

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: P95429

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95429
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-B40-7-LED-E1-VAT-SG
Description: ARCHITECTURAL FLOOD LUMINAIRE
VERTICAL ASYMMETRIC RECTANGULAR WITH SOFTENING GLASS 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:	6634.1 lumens	Max Intensity:	4061 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	70.7 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:	4185.5 lumens	Field Lumens:	6335 lumens
Beam Efficiency:	63.1%	Field Efficiency:	95.5%

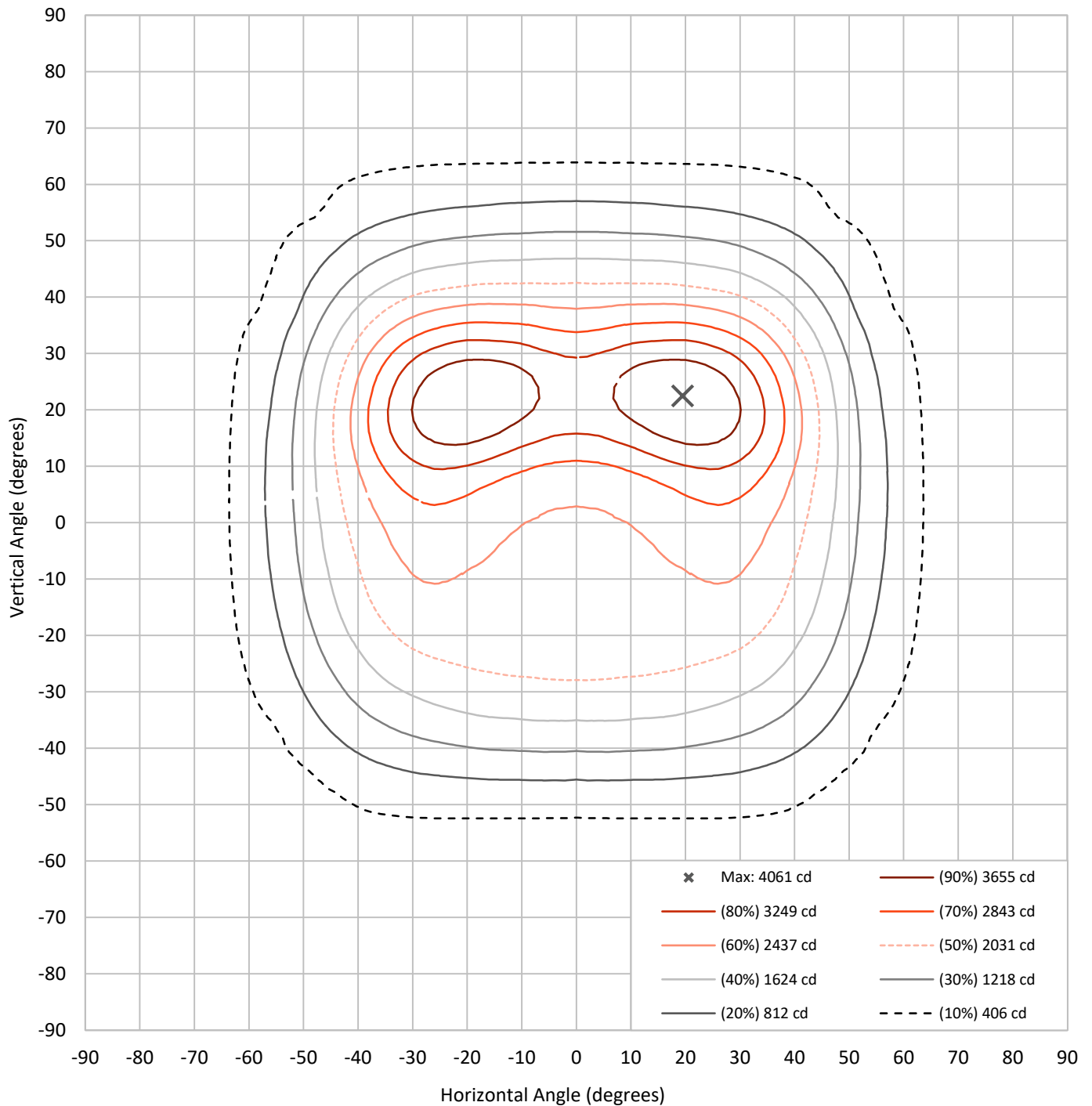
Input Watts (W): 93.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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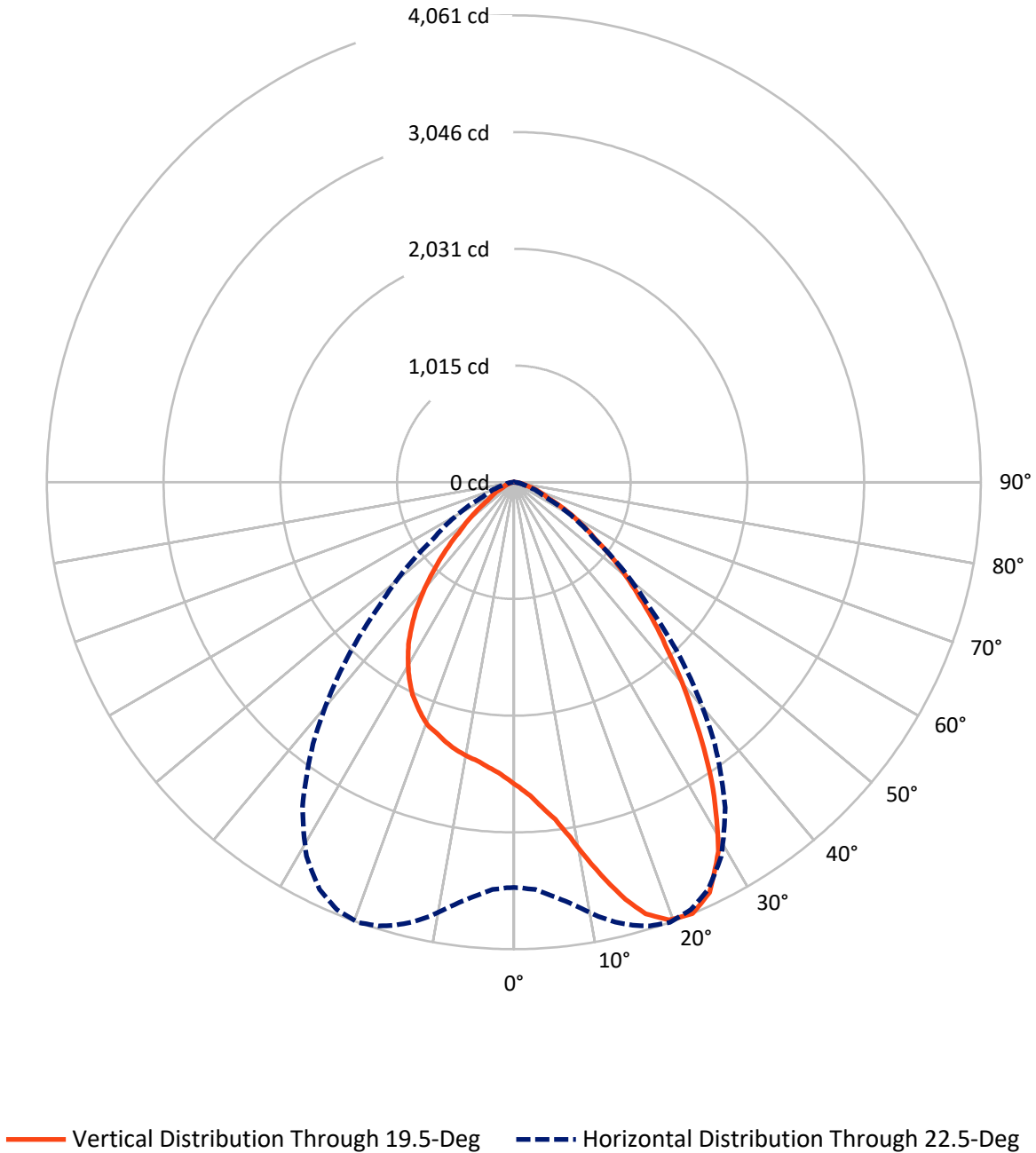
CATALOG NUMBER: VFS-K-B40-7-LED-E1-VAT-SG

Iso-Candela Plot



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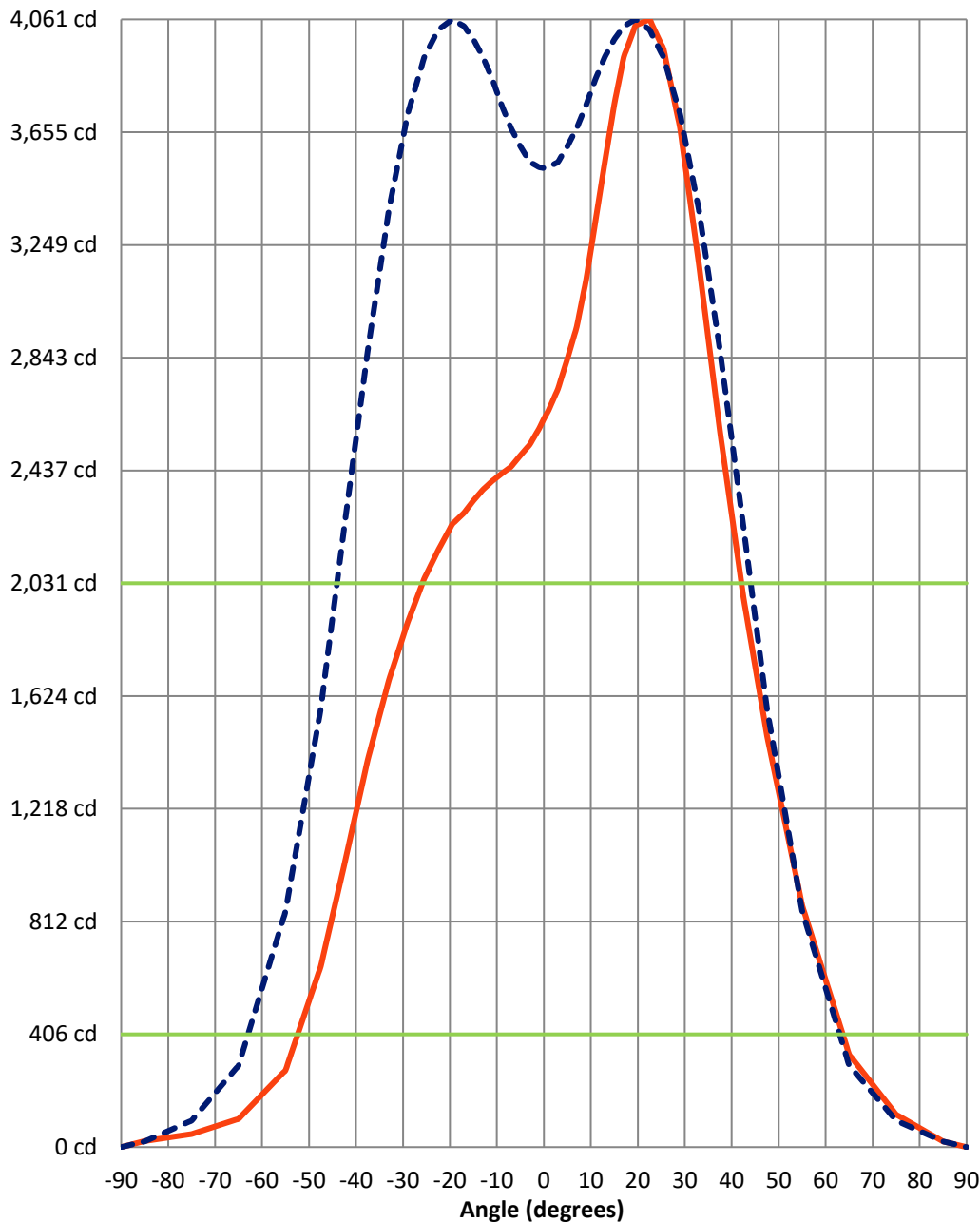
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 88.1°
 V Angle: 67.9°
 Lumens: 4185.5
 Efficiency: 63.1%

Field:
 H Angle: 126°
 V Angle: 116.1°
 Lumens: 6335
 Efficiency: 95.5%

Spill:
 Lumens: 299.1
 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	1.6	3.1	9.4	15.7	17.2	18.8	18.8	20.4	20.4	20.4
75°	108.0	106.5	106.5	106.5	108.0	108.0	109.6	112.7	114.3	115.9	117.4
65°	341.3	341.3	338.2	335.0	338.2	342.9	336.6	330.3	336.6	333.5	333.5
55°	933.1	928.4	931.5	926.8	923.7	911.1	911.1	908.0	892.4	879.8	870.4
47.5°	1559.3	1553.0	1565.5	1553.0	1556.2	1535.8	1531.1	1526.4	1523.3	1509.2	1482.6
42.5°	2036.8	2027.4	2021.1	2014.9	2025.8	2021.1	2018.0	2016.4	2013.3	2011.7	1978.8
37.5°	2475.1	2478.3	2495.5	2503.3	2544.0	2561.2	2573.8	2578.4	2583.1	2589.4	2576.9
33°	2921.3	2919.7	2951.0	2985.5	3037.2	3095.1	3129.5	3143.6	3159.3	3170.2	3181.2
29°	3287.6	3282.9	3319.0	3373.7	3427.0	3509.9	3574.1	3621.1	3661.8	3668.1	3669.6
25.5°	3477.1	3478.6	3500.6	3553.8	3638.3	3719.7	3816.8	3881.0	3923.3	3942.0	3953.0
22.5°	3525.6	3528.7	3547.5	3603.9	3669.6	3752.6	3846.5	3926.4	3989.0	4036.0	4061.0
19.5°	3437.9	3453.6	3472.4	3522.5	3607.0	3688.4	3769.8	3854.4	3931.1	3996.8	4039.1
17°	3339.3	3340.9	3355.0	3391.0	3466.1	3531.9	3608.6	3705.6	3788.6	3866.9	3924.8
15°	3189.0	3195.3	3203.1	3234.4	3297.0	3358.1	3433.2	3520.9	3607.0	3677.5	3755.7
13°	3016.8	3027.8	3021.5	3054.4	3123.3	3171.8	3232.8	3317.4	3394.1	3464.5	3549.1
11°	2825.8	2838.3	2846.2	2875.9	2918.2	2976.1	3034.0	3109.2	3181.2	3257.9	3336.2
9°	2699.0	2705.3	2708.4	2724.0	2760.1	2799.2	2860.2	2919.7	2988.6	3046.5	3123.3
7°	2580.0	2586.3	2586.3	2595.7	2633.2	2659.9	2706.8	2760.1	2813.3	2872.8	2954.2
5°	2490.8	2497.0	2508.0	2523.7	2553.4	2583.1	2616.0	2658.3	2717.8	2763.2	2838.3
3°	2432.9	2436.0	2439.1	2451.6	2475.1	2501.7	2540.9	2576.9	2606.6	2670.8	2730.3
1°	2396.8	2404.7	2401.5	2409.4	2436.0	2451.6	2486.1	2512.7	2542.4	2598.8	2653.6
0°	2381.2	2389.0	2389.0	2398.4	2418.8	2428.2	2457.9	2486.1	2514.3	2572.2	2622.3
-1°	2362.4	2367.1	2374.9	2385.9	2400.0	2412.5	2439.1	2467.3	2490.8	2539.3	2587.8
-3°	2351.4	2351.4	2354.6	2368.7	2379.6	2390.6	2409.4	2432.9	2456.3	2487.6	2529.9
-5°	2337.4	2340.5	2349.9	2357.7	2373.4	2379.6	2390.6	2412.5	2434.4	2464.2	2490.8
-7°	2337.4	2338.9	2345.2	2353.0	2354.6	2368.7	2381.2	2393.7	2409.4	2436.0	2450.1
-9°	2351.4	2353.0	2346.7	2351.4	2359.3	2368.7	2374.9	2382.8	2387.5	2404.7	2425.0
-11°	2328.0	2328.0	2328.0	2321.7	2332.7	2348.3	2354.6	2364.0	2370.2	2381.2	2398.4
-13°	2315.4	2321.7	2317.0	2318.6	2324.8	2331.1	2337.4	2345.2	2342.1	2348.3	2367.1
-15°	2296.7	2301.3	2309.2	2317.0	2323.3	2324.8	2323.3	2324.8	2318.6	2321.7	2328.0
-17°	2281.0	2288.8	2293.5	2295.1	2304.5	2293.5	2292.0	2301.3	2304.5	2293.5	2284.1
-19.5°	2265.3	2265.3	2263.8	2266.9	2268.5	2282.6	2271.6	2260.6	2251.3	2248.1	2243.4
-22.5°	2204.3	2204.3	2193.3	2201.2	2202.7	2204.3	2199.6	2190.2	2176.1	2166.7	2149.5
-25.5°	2122.9	2124.4	2118.2	2118.2	2110.4	2108.8	2104.1	2101.0	2080.6	2066.5	2046.2
-29°	1988.2	1994.5	1985.1	1986.7	1972.6	1963.2	1953.8	1941.3	1927.2	1913.1	1889.6
-33°	1756.5	1767.5	1764.4	1761.2	1761.2	1753.4	1733.1	1729.9	1725.2	1712.7	1681.4
-37.5°	1462.2	1470.0	1463.8	1471.6	1468.5	1462.2	1452.8	1440.3	1430.9	1419.9	1394.9
-42.5°	1053.6	1066.1	1064.6	1072.4	1063.0	1056.7	1052.0	1050.5	1047.3	1044.2	1016.0
-47.5°	657.5	670.1	670.1	663.8	673.2	668.5	660.7	662.2	663.8	656.0	651.3
-55°	263.0	267.7	264.6	266.1	269.3	269.3	270.8	272.4	269.3	275.5	277.1
-65°	89.2	90.8	89.2	92.4	90.8	92.4	92.4	92.4	95.5	97.1	101.8
-75°	32.9	32.9	32.9	32.9	34.4	36.0	39.1	40.7	43.8	45.4	47.0
-85°	3.1	3.1	7.8	15.7	21.9	23.5	23.5	23.5	23.5	23.5	21.9
-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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CATALOG NUMBER: VFS-K-B40-7-LED-E1-VAT-SG

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°	20.4	18.8	20.4	20.4	20.4	18.8	17.2	18.8	18.8	17.2	15.7
75°	117.4	119.0	117.4	115.9	109.6	100.2	87.7	64.2	39.1	21.9	17.2
65°	330.3	330.3	322.5	311.5	294.3	264.6	223.9	151.9	76.7	34.4	18.8
55°	854.8	829.7	793.7	743.6	663.8	565.2	374.2	280.2	122.1	50.1	20.4
47.5°	1456.0	1419.9	1358.9	1254.0	1105.3	911.1	701.4	393.0	167.5	59.5	20.4
42.5°	1936.6	1892.7	1827.0	1676.7	1471.6	1189.8	889.2	450.9	191.0	70.4	20.4
37.5°	2536.2	2472.0	2367.1	2179.2	1875.5	1487.3	1097.4	501.0	216.0	78.3	20.4
33°	3131.1	3034.0	2886.9	2648.9	2254.4	1762.8	1282.2	673.2	245.8	84.5	21.9
29°	3616.4	3506.8	3328.3	3016.8	2569.1	1988.2	1421.5	749.9	266.1	89.2	20.4
25.5°	3902.9	3793.3	3592.9	3253.2	2764.7	2140.1	1518.6	811.0	283.4	92.4	21.9
22.5°	4023.4	3923.3	3719.7	3375.3	2868.1	2232.5	1579.6	850.1	294.3	95.5	20.4
19.5°	4021.9	3940.5	3757.3	3423.8	2932.3	2290.4	1631.3	879.8	302.1	97.1	21.9
17°	3921.7	3862.2	3699.4	3394.1	2922.9	2299.8	1653.2	900.2	306.8	98.6	20.4
15°	3780.8	3733.8	3596.1	3312.7	2883.7	2292.0	1664.2	917.4	310.0	100.2	20.4
13°	3578.8	3569.4	3448.9	3214.1	2813.3	2257.5	1670.4	928.4	314.7	100.2	20.4
11°	3375.3	3384.7	3293.9	3085.7	2731.9	2215.2	1667.3	929.9	317.8	100.2	20.4
9°	3179.6	3210.9	3142.0	2957.3	2648.9	2180.8	1650.1	936.2	320.9	100.2	20.4
7°	3023.1	3071.6	2996.4	2857.1	2567.5	2135.4	1640.7	942.5	319.4	101.8	20.4
5°	2897.8	2938.5	2904.1	2769.4	2497.0	2091.6	1631.3	939.3	319.4	101.8	20.4
3°	2799.2	2838.3	2807.0	2667.7	2436.0	2061.8	1612.5	936.2	322.5	101.8	20.4
1°	2713.1	2749.1	2731.9	2587.8	2385.9	2021.1	1587.5	931.5	322.5	101.8	20.4
0°	2670.8	2705.3	2697.4	2561.2	2356.1	1997.6	1578.1	925.2	320.9	101.8	20.4
-1°	2636.4	2672.4	2661.4	2536.2	2328.0	1980.4	1568.7	920.5	320.9	101.8	20.4
-3°	2570.6	2612.9	2605.1	2495.5	2287.3	1958.5	1545.2	911.1	317.8	101.8	20.4
-5°	2531.5	2580.0	2561.2	2456.3	2246.6	1920.9	1531.1	901.8	314.7	100.2	20.4
-7°	2492.3	2526.8	2515.8	2400.0	2202.7	1875.5	1496.7	890.8	310.0	98.6	20.4
-9°	2445.4	2476.7	2470.4	2356.1	2154.2	1844.2	1468.5	872.0	305.3	98.6	20.4
-11°	2423.5	2437.6	2418.8	2320.1	2113.5	1806.6	1437.2	853.2	299.0	97.1	20.4
-13°	2381.2	2389.0	2370.2	2281.0	2065.0	1758.1	1401.2	829.7	292.8	95.5	20.4
-15°	2335.8	2340.5	2321.7	2223.1	2018.0	1717.4	1363.6	804.7	286.5	93.9	20.4
-17°	2287.3	2285.7	2257.5	2146.4	1958.5	1662.6	1316.6	779.6	280.2	92.4	18.8
-19.5°	2229.3	2216.8	2176.1	2065.0	1875.5	1589.0	1254.0	743.6	269.3	90.8	20.4
-22.5°	2129.1	2105.7	2054.0	1946.0	1758.1	1492.0	1178.9	693.5	255.2	87.7	18.8
-25.5°	2013.3	1974.2	1913.1	1809.8	1631.3	1385.5	1091.2	632.5	242.7	84.5	20.4
-29°	1845.8	1800.4	1736.2	1640.7	1490.4	1249.3	978.5	565.2	222.3	81.4	20.4
-33°	1642.3	1595.3	1526.4	1432.5	1294.7	1094.3	847.0	483.8	198.8	75.1	20.4
-37.5°	1354.2	1313.5	1257.1	1182.0	1059.9	890.8	693.5	366.3	172.2	68.9	20.4
-42.5°	997.3	967.5	937.8	873.6	793.7	666.9	469.7	316.2	148.7	61.1	20.4
-47.5°	643.4	632.5	616.8	585.5	538.5	441.5	350.7	248.9	126.8	53.2	20.4
-55°	283.4	288.1	288.1	288.1	281.8	264.6	233.3	169.1	90.8	43.8	18.8
-65°	106.5	109.6	114.3	119.0	122.1	122.1	114.3	92.4	57.9	31.3	17.2
-75°	48.5	50.1	50.1	51.7	53.2	51.7	50.1	43.8	31.3	21.9	17.2
-85°	21.9	20.4	20.4	20.4	18.8	18.8	18.8	18.8	18.8	17.2	15.7
-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):

	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)