

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

Brand: NEO-RAY

Report Number: P1031993

Luminaire Tested: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031993
REPORT IS A COMBINATION OF REPORTS P993746 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

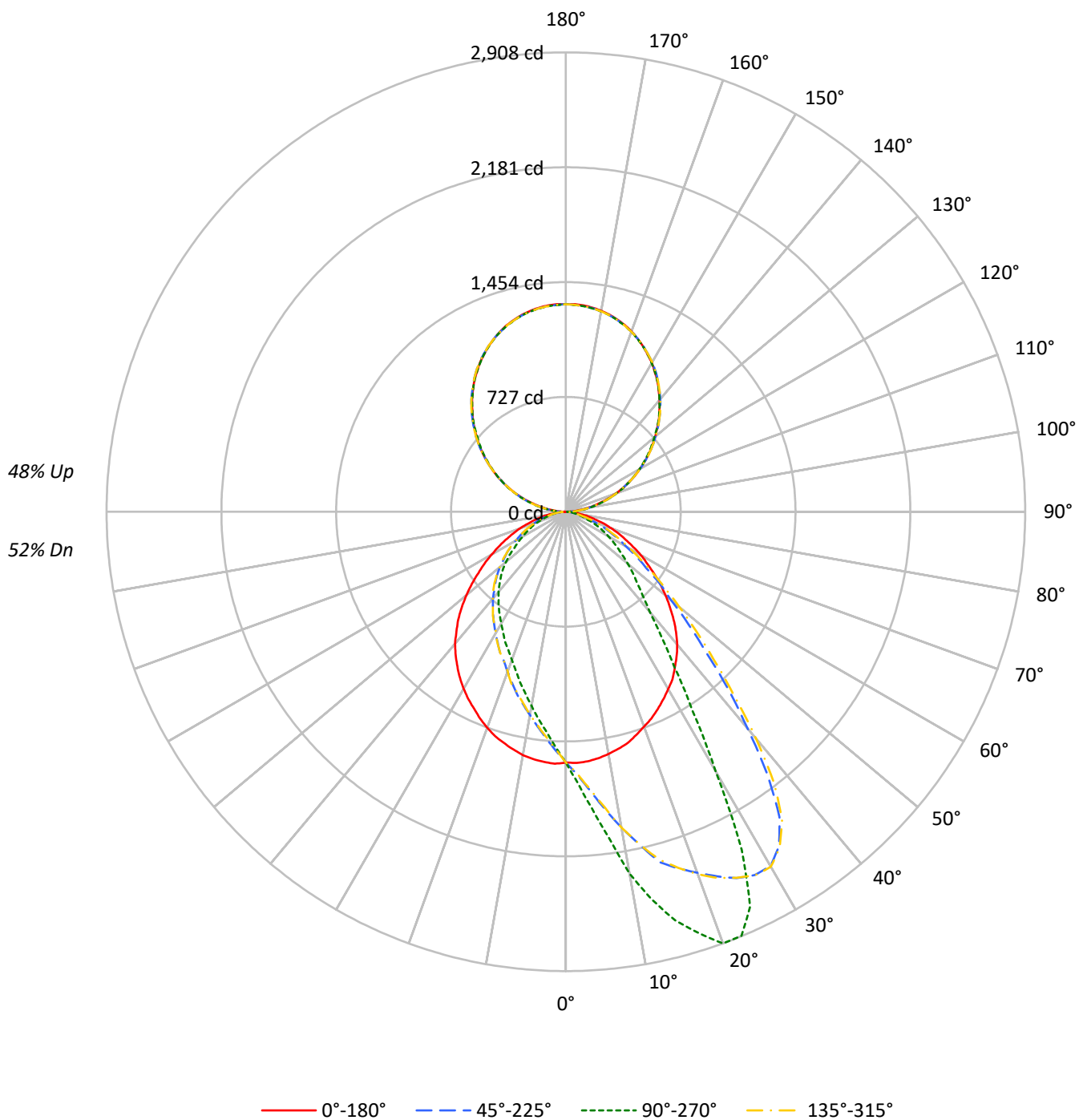
Lumens per Lamp: N/A
Luminaire Lumens: 7595.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
Input Voltage (V):
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: 24 FT

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

Luminous Intensity Polar Plot



TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	52	51	50
2	91	83	78	73	84	78	72	68	66	63	59	56	54	51	47	45	43
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	37
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	34	31	29
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	31	28	26
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23
8	56	44	36	31	52	41	34	30	36	30	27	31	27	24	27	23	21
9	52	40	33	28	48	38	31	27	33	28	24	29	24	21	25	21	19
10	49	37	30	25	45	35	28	24	30	25	22	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17083	17083	17083	17083
5°	17097	19676	17140	14597
10°	16945	23751	17019	12750
15°	16771	26957	16771	11242
20°	16428	29076	16520	9973
25°	16176	27625	16143	9100
30°	15883			

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.1
10°-20°	487.9	6.4
20°-30°	768.4	10.1
30°-40°	799.0	10.5
40°-50°	683.6	9.0
50°-60°	521.2	6.9
60°-70°	333.9	4.4
70°-80°	160.0	2.1
80°-90°	44.8	0.6
90°-100°	84.6	1.1
100°-110°	256.0	3.4
110°-120°	435.8	5.7
120°-130°	573.3	7.5
130°-140°	644.4	8.5
140°-150°	633.5	8.3
150°-160°	533.3	7.0
160°-170°	355.1	4.7
170°-180°	124.3	1.6
0°-30°	1412.2	18.6
0°-40°	2211.2	29.1
0°-60°	3416.0	45.0
0°-90°	3954.8	52.1
90°-120°	776.3	10.2
90°-150°	2627.5	34.6
90°-180°	3640.0	47.9
0°-180°	7595.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1587	1587	1587	1587	1587	
5°	1586	1885	1590	1398	1586	150
15°	1515	2678	1515	1117	1515	426
25°	1378	2760	1375	909	1378	635
35°	1203	1197	1197	741	1203	753
45°	965	639	963	583	965	743
55°	681	401	675	398	681	610
65°	417	231	420	250	417	417
75°	200	98	208	128	200	216
85°	45	23	49	45	45	50
90°	1	31	1	31	1	7
95°	61	80	61	80	61	67
105°	232	246	232	246	232	249
115°	439	440	439	440	439	434
125°	642	635	642	635	642	572
135°	833	832	833	832	833	642
145°	1010	1010	1010	1010	1010	631
155°	1157	1155	1157	1155	1157	533
165°	1260	1256	1260	1256	1260	355
175°	1311	1306				

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1591.2	1602.1	1610.2	1615.6	1629.2	1637.4	1644.2	1656.4	1656.4	1659.1	1664.6
5°	1585.8	1608.9	1625.2	1646.9	1675.4	1689.0	1708.0	1724.4	1747.5	1759.7	1771.9
7.5°	1573.5	1606.1	1640.1	1672.7	1714.8	1742.0	1761.0	1803.2	1833.1	1869.8	1898.3
10°	1557.2	1602.1	1645.5	1695.8	1752.9	1793.7	1822.2	1877.9	1935.0	1986.6	2030.1
12.5°	1536.8	1591.2	1653.7	1714.8	1795.0	1835.8	1882.0	1951.3	2032.8	2098.0	2156.5
15°	1515.1	1577.6	1648.3	1723.0	1823.5	1880.6	1947.2	2031.5	2122.5	2216.3	2296.4
17.5°	1481.1	1559.9	1638.7	1747.5	1865.7	1899.6	1956.7	2072.2	2185.0	2269.2	2367.1
20°	1447.2	1535.5	1634.7	1732.5	1860.2	1939.1	1992.0	2114.3	2235.3	2337.2	2430.9
22.5°	1415.9	1508.3	1611.6	1735.2	1854.8	1933.6	2000.2	2127.9	2267.9	2382.0	2497.5
25°	1377.9	1478.4	1592.5	1709.4	1854.8	1914.6	1988.0	2136.1	2284.2	2416.0	2558.7
27.5°	1337.1	1439.0	1551.8	1671.4	1804.5	1892.9	1964.9	2123.9	2304.6	2445.9	2592.6
30°	1296.3	1401.0	1509.7	1617.0	1766.5	1850.7	1933.6	2108.9	2315.4	2477.1	2589.9
32.5°	1256.9	1345.2	1452.6	1557.2	1705.3	1797.7	1891.5	2094.0	2319.5	2455.4	2509.8
35°	1202.6	1295.0	1381.9	1493.4	1642.8	1733.9	1843.9	2092.6	2301.9	2386.1	2358.9
37.5°	1152.3	1229.7	1312.6	1411.8	1565.4	1683.6	1797.7	2057.3	2243.4	2248.9	209

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	387.0	387.2	387.4	387.7	387.9	388.0	388.0	388.0	388.0	388.0	388.0
115°	438.6	439.3	440.0	440.7	441.4	441.7	441.5	441.0	440.5	440.1	439.6
117.5°	491.2	491.4	491.7	491.9	492.2	492.3	492.1	491.6	491.1	490.7	490.2
120°	539.8	541.2	542.5	543.9	545.2	545.9	545.3	544.2	543.1	541.9	540.8
122.5°	590.3	591.2	592.1	593.0	593.9	594.4	594.2	593.7	593.3	592.8	592.4
125°	641.9	642.6	643.3	644.0	644.7	645.0	644.8	644.3	643.9	643.4	643.0
127.5°	689.4	690.8	692.2	693.5	694.9	695.6	695.4	694.9	694.4	694.0	693.5
130°	736.9	738.7	740.5	742.4	744.2	745.1	744.8	744.1	743.4	742.7	742.0
132.5°	784.3	786.1	788.0	789.8	791.7	792.6	792.4	791.9	791.4	791.0	790.5
135°	832.8	834.2	835.6	836.9	838.3	839.0	838.9	838.7	838.4	838.2	838.0
137.5°	877.2	878.4	879.5	880.7	881.8	882.4	882.7	883.4	884.1	884.8	885.5
140°	923.7	924.8	926.0	927.1	928.2	928.8	928.9	929.2	929.4	929.7	929.9
142.5°	966.0	967.1	968.3	969.4	970.5	971.1	971.3	971.8	972.3	972.7	973.2
145°	1010.4	1010.8	1011.3	1011.7	1012.2	1012.4	1012.7	1013.4	1014.1	1014.8	1015.5
147.5°	1048.5	1049.4	1050.4	1051.3	1052.2	1052.7	1053.0	1053.7	1054.4	1055.1	1055.8
150°	1088.8	1089.3	1089.7	1090.2	1090.7	1090.9	1091.1	1091.6	1092.0	1092.5	1092.9
152.5°	1121.8	1122.5	1123.2	1123.9	1124.6	1124.9	1125.0	1125.2	1125.5	1125.7	1125.9
155°											

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1675.4	1675.4	1687.7	1699.9	1693.1	1697.2	1712.1	1706.7	1717.6	1716.2	1720.3
5°	1801.8	1816.8	1829.0	1854.8	1858.9	1854.8	1880.6	1887.4	1899.6	1884.7	1891.5
7.5°	1944.5	1975.7	2005.6	2043.7	2055.9	2058.6	2072.2	2091.2	2107.5	2077.7	2092.6
10°	2083.1	2130.6	2191.8	2225.8	2255.7	2266.5	2277.4	2289.6	2308.7	2326.3	2312.7
12.5°	2232.6	2301.9	2360.3	2421.4	2458.1	2454.0	2485.3	2493.5	2508.4	2512.5	2517.9
15°	2354.9	2452.7	2489.4	2580.4	2588.6	2615.7	2651.1	2682.3	2686.4	2678.3	2678.3
17.5°	2471.7	2556.0	2621.2	2694.6	2709.5	2732.6	2777.4	2792.4	2797.8	2796.5	2796.5
20°	2566.8	2622.5	2732.6	2793.8	2818.2	2848.1	2879.4	2898.4	2902.5	2907.9	2899.7
22.5°	2629.3	2713.6	2803.3	2853.5	2873.9	2884.8	2905.2	2910.6	2903.8	2905.2	2906.5
25°	2678.3	2761.1	2815.5	2829.1	2827.7	2814.1	2799.2	2773.4	2770.7	2759.8	2738.0
27.5°	2691.8	2723.1	2716.3	2660.6	2604.9	2599.4	2509.8	2460.8	2405.1	2413.3	2382.0
30°	2618.5	2577.7	2481.2	2339.9	2281.5	2186.4	2085.8	1981.2	1940.4	1895.6	1978.5
32.5°	2439.1	2293.7	2122.5	1939.1	1841.2	1757.0	1649.6	1573.5	1530.0	1493.4	1564.0
35°	2168.7	1941.8	1714.8	1540.9	1460.7	1384.6	1284.1	1246.0	1191.7	1197.1	1203.9
37.5°	1820.8	1570.8	1399.6	1228.4	1175.4	1144.1	1070.8	1012.3	993.3	987.9	987.

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	389.2	390.3	391.5	392.6	393.2	393.2	393.2	393.2	393.2	393.2	393.2
115°	439.8	440.1	440.3	440.6	440.7	440.6	440.3	440.1	439.8	439.6	439.8
117.5°	490.2	490.2	490.2	490.2	490.2	489.9	489.2	488.5	487.8	487.1	487.8
120°	540.6	540.4	540.1	539.9	539.8	539.6	539.1	538.6	538.2	537.7	538.2
122.5°	591.7	591.0	590.3	589.6	589.3	589.0	588.3	587.6	586.9	586.2	586.9
125°	642.1	641.1	640.2	639.3	638.8	638.3	637.4	636.5	635.6	634.7	635.6
127.5°	692.1	690.7	689.4	688.0	687.3	686.8	685.9	685.0	684.1	683.2	684.1
130°	741.1	740.2	739.3	738.4	737.9	737.1	735.5	733.9	732.3	730.7	732.3
132.5°	789.4	788.2	787.1	786.0	785.4	784.8	783.7	782.5	781.4	780.2	781.4
135°	837.1	836.2	835.3	834.4	833.9	833.7	833.2	832.7	832.3	831.8	832.3
137.5°	884.3	883.2	882.0	880.9	880.3	880.0	879.3	878.6	877.9	877.2	877.9
140°	929.7	929.4	929.2	928.9	928.8	928.0	926.4	924.8	923.2	921.6	923.2
142.5°	973.0	972.8	972.5	972.3	972.2	971.6	970.5	969.3	968.2	967.0	968.2
145°	1015.3	1015.1	1014.8	1014.6	1014.5	1014.0	1013.1	1012.2	1011.3	1010.4	1011.3
147.5°	1055.8	1055.8	1055.8	1055.8	1055.8	1055.1	1053.7	1052.4	1051.0	1049.6	1051.0
150°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.2	1090.8	1089.5	1088.1	1086.7	1088.1
152.5°	1126.4	1126.8	1127.3	1127.8	1128.0	1127.4	1126.3	1125.1	1124.0	1122.8	1124.0
155°	1158.8	11									

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1713.5	1705.3	1699.9	1695.8	1691.7	1704.0	1687.7	1670.0	1657.8	1649.6	1646.9
5°	1892.9	1875.2	1860.2	1848.0	1850.7	1850.7	1822.2	1790.9	1763.8	1748.8	1732.5
7.5°	2100.8	2081.7	2051.8	2045.0	2039.6	2005.6	1977.1	1920.0	1886.1	1852.1	1822.2
10°	2307.3	2282.8	2254.3	2244.8	2231.2	2189.1	2145.6	2072.2	2030.1	1967.6	1928.2
12.5°	2500.2	2470.4	2441.8	2435.0	2414.6	2378.0	2303.2	2227.1	2155.1	2088.5	2019.2
15°	2661.9	2653.8	2610.3	2583.1	2538.3	2488.0	2471.7	2368.4	2277.4	2208.1	2083.1
17.5°	2797.8	2759.8	2719.0	2701.4	2683.7	2625.3	2566.8	2460.8	2363.0	2261.1	2180.9
20°	2906.5	2864.4	2835.9	2810.1	2801.9	2735.3	2642.9	2549.2	2441.8	2327.7	2223.0
22.5°	2912.0	2906.5	2887.5	2872.6	2856.3	2812.8	2739.4	2622.5	2508.4	2383.4	2246.1
25°	2799.2	2791.0	2845.4	2831.8	2842.7	2826.4	2787.0	2689.1	2556.0	2409.2	2270.6
27.5°	2459.5	2542.4	2628.0	2657.9	2678.3	2736.7	2755.7	2701.4	2594.0	2437.7	2282.8
30°	1997.5	2107.5	2246.1	2320.9	2378.0	2486.7	2628.0	2645.6	2595.4	2470.4	2280.1
32.5°	1568.1	1668.6	1780.1	1868.4	1944.5	2167.3	2357.6	2494.8	2519.3	2454.0	2286.9
35°	1263.7	1307.2	1413.2	1497.4	1600.7	1790.9	2015.1	2236.6	2386.1	2394.3	2266.5
37.5°	1042.2	1065.3	1157.7	1205.3	1266.4	1433.6	1642.8	1932.3			

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	393.2	393.2	393.2	393.2	392.6	391.5	390.3	389.2	388.0	388.0	388.0
115°	440.1	440.3	440.6	440.7	440.6	440.3	440.1	439.8	439.6	440.1	440.5
117.5°	488.5	489.2	489.9	490.2	490.2	490.2	490.2	490.2	490.2	490.7	491.1
120°	538.6	539.1	539.6	539.8	539.9	540.1	540.4	540.6	540.8	541.9	543.1
122.5°	587.6	588.3	589.0	589.3	589.6	590.3	591.0	591.7	592.4	592.8	593.3
125°	636.5	637.4	638.3	638.8	639.3	640.2	641.1	642.1	643.0	643.4	643.9
127.5°	685.0	685.9	686.8	687.3	688.0	689.4	690.7	692.1	693.5	694.0	694.4
130°	733.9	735.5	737.1	737.9	738.4	739.3	740.2	741.1	742.0	742.7	743.4
132.5°	782.5	783.7	784.8	785.4	786.0	787.1	788.2	789.4	790.5	791.0	791.4
135°	832.7	833.2	833.7	833.9	834.4	835.3	836.2	837.1	838.0	838.2	838.4
137.5°	878.6	879.3	880.0	880.3	880.9	882.0	883.2	884.3	885.5	884.8	884.1
140°	924.8	926.4	928.0	928.8	928.9	929.2	929.4	929.7	929.9	929.7	929.4
142.5°	969.3	970.5	971.6	972.2	972.3	972.5	972.8	973.0	973.2	972.7	972.3
145°	1012.2	1013.1	1014.0	1014.5	1014.6	1014.8	1015.1	1015.3	1015.5	1014.8	1014.1
147.5°	1052.4	1053.7	1055.1	1055.8	1055.8	1055.8	1055.8	1055.8	1055.8	1055.1	1054.4
150°	1089.5	1090.8	1092.2	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.5	1092.0
152.5°	1125.1	1126.3	1127.4	1128.0	1127.8	1127.3	1126.8	1126.4	1125.9	1125.7	1125.5
155°											

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1642.8	1636.0	1629.2	1629.2	1614.3	1600.7	1593.9	1596.6	1588.5	1577.6	1566.7
5°	1714.8	1687.7	1682.2	1667.3	1646.9	1618.4	1603.4	1589.8	1573.5	1551.8	1531.4
7.5°	1781.4	1746.1	1727.1	1712.1	1672.7	1633.3	1600.7	1579.0	1550.4	1517.8	1493.4
10°	1868.4	1803.2	1782.8	1748.8	1693.1	1637.4	1599.3	1564.0	1524.6	1486.6	1453.9
12.5°	1937.7	1863.0	1824.9	1790.9	1718.9	1648.3	1584.4	1540.9	1493.4	1451.2	1409.1
15°	2016.5	1932.3	1865.7	1824.9	1733.9	1648.3	1576.2	1515.1	1462.1	1410.5	1373.8
17.5°	2054.6	1948.6	1918.7	1860.2	1728.4	1642.8	1554.5	1489.3	1425.4	1365.6	1322.1
20°	2114.3	1990.7	1916.0	1876.5	1759.7	1633.3	1530.0	1455.3	1388.7	1324.9	1278.7
22.5°	2118.4	1983.9	1935.0	1860.2	1716.2	1604.8	1508.3	1417.3	1339.8	1280.0	1232.5
25°	2108.9	1971.7	1903.7	1843.9	1724.4	1588.5	1464.8	1375.1	1299.0	1229.7	1174.0
27.5°	2104.8	1936.3	1872.5	1812.7	1678.2	1540.9	1439.0	1337.1	1250.1	1189.0	1131.9
30°	2099.4	1898.3	1820.8	1751.5	1627.9	1504.2	1381.9	1293.6	1210.7	1133.3	1076.2
32.5°	2064.1	1846.6	1767.8	1694.5	1561.3	1437.6	1341.2	1247.4	1157.7	1085.7	1034.1
35°	2053.2	1799.1	1695.8	1617.0	1486.6	1376.5	1274.6	1197.1	1112.9	1040.9	979.7
37.5°	2021.9	1750.2	1638.7	1538.2	1402.3	1297.7					

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	388.0	388.0	388.0	387.9	387.7	387.4	387.2	387.0	387.2	387.4	387.7
115°	441.0	441.5	441.7	441.4	440.7	440.0	439.3	438.6	439.3	440.0	440.7
117.5°	491.6	492.1	492.3	492.2	491.9	491.7	491.4	491.2	491.4	491.7	491.9
120°	544.2	545.3	545.9	545.2	543.9	542.5	541.2	539.8	541.2	542.5	543.9
122.5°	593.7	594.2	594.4	593.9	593.0	592.1	591.2	590.3	591.2	592.1	593.0
125°	644.3	644.8	645.0	644.7	644.0	643.3	642.6	641.9	642.6	643.3	644.0
127.5°	694.9	695.4	695.6	694.9	693.5	692.2	690.8	689.4	690.8	692.2	693.5
130°	744.1	744.8	745.1	744.2	742.4	740.5	738.7	736.9	738.7	740.5	742.4
132.5°	791.9	792.4	792.6	791.7	789.8	788.0	786.1	784.3	786.1	788.0	789.8
135°	838.7	838.9	839.0	838.3	836.9	835.6	834.2	832.8	834.2	835.6	836.9
137.5°	883.4	882.7	882.4	881.8	880.7	879.5	878.4	877.2	878.4	879.5	880.7
140°	929.2	928.9	928.8	928.2	927.1	926.0	924.8	923.7	924.8	926.0	927.1
142.5°	971.8	971.3	971.1	970.5	969.4	968.3	967.1	966.0	967.1	968.3	969.4
145°	1013.4	1012.7	1012.4	1012.2	1011.7	1011.3	1010.8	1010.4	1010.8	1011.3	1011.7
147.5°	1053.7	1053.0	1052.7	1052.2	1051.3	1050.4	1049.4	1048.5	1049.4	1050.4	1051.3
150°	1091.6	1091.1	1090.9	1090.7	1090.2	1089.7	1089.3	1088.8	1089.3	1089.7	1090.2
152.5°	1125.2	1125.0	1124.9	1124.6	1123.9	1123.2	1122.5	1121.8	1122.5	1123.2	1123.9

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1566.7	1559.9	1557.2	1550.4	1534.1	1523.2	1511.0	1502.9	1504.2	1497.4	1501.5
5°	1517.8	1516.5	1506.9	1493.4	1470.3	1458.0	1436.3	1425.4	1420.0	1421.3	1413.2
7.5°	1477.0	1464.8	1458.0	1436.3	1414.5	1388.7	1371.1	1361.5	1353.4	1345.2	1339.8
10°	1430.8	1420.0	1409.1	1386.0	1356.1	1331.7	1307.2	1297.7	1285.5	1280.0	1275.9
12.5°	1381.9	1375.1	1361.5	1334.4	1300.4	1277.3	1248.8	1243.3	1227.0	1216.2	1213.4
15°	1337.1	1333.0	1308.6	1277.3	1243.3	1220.2	1195.8	1179.5	1152.3	1157.7	1148.2
17.5°	1289.5	1271.9	1256.9	1214.8	1198.5	1163.2	1134.6	1126.5	1107.4	1095.2	1083.0
20°	1236.5	1225.7	1206.6	1179.5	1140.1	1099.3	1077.6	1064.0	1053.1	1034.1	1028.6
22.5°	1186.3	1172.7	1156.4	1121.0	1087.1	1053.1	1023.2	1011.0	997.4	983.8	975.6
25°	1146.9	1126.5	1108.8	1065.3	1031.4	1002.8	983.8	963.4	944.4	936.2	933.5
27.5°	1085.7	1073.5	1055.8	1015.0	983.8	952.5	934.9	921.3	900.9	891.4	883.2
30°	1046.3	1021.8	1001.5	968.8	937.6	903.6	887.3	871.0	858.8	846.6	837.0
32.5°	993.3	974.3	958.0	925.4	894.1	862.9	845.2	820.7	813.9	804.4	793.6
35°	941.7	929.4	911.8	876.4	842.5	820.7	801.7	778.6	770.5	763.7	754.2
37.5°	892.8	875.1	862.9	828.9	799.0	773.2	758.2	739.2	733.8	725.6	718.8

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	387.9	388.0	388.0	388.0	388.0	388.0	388.0	389.2	390.3	391.5	392.6
115°	441.4	441.7	441.5	441.0	440.5	440.1	439.6	439.8	440.1	440.3	440.6
117.5°	492.2	492.3	492.1	491.6	491.1	490.7	490.2	490.2	490.2	490.2	490.2
120°	545.2	545.9	545.3	544.2	543.1	541.9	540.8	540.6	540.4	540.1	539.9
122.5°	593.9	594.4	594.2	593.7	593.3	592.8	592.4	591.7	591.0	590.3	589.6
125°	644.7	645.0	644.8	644.3	643.9	643.4	643.0	642.1	641.1	640.2	639.3
127.5°	694.9	695.6	695.4	694.9	694.4	694.0	693.5	692.1	690.7	689.4	688.0
130°	744.2	745.1	744.8	744.1	743.4	742.7	742.0	741.1	740.2	739.3	738.4
132.5°	791.7	792.6	792.4	791.9	791.4	791.0	790.5	789.4	788.2	787.1	786.0
135°	838.3	839.0	838.9	838.7	838.4	838.2	838.0	837.1	836.2	835.3	834.4
137.5°	881.8	882.4	882.7	883.4	884.1	884.8	885.5	884.3	883.2	882.0	880.9
140°	928.2	928.8	928.9	929.2	929.4	929.7	929.9	929.7	929.4	929.2	928.9
142.5°	970.5	971.1	971.3	971.8	972.3	972.7	973.2	973.0	972.8	972.5	972.3
145°	1012.2	1012.4	1012.7	1013.4	1014.1	1014.8	1015.5	1015.3	1015.1	1014.8	1014.6
147.5°	1052.2	1052.7	1053.0	1053.7	1054.4	1055.1	1055.8	1055.8	1055.8	1055.8	1055.8
150°	1090.7	1090.9	1091.1	1091.6	1092.0	1092.5	1092.9	1092.9	1092.9	1092.9	1092.9
152.5°	1124.6	1124.9	1125.0	1125.2	1125.5	1125.7	1125.9	1126.4	1126.8	1127.3	1127.8
155°	1156.9										

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1500.1	1501.5	1497.4	1489.3	1487.9	1490.6	1498.8	1496.1	1489.3	1501.5	1490.6
5°	1417.3	1410.5	1407.7	1410.5	1402.3	1398.2	1406.4	1402.3	1406.4	1407.7	1411.8
7.5°	1337.1	1338.4	1330.3	1331.7	1320.8	1323.5	1323.5	1323.5	1327.6	1330.3	1335.7
10°	1267.8	1270.5	1261.0	1262.4	1254.2	1248.8	1252.8	1261.0	1261.0	1261.0	1263.7
12.5°	1212.1	1199.8	1193.1	1191.7	1182.2	1179.5	1187.6	1190.3	1197.1	1197.1	1201.2
15°	1142.8	1140.1	1134.6	1134.6	1111.5	1117.0	1119.7	1129.2	1142.8	1131.9	1134.6
17.5°	1080.3	1073.5	1066.7	1064.0	1061.2	1053.1	1064.0	1062.6	1070.8	1072.1	1076.2
20°	1024.6	1019.1	1005.5	1006.9	1009.6	997.4	1004.2	1004.2	1012.3	1020.5	1030.0
22.5°	970.2	964.8	958.0	960.7	952.5	949.8	949.8	956.6	966.1	972.9	971.6
25°	928.1	918.6	914.5	910.4	906.3	909.1	905.0	911.8	918.6	922.6	918.6
27.5°	880.5	876.4	868.3	864.2	857.4	860.1	862.9	868.3	872.4	872.4	876.4
30°	834.3	828.9	826.2	822.1	822.1	816.7	818.0	823.5	827.5	831.6	837.0
32.5°	789.5	785.4	781.3	781.3	778.6	777.3	775.9	784.0	784.0	792.2	792.2
35°	752.8	746.0	746.0	739.2	741.9	740.6	737.8	743.3	744.6	750.1	748.7
37.5°	712.0	712.0	709.3	702.5	697.1	698.4	705.2	705.2	709.3	708.0	712.0
40°	671.3	668.5	668.5	664.5	663						

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
115°	440.7	440.6	440.3	440.1	439.8	439.6	439.8	440.1	440.3	440.6	440.7
117.5°	490.2	489.9	489.2	488.5	487.8	487.1	487.8	488.5	489.2	489.9	490.2
120°	539.8	539.6	539.1	538.6	538.2	537.7	538.2	538.6	539.1	539.6	539.8
122.5°	589.3	589.0	588.3	587.6	586.9	586.2	586.9	587.6	588.3	589.0	589.3
125°	638.8	638.3	637.4	636.5	635.6	634.7	635.6	636.5	637.4	638.3	638.8
127.5°	687.3	686.8	685.9	685.0	684.1	683.2	684.1	685.0	685.9	686.8	687.3
130°	737.9	737.1	735.5	733.9	732.3	730.7	732.3	733.9	735.5	737.1	737.9
132.5°	785.4	784.8	783.7	782.5	781.4	780.2	781.4	782.5	783.7	784.8	785.4
135°	833.9	833.7	833.2	832.7	832.3	831.8	832.3	832.7	833.2	833.7	833.9
137.5°	880.3	880.0	879.3	878.6	877.9	877.2	877.9	878.6	879.3	880.0	880.3
140°	928.8	928.0	926.4	924.8	923.2	921.6	923.2	924.8	926.4	928.0	928.8
142.5°	972.2	971.6	970.5	969.3	968.2	967.0	968.2	969.3	970.5	971.6	972.2
145°	1014.5	1014.0	1013.1	1012.2	1011.3	1010.4	1011.3	1012.2	1013.1	1014.0	1014.5
147.5°	1055.8	1055.1	1053.7	1052.4	1051.0	1049.6	1051.0	1052.4	1053.7	1055.1	1055.8
150°	1092.9	1092.2	1090.8	1089.5	1088.1	1086.7	1088.1	1089.5	1090.8	1092.2	1092.9
152.5°	1128.0	1127.4	1126.3	1125.1	1124.0	1122.8	1124.0	1125.1	1126.3	1127.4	1128.0
155°</											

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1501.5	1506.9	1501.5	1490.6	1501.5	1508.3	1515.1	1526.0	1531.4	1531.4	1539.6
5°	1415.9	1426.8	1422.7	1420.0	1430.8	1437.6	1448.5	1462.1	1477.0	1486.6	1497.4
7.5°	1339.8	1346.6	1353.4	1353.4	1364.3	1379.2	1395.5	1411.8	1430.8	1444.4	1452.6
10°	1273.2	1278.7	1282.7	1288.2	1304.5	1320.8	1342.5	1362.9	1379.2	1394.2	1407.7
12.5°	1209.4	1217.5	1227.0	1231.1	1243.3	1263.7	1284.1	1308.6	1334.4	1349.3	1362.9
15°	1148.2	1152.3	1163.2	1175.4	1186.3	1208.0	1233.8	1259.6	1281.4	1304.5	1316.7
17.5°	1085.7	1087.1	1115.6	1108.8	1144.1	1164.5	1178.1	1202.6	1237.9	1256.9	1275.9
20°	1024.6	1038.1	1050.4	1057.2	1076.2	1099.3	1138.7	1157.7	1186.3	1203.9	1220.2
22.5°	977.0	997.4	997.4	1013.7	1023.2	1044.9	1073.5	1110.2	1141.4	1153.6	1176.7
25°	934.9	944.4	960.7	966.1	983.8	1002.8	1021.8	1061.2	1095.2	1111.5	1127.8
27.5°	880.5	892.8	914.5	914.5	937.6	958.0	981.1	1006.9	1040.9	1064.0	1081.6
30°	838.4	850.6	860.1	875.1	884.6	903.6	944.4	963.4	993.3	1013.7	1035.4
32.5°	799.0	808.5	816.7	833.0	843.8	865.6	887.3	921.3	947.1	966.1	989.2
35°	755.5	765.0	775.9	788.1	804.4	824.8	845.2	873.7	899.5	917.2	936.2
37.5°	714.7	721.5	737.8	746.0	759.6	778.6	804.4	834.3	857.4	871.0	890.0
40°	675.3	680									

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	392.6	391.5	390.3	389.2	388.0	388.0	388.0	388.0	388.0	388.0	387.9
115°	440.6	440.3	440.1	439.8	439.6	440.1	440.5	441.0	441.5	441.7	441.4
117.5°	490.2	490.2	490.2	490.2	490.2	490.7	491.1	491.6	492.1	492.3	492.2
120°	539.9	540.1	540.4	540.6	540.8	541.9	543.1	544.2	545.3	545.9	545.2
122.5°	589.6	590.3	591.0	591.7	592.4	592.8	593.3	593.7	594.2	594.4	593.9
125°	639.3	640.2	641.1	642.1	643.0	643.4	643.9	644.3	644.8	645.0	644.7
127.5°	688.0	689.4	690.7	692.1	693.5	694.0	694.4	694.9	695.4	695.6	694.9
130°	738.4	739.3	740.2	741.1	742.0	742.7	743.4	744.1	744.8	745.1	744.2
132.5°	786.0	787.1	788.2	789.4	790.5	791.0	791.4	791.9	792.4	792.6	791.7
135°	834.4	835.3	836.2	837.1	838.0	838.2	838.4	838.7	838.9	839.0	838.3
137.5°	880.9	882.0	883.2	884.3	885.5	884.8	884.1	883.4	882.7	882.4	881.8
140°	928.9	929.2	929.4	929.7	929.9	929.7	929.4	929.2	928.9	928.8	928.2
142.5°	972.3	972.5	972.8	973.0	973.2	972.7	972.3	971.8	971.3	971.1	970.5
145°	1014.6	1014.8	1015.1	1015.3	1015.5	1014.8	1014.1	1013.4	1012.7	1012.4	1012.2
147.5°	1055.8	1055.8	1055.8	1055.8	1055.8	1055.1	1054.4	1053.7	1053.0	1052.7	1052.2
150°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.5	1092.0	1091.6	1091.1	1090.9	1090.7
152.5°	1127.8	1127.3	1126.8	1126.4	1125.9	1125.7	1125.5	1125.2	1125.0	1124.9	1124.6
155°											

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1587.1	1587.1	1587.1	1587.1
2.5°	1546.3	1555.9	1574.9	1591.2
5°	1513.7	1528.7	1557.2	1585.8
7.5°	1474.3	1497.4	1534.1	1573.5
10°	1436.3	1466.2	1511.0	1557.2
12.5°	1398.2	1429.5	1477.0	1536.8
15°	1353.4	1386.0	1443.1	1515.1
17.5°	1314.0	1357.5	1409.1	1481.1
20°	1271.9	1304.5	1371.1	1447.2
22.5°	1218.9	1273.2	1335.7	1415.9
25°	1176.7	1224.3	1286.8	1377.9
27.5°	1125.1	1180.8	1256.9	1337.1
30°	1083.0	1129.2	1199.8	1296.3
32.5°	1034.1	1088.4	1161.8	1256.9
35°	990.6	1036.8	1106.1	1202.6
37.5°	939.0	989.2	1066.7	1152.3
40°	894.1	943.0	1016.4	1096.6
42.5°	839.8	891.4	964.8	1032.7
45°	796.3	843.8	902.3	964.8
47.5°	743.3	793.6	850.6	894.1
50°	695.7	741.9	786.8	823.5
52.5°	644.1	686.2	727.0	754.2
55°	596.5	629.1	661.8	680.8
57.5°	540.8	572.1	599.2	610.1
60°	491.9	517.7	535.4	547.6
62.5°	440.3	459.3	472.9	479.7
65°	390.0	403.6	410.4	417.2
67.5°	338.3	350.6	354.7	362.8
70°	284.0	297.6	300.3	304.4
72.5°	243.2	243.2	248.7	254.1
75°	194.3	197.0	199.7	199.7
77.5°	152.2	152.2	154.9	156.3
80°	111.4	112.8	112.8	111.4
82.5°	76.1	78.8	76.1	74.7
85°	42.1	47.6	44.8	44.8
87.5°	17.7	17.7	20.4	17.7
90°	7.9	5.6	3.3	1.0
92.5°	35.1	33.8	32.4	31.0
95°	65.7	64.1	62.5	60.9
97.5°	103.6	102.4	101.3	100.1

TEST NUMBER: P1031993

CATALOG NUMBER: S123RDIW-B1000D1030UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	387.7	387.4	387.2	387.0
115°	440.7	440.0	439.3	438.6
117.5°	491.9	491.7	491.4	491.2
120°	543.9	542.5	541.2	539.8
122.5°	593.0	592.1	591.2	590.3
125°	644.0	643.3	642.6	641.9
127.5°	693.5	692.2	690.8	689.4
130°	742.4	740.5	738.7	736.9
132.5°	789.8	788.0	786.1	784.3
135°	836.9	835.6	834.2	832.8
137.5°	880.7	879.5	878.4	877.2
140°	927.1	926.0	924.8	923.7
142.5°	969.4	968.3	967.1	966.0
145°	1011.7	1011.3	1010.8	1010.4
147.5°	1051.3	1050.4	1049.4	1048.5
150°	1090.2	1089.7	1089.3	1088.8
152.5°	1123.9	1123.2	1122.5	1121.8
155°	1156.9	1156.9	1156.9	1156.9
157.5°	1186.1	1186.4	1186.6	1186.8
160°	1213.3	1213.8	1214.2	1214.7
162.5°	1237.4	1238.1	1238.8	1239.5
165°	1258.0	1258.7	1259.4	1260.1
167.5°	1274.9	1275.8	1276.8	1277.7
170°	1289.4	1290.3	1291.2	1292.1
172.5°	1300.7	1301.6	1302.6	1303.5
175°	1307.9	1308.8	1309.8	1310.7
177.5°	1312.1	1313.0	1313.9	1314.8
180°	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)