

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628441

Luminaire Tested: **IFLD-S-SA2B-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

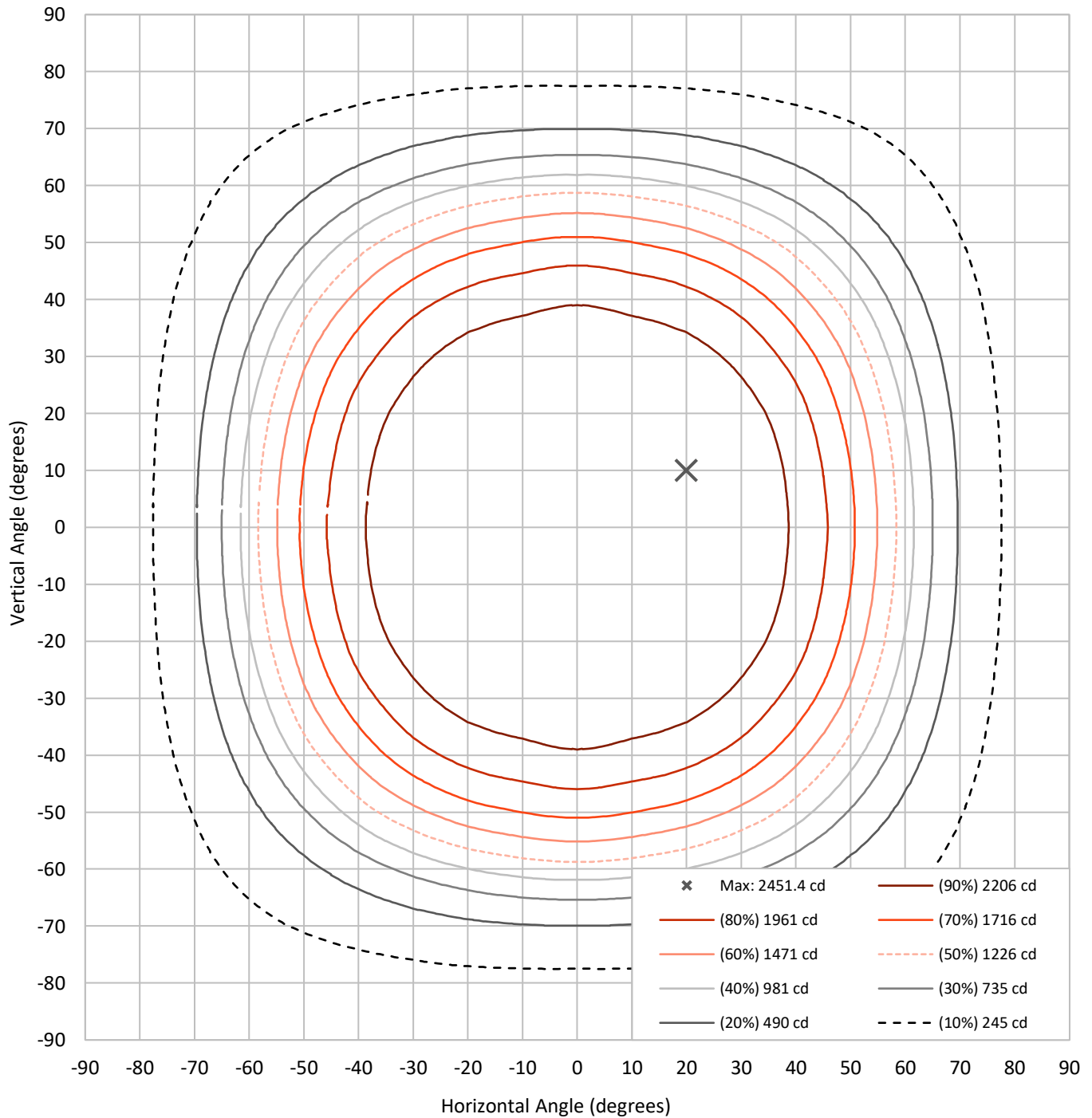
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7520.5 lumens	Max Intensity:	2451.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	4614.7 lumens	Field Lumens:	5532.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4
Input Voltage (V): 120
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



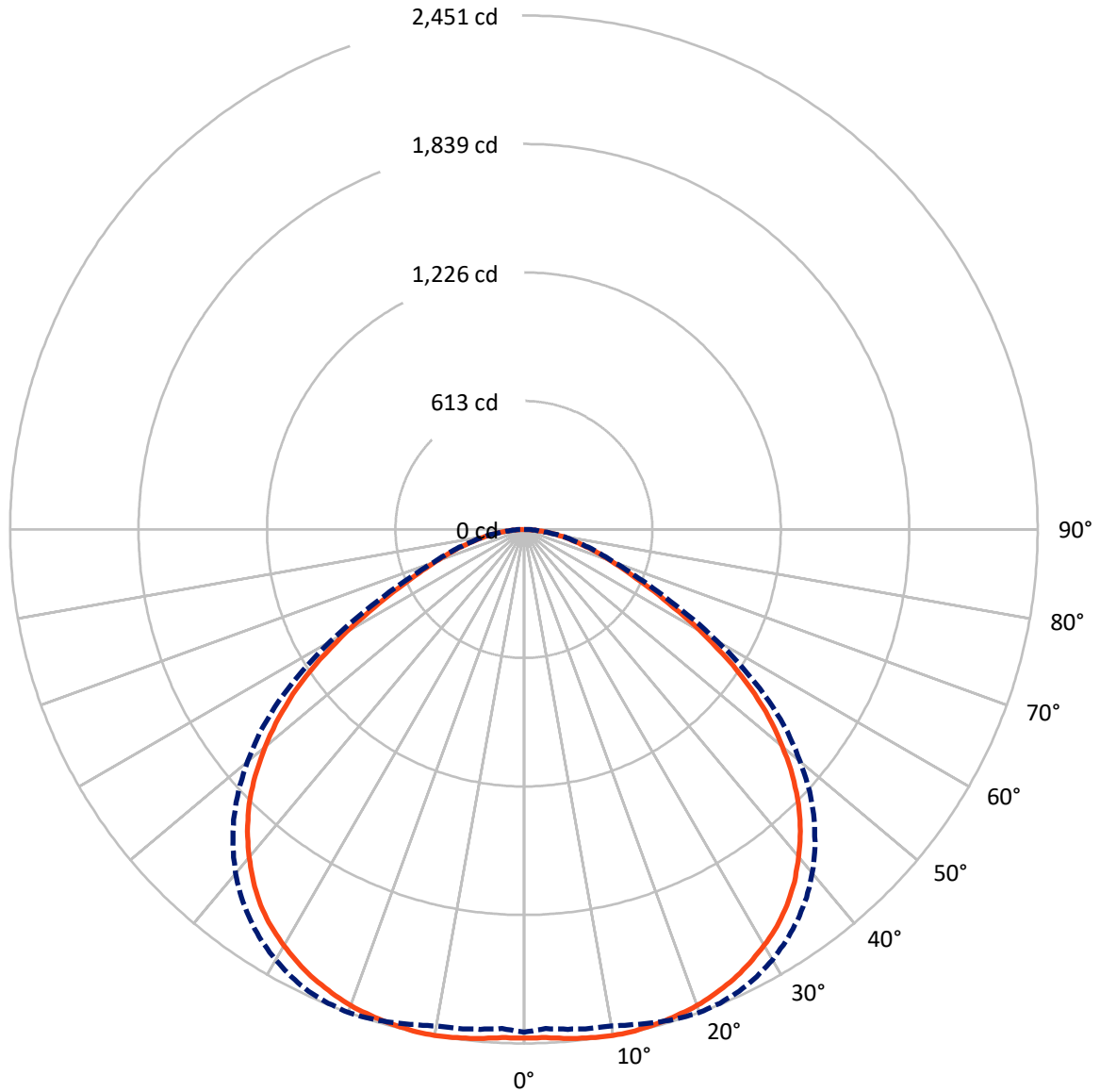
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Iso-Candela Plot



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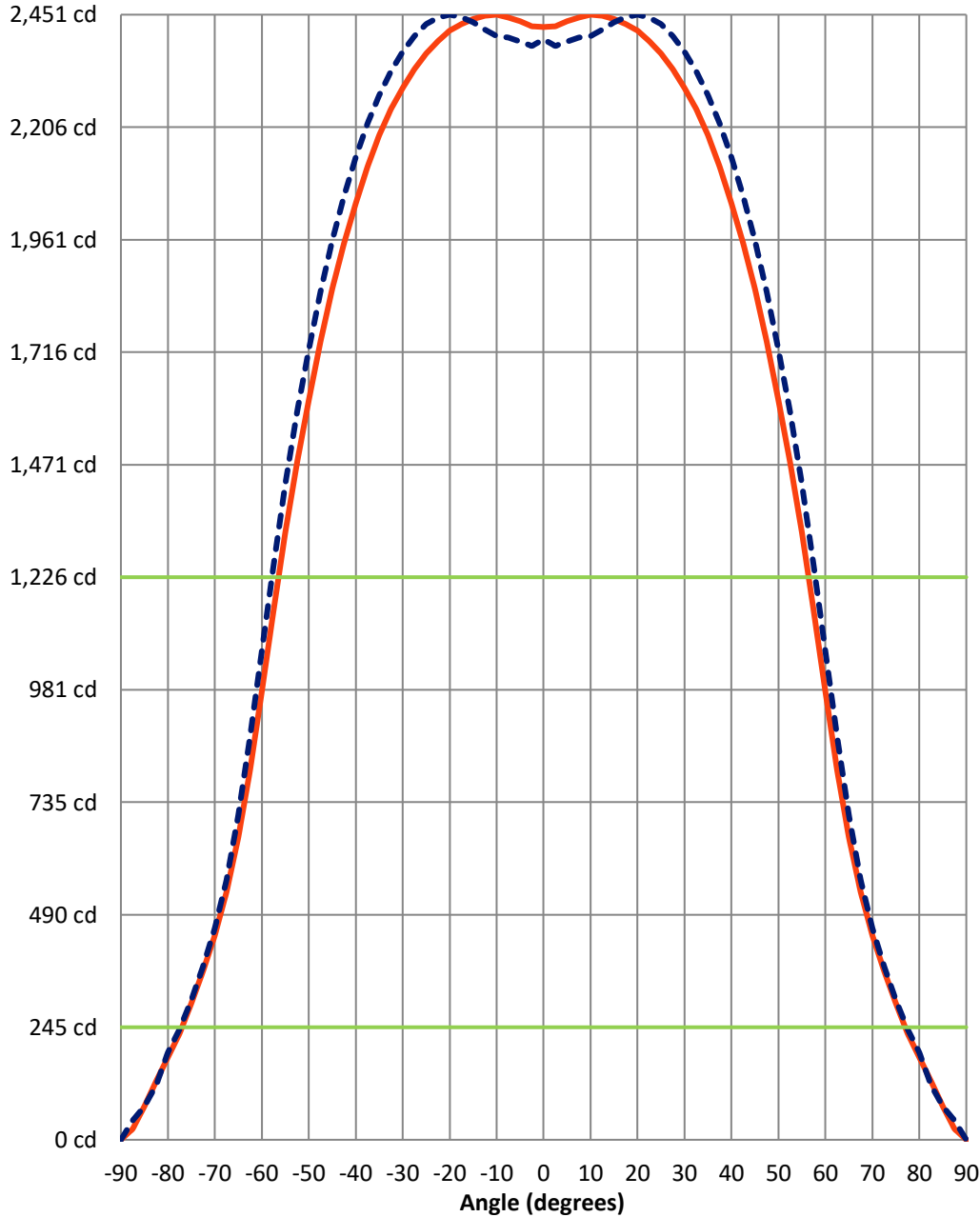
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 4614.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5532.3
 Efficiency: 73.6%

Spill:
 Lumens: 1988.2
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	21.4	22.2	22.9	23.7	24.5	25.3	24.5	23.7	23.7	22.9
85°	53.0	54.6	55.4	60.9	66.5	69.6	73.6	72.8	72.8	72.0	71.2
82.5°	106.0	110.8	114.7	120.3	123.4	128.2	131.4	129.0	127.4	124.2	121.9
80°	188.3	189.9	190.7	191.5	187.5	186.7	185.2	182.8	179.6	175.7	171.7
77.5°	239.8	241.3	242.9	241.3	240.5	239.8	237.4	235.0	231.8	228.7	223.9
75°	317.3	317.3	317.3	314.9	313.3	311.0	307.0	303.1	297.5	291.2	284.1
72.5°	399.6	398.8	398.0	393.3	389.3	384.6	379.0	374.3	367.9	360.8	351.3
70°	485.8	487.4	488.2	481.9	477.1	470.8	463.7	455.0	445.5	435.2	421.8
67.5°	604.5	603.0	601.4	592.7	586.3	577.6	567.3	554.7	540.4	524.6	505.6
65°	751.7	754.1	749.3	740.6	728.8	714.5	698.7	680.5	659.1	635.4	608.5
62.5°	929.8	933.7	928.2	917.1	902.1	883.1	860.9	834.8	805.5	772.3	739.1
60°	1132.3	1131.5	1121.2	1106.2	1086.4	1062.7	1038.2	1009.7	976.4	937.7	897.3
57.5°	1318.3	1316.7	1304.0	1289.0	1269.2	1243.9	1217.8	1187.7	1152.9	1111.8	1065.1
55°	1485.2	1483.7	1471.0	1455.2	1434.6	1409.3	1385.5	1357.0	1323.0	1279.5	1229.7
52.5°	1633.2	1634.0	1622.9	1605.5	1583.4	1558.8	1535.9	1507.4	1474.9	1431.4	1383.2
50°	1769.3	1768.5	1756.6	1740.8	1720.2	1696.5	1673.6	1645.1	1611.1	1569.1	1522.4
47.5°	1895.9	1894.3	1880.9	1863.5	1842.1	1821.5	1800.2	1774.8	1739.2	1697.3	1650.6
45°	2001.9	1998.8	1985.3	1968.7	1948.1	1929.9	1910.9	1892.0	1854.0	1815.2	1770.9
42.5°	2092.9	2092.1	2078.7	2062.1	2041.5	2025.7	2008.3	1984.5	1952.9	1917.3	1873.8
40°	2180.0	2173.7	2160.2	2144.4	2125.4	2111.9	2094.5	2070.8	2039.9	2005.1	1963.2
37.5°	2244.9	2245.7	2231.4	2214.0	2197.4	2184.7	2168.9	2146.7	2119.8	2085.8	2043.9
35°	2306.6	2302.6	2290.8	2275.7	2260.7	2246.4	2229.8	2210.8	2188.7	2157.0	2117.5
32.5°	2346.9	2352.5	2338.2	2322.4	2313.7	2302.6	2285.2	2265.4	2245.7	2214.0	2178.4
30°	2391.3	2386.5	2375.4	2362.0	2355.6	2348.5	2333.5	2314.5	2291.6	2263.1	2229.8
27.5°	2422.1	2419.7	2406.3	2393.6	2390.5	2384.1	2372.3	2355.6	2332.7	2305.0	2274.1
25°	2435.6	2437.1	2424.5	2417.4	2417.4	2413.4	2403.9	2389.7	2366.7	2341.4	2311.3
22.5°	2441.9	2440.3	2431.6	2430.0	2434.0	2430.8	2426.9	2414.2	2393.6	2373.1	2347.7
20°	2445.9	2434.8	2426.9	2433.2	2437.9	2437.1	2434.0	2426.1	2416.6	2399.2	2377.0
17.5°	2437.1	2430.0	2420.5	2430.0	2440.3	2441.1	2437.9	2433.2	2430.8	2419.7	2400.0
15°	2415.8	2410.2	2411.8	2421.3	2433.2	2437.1	2439.5	2445.1	2441.9	2433.2	2415.8
12.5°	2401.5	2394.4	2401.5	2411.0	2417.4	2419.7	2438.7	2449.0	2449.0	2441.1	2430.0
10°	2397.6	2383.3	2392.8	2401.5	2404.7	2418.9	2434.8	2445.9	2451.4	2445.1	2430.8
7.5°	2389.7	2380.2	2384.1	2388.1	2406.3	2416.6	2425.3	2437.1	2445.1	2444.3	2431.6
5°	2385.7	2373.8	2375.4	2392.0	2404.7	2411.8	2415.0	2425.3	2437.1	2439.5	2430.0
2.5°	2375.4	2369.9	2381.8	2383.3	2392.8	2398.4	2401.5	2411.0	2426.1	2431.6	2427.7
0°	2369.9	2362.0	2354.1	2360.4	2376.2	2388.1	2392.8	2407.1	2424.5	2430.0	2421.3



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.2	21.4	20.6	19.8	20.6	20.6	20.6	19.8	20.6	19.8	19.8
85°	68.8	65.7	63.3	60.1	57.0	54.6	51.4	48.3	47.5	46.7	45.1
82.5°	118.7	114.7	110.8	106.0	101.3	95.7	90.2	83.9	82.3	80.7	78.3
80°	167.0	161.4	155.9	150.3	145.6	140.1	133.7	126.6	121.9	117.9	113.2
77.5°	217.6	209.7	201.8	192.3	186.7	181.2	174.9	167.8	160.6	154.3	147.2
75°	275.4	266.7	258.7	249.3	239.0	228.7	218.4	208.9	198.6	189.1	179.6
72.5°	339.5	326.8	314.1	302.3	289.6	276.9	263.5	250.8	238.2	225.5	212.1
70°	406.7	390.9	375.1	359.2	342.6	326.0	310.2	294.4	278.5	261.9	246.9
67.5°	485.8	467.6	447.1	424.9	400.4	379.0	358.5	339.5	320.5	301.5	282.5
65°	584.8	559.4	531.7	501.7	473.2	444.7	414.6	386.1	364.0	341.8	320.5
62.5°	706.6	671.0	632.2	593.5	558.6	521.5	486.6	449.4	414.6	383.0	356.9
60°	852.2	803.9	756.5	706.6	658.3	607.7	563.4	517.5	474.0	435.2	397.2
57.5°	1012.8	956.7	899.7	838.8	773.1	713.7	653.6	593.5	542.0	490.6	447.9
55°	1175.8	1116.5	1052.4	983.6	911.6	835.6	754.1	686.8	616.4	556.3	500.9
52.5°	1330.9	1269.2	1202.7	1139.4	1053.2	966.2	876.7	788.1	705.8	629.1	561.8
50°	1469.4	1409.3	1345.2	1271.6	1191.7	1099.1	999.4	899.7	802.4	712.2	628.3
47.5°	1596.0	1537.5	1473.4	1399.8	1327.0	1224.1	1123.6	1013.6	905.2	801.6	703.4
45°	1714.7	1655.4	1588.9	1518.5	1434.6	1342.8	1239.1	1128.4	1012.0	895.7	782.6
42.5°	1822.3	1763.0	1695.7	1622.9	1539.8	1448.8	1348.3	1236.8	1119.7	993.1	868.8
40°	1916.5	1858.7	1793.8	1717.9	1640.3	1544.6	1445.7	1339.6	1218.6	1091.2	954.3
37.5°	1998.8	1945.0	1880.9	1805.7	1723.4	1638.0	1535.9	1429.8	1320.6	1182.2	1042.1
35°	2071.6	2021.7	1956.0	1884.8	1804.1	1713.9	1618.2	1514.5	1396.6	1266.8	1130.7
32.5°	2134.9	2084.2	2024.1	1952.9	1874.5	1789.9	1691.8	1587.3	1475.7	1343.6	1195.6
30°	2188.7	2139.6	2082.7	2015.4	1940.2	1856.3	1760.6	1655.4	1541.4	1410.1	1263.7
27.5°	2235.4	2188.7	2133.3	2070.8	1998.8	1918.1	1821.5	1715.5	1599.2	1472.6	1326.2
25°	2275.7	2230.6	2179.2	2119.8	2048.6	1969.5	1878.5	1767.7	1651.4	1524.0	1379.2
22.5°	2312.1	2268.6	2217.2	2159.4	2094.5	2015.4	1923.6	1813.6	1695.7	1569.9	1427.5
20°	2344.6	2304.2	2253.6	2194.2	2129.3	2049.4	1958.4	1854.0	1735.3	1611.8	1471.0
17.5°	2370.7	2335.1	2284.4	2221.9	2157.0	2079.5	1990.9	1895.1	1769.3	1647.4	1507.4
15°	2388.9	2354.1	2308.2	2244.9	2181.6	2104.8	2016.2	1917.3	1800.2	1675.9	1537.5
12.5°	2401.5	2364.4	2321.6	2263.1	2199.8	2123.8	2037.6	1940.2	1826.3	1701.3	1563.6
10°	2404.7	2370.7	2328.0	2275.7	2214.0	2140.4	2055.8	1959.2	1847.6	1721.0	1584.9
7.5°	2406.3	2373.8	2335.1	2285.2	2224.3	2153.1	2069.2	1974.2	1863.5	1737.7	1600.8
5°	2405.5	2374.6	2339.8	2291.6	2230.6	2160.2	2077.9	1984.5	1874.5	1748.7	1612.6
2.5°	2403.1	2375.4	2343.0	2296.3	2237.7	2168.1	2086.6	1996.4	1886.4	1758.2	1622.1
0°	2409.5	2385.7	2344.6	2294.7	2239.3	2168.1	2085.8	1998.0	1888.0	1757.4	1621.3



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	19.0	19.0	18.2	17.4	16.6	15.0	14.2	12.7	10.3	7.9
85°	42.7	40.4	38.0	36.4	34.8	33.2	30.9	28.5	25.3	20.6	15.8
82.5°	75.2	70.4	65.7	60.1	55.4	50.6	46.7	42.7	38.0	30.9	23.7
80°	107.6	100.5	93.4	85.5	78.3	70.4	63.3	57.0	50.6	41.1	31.7
77.5°	140.1	130.6	120.3	110.8	100.5	90.2	79.9	71.2	61.7	50.6	39.6
75°	170.1	159.0	149.6	136.1	123.4	110.0	96.5	84.7	72.8	59.3	47.5
72.5°	200.2	186.0	172.5	159.8	145.6	129.0	113.9	98.9	83.9	68.1	53.8
70°	230.3	212.9	196.2	181.2	165.4	148.8	130.6	113.2	95.0	76.0	59.3
67.5°	261.1	241.3	222.4	203.4	185.2	166.2	147.2	127.4	106.0	83.9	65.7
65°	295.1	270.6	247.7	226.3	204.9	184.4	163.0	141.6	117.9	92.6	71.2
62.5°	329.2	302.3	275.4	248.5	224.7	201.8	178.8	155.1	129.0	102.1	76.8
60°	365.6	334.7	303.9	273.8	244.5	219.2	193.9	168.5	140.8	110.8	82.3
57.5°	405.9	368.7	333.9	299.9	266.7	236.6	208.9	182.0	151.1	119.5	88.6
55°	451.8	405.9	364.8	326.8	290.4	254.0	223.9	196.2	163.0	128.2	95.7
52.5°	500.1	447.1	397.2	354.5	315.7	274.6	238.2	207.3	174.9	136.9	102.1
50°	556.3	489.0	433.6	381.4	337.9	295.1	253.2	220.0	186.7	147.2	108.4
47.5°	614.0	539.7	470.0	413.0	361.6	314.9	270.6	231.1	197.8	156.7	114.7
45°	681.3	587.9	511.2	443.9	384.6	335.5	288.0	242.9	207.3	166.2	121.1
42.5°	746.2	644.9	553.9	477.9	410.7	355.3	303.9	255.6	216.8	175.7	126.6
40°	822.9	701.9	595.0	510.4	436.8	374.3	319.7	269.0	225.5	184.4	132.1
37.5°	896.5	759.6	644.9	546.0	462.1	393.3	335.5	281.7	233.4	193.1	139.3
35°	969.3	823.7	692.4	579.2	488.2	414.6	351.3	293.6	241.3	200.2	145.6
32.5°	1039.0	883.9	740.6	616.4	516.7	434.4	365.6	304.6	249.3	206.5	151.9
30°	1103.8	940.8	788.1	654.4	542.8	452.6	379.0	315.7	258.7	212.1	158.3
27.5°	1163.2	996.2	835.6	690.0	567.3	469.2	393.3	326.0	266.7	217.6	163.8
25°	1217.0	1046.1	879.1	722.4	589.5	487.4	406.7	336.3	273.8	222.4	168.5
22.5°	1267.6	1092.0	918.7	754.9	616.4	505.6	419.4	345.8	280.9	227.1	173.3
20°	1311.9	1133.9	956.7	787.3	640.1	522.2	430.5	354.5	287.2	230.3	178.0
17.5°	1347.6	1171.1	990.7	815.8	660.7	536.5	440.0	362.4	292.8	234.2	181.2
15°	1379.2	1202.7	1019.2	840.3	678.9	548.4	448.7	368.7	297.5	236.6	185.2
12.5°	1406.1	1229.7	1043.7	861.7	694.7	558.6	455.8	373.5	301.5	239.0	187.5
10°	1428.3	1251.0	1064.3	878.3	707.4	566.6	461.3	378.2	304.6	241.3	189.9
7.5°	1444.9	1266.8	1079.3	892.6	717.7	572.1	466.1	381.4	307.8	242.9	193.9
5°	1457.5	1280.3	1091.2	902.1	725.6	580.0	471.6	385.4	311.0	244.5	193.9
2.5°	1467.0	1291.4	1100.7	910.0	731.9	578.4	471.6	384.6	311.0	244.5	193.1
0°	1465.5	1292.2	1099.9	910.0	731.9	576.8	471.6	383.8	311.0	244.5	193.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.5	4.0	1.6	0.0
85°	11.9	7.9	4.0	0.0
82.5°	17.4	11.1	5.5	0.0
80°	22.9	15.0	7.1	0.0
77.5°	29.3	19.0	9.5	0.0
75°	34.8	22.2	11.1	0.0
72.5°	40.4	26.1	12.7	0.0
70°	45.1	29.3	14.2	0.0
67.5°	49.9	33.2	16.6	0.0
65°	53.8	36.4	18.2	0.0
62.5°	57.0	40.4	19.8	0.0
60°	60.9	43.5	21.4	0.0
57.5°	64.1	45.9	22.9	0.0
55°	67.3	47.5	24.5	0.0
52.5°	70.4	49.9	26.1	0.0
50°	73.6	52.2	27.7	0.0
47.5°	76.8	53.8	28.5	0.0
45°	81.5	56.2	30.1	0.0
42.5°	85.5	57.8	31.7	0.0
40°	89.4	59.3	32.4	0.0
37.5°	93.4	60.9	34.0	0.0
35°	97.3	62.5	34.8	0.0
32.5°	100.5	64.1	35.6	0.0
30°	103.7	65.7	36.4	0.0
27.5°	106.8	66.5	37.2	0.0
25°	109.2	68.1	38.0	0.0
22.5°	111.6	68.8	38.8	0.0
20°	113.2	69.6	39.6	0.0
17.5°	115.5	70.4	40.4	0.0
15°	116.3	71.2	41.9	0.0
12.5°	117.9	72.0	41.9	0.0
10°	118.7	72.8	41.9	0.0
7.5°	120.3	72.8	41.9	0.0
5°	119.5	72.8	41.9	0.0
2.5°	119.5	72.8	41.9	0.0
0°	118.7	72.8	41.9	0.0

(END OF REPORT)