

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: PORTFOLIO

Report Number: P244522

Luminaire Tested: **LD8B40D010 ER8B40827 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40827 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4128.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

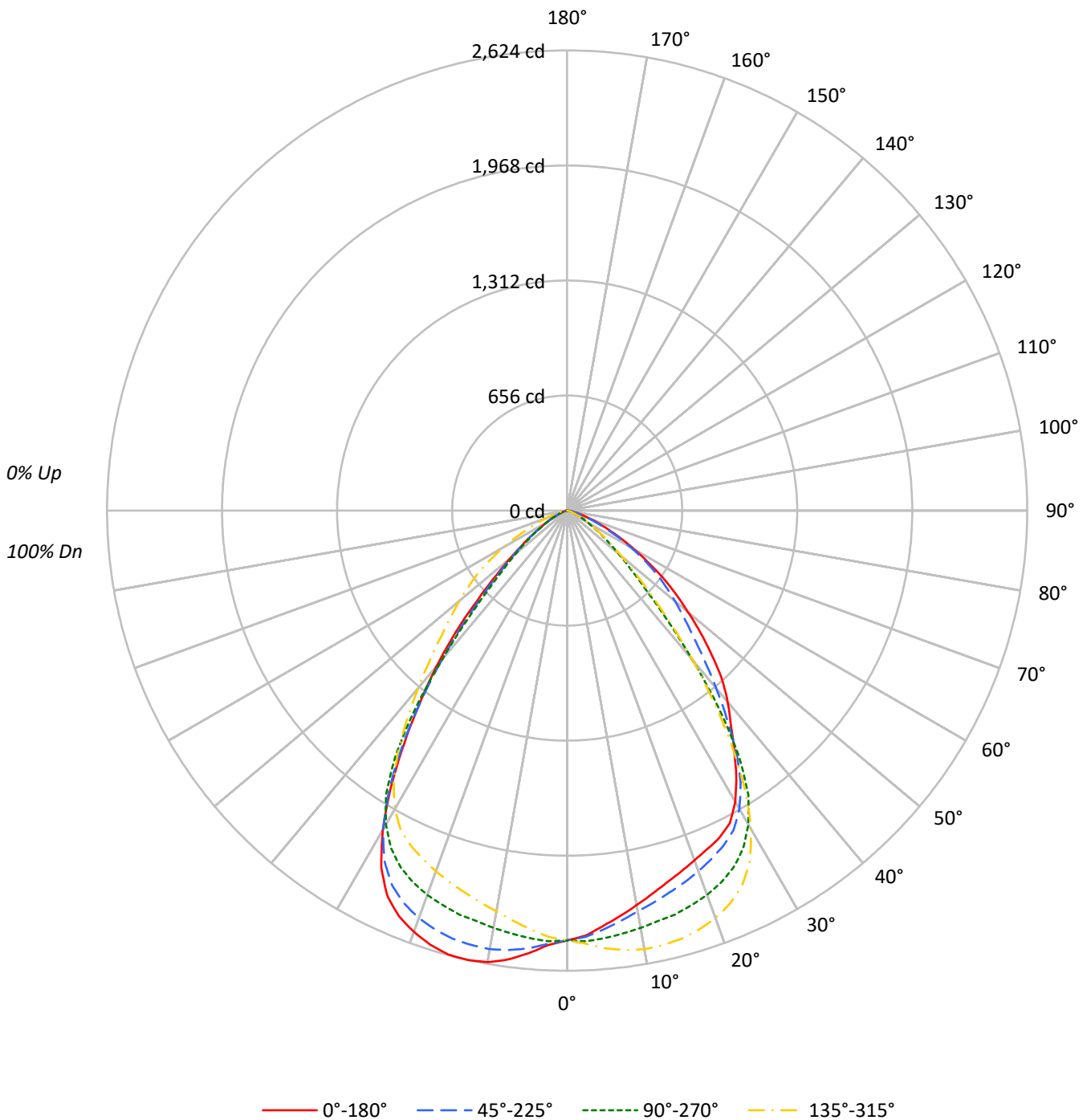
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	75571	75571	75571	75571
5°	73562	75748	78450	75748
10°	71526	75647	81868	75647
15°	70099	76097	83660	76097
20°	69621	76532	83876	76532
25°	69988	76377	82525	76377
30°	68258	73581	74906	73581
35°	62433	64191	60901	64191
40°	57322	44650	46626	44650
45°	50931	27238	31516	27238
50°	43108	18196	20206	18196
55°	35703	12419	13123	12419
60°	27235	8264	8338	8264
65°	19292	5151	4714	5151
70°	13921	3453	3129	3453
75°	8840	1716	1430	1716
80°	6162	1279	1065	1279
85°	5519	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	5.7
10°-20°	675.5	16.4
20°-30°	1022.8	24.8
30°-40°	1025.1	24.8
40°-50°	643.7	15.6
50°-60°	343.0	8.3
60°-70°	141.1	3.4
70°-80°	37.3	0.9
80°-90°	6.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1931.5	46.8
0°-40°	2956.6	71.6
0°-60°	3943.4	95.5
0°-90°	4128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2451	2451	2451	2451	2451	
5°	2376	2447	2534	2447	2376	224
15°	2196	2384	2621	2384	2196	621
25°	2057	2245	2426	2245	2057	943
35°	1658	1705	1618	1705	1658	1039
45°	1168	625	723	625	1168	898
55°	664	231	244	231	664	592
65°	264	71	65	71	264	274
75°	74	14	12	14	74	84
85°	16	0	1	0	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2425.5	2423.1	2421.9	2424.4	2425.5	2430.3	2429.1	2431.5	2431.5	2432.7	2435.1
5°	2376.5	2375.3	2376.5	2376.5	2381.3	2386.0	2384.9	2388.5	2390.8	2396.8	2399.2
7.5°	2331.0	2331.0	2329.8	2334.6	2337.0	2344.2	2342.9	2349.0	2352.5	2358.5	2366.9
10°	2284.3	2284.3	2285.5	2289.1	2290.3	2301.1	2301.1	2309.5	2314.2	2320.2	2331.0
12.5°	2238.9	2238.9	2246.1	2243.6	2248.4	2256.8	2260.4	2268.8	2276.0	2287.9	2298.7
15°	2195.8	2195.8	2198.2	2204.1	2207.7	2218.5	2224.5	2234.1	2242.5	2254.4	2270.0
17.5°	2158.7	2157.5	2158.7	2165.9	2173.1	2182.6	2187.4	2199.4	2207.7	2223.3	2237.7
20°	2121.6	2124.0	2124.0	2130.0	2134.8	2146.7	2151.5	2164.7	2174.3	2188.6	2205.4
22.5°	2089.3	2088.1	2088.1	2096.5	2100.1	2110.8	2115.6	2127.6	2138.3	2150.3	2165.9
25°	2057.0	2054.6	2059.4	2060.6	2062.9	2074.9	2078.5	2086.9	2097.7	2108.4	2124.0
27.5°	2009.1	2006.7	2007.9	2012.7	2016.3	2025.9	2028.3	2036.6	2045.0	2054.6	2067.8
30°	1917.0	1914.6	1913.4	1921.8	1925.4	1932.5	1936.1	1950.5	1952.9	1963.6	1973.2
32.5°	1794.9	1793.7	1796.1	1803.3	1806.9	1816.5	1821.3	1829.6	1835.6	1841.6	1851.1
35°	1658.5	1656.1	1658.5	1665.7	1665.7	1674.1	1677.7	1681.2	1680.0	1681.2	1678.9
37.5°	1531.7	1530.5	1531.7	1535.2	1531.7	1535.2	1531.7	1524.5	1511.3	1497.0	1482.6
40°	1424.0	1425.2	1418.0	1422.8	1409.6	1407.2	1394.1	1376.1	1349.8	1321.1	1280.4
42.5°	1309.1	1305.5	1300.7	1303.1	1292.4	1283.9	1262.4	1239.7	1206.2	1158.3	1109.2
45°	1167.9	1166.7	1164.3	1163.1	1155.9	1147.6	1129.6	1103.3	1066.2	1017.1	958.5
47.5°	1030.3	1026.7	1026.7	1027.9	1019.5	1018.3	1003.9	981.2	948.9	901.0	840.0
50°	898.6	897.5	899.9	904.6	898.6	896.3	886.7	871.1	842.4	801.8	744.3
52.5°	780.2	779.0	781.4	787.4	785.0	787.4	777.8	765.8	746.7	707.2	656.9
55°	664.1	664.1	664.1	671.3	671.3	671.3	666.5	659.4	641.4	612.7	566.0
57.5°	543.3	544.4	551.6	552.8	551.6	554.1	552.8	545.6	533.7	513.4	477.5
60°	441.6	441.6	445.2	448.7	447.5	448.7	448.7	445.2	433.2	416.4	387.7
62.5°	349.4	353.0	350.6	353.0	357.8	353.0	350.6	348.2	339.8	329.1	305.1
65°	264.4	266.9	266.9	268.0	265.6	266.9	262.1	258.5	253.7	241.7	226.2
67.5°	201.1	201.1	201.1	201.1	199.8	198.6	197.5	193.9	185.5	180.7	163.9
70°	154.4	147.2	147.2	147.2	147.2	148.4	144.8	140.0	137.6	129.2	117.3
72.5°	102.9	105.3	102.9	102.9	100.5	101.7	96.9	94.5	92.2	87.4	80.2
75°	74.2	68.2	70.6	71.8	68.2	70.6	65.8	61.0	61.0	57.4	53.8
77.5°	47.9	46.7	47.9	49.1	47.9	46.7	44.3	41.9	41.9	40.7	37.1
80°	34.7	33.5	33.5	33.5	32.3	33.5	31.1	31.1	28.7	27.5	25.1
82.5°	22.8	22.8	21.5	22.8	21.5	22.8	19.2	19.2	19.2	17.9	15.6
85°	15.6	13.2	13.2	14.4	12.0	14.4	13.2	12.0	10.8	10.8	9.6
87.5°	7.2	8.4	7.2	8.4	7.2	7.2	8.4	7.2	7.2	4.8	4.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2438.7	2439.9	2439.9	2444.7	2447.1	2448.2	2448.2	2457.9	2454.3	2456.7	2459.0
5°	2404.0	2411.2	2413.6	2413.6	2426.7	2431.5	2436.3	2447.1	2448.2	2455.4	2463.8
7.5°	2370.5	2378.9	2383.7	2394.4	2402.8	2411.2	2425.5	2432.7	2439.9	2449.5	2460.2
10°	2338.2	2347.8	2357.3	2365.7	2378.9	2389.6	2399.2	2415.9	2424.4	2437.5	2451.8
12.5°	2307.1	2320.2	2328.6	2342.9	2357.3	2366.9	2381.3	2396.8	2410.0	2423.1	2439.9
15°	2279.6	2295.1	2304.7	2320.2	2335.8	2349.0	2364.5	2383.7	2393.2	2408.8	2424.4
17.5°	2249.6	2266.4	2278.4	2292.7	2311.9	2326.2	2339.4	2358.5	2370.5	2387.2	2405.2
20°	2218.5	2235.3	2249.6	2264.0	2283.2	2297.5	2313.0	2332.2	2345.4	2362.1	2376.5
22.5°	2181.4	2197.0	2212.5	2229.3	2248.4	2260.4	2278.4	2295.1	2309.5	2325.0	2339.4
25°	2133.6	2152.7	2164.7	2180.2	2195.8	2208.9	2228.1	2244.8	2256.8	2271.2	2284.3
27.5°	2077.3	2091.7	2101.3	2114.4	2130.0	2141.9	2156.3	2173.1	2185.0	2198.2	2207.7
30°	1981.6	1994.8	2003.1	2012.7	2028.3	2039.1	2051.0	2066.5	2074.9	2084.5	2092.9
32.5°	1855.9	1866.7	1871.5	1878.7	1889.5	1900.2	1909.8	1923.0	1926.6	1932.5	1932.5
35°	1674.1	1676.4	1675.3	1677.7	1682.5	1688.4	1696.8	1705.2	1709.9	1709.9	1706.4
37.5°	1461.1	1446.7	1431.2	1419.2	1415.6	1413.2	1418.0	1421.6	1426.4	1428.7	1422.8
40°	1239.7	1207.4	1172.7	1141.6	1120.0	1110.5	1106.9	1109.2	1109.2	1117.6	1117.6
42.5°	1049.4	999.2	947.7	901.0	869.9	846.0	835.2	835.2	836.4	842.4	846.0
45°	891.5	828.1	768.2	716.8	673.7	642.6	628.2	624.6	623.5	625.8	634.2
47.5°	770.6	704.8	642.6	579.2	533.7	502.6	489.4	484.6	479.8	484.6	485.8
50°	676.1	607.9	542.1	478.6	430.8	403.2	386.5	379.3	378.1	378.1	380.5
52.5°	589.9	526.5	460.7	396.1	345.8	319.5	303.9	300.3	295.6	300.3	300.3
55°	508.5	445.2	380.5	319.5	277.6	250.1	235.7	231.0	228.5	232.1	232.1
57.5°	420.0	366.2	306.4	251.3	209.4	190.3	179.5	173.5	172.3	174.7	172.3
60°	344.6	299.2	247.7	197.5	165.1	144.8	136.4	134.0	131.6	134.0	134.0
62.5°	272.8	234.5	192.6	154.4	126.8	112.5	102.9	102.9	101.7	101.7	102.9
65°	202.2	172.3	142.4	110.1	88.6	77.8	70.6	70.6	69.4	70.6	69.4
67.5°	147.2	126.8	102.9	80.2	63.4	57.4	52.7	49.1	51.5	49.1	47.9
70°	107.7	90.9	74.2	61.0	49.1	43.1	39.5	38.3	35.9	35.9	35.9
72.5°	71.8	61.0	50.2	39.5	32.3	26.3	25.1	22.8	20.3	21.5	23.9
75°	47.9	40.7	35.9	28.7	21.5	21.5	14.4	14.4	12.0	14.4	10.8
77.5°	33.5	27.5	21.5	17.9	14.4	13.2	9.6	9.6	8.4	8.4	8.4
80°	23.9	20.3	15.6	13.2	9.6	9.6	8.4	7.2	6.0	6.0	7.2
82.5°	14.4	10.8	10.8	9.6	6.0	4.8	3.6	4.8	2.4	2.4	2.4
85°	8.4	7.2	6.0	3.6	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.8	2.4	2.4	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2465.0	2463.8	2466.2	2466.2	2473.4	2472.2	2475.8	2475.8	2473.4	2474.6	2479.4
5°	2473.4	2477.0	2484.2	2490.2	2500.9	2505.7	2511.7	2517.7	2518.9	2522.5	2526.1
7.5°	2473.4	2485.4	2493.8	2504.5	2518.9	2527.3	2540.4	2551.2	2556.0	2561.9	2569.1
10°	2468.6	2480.6	2496.1	2508.1	2526.1	2539.2	2552.4	2569.1	2576.3	2585.9	2595.5
12.5°	2459.0	2472.2	2488.9	2504.5	2524.8	2536.8	2553.6	2569.1	2579.9	2593.1	2603.8
15°	2444.7	2460.2	2475.8	2491.3	2512.9	2527.3	2542.8	2560.7	2571.5	2585.9	2595.5
17.5°	2421.9	2438.7	2453.1	2467.4	2487.8	2504.5	2518.9	2535.6	2546.4	2558.4	2571.5
20°	2394.4	2410.0	2425.5	2437.5	2457.9	2472.2	2487.8	2503.3	2511.7	2514.1	2534.4
22.5°	2359.7	2370.5	2382.4	2401.6	2413.6	2426.7	2441.1	2455.4	2463.8	2477.0	2484.2
25°	2302.3	2313.0	2326.2	2334.6	2349.0	2359.7	2374.1	2389.6	2394.4	2404.0	2411.2
27.5°	2222.1	2228.1	2234.1	2241.2	2249.6	2255.6	2264.0	2271.2	2276.0	2280.7	2285.5
30°	2095.2	2095.2	2095.2	2090.5	2094.1	2097.7	2098.8	2097.7	2097.7	2096.5	2096.5
32.5°	1927.7	1918.2	1907.4	1897.8	1894.2	1889.5	1887.1	1883.5	1877.5	1873.9	1875.1
35°	1701.6	1680.0	1666.9	1654.9	1645.4	1638.2	1634.6	1631.0	1629.8	1625.0	1620.2
37.5°	1419.2	1403.6	1394.1	1386.9	1378.5	1371.3	1372.5	1373.7	1377.3	1374.9	1376.1
40°	1120.0	1116.4	1120.0	1111.7	1109.2	1111.7	1117.6	1126.0	1130.8	1135.6	1144.0
42.5°	852.0	857.9	866.4	866.4	869.9	874.7	881.9	895.1	902.2	910.6	920.2
45°	641.4	648.6	659.4	662.9	665.3	671.3	679.7	690.4	695.2	702.4	710.8
47.5°	494.2	499.0	504.9	511.0	516.9	519.3	527.7	527.7	533.7	538.5	540.9
50°	385.3	390.1	394.9	398.5	400.9	404.5	406.8	410.4	411.6	414.0	415.2
52.5°	301.5	307.5	307.5	309.9	313.5	317.1	315.9	317.1	318.3	318.3	321.9
55°	235.7	235.7	239.3	239.3	241.7	240.5	241.7	241.7	241.7	241.7	242.9
57.5°	175.9	177.1	180.7	178.3	177.1	179.5	177.1	179.5	178.3	180.7	177.1
60°	135.2	135.2	136.4	136.4	137.6	137.6	137.6	136.4	136.4	135.2	135.2
62.5°	101.7	102.9	104.1	102.9	102.9	102.9	101.7	101.7	100.5	99.3	99.3
65°	68.2	67.0	69.4	67.0	68.2	68.2	67.0	68.2	64.6	65.8	64.6
67.5°	49.1	47.9	46.7	47.9	46.7	45.5	45.5	46.7	47.9	44.3	44.3
70°	32.3	33.5	32.3	33.5	34.7	34.7	33.5	32.3	33.5	31.1	32.3
72.5°	20.3	20.3	20.3	20.3	20.3	21.5	21.5	21.5	19.2	19.2	17.9
75°	9.6	13.2	10.8	9.6	13.2	13.2	12.0	12.0	10.8	10.8	10.8
77.5°	9.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.0	7.2	6.0
80°	4.8	4.8	4.8	3.6	4.8	4.8	6.0	4.8	4.8	3.6	6.0
82.5°	2.4	2.4	2.4	0.0	1.2	2.4	2.4	1.2	2.4	2.4	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P244522

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2478.2	2477.0	2478.2	2479.4	2478.2	2477.0	2478.2	2479.4	2474.6	2473.4	2475.8
5°	2530.8	2530.8	2533.2	2534.4	2533.2	2530.8	2530.8	2526.1	2522.5	2518.9	2517.7
7.5°	2576.3	2578.7	2581.1	2582.3	2581.1	2578.7	2576.3	2569.1	2561.9	2556.0	2551.2
10°	2603.8	2607.4	2612.2	2614.6	2612.2	2607.4	2603.8	2595.5	2585.9	2576.3	2569.1
12.5°	2615.8	2619.4	2625.4	2624.2	2625.4	2619.4	2615.8	2603.8	2593.1	2579.9	2569.1
15°	2607.4	2612.2	2618.2	2620.6	2618.2	2612.2	2607.4	2595.5	2585.9	2571.5	2560.7
17.5°	2581.1	2588.3	2591.9	2595.5	2591.9	2588.3	2581.1	2571.5	2558.4	2546.4	2535.6
20°	2545.2	2550.0	2554.8	2556.0	2554.8	2550.0	2545.2	2534.4	2514.1	2511.7	2503.3
22.5°	2493.8	2497.4	2508.1	2504.5	2508.1	2497.4	2493.8	2484.2	2477.0	2463.8	2455.4
25°	2419.5	2423.1	2424.4	2425.5	2424.4	2423.1	2419.5	2411.2	2404.0	2394.4	2389.6
27.5°	2291.5	2291.5	2293.9	2295.1	2293.9	2291.5	2291.5	2285.5	2280.7	2276.0	2271.2
30°	2097.7	2097.7	2097.7	2103.7	2097.7	2097.7	2097.7	2096.5	2096.5	2097.7	2097.7
32.5°	1873.9	1871.5	1869.1	1871.5	1869.1	1871.5	1873.9	1875.1	1873.9	1877.5	1883.5
35°	1620.2	1619.0	1622.6	1617.8	1622.6	1619.0	1620.2	1620.2	1625.0	1629.8	1631.0
37.5°	1377.3	1374.9	1379.7	1374.9	1379.7	1374.9	1377.3	1376.1	1374.9	1377.3	1373.7
40°	1146.4	1148.7	1148.7	1158.3	1148.7	1148.7	1146.4	1144.0	1135.6	1130.8	1126.0
42.5°	925.0	932.2	929.8	937.0	929.8	932.2	925.0	920.2	910.6	902.2	895.1
45°	715.6	720.4	720.4	722.7	720.4	720.4	715.6	710.8	702.4	695.2	690.4
47.5°	549.2	549.2	549.2	550.5	549.2	549.2	549.2	540.9	538.5	533.7	527.7
50°	417.6	418.8	420.0	421.2	420.0	418.8	417.6	415.2	414.0	411.6	410.4
52.5°	320.7	321.9	319.5	321.9	319.5	321.9	320.7	321.9	318.3	318.3	317.1
55°	242.9	241.7	242.9	244.1	242.9	241.7	242.9	242.9	241.7	241.7	241.7
57.5°	178.3	175.9	175.9	175.9	175.9	175.9	178.3	177.1	180.7	178.3	179.5
60°	132.8	134.0	134.0	135.2	134.0	134.0	132.8	135.2	135.2	136.4	136.4
62.5°	98.1	101.7	99.3	101.7	99.3	101.7	98.1	99.3	99.3	100.5	101.7
65°	63.4	63.4	63.4	64.6	63.4	63.4	63.4	64.6	65.8	64.6	68.2
67.5°	43.1	44.3	46.7	45.5	46.7	44.3	43.1	44.3	44.3	47.9	46.7
70°	34.7	31.1	31.1	34.7	31.1	31.1	34.7	32.3	31.1	33.5	32.3
72.5°	20.3	17.9	20.3	20.3	20.3	17.9	20.3	17.9	19.2	19.2	21.5
75°	10.8	9.6	8.4	12.0	8.4	9.6	10.8	10.8	10.8	10.8	12.0
77.5°	7.2	6.0	8.4	8.4	8.4	6.0	7.2	6.0	7.2	6.0	7.2
80°	3.6	4.8	3.6	6.0	3.6	4.8	3.6	6.0	3.6	4.8	4.8
82.5°	1.2	2.4	2.4	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2
85°	0.0	2.4	1.2	1.2	1.2	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	0.0	0.0	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



TEST NUMBER: P244522

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2475.8	2472.2	2473.4	2466.2	2466.2	2463.8	2465.0	2459.0	2456.7	2454.3	2457.9
5°	2511.7	2505.7	2500.9	2490.2	2484.2	2477.0	2473.4	2463.8	2455.4	2448.2	2447.1
7.5°	2540.4	2527.3	2518.9	2504.5	2493.8	2485.4	2473.4	2460.2	2449.5	2439.9	2432.7
10°	2552.4	2539.2	2526.1	2508.1	2496.1	2480.6	2468.6	2451.8	2437.5	2424.4	2415.9
12.5°	2553.6	2536.8	2524.8	2504.5	2488.9	2472.2	2459.0	2439.9	2423.1	2410.0	2396.8
15°	2542.8	2527.3	2512.9	2491.3	2475.8	2460.2	2444.7	2424.4	2408.8	2393.2	2383.7
17.5°	2518.9	2504.5	2487.8	2467.4	2453.1	2438.7	2421.9	2405.2	2387.2	2370.5	2358.5
20°	2487.8	2472.2	2457.9	2437.5	2425.5	2410.0	2394.4	2376.5	2362.1	2345.4	2332.2
22.5°	2441.1	2426.7	2413.6	2401.6	2382.4	2370.5	2359.7	2339.4	2325.0	2309.5	2295.1
25°	2374.1	2359.7	2349.0	2334.6	2326.2	2313.0	2302.3	2284.3	2271.2	2256.8	2244.8
27.5°	2264.0	2255.6	2249.6	2241.2	2234.1	2228.1	2222.1	2207.7	2198.2	2185.0	2173.1
30°	2098.8	2097.7	2094.1	2090.5	2095.2	2095.2	2095.2	2092.9	2084.5	2074.9	2066.5
32.5°	1887.1	1889.5	1894.2	1897.8	1907.4	1918.2	1927.7	1932.5	1932.5	1926.6	1923.0
35°	1634.6	1638.2	1645.4	1654.9	1666.9	1680.0	1701.6	1706.4	1709.9	1709.9	1705.2
37.5°	1372.5	1371.3	1378.5	1386.9	1394.1	1403.6	1419.2	1422.8	1428.7	1426.4	1421.6
40°	1117.6	1111.7	1109.2	1111.7	1120.0	1116.4	1120.0	1117.6	1117.6	1109.2	1109.2
42.5°	881.9	874.7	869.9	866.4	866.4	857.9	852.0	846.0	842.4	836.4	835.2
45°	679.7	671.3	665.3	662.9	659.4	648.6	641.4	634.2	625.8	623.5	624.6
47.5°	527.7	519.3	516.9	511.0	504.9	499.0	494.2	485.8	484.6	479.8	484.6
50°	406.8	404.5	400.9	398.5	394.9	390.1	385.3	380.5	378.1	378.1	379.3
52.5°	315.9	317.1	313.5	309.9	307.5	307.5	301.5	300.3	300.3	295.6	300.3
55°	241.7	240.5	241.7	239.3	239.3	235.7	235.7	232.1	232.1	228.5	231.0
57.5°	177.1	179.5	177.1	178.3	180.7	177.1	175.9	172.3	174.7	172.3	173.5
60°	137.6	137.6	137.6	136.4	136.4	135.2	135.2	134.0	134.0	131.6	134.0
62.5°	101.7	102.9	102.9	102.9	104.1	102.9	101.7	102.9	101.7	101.7	102.9
65°	67.0	68.2	68.2	67.0	69.4	67.0	68.2	69.4	70.6	69.4	70.6
67.5°	45.5	45.5	46.7	47.9	46.7	47.9	49.1	47.9	49.1	51.5	49.1
70°	33.5	34.7	34.7	33.5	32.3	33.5	32.3	35.9	35.9	35.9	38.3
72.5°	21.5	21.5	20.3	20.3	20.3	20.3	20.3	23.9	21.5	20.3	22.8
75°	12.0	13.2	13.2	9.6	10.8	13.2	9.6	10.8	14.4	12.0	14.4
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	9.6	8.4	8.4	8.4	9.6
80°	6.0	4.8	4.8	3.6	4.8	4.8	4.8	7.2	6.0	6.0	7.2
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	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



TEST NUMBER: P244522

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSWOH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2448.2	2448.2	2447.1	2444.7	2439.9	2439.9	2438.7	2435.1	2432.7	2431.5	2431.5
5°	2436.3	2431.5	2426.7	2413.6	2413.6	2411.2	2404.0	2399.2	2396.8	2390.8	2388.5
7.5°	2425.5	2411.2	2402.8	2394.4	2383.7	2378.9	2370.5	2366.9	2358.5	2352.5	2349.0
10°	2399.2	2389.6	2378.9	2365.7	2357.3	2347.8	2338.2	2331.0	2320.2	2314.2	2309.5
12.5°	2381.3	2366.9	2357.3	2342.9	2328.6	2320.2	2307.1	2298.7	2287.9	2276.0	2268.8
15°	2364.5	2349.0	2335.8	2320.2	2304.7	2295.1	2279.6	2270.0	2254.4	2242.5	2234.1
17.5°	2339.4	2326.2	2311.9	2292.7	2278.4	2266.4	2249.6	2237.7	2223.3	2207.7	2199.4
20°	2313.0	2297.5	2283.2	2264.0	2249.6	2235.3	2218.5	2205.4	2188.6	2174.3	2164.7
22.5°	2278.4	2260.4	2248.4	2229.3	2212.5	2197.0	2181.4	2165.9	2150.3	2138.3	2127.6
25°	2228.1	2208.9	2195.8	2180.2	2164.7	2152.7	2133.6	2124.0	2108.4	2097.7	2086.9
27.5°	2156.3	2141.9	2130.0	2114.4	2101.3	2091.7	2077.3	2067.8	2054.6	2045.0	2036.6
30°	2051.0	2039.1	2028.3	2012.7	2003.1	1994.8	1981.6	1973.2	1963.6	1952.9	1950.5
32.5°	1909.8	1900.2	1889.5	1878.7	1871.5	1866.7	1855.9	1851.1	1841.6	1835.6	1829.6
35°	1696.8	1688.4	1682.5	1677.7	1675.3	1676.4	1674.1	1678.9	1681.2	1680.0	1681.2
37.5°	1418.0	1413.2	1415.6	1419.2	1431.2	1446.7	1461.1	1482.6	1497.0	1511.3	1524.5
40°	1106.9	1110.5	1120.0	1141.6	1172.7	1207.4	1239.7	1280.4	1321.1	1349.8	1376.1
42.5°	835.2	846.0	869.9	901.0	947.7	999.2	1049.4	1109.2	1158.3	1206.2	1239.7
45°	628.2	642.6	673.7	716.8	768.2	828.1	891.5	958.5	1017.1	1066.2	1103.3
47.5°	489.4	502.6	533.7	579.2	642.6	704.8	770.6	840.0	901.0	948.9	981.2
50°	386.5	403.2	430.8	478.6	542.1	607.9	676.1	744.3	801.8	842.4	871.1
52.5°	303.9	319.5	345.8	396.1	460.7	526.5	589.9	656.9	707.2	746.7	765.8
55°	235.7	250.1	277.6	319.5	380.5	445.2	508.5	566.0	612.7	641.4	659.4
57.5°	179.5	190.3	209.4	251.3	306.4	366.2	420.0	477.5	513.4	533.7	545.6
60°	136.4	144.8	165.1	197.5	247.7	299.2	344.6	387.7	416.4	433.2	445.2
62.5°	102.9	112.5	126.8	154.4	192.6	234.5	272.8	305.1	329.1	339.8	348.2
65°	70.6	77.8	88.6	110.1	142.4	172.3	202.2	226.2	241.7	253.7	258.5
67.5°	52.7	57.4	63.4	80.2	102.9	126.8	147.2	163.9	180.7	185.5	193.9
70°	39.5	43.1	49.1	61.0	74.2	90.9	107.7	117.3	129.2	137.6	140.0
72.5°	25.1	26.3	32.3	39.5	50.2	61.0	71.8	80.2	87.4	92.2	94.5
75°	14.4	21.5	21.5	28.7	35.9	40.7	47.9	53.8	57.4	61.0	61.0
77.5°	9.6	13.2	14.4	17.9	21.5	27.5	33.5	37.1	40.7	41.9	41.9
80°	8.4	9.6	9.6	13.2	15.6	20.3	23.9	25.1	27.5	28.7	31.1
82.5°	3.6	4.8	6.0	9.6	10.8	10.8	14.4	15.6	17.9	19.2	19.2
85°	1.2	2.4	2.4	3.6	6.0	7.2	8.4	9.6	10.8	10.8	12.0
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.8	4.8	4.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P244522

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2429.1	2430.3	2425.5	2424.4	2421.9	2423.1	2425.5
5°	2384.9	2386.0	2381.3	2376.5	2376.5	2375.3	2376.5
7.5°	2342.9	2344.2	2337.0	2334.6	2329.8	2331.0	2331.0
10°	2301.1	2301.1	2290.3	2289.1	2285.5	2284.3	2284.3
12.5°	2260.4	2256.8	2248.4	2243.6	2246.1	2238.9	2238.9
15°	2224.5	2218.5	2207.7	2204.1	2198.2	2195.8	2195.8
17.5°	2187.4	2182.6	2173.1	2165.9	2158.7	2157.5	2158.7
20°	2151.5	2146.7	2134.8	2130.0	2124.0	2124.0	2121.6
22.5°	2115.6	2110.8	2100.1	2096.5	2088.1	2088.1	2089.3
25°	2078.5	2074.9	2062.9	2060.6	2059.4	2054.6	2057.0
27.5°	2028.3	2025.9	2016.3	2012.7	2007.9	2006.7	2009.1
30°	1936.1	1932.5	1925.4	1921.8	1913.4	1914.6	1917.0
32.5°	1821.3	1816.5	1806.9	1803.3	1796.1	1793.7	1794.9
35°	1677.7	1674.1	1665.7	1665.7	1658.5	1656.1	1658.5
37.5°	1531.7	1535.2	1531.7	1535.2	1531.7	1530.5	1531.7
40°	1394.1	1407.2	1409.6	1422.8	1418.0	1425.2	1424.0
42.5°	1262.4	1283.9	1292.4	1303.1	1300.7	1305.5	1309.1
45°	1129.6	1147.6	1155.9	1163.1	1164.3	1166.7	1167.9
47.5°	1003.9	1018.3	1019.5	1027.9	1026.7	1026.7	1030.3
50°	886.7	896.3	898.6	904.6	899.9	897.5	898.6
52.5°	777.8	787.4	785.0	787.4	781.4	779.0	780.2
55°	666.5	671.3	671.3	671.3	664.1	664.1	664.1
57.5°	552.8	554.1	551.6	552.8	551.6	544.4	543.3
60°	448.7	448.7	447.5	448.7	445.2	441.6	441.6
62.5°	350.6	353.0	357.8	353.0	350.6	353.0	349.4
65°	262.1	266.9	265.6	268.0	266.9	266.9	264.4
67.5°	197.5	198.6	199.8	201.1	201.1	201.1	201.1
70°	144.8	148.4	147.2	147.2	147.2	147.2	154.4
72.5°	96.9	101.7	100.5	102.9	102.9	105.3	102.9
75°	65.8	70.6	68.2	71.8	70.6	68.2	74.2
77.5°	44.3	46.7	47.9	49.1	47.9	46.7	47.9
80°	31.1	33.5	32.3	33.5	33.5	33.5	34.7
82.5°	19.2	22.8	21.5	22.8	21.5	22.8	22.8
85°	13.2	14.4	12.0	14.4	13.2	13.2	15.6
87.5°	8.4	7.2	7.2	8.4	7.2	8.4	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)