

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: P95435

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95435
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22641)
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-WST
Description: ARCHITECTURAL FLOOD LUMINAIRE
WIDE SYMMETRIC RECTANGULAR DISTRIBUTION
WITH 40 LED'S, 700mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

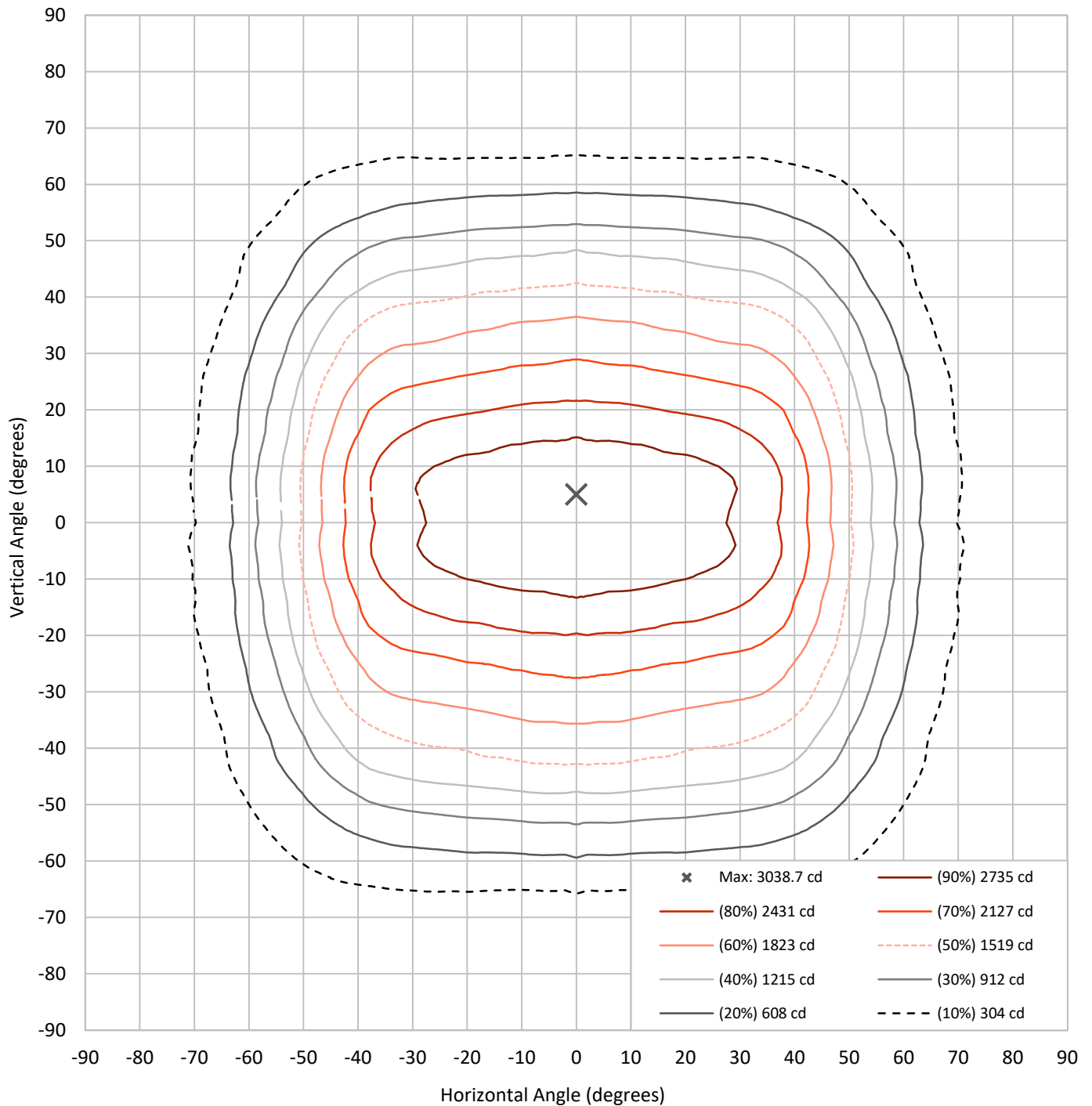
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6469.9 lumens	Max Intensity:	3038.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	69.0 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	101.1°H x 85.4°V	Field Angle (10%):	140.9°H x 130.5°V
Beam Lumens:	4525.5 lumens	Field Lumens:	6241.7 lumens
Beam Efficiency:	69.9%	Field Efficiency:	96.5%
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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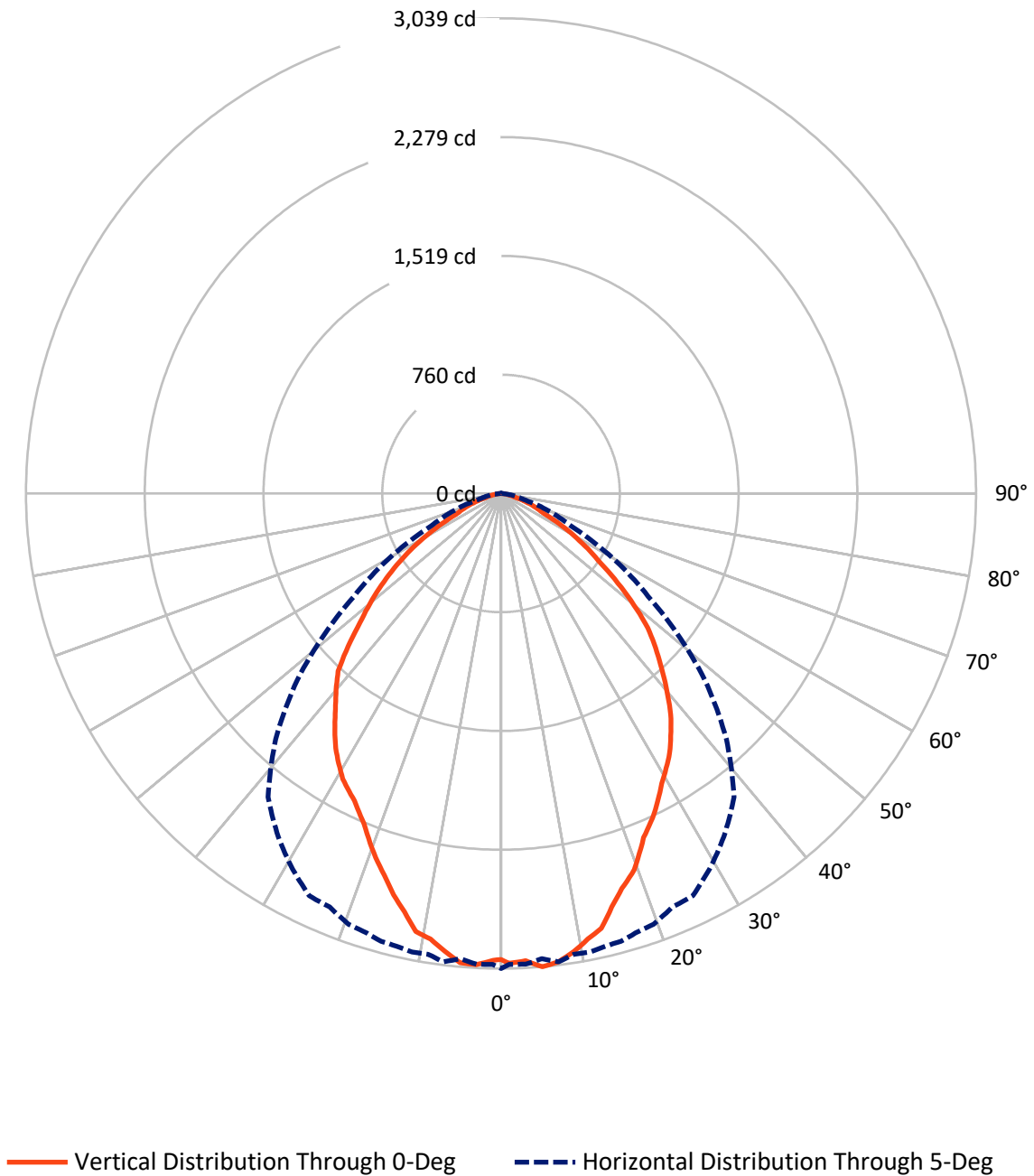
Iso-Candela Plot



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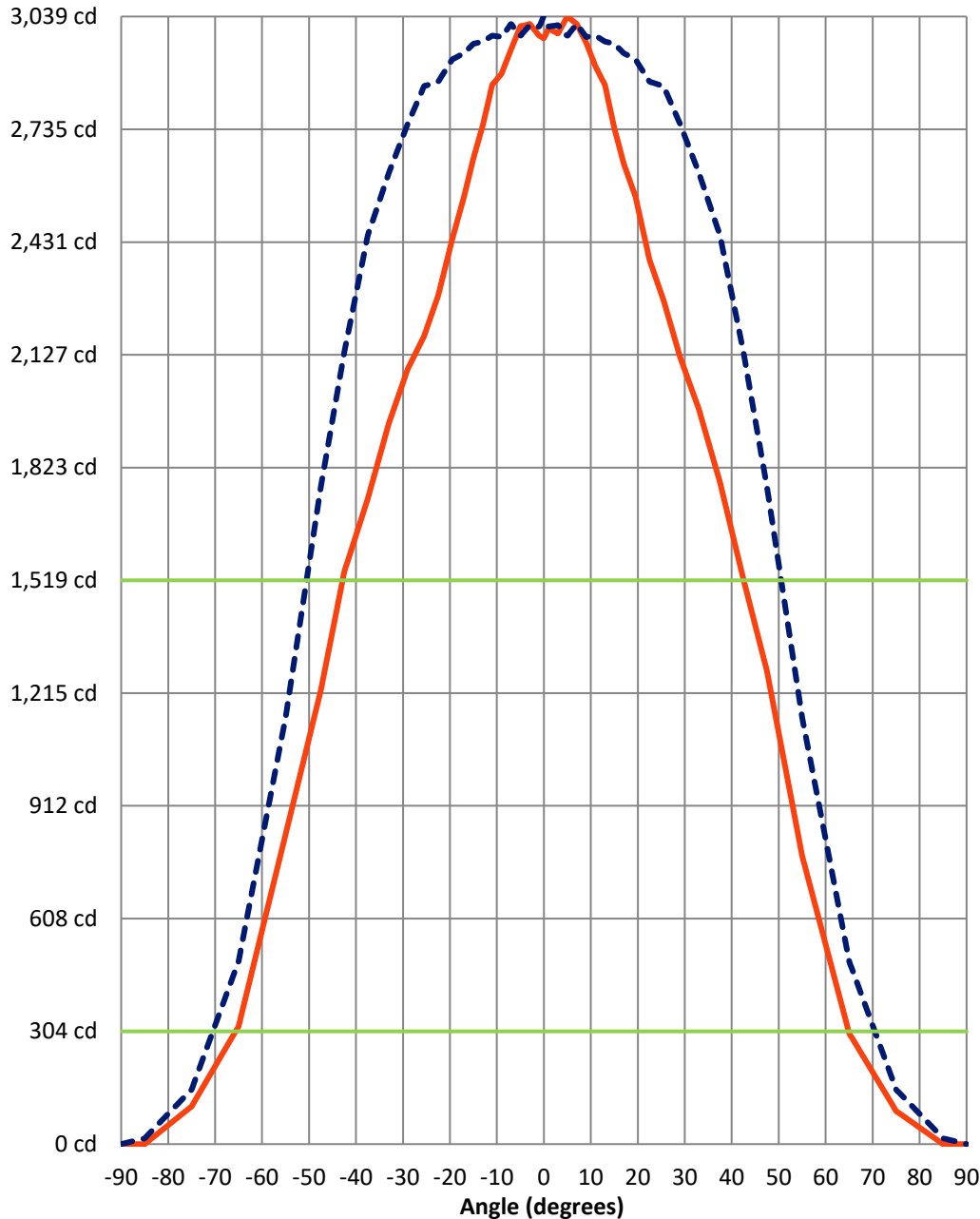
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.1°
 V Angle: 85.4°
 Lumens: 4525.5
 Efficiency: 69.9%

Field:
 H Angle: 140.9°
 V Angle: 130.5°
 Lumens: 6241.7
 Efficiency: 96.5%

Spill:
 Lumens: 228.2
 Efficiency: 3.5%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 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	0.0	0.0	0.0	0.0	0.0	3.1	9.4	15.7	3.1
75°	89.2	67.3	92.4	70.4	76.7	73.6	86.1	79.8	83.0	89.2	86.1
65°	299.0	283.4	299.0	289.6	267.7	286.5	277.1	280.2	280.2	280.2	280.2
55°	776.5	770.2	773.4	773.4	770.2	754.6	754.6	745.2	751.5	742.1	732.7
47.5°	1274.4	1241.5	1238.3	1238.3	1203.9	1207.0	1210.2	1191.4	1185.1	1182.0	1163.2
42.5°	1521.7	1502.9	1490.4	1493.5	1477.9	1471.6	1471.6	1432.5	1438.7	1452.8	1401.2
37.5°	1783.2	1780.0	1761.2	1755.0	1748.7	1748.7	1736.2	1709.6	1697.0	1690.8	1672.0
33°	1980.4	1977.3	1961.6	1946.0	1942.8	1927.2	1939.7	1917.8	1878.7	1869.3	1859.9
29°	2121.3	2124.4	2115.0	2093.1	2085.3	2079.0	2085.3	2057.1	2038.3	2028.9	1992.9
25.5°	2273.2	2251.3	2248.1	2232.5	2238.7	2223.1	2223.1	2204.3	2188.6	2180.8	2162.0
22.5°	2382.8	2398.4	2379.6	2368.7	2373.4	2365.5	2346.7	2337.4	2321.7	2302.9	2287.3
19.5°	2553.4	2528.4	2534.6	2525.2	2519.0	2509.6	2493.9	2478.3	2457.9	2442.2	2426.6
17°	2642.6	2627.0	2627.0	2639.5	2636.4	2598.8	2605.1	2601.9	2561.2	2540.9	2534.6
15°	2738.1	2722.5	2706.8	2700.6	2716.2	2681.8	2666.1	2663.0	2627.0	2601.9	2598.8
13°	2854.0	2821.1	2808.6	2805.5	2808.6	2792.9	2789.8	2789.8	2741.3	2719.3	2713.1
11°	2904.1	2885.3	2869.6	2850.9	2866.5	2850.9	2841.5	2830.5	2799.2	2780.4	2767.9
9°	2968.3	2952.6	2949.5	2930.7	2952.6	2949.5	2926.0	2922.9	2901.0	2863.4	2847.7
7°	3018.4	3009.0	2999.6	2971.4	2987.1	2965.1	2974.5	2965.1	2943.2	2919.7	2919.7
5°	3038.7	3012.1	3015.2	2987.1	3018.4	2983.9	2987.1	2971.4	2965.1	2940.1	2922.9
3°	2993.3	2990.2	2983.9	2971.4	2996.4	2971.4	2971.4	2962.0	2952.6	2922.9	2913.5
1°	3005.8	2990.2	2987.1	2949.5	2974.5	2965.1	2980.8	2946.4	2937.0	2916.6	2910.3
0°	2980.8	2977.7	2968.3	2933.8	2962.0	2968.3	2952.6	2949.5	2926.0	2897.8	2901.0
-1°	2987.1	2974.5	2962.0	2949.5	2974.5	2952.6	2962.0	2968.3	2940.1	2907.2	2891.6
-3°	3018.4	2996.4	2987.1	2999.6	3002.7	2999.6	2977.7	2980.8	2974.5	2933.8	2922.9
-5°	3012.1	3005.8	2993.3	2999.6	2999.6	3005.8	2987.1	2980.8	2952.6	2926.0	2901.0
-7°	2949.5	2930.7	2933.8	2913.5	2926.0	2916.6	2913.5	2904.1	2897.8	2838.3	2830.5
-9°	2885.3	2885.3	2879.0	2875.9	2891.6	2869.6	2857.1	2847.7	2841.5	2799.2	2780.4
-11°	2854.0	2821.1	2811.7	2796.1	2786.7	2796.1	2777.3	2761.6	2749.1	2719.3	2703.7
-13°	2746.0	2731.9	2738.1	2697.4	2691.2	2691.2	2678.6	2672.4	2636.4	2611.3	2611.3
-15°	2656.7	2642.6	2653.6	2639.5	2642.6	2636.4	2620.7	2605.1	2573.8	2540.9	2537.7
-17°	2553.4	2561.2	2567.5	2544.0	2553.4	2550.3	2537.7	2537.7	2503.3	2465.7	2457.9
-19.5°	2439.1	2457.9	2445.4	2429.7	2436.0	2432.9	2407.8	2392.2	2379.6	2359.3	2359.3
-22.5°	2287.3	2315.4	2299.8	2287.3	2290.4	2290.4	2266.9	2257.5	2238.7	2219.9	2213.7
-25.5°	2177.7	2194.9	2174.5	2165.1	2171.4	2149.5	2146.4	2143.2	2111.9	2105.7	2102.5
-29°	2088.4	2082.2	2079.0	2069.6	2063.4	2054.0	2032.1	2032.1	1980.4	1989.8	1980.4
-33°	1942.8	1949.1	1927.2	1917.8	1933.4	1914.7	1897.4	1884.9	1859.9	1847.3	1828.6
-37.5°	1739.3	1745.6	1733.1	1723.7	1733.1	1719.0	1703.3	1675.1	1662.6	1653.2	1628.2
-42.5°	1542.1	1554.6	1548.3	1531.1	1548.3	1524.8	1512.3	1487.3	1487.3	1487.3	1452.8
-47.5°	1222.7	1238.3	1244.6	1244.6	1244.6	1225.8	1219.6	1200.8	1194.5	1178.9	1169.5
-55°	834.4	812.5	796.9	812.5	803.1	806.3	779.6	785.9	770.2	773.4	770.2
-65°	317.8	295.9	295.9	305.3	295.9	292.8	292.8	292.8	299.0	299.0	308.4
-75°	101.8	73.6	95.5	73.6	83.0	92.4	98.6	92.4	95.5	98.6	92.4
-85°	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.1	3.1	0.0	0.0
-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):

	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°	6.3	6.3	3.1	9.4	9.4	18.8	15.7	18.8	15.7	15.7	21.9
75°	89.2	86.1	95.5	101.8	95.5	83.0	83.0	61.1	25.0	18.8	18.8
65°	277.1	277.1	286.5	289.6	270.8	245.8	219.2	169.1	57.9	28.2	12.5
55°	713.9	701.4	674.7	656.0	594.9	526.0	449.3	286.5	120.5	28.2	6.3
47.5°	1136.6	1111.5	1086.5	1077.1	994.1	853.2	701.4	449.3	206.7	57.9	15.7
42.5°	1369.9	1354.2	1333.8	1302.5	1219.6	1063.0	834.4	529.2	209.8	31.3	0.0
37.5°	1640.7	1610.9	1604.7	1573.4	1484.1	1318.2	1041.1	662.2	277.1	86.1	12.5
33°	1831.7	1792.5	1767.5	1758.1	1678.3	1496.7	1207.0	757.7	324.1	108.0	15.7
29°	1977.3	1952.2	1942.8	1914.7	1811.3	1620.3	1327.6	825.0	360.1	117.4	15.7
25.5°	2140.1	2111.9	2085.3	2054.0	1949.1	1726.8	1449.7	908.0	403.9	120.5	15.7
22.5°	2263.8	2241.9	2207.4	2168.3	2050.9	1822.3	1512.3	948.7	416.4	120.5	9.4
19.5°	2407.8	2385.9	2349.9	2293.5	2171.4	1897.4	1579.6	1009.8	430.5	129.9	15.7
17°	2509.6	2481.4	2442.2	2368.7	2223.1	1967.9	1623.5	1028.6	436.8	129.9	12.5
15°	2583.1	2531.5	2487.6	2423.5	2273.2	2003.9	1650.1	1031.7	436.8	123.7	3.1
13°	2691.2	2636.4	2592.5	2500.2	2365.5	2072.8	1712.7	1092.7	474.4	159.7	15.7
11°	2746.0	2716.2	2653.6	2537.7	2385.9	2091.6	1745.6	1108.4	480.6	159.7	12.5
9°	2802.3	2774.1	2700.6	2601.9	2442.2	2124.4	1758.1	1139.7	493.1	156.6	18.8
7°	2844.6	2830.5	2755.4	2623.9	2451.6	2140.1	1780.0	1155.4	513.5	153.4	21.9
5°	2863.4	2850.9	2749.1	2617.6	2448.5	2133.8	1770.6	1149.1	493.1	147.2	15.7
3°	2854.0	2811.7	2703.7	2598.8	2436.0	2115.0	1761.2	1139.7	477.5	133.1	9.4
1°	2854.0	2811.7	2703.7	2592.5	2439.1	2127.6	1773.8	1136.6	490.0	133.1	12.5
0°	2824.2	2789.8	2694.3	2564.4	2417.2	2115.0	1755.0	1127.2	468.1	120.5	6.3
-1°	2824.2	2796.1	2700.6	2580.0	2426.6	2127.6	1770.6	1133.5	486.9	133.1	9.4
-3°	2857.1	2814.8	2749.1	2617.6	2436.0	2140.1	1801.9	1163.2	513.5	172.2	31.3
-5°	2847.7	2821.1	2741.3	2614.5	2457.9	2149.5	1805.1	1158.5	513.5	172.2	40.7
-7°	2777.3	2752.2	2684.9	2580.0	2423.5	2111.9	1751.8	1124.1	474.4	140.9	21.9
-9°	2746.0	2719.3	2642.6	2534.6	2385.9	2099.4	1751.8	1124.1	490.0	150.3	31.3
-11°	2672.4	2633.2	2564.4	2487.6	2356.1	2060.3	1715.8	1114.7	471.2	150.3	28.2
-13°	2567.5	2534.6	2484.5	2414.1	2276.3	1992.9	1662.6	1059.9	446.2	126.8	9.4
-15°	2519.0	2481.4	2448.5	2398.4	2248.1	1967.9	1643.8	1053.6	465.0	153.4	15.7
-17°	2448.5	2410.9	2376.5	2321.7	2201.2	1952.2	1614.1	1044.2	461.8	153.4	18.8
-19.5°	2343.6	2306.0	2270.0	2223.1	2111.9	1859.9	1560.8	1012.9	433.7	133.1	12.5
-22.5°	2188.6	2162.0	2146.4	2111.9	2003.9	1786.3	1518.6	958.1	413.3	120.5	9.4
-25.5°	2079.0	2050.9	2028.9	2000.8	1894.3	1693.9	1419.9	901.8	375.7	104.9	3.1
-29°	1955.4	1930.3	1911.5	1900.6	1798.8	1607.8	1324.4	847.0	366.3	114.3	18.8
-33°	1811.3	1789.4	1776.9	1733.1	1662.6	1490.4	1216.4	757.7	338.2	98.6	15.7
-37.5°	1604.7	1595.3	1579.6	1542.1	1459.1	1302.5	1041.1	659.1	283.4	73.6	3.1
-42.5°	1429.3	1429.3	1407.4	1357.3	1293.1	1130.3	908.0	591.8	267.7	95.5	34.4
-47.5°	1158.5	1139.7	1114.7	1070.8	1019.2	881.4	713.9	455.6	219.2	57.9	12.5
-55°	751.5	732.7	717.0	701.4	652.8	579.3	474.4	324.1	147.2	40.7	15.7
-65°	302.1	308.4	302.1	295.9	280.2	267.7	228.6	165.9	76.7	21.9	9.4
-75°	101.8	101.8	98.6	104.9	114.3	95.5	79.8	48.5	34.4	15.7	9.4
-85°	3.1	3.1	0.0	3.1	9.4	0.0	3.1	15.7	15.7	3.1	9.4
-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):

	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)