

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: P95423

Luminaire Tested: **VFS-K-B40-7-LED-E1-VAT**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95423
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22788)
Test Lab: INNOVATION CENTER
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VFS-K-B40-7-LED-E1-VAT
Description: ARCHITECTURAL FLOOD LUMINAIRE
VERTICAL ASYMMETRIC RECTANGULAR DISTRIBUTION
WITH 40 LED'S, 700mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

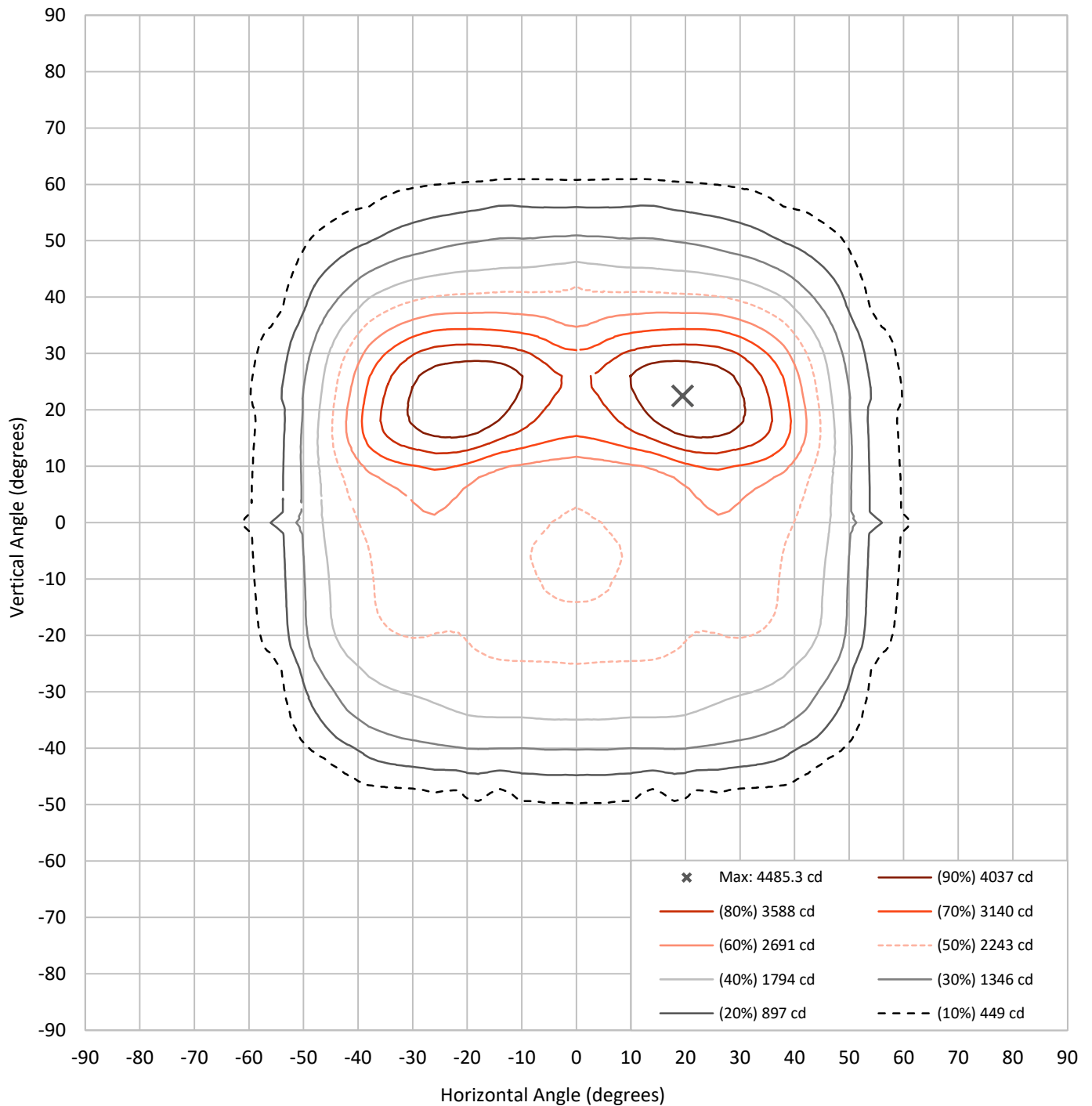
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	6539.7 lumens	Max Intensity:	4485.3 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	69.7 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	88.4°H x 62.2°V	Field Angle (10%):	119.7°H x 109.7°V
Beam Lumens:	3962.5 lumens	Field Lumens:	6282.8 lumens
Beam Efficiency:	60.6%	Field Efficiency:	96.1%
Input Watts (W):	93.8		
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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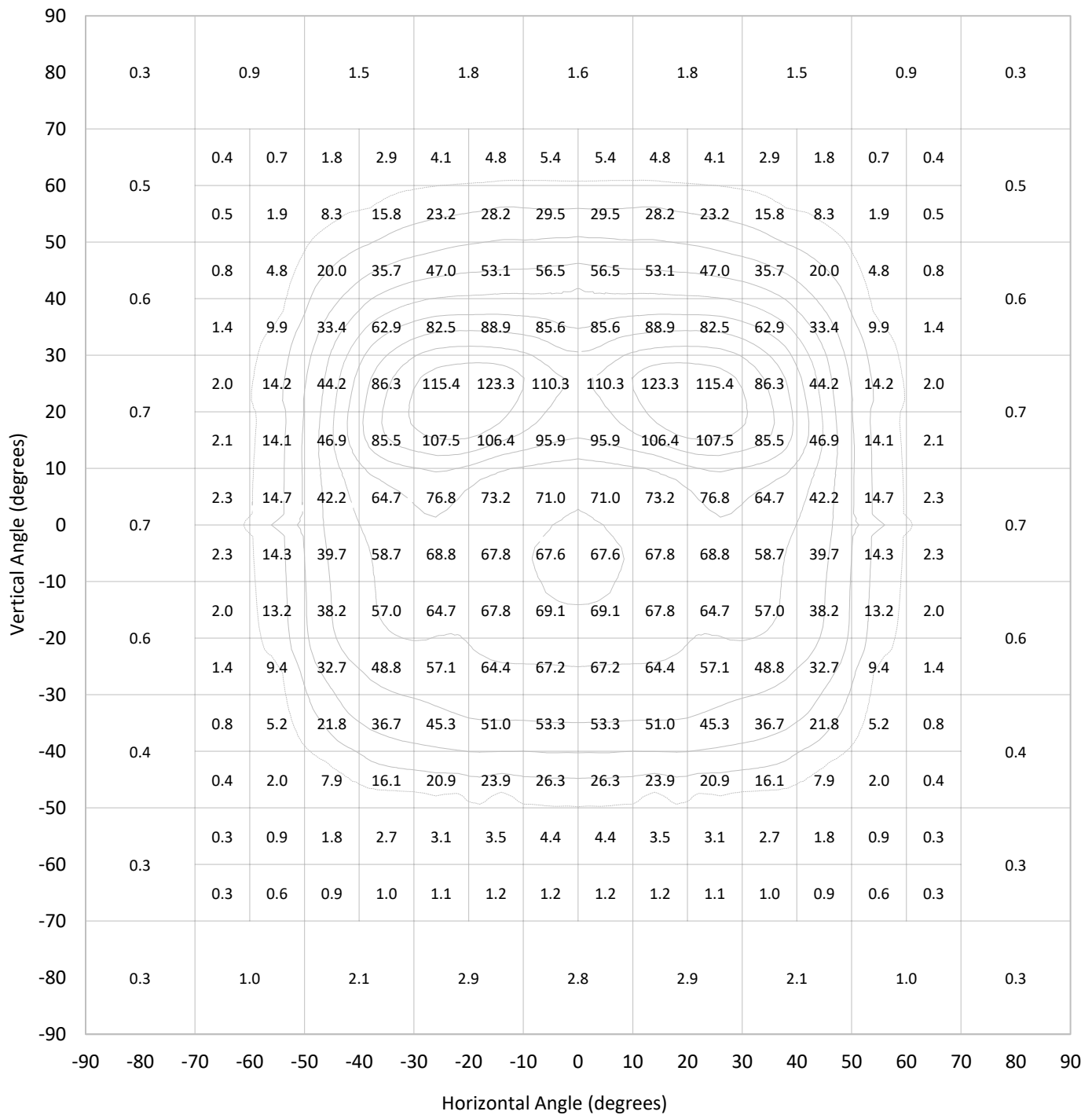
Iso-Candela Plot





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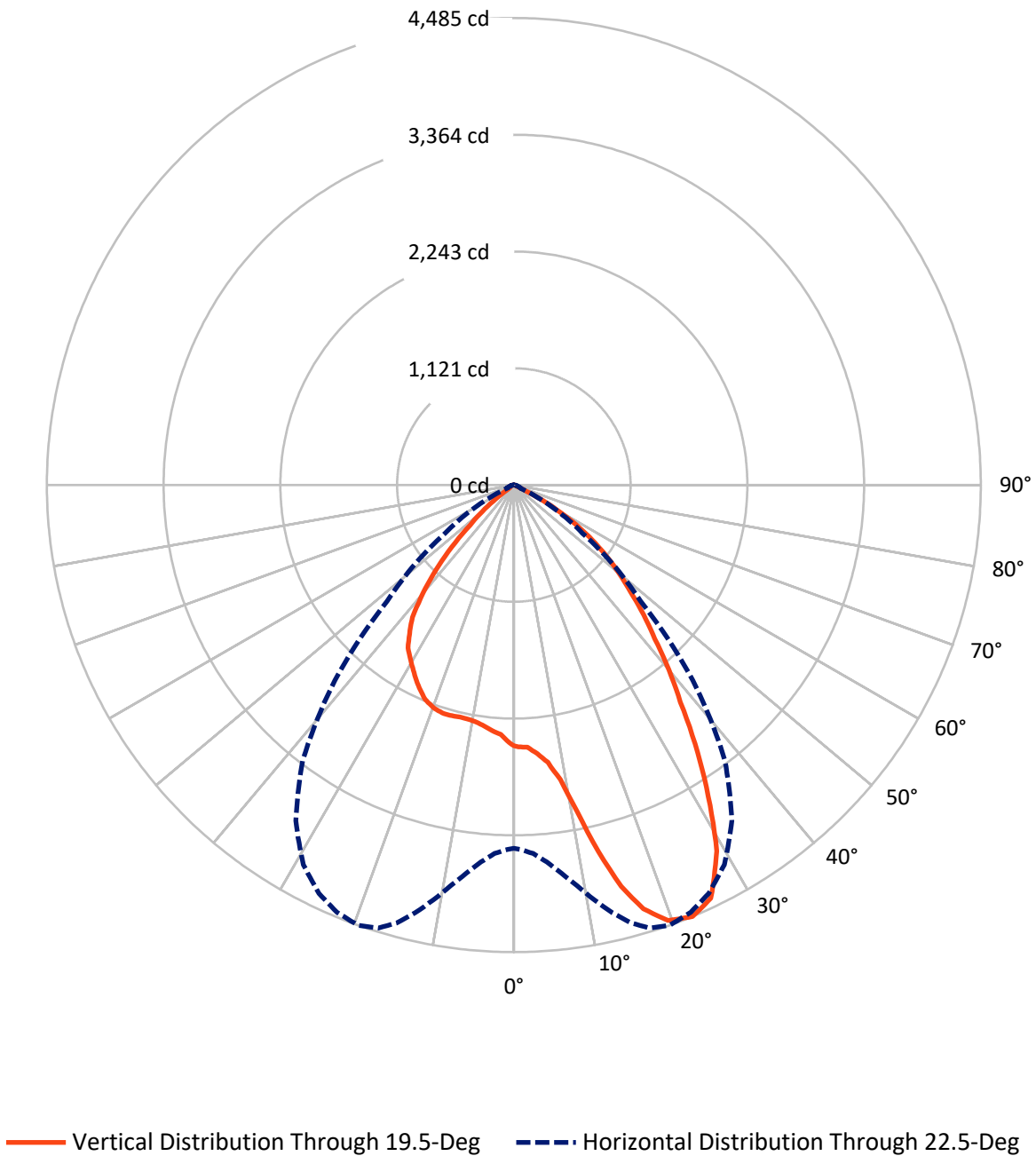
Lumen Table



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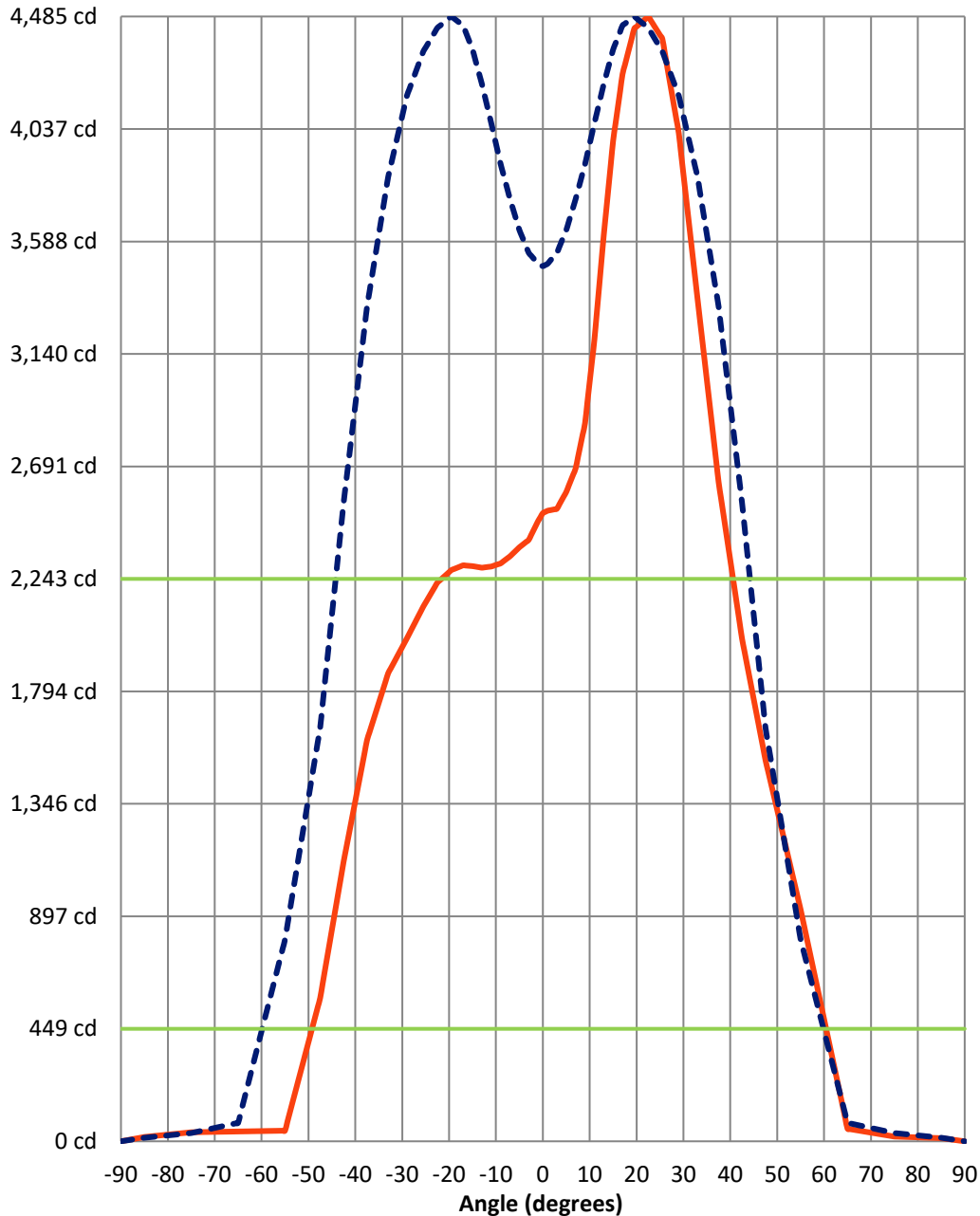
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 88.4°
 V Angle: 62.2°
 Lumens: 3962.5
 Efficiency: 60.6%

Field:
 H Angle: 119.7°
 V Angle: 109.7°
 Lumens: 6282.8
 Efficiency: 96.1%

Spill:
 Lumens: 256.8
 Efficiency: 3.9%

— 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	0.0	3.1	7.8	11.0	12.5	12.5	12.5	12.5	12.5	12.5
75°	12.5	14.1	18.8	17.2	11.0	9.4	12.5	14.1	15.7	17.2	18.8
65°	56.4	56.4	72.0	79.8	79.8	75.1	62.6	57.9	47.0	42.3	50.1
55°	987.9	981.6	976.9	980.0	978.5	984.7	1009.8	1025.4	1001.9	951.9	923.7
47.5°	1654.8	1636.0	1625.0	1629.7	1593.7	1567.1	1562.4	1562.4	1554.6	1540.5	1520.1
42.5°	2212.1	2196.5	2140.1	2102.5	2077.5	2075.9	2071.2	2069.6	2046.2	2008.6	2003.9
37.5°	2428.2	2436.0	2487.6	2555.0	2583.1	2597.2	2614.5	2637.9	2650.5	2648.9	2628.5
33°	2857.1	2857.1	2913.5	3035.6	3138.9	3204.7	3248.5	3284.5	3314.3	3339.3	3359.7
29°	3329.9	3329.9	3383.1	3495.9	3628.9	3762.0	3868.5	3948.3	4003.1	4026.6	4020.3
25.5°	3563.2	3569.4	3622.7	3729.1	3860.6	4009.4	4161.2	4277.1	4364.7	4403.9	4396.0
22.5°	3489.6	3499.0	3542.8	3633.6	3757.3	3896.6	4059.5	4216.0	4353.8	4449.3	4485.3
19.5°	3401.9	3409.8	3448.9	3522.5	3625.8	3746.3	3893.5	4057.9	4214.4	4347.5	4436.7
17°	3292.3	3301.7	3337.7	3401.9	3494.3	3607.0	3724.4	3852.8	3996.8	4134.6	4255.1
15°	3118.6	3131.1	3173.4	3223.5	3290.8	3381.6	3470.8	3571.0	3700.9	3843.4	3990.6
13°	2857.1	2871.2	2908.8	2944.8	2996.4	3077.9	3142.0	3212.5	3319.0	3455.2	3613.3
11°	2591.0	2606.6	2637.9	2663.0	2695.9	2750.7	2786.7	2836.8	2919.7	3037.2	3195.3
9°	2395.3	2403.1	2426.6	2446.9	2472.0	2519.0	2540.9	2573.8	2633.2	2719.3	2863.4
7°	2309.2	2317.0	2342.1	2362.4	2379.6	2420.3	2436.0	2456.3	2506.4	2564.4	2683.3
5°	2268.5	2273.2	2306.0	2318.6	2337.4	2376.5	2389.0	2403.1	2439.1	2483.0	2589.4
3°	2243.4	2248.1	2271.6	2288.8	2312.3	2342.1	2348.3	2364.0	2387.5	2423.5	2522.1
1°	2223.1	2224.6	2238.7	2257.5	2277.9	2299.8	2310.7	2326.4	2346.7	2401.5	2514.3
0°	2216.8	2218.4	2229.3	2245.0	2262.2	2281.0	2293.5	2309.2	2329.5	2390.6	2504.9
-1°	2212.1	2213.7	2223.1	2238.7	2252.8	2266.9	2279.4	2296.7	2315.4	2373.4	2473.6
-3°	2209.0	2209.0	2216.8	2227.8	2241.9	2251.3	2262.2	2277.9	2295.1	2329.5	2398.4
-5°	2204.3	2204.3	2210.5	2221.5	2234.0	2245.0	2257.5	2274.7	2293.5	2317.0	2368.7
-7°	2201.2	2201.2	2210.5	2219.9	2235.6	2246.6	2259.1	2276.3	2290.4	2301.3	2332.7
-9°	2209.0	2210.5	2218.4	2227.8	2241.9	2251.3	2262.2	2274.7	2285.7	2290.4	2304.5
-11°	2218.4	2218.4	2226.2	2237.2	2246.6	2255.9	2265.3	2279.4	2288.8	2288.8	2292.0
-13°	2226.2	2227.8	2232.5	2238.7	2251.3	2266.9	2279.4	2293.5	2299.8	2292.0	2287.3
-15°	2255.9	2254.4	2257.5	2263.8	2277.9	2296.7	2306.0	2312.3	2312.3	2302.9	2293.5
-17°	2307.6	2306.0	2309.2	2312.3	2324.8	2338.9	2348.3	2351.4	2340.5	2320.1	2296.7
-19.5°	2320.1	2321.7	2326.4	2328.0	2335.8	2343.6	2351.4	2353.0	2342.1	2318.6	2277.9
-22.5°	2312.3	2312.3	2309.2	2306.0	2309.2	2309.2	2312.3	2310.7	2298.2	2277.9	2227.8
-25.5°	2234.0	2230.9	2227.8	2219.9	2219.9	2210.5	2210.5	2207.4	2196.5	2174.5	2132.3
-29°	2097.8	2094.7	2091.6	2083.7	2077.5	2065.0	2066.5	2065.0	2055.6	2036.8	2005.5
-33°	1935.0	1931.9	1930.3	1927.2	1919.4	1903.7	1895.9	1897.4	1892.7	1886.5	1866.1
-37.5°	1607.8	1603.1	1606.2	1612.5	1598.4	1582.8	1587.5	1590.6	1595.3	1603.1	1600.0
-42.5°	1133.5	1128.8	1125.6	1138.1	1119.4	1106.8	1105.3	1105.3	1102.1	1117.8	1114.7
-47.5°	616.8	607.4	604.3	618.4	582.4	582.4	573.0	378.9	377.3	591.8	571.4
-55°	59.5	57.9	61.1	62.6	57.9	51.7	45.4	42.3	40.7	42.3	42.3
-65°	34.4	34.4	34.4	36.0	37.6	37.6	37.6	37.6	39.1	40.7	39.1
-75°	37.6	37.6	37.6	36.0	37.6	42.3	47.0	47.0	43.8	39.1	36.0
-85°	0.0	1.6	4.7	12.5	17.2	20.4	20.4	18.8	18.8	17.2	17.2
-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):

	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°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	14.1	14.1
75°	20.4	20.4	20.4	18.8	20.4	17.2	15.7	15.7	18.8	15.7	14.1
65°	56.4	53.2	50.1	50.1	54.8	48.5	48.5	28.2	29.7	20.4	14.1
55°	878.3	840.7	778.1	685.7	501.0	438.4	266.1	68.9	39.1	28.2	14.1
47.5°	1485.7	1427.8	1357.3	1258.7	1089.6	900.2	662.2	120.5	43.8	34.4	14.1
42.5°	1982.0	1936.6	1877.1	1761.2	1556.2	1230.5	922.1	231.7	47.0	34.4	14.1
37.5°	2623.9	2603.5	2509.6	2345.2	2071.2	1590.6	1161.6	335.0	48.5	34.4	14.1
33°	3361.2	3326.8	3196.8	2949.5	2595.7	1978.8	1374.5	591.8	56.4	34.4	14.1
29°	3985.9	3937.3	3782.4	3447.3	2998.0	2276.3	1523.3	682.6	62.6	32.9	14.1
25.5°	4344.4	4272.4	4086.1	3726.0	3228.2	2453.2	1596.9	749.9	67.3	32.9	14.1
22.5°	4439.9	4345.9	4169.0	3845.0	3328.3	2545.6	1650.1	804.7	73.6	32.9	14.1
19.5°	4424.2	4339.7	4180.0	3899.8	3408.2	2630.1	1712.7	660.7	81.4	32.9	14.1
17°	4286.5	4237.9	4108.0	3877.9	3433.2	2658.3	1751.8	677.9	86.1	32.9	14.1
15°	4064.2	4034.4	3912.3	3711.9	3337.7	2620.7	1772.2	688.8	90.8	32.9	14.1
13°	3711.9	3726.0	3605.4	3466.1	3164.0	2537.7	1780.0	701.4	92.4	32.9	14.1
11°	3319.0	3376.9	3284.5	3189.0	2938.5	2423.5	1765.9	710.8	93.9	31.3	14.1
9°	2993.3	3071.6	2991.8	2888.4	2716.2	2310.7	1747.1	720.1	97.1	31.3	12.5
7°	2821.1	2904.1	2844.6	2739.7	2570.6	2234.0	1734.6	728.0	100.2	31.3	12.5
5°	2725.6	2803.9	2760.1	2636.4	2487.6	2196.5	1731.5	732.7	103.3	31.3	12.5
3°	2659.9	2735.0	2706.8	2562.8	2429.7	2166.7	1729.9	734.2	104.9	31.3	12.5
1°	2606.6	2683.3	2659.9	2498.6	2374.9	2137.0	1722.1	731.1	104.9	29.7	12.5
0°	2584.7	2659.9	2636.4	2470.4	2351.4	2121.3	1717.4	989.4	106.5	31.3	12.5
-1°	2561.2	2634.8	2612.9	2442.2	2328.0	2104.1	1711.1	726.4	106.5	31.3	12.5
-3°	2504.9	2575.3	2565.9	2409.4	2285.7	2072.8	1690.8	720.1	104.9	29.7	12.5
-5°	2445.4	2519.0	2537.7	2406.2	2259.1	2044.6	1670.4	710.8	103.3	31.3	12.5
-7°	2392.2	2475.1	2523.7	2426.6	2246.6	2027.4	1654.8	699.8	100.2	31.3	12.5
-9°	2353.0	2443.8	2509.6	2440.7	2234.0	2010.2	1639.1	690.4	95.5	31.3	12.5
-11°	2332.7	2421.9	2498.6	2445.4	2218.4	1997.6	1628.2	677.9	93.9	32.9	12.5
-13°	2318.6	2398.4	2483.0	2440.7	2213.7	1986.7	1615.6	666.9	90.8	31.3	12.5
-15°	2307.6	2365.5	2442.2	2415.6	2209.0	1977.3	1614.1	654.4	89.2	29.7	12.5
-17°	2287.3	2320.1	2382.8	2356.1	2185.5	1964.8	1618.8	640.3	86.1	28.2	12.5
-19.5°	2234.0	2241.9	2290.4	2255.9	2121.3	1920.9	1589.0	610.6	81.4	26.6	12.5
-22.5°	2160.4	2144.8	2163.6	2135.4	2025.8	1827.0	1502.9	549.5	72.0	23.5	12.5
-25.5°	2074.3	2038.3	2022.7	1989.8	1891.2	1686.1	1354.2	324.1	64.2	21.9	12.5
-29°	1963.2	1910.0	1864.6	1831.7	1745.6	1521.7	1169.5	284.9	53.2	21.9	12.5
-33°	1820.7	1764.4	1711.1	1667.3	1579.6	1344.8	961.2	230.1	42.3	20.4	12.5
-37.5°	1554.6	1509.2	1454.4	1388.6	1279.0	1058.3	702.9	165.9	31.3	18.8	14.1
-42.5°	1084.9	1058.3	1012.9	959.7	854.8	538.5	342.9	108.0	28.2	17.2	14.1
-47.5°	377.3	475.9	386.7	369.5	360.1	280.2	195.7	65.8	25.0	17.2	14.1
-55°	48.5	51.7	62.6	64.2	62.6	56.4	53.2	50.1	21.9	15.7	14.1
-65°	39.1	39.1	37.6	36.0	39.1	42.3	37.6	39.1	18.8	14.1	14.1
-75°	32.9	32.9	37.6	39.1	36.0	34.4	26.6	21.9	15.7	14.1	14.1
-85°	17.2	15.7	15.7	15.7	15.7	15.7	14.1	14.1	14.1	14.1	14.1
-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)