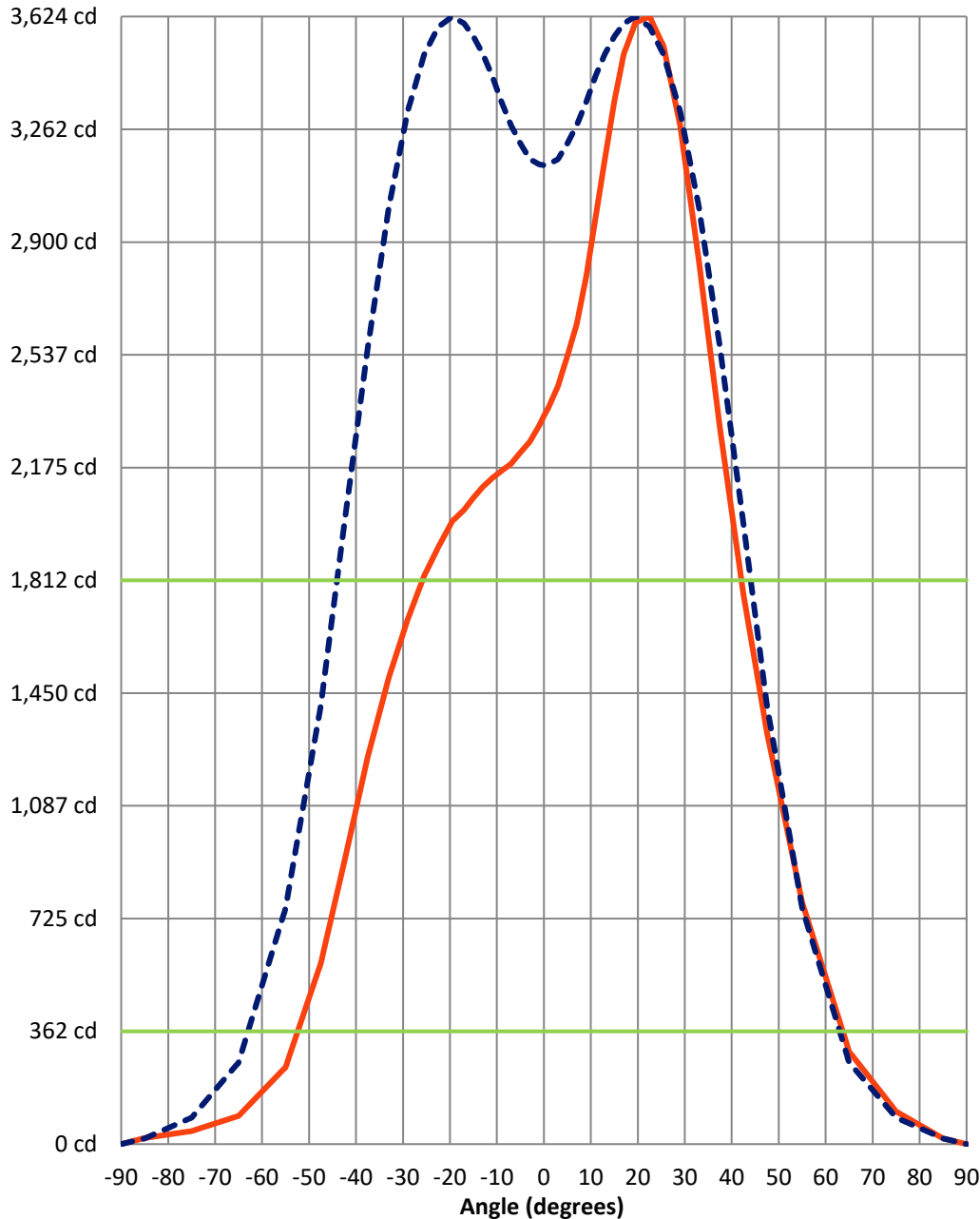
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 88.1°
 V Angle: 67.9°
 Lumens: 3735.5
 Efficiency: 63.1%

Field:
 H Angle: 126°
 V Angle: 116.1°
 Lumens: 5653.9
 Efficiency: 95.5%

Spill:
 Lumens: 266.9
 Efficiency: 4.5%

— Vertical Distribution through 19.5-Deg
 - - - Horizontal Distribution through 22.5-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	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
85°	0.0	1.4	2.8	8.4	14.0	15.4	16.8	16.8	18.2	18.2	18.2
75°	96.4	95.0	95.0	95.0	96.4	96.4	97.8	100.6	102.0	103.4	104.8
65°	304.6	304.6	301.8	299.0	301.8	306.0	300.4	294.8	300.4	297.6	297.6
55°	832.7	828.6	831.3	827.2	824.4	813.2	813.2	810.4	796.4	785.2	776.9
47.5°	1391.6	1386.0	1397.2	1386.0	1388.8	1370.7	1366.5	1362.3	1359.5	1346.9	1323.2
42.5°	1817.8	1809.4	1803.8	1798.2	1808.0	1803.8	1801.0	1799.6	1796.8	1795.4	1766.1
37.5°	2209.0	2211.8	2227.2	2234.2	2270.5	2285.9	2297.0	2301.2	2305.4	2311.0	2299.8
33°	2607.2	2605.8	2633.8	2664.5	2710.6	2762.3	2793.1	2805.6	2819.6	2829.4	2839.2
29°	2934.2	2930.0	2962.1	3011.0	3058.5	3132.6	3189.9	3231.8	3268.1	3273.7	3275.1
25.5°	3103.2	3104.6	3124.2	3171.7	3247.2	3319.8	3406.4	3463.7	3501.4	3518.2	3528.0
22.5°	3146.6	3149.3	3166.1	3216.4	3275.1	3349.2	3433.0	3504.2	3560.1	3602.0	3624.4
19.5°	3068.3	3082.3	3099.0	3143.8	3219.2	3291.9	3364.5	3440.0	3508.4	3567.1	3604.8
17°	2980.3	2981.7	2994.3	3026.4	3093.5	3152.1	3220.6	3307.2	3381.3	3451.1	3502.8
15°	2846.2	2851.7	2858.7	2886.7	2942.6	2997.1	3064.1	3142.4	3219.2	3282.1	3351.9
13°	2692.5	2702.2	2696.6	2726.0	2787.5	2830.8	2885.3	2960.7	3029.2	3092.1	3167.5
11°	2522.0	2533.2	2540.2	2566.7	2604.4	2656.1	2707.8	2774.9	2839.2	2907.6	2977.5
9°	2408.8	2414.4	2417.2	2431.2	2463.3	2498.2	2552.7	2605.8	2667.3	2719.0	2787.5
7°	2302.6	2308.2	2308.2	2316.6	2350.1	2373.9	2415.8	2463.3	2510.8	2563.9	2636.6
5°	2223.0	2228.6	2238.4	2252.3	2278.9	2305.4	2334.8	2372.5	2425.6	2466.1	2533.2
3°	2171.3	2174.1	2176.9	2188.1	2209.0	2232.8	2267.7	2299.8	2326.4	2383.7	2436.8
1°	2139.2	2146.1	2143.3	2150.3	2174.1	2188.1	2218.8	2242.5	2269.1	2319.4	2368.3
0°	2125.2	2132.2	2132.2	2140.6	2158.7	2167.1	2193.6	2218.8	2243.9	2295.6	2340.4
-1°	2108.4	2112.6	2119.6	2129.4	2141.9	2153.1	2176.9	2202.0	2223.0	2266.3	2309.6
-3°	2098.6	2098.6	2101.4	2114.0	2123.8	2133.6	2150.3	2171.3	2192.2	2220.2	2257.9
-5°	2086.1	2088.9	2097.2	2104.2	2118.2	2123.8	2133.6	2153.1	2172.7	2199.2	2223.0
-7°	2086.1	2087.5	2093.0	2100.0	2101.4	2114.0	2125.2	2136.4	2150.3	2174.1	2186.7
-9°	2098.6	2100.0	2094.4	2098.6	2105.6	2114.0	2119.6	2126.6	2130.8	2146.1	2164.3
-11°	2077.7	2077.7	2077.7	2072.1	2081.9	2095.8	2101.4	2109.8	2115.4	2125.2	2140.6
-13°	2066.5	2072.1	2067.9	2069.3	2074.9	2080.5	2086.1	2093.0	2090.3	2095.8	2112.6
-15°	2049.7	2053.9	2060.9	2067.9	2073.5	2074.9	2073.5	2074.9	2069.3	2072.1	2077.7
-17°	2035.8	2042.7	2046.9	2048.3	2056.7	2046.9	2045.5	2053.9	2056.7	2046.9	2038.6
-19.5°	2021.8	2021.8	2020.4	2023.2	2024.6	2037.2	2027.4	2017.6	2009.2	2006.4	2002.2
-22.5°	1967.3	1967.3	1957.5	1964.5	1965.9	1967.3	1963.1	1954.7	1942.1	1933.8	1918.4
-25.5°	1894.6	1896.0	1890.4	1890.4	1883.5	1882.1	1877.9	1875.1	1856.9	1844.3	1826.2
-29°	1774.5	1780.1	1771.7	1773.1	1760.5	1752.1	1743.7	1732.6	1720.0	1707.4	1686.5
-33°	1567.7	1577.5	1574.7	1571.9	1571.9	1564.9	1546.7	1543.9	1539.7	1528.6	1500.6
-37.5°	1305.0	1312.0	1306.4	1313.4	1310.6	1305.0	1296.6	1285.4	1277.1	1267.3	1244.9
-42.5°	940.3	951.5	950.1	957.1	948.7	943.1	938.9	937.5	934.7	932.0	906.8
-47.5°	586.8	598.0	598.0	592.4	600.8	596.6	589.6	591.0	592.4	585.4	581.2
-55°	234.7	238.9	236.1	237.5	240.3	240.3	241.7	243.1	240.3	245.9	247.3
-65°	79.6	81.0	79.6	82.4	81.0	82.4	82.4	82.4	85.2	86.6	90.8
-75°	29.3	29.3	29.3	29.3	30.7	32.1	34.9	36.3	39.1	40.5	41.9
-85°	2.8	2.8	7.0	14.0	19.6	21.0	21.0	21.0	21.0	21.0	19.6
-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):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.2	16.8	18.2	18.2	18.2	16.8	15.4	16.8	16.8	15.4	14.0
75°	104.8	106.2	104.8	103.4	97.8	89.4	78.2	57.3	34.9	19.6	15.4
65°	294.8	294.8	287.8	278.0	262.7	236.1	199.8	135.5	68.5	30.7	16.8
55°	762.9	740.5	708.4	663.7	592.4	504.4	333.9	250.1	109.0	44.7	18.2
47.5°	1299.4	1267.3	1212.8	1119.2	986.4	813.2	626.0	350.7	149.5	53.1	18.2
42.5°	1728.4	1689.2	1630.6	1496.4	1313.4	1061.9	793.6	402.4	170.5	62.9	18.2
37.5°	2263.5	2206.2	2112.6	1944.9	1673.9	1327.4	979.5	447.1	192.8	69.9	18.2
33°	2794.5	2707.8	2576.5	2364.1	2012.0	1573.3	1144.3	600.8	219.4	75.5	19.6
29°	3227.6	3129.8	2970.5	2692.5	2292.8	1774.5	1268.7	669.3	237.5	79.6	18.2
25.5°	3483.3	3385.5	3206.6	2903.4	2467.5	1910.0	1355.3	723.8	252.9	82.4	19.6
22.5°	3590.9	3501.4	3319.8	3012.4	2559.7	1992.4	1409.8	758.7	262.7	85.2	18.2
19.5°	3589.5	3516.8	3353.3	3055.7	2617.0	2044.1	1455.9	785.2	269.7	86.6	19.6
17°	3500.1	3447.0	3301.6	3029.2	2608.6	2052.5	1475.5	803.4	273.9	88.0	18.2
15°	3374.3	3332.4	3209.4	2956.5	2573.7	2045.5	1485.3	818.8	276.7	89.4	18.2
13°	3194.1	3185.7	3078.1	2868.5	2510.8	2014.8	1490.8	828.6	280.8	89.4	18.2
11°	3012.4	3020.8	2939.8	2753.9	2438.2	1977.1	1488.0	830.0	283.6	89.4	18.2
9°	2837.8	2865.7	2804.2	2639.4	2364.1	1946.3	1472.7	835.5	286.4	89.4	18.2
7°	2698.0	2741.4	2674.3	2549.9	2291.5	1905.8	1464.3	841.1	285.0	90.8	18.2
5°	2586.3	2622.6	2591.9	2471.7	2228.6	1866.7	1455.9	838.3	285.0	90.8	18.2
3°	2498.2	2533.2	2505.2	2380.9	2174.1	1840.1	1439.1	835.5	287.8	90.8	18.2
1°	2421.4	2453.5	2438.2	2309.6	2129.4	1803.8	1416.8	831.3	287.8	90.8	18.2
0°	2383.7	2414.4	2407.4	2285.9	2102.8	1782.9	1408.4	825.8	286.4	90.8	18.2
-1°	2352.9	2385.1	2375.3	2263.5	2077.7	1767.5	1400.0	821.6	286.4	90.8	18.2
-3°	2294.2	2332.0	2325.0	2227.2	2041.3	1747.9	1379.1	813.2	283.6	90.8	18.2
-5°	2259.3	2302.6	2285.9	2192.2	2005.0	1714.4	1366.5	804.8	280.8	89.4	18.2
-7°	2224.4	2255.1	2245.3	2141.9	1965.9	1673.9	1335.7	795.0	276.7	88.0	18.2
-9°	2182.5	2210.4	2204.8	2102.8	1922.6	1645.9	1310.6	778.3	272.5	88.0	18.2
-11°	2162.9	2175.5	2158.7	2070.7	1886.3	1612.4	1282.7	761.5	266.9	86.6	18.2
-13°	2125.2	2132.2	2115.4	2035.8	1842.9	1569.1	1250.5	740.5	261.3	85.2	18.2
-15°	2084.7	2088.9	2072.1	1984.1	1801.0	1532.8	1217.0	718.2	255.7	83.8	18.2
-17°	2041.3	2040.0	2014.8	1915.6	1747.9	1483.9	1175.1	695.8	250.1	82.4	16.8
-19.5°	1989.7	1978.5	1942.1	1842.9	1673.9	1418.2	1119.2	663.7	240.3	81.0	18.2
-22.5°	1900.2	1879.3	1833.2	1736.8	1569.1	1331.6	1052.1	619.0	227.7	78.2	16.8
-25.5°	1796.8	1761.9	1707.4	1615.2	1455.9	1236.5	973.9	564.5	216.6	75.5	18.2
-29°	1647.3	1606.8	1549.5	1464.3	1330.2	1115.0	873.3	504.4	198.4	72.7	18.2
-33°	1465.7	1423.8	1362.3	1278.5	1155.5	976.7	755.9	431.7	177.4	67.1	18.2
-37.5°	1208.6	1172.3	1122.0	1054.9	945.9	795.0	619.0	327.0	153.7	61.5	18.2
-42.5°	890.0	863.5	836.9	779.7	708.4	595.2	419.2	282.2	132.7	54.5	18.2
-47.5°	574.3	564.5	550.5	522.6	480.6	394.0	313.0	222.2	113.2	47.5	18.2
-55°	252.9	257.1	257.1	257.1	251.5	236.1	208.2	150.9	81.0	39.1	16.8
-65°	95.0	97.8	102.0	106.2	109.0	109.0	102.0	82.4	51.7	27.9	15.4
-75°	43.3	44.7	44.7	46.1	47.5	46.1	44.7	39.1	27.9	19.6	15.4
-85°	19.6	18.2	18.2	18.2	16.8	16.8	16.8	16.8	16.8	15.4	14.0
-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):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)