

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: P245956

Luminaire Tested: **LD8B40D010 ER8B409730 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245956
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 ER8B409730 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2477.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

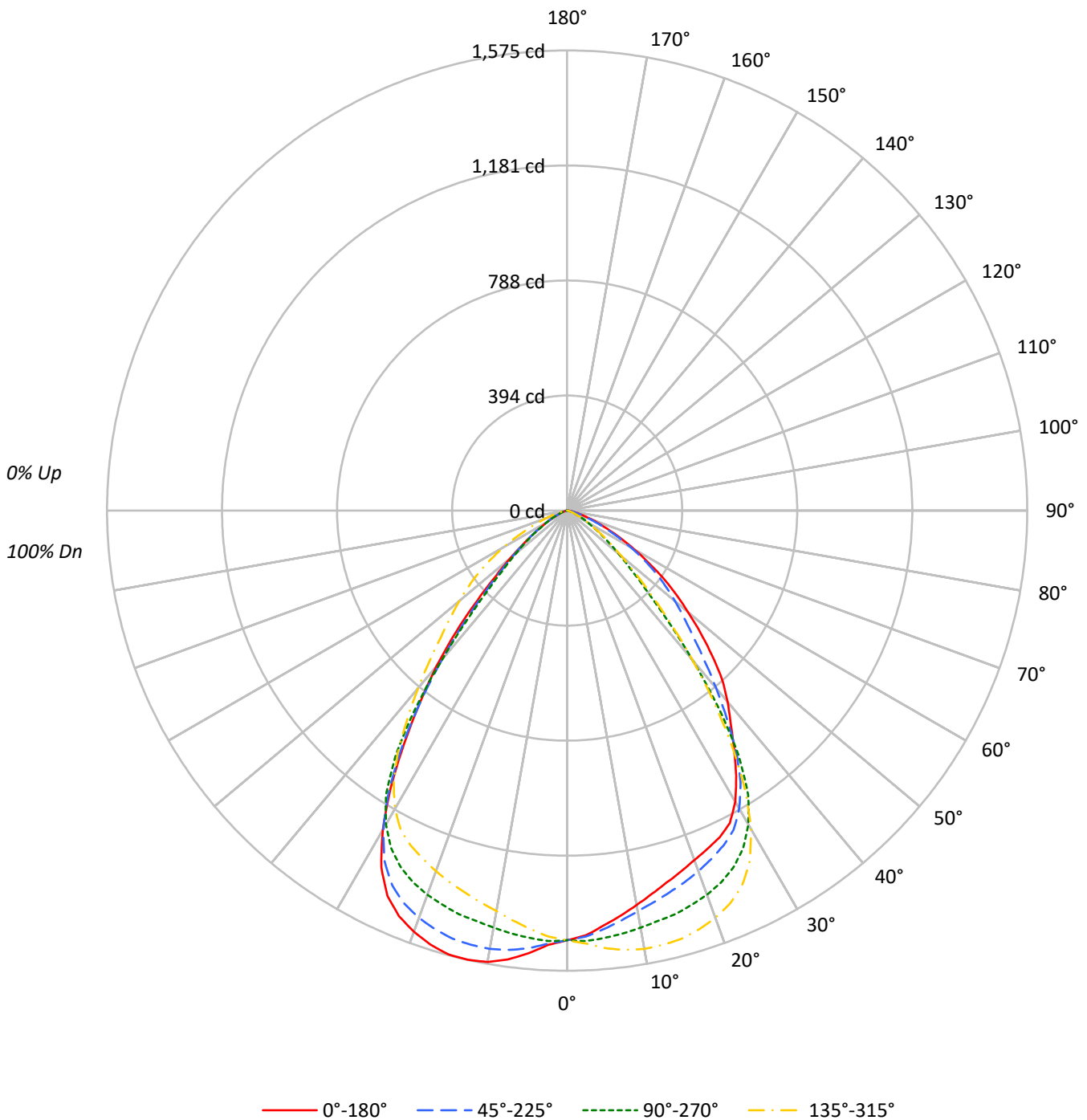
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	5.7
10°-20°	405.3	16.4
20°-30°	613.7	24.8
30°-40°	615.1	24.8
40°-50°	386.3	15.6
50°-60°	205.8	8.3
60°-70°	84.6	3.4
70°-80°	22.4	0.9
80°-90°	3.8	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°	1159.0	46.8
0°-40°	1774.1	71.6
0°-60°	2366.2	95.5
0°-90°	2477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1470	1470	1470	1470	1470	
5°	1426	1468	1521	1468	1426	134
15°	1318	1430	1572	1430	1318	373
25°	1234	1347	1455	1347	1234	566
35°	995	1023	971	1023	995	623
45°	701	375	434	375	701	539
55°	398	139	146	139	398	355
65°	159	42	39	42	159	165
75°	44	9	7	9	44	50
85°	9	0	1	0	9	10
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°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1455.4	1454.0	1453.3	1454.7	1455.4	1458.3	1457.6	1459.0	1459.0	1459.8	1461.2
5°	1426.0	1425.3	1426.0	1426.0	1428.9	1431.7	1431.0	1433.2	1434.6	1438.2	1439.6
7.5°	1398.7	1398.7	1398.0	1400.9	1402.3	1406.6	1405.9	1409.5	1411.6	1415.2	1420.2
10°	1370.7	1370.7	1371.4	1373.6	1374.3	1380.8	1380.8	1385.8	1388.7	1392.3	1398.7
12.5°	1343.4	1343.4	1347.7	1346.3	1349.2	1354.2	1356.3	1361.4	1365.7	1372.9	1379.3
15°	1317.6	1317.6	1319.0	1322.6	1324.8	1331.2	1334.8	1340.6	1345.6	1352.8	1362.1
17.5°	1295.3	1294.6	1295.3	1299.6	1303.9	1309.7	1312.5	1319.7	1324.8	1334.1	1342.7
20°	1273.1	1274.5	1274.5	1278.1	1281.0	1288.1	1291.0	1298.9	1304.7	1313.3	1323.3
22.5°	1253.7	1253.0	1253.0	1258.0	1260.1	1266.6	1269.5	1276.6	1283.1	1290.3	1299.6
25°	1234.3	1232.8	1235.7	1236.4	1237.9	1245.0	1247.2	1252.2	1258.7	1265.2	1274.5
27.5°	1205.6	1204.1	1204.9	1207.7	1209.9	1215.6	1217.1	1222.1	1227.1	1232.8	1240.8
30°	1150.3	1148.8	1148.1	1153.2	1155.3	1159.6	1161.8	1170.4	1171.8	1178.3	1184.0
32.5°	1077.0	1076.3	1077.8	1082.1	1084.2	1090.0	1092.8	1097.9	1101.4	1105.0	1110.8
35°	995.2	993.7	995.2	999.5	999.5	1004.5	1006.7	1008.8	1008.1	1008.8	1007.4
37.5°	919.1	918.3	919.1	921.2	919.1	921.2	919.1	914.8	906.9	898.3	889.6
40°	854.5	855.2	850.9	853.7	845.8	844.4	836.5	825.7	809.9	792.7	768.3
42.5°	785.5	783.4	780.5	781.9	775.5	770.4	757.5	743.9	723.8	695.1	665.6
45°	700.8	700.1	698.6	697.9	693.6	688.6	677.8	662.0	639.8	610.3	575.1
47.5°	618.2	616.1	616.1	616.8	611.7	611.0	602.4	588.8	569.4	540.7	504.1
50°	539.2	538.5	540.0	542.8	539.2	537.8	532.1	522.7	505.5	481.1	446.6
52.5°	468.1	467.4	468.9	472.5	471.0	472.5	466.7	459.5	448.0	424.3	394.2
55°	398.5	398.5	398.5	402.8	402.8	402.8	399.9	395.6	384.9	367.6	339.6
57.5°	326.0	326.7	331.0	331.7	331.0	332.5	331.7	327.4	320.3	308.0	286.5
60°	265.0	265.0	267.1	269.3	268.5	269.3	269.3	267.1	259.9	249.9	232.7
62.5°	209.7	211.8	210.4	211.8	214.7	211.8	210.4	209.0	203.9	197.5	183.1
65°	158.7	160.1	160.1	160.8	159.4	160.1	157.3	155.1	152.2	145.1	135.7
67.5°	120.6	120.6	120.6	120.6	119.9	119.2	118.5	116.3	111.3	108.4	98.4
70°	92.6	88.3	88.3	88.3	88.3	89.0	86.9	84.0	82.6	77.6	70.4
72.5°	61.7	63.2	61.7	61.7	60.3	61.0	58.2	56.7	55.3	52.4	48.1
75°	44.5	40.9	42.4	43.1	40.9	42.4	39.5	36.6	36.6	34.5	32.3
77.5°	28.7	28.0	28.7	29.4	28.7	28.0	26.6	25.1	25.1	24.4	22.3
80°	20.8	20.1	20.1	20.1	19.4	20.1	18.7	18.7	17.2	16.5	15.1
82.5°	13.7	13.7	12.9	13.7	12.9	13.7	11.5	11.5	11.5	10.8	9.3
85°	9.3	7.9	7.9	8.6	7.2	8.6	7.9	7.2	6.5	6.5	5.7
87.5°	4.3	5.0	4.3	5.0	4.3	4.3	5.0	4.3	4.3	2.9	2.9
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1463.3	1464.0	1464.0	1466.9	1468.4	1469.1	1469.1	1474.8	1472.7	1474.1	1475.5
5°	1442.5	1446.8	1448.3	1448.3	1456.2	1459.0	1461.9	1468.4	1469.1	1473.4	1478.4
7.5°	1422.4	1427.4	1430.3	1436.8	1441.8	1446.8	1455.4	1459.8	1464.0	1469.8	1476.3
10°	1403.0	1408.8	1414.5	1419.5	1427.4	1433.9	1439.6	1449.7	1454.7	1462.6	1471.2
12.5°	1384.4	1392.3	1397.3	1405.9	1414.5	1420.2	1428.9	1438.2	1446.1	1454.0	1464.0
15°	1367.8	1377.2	1382.9	1392.3	1401.6	1409.5	1418.8	1430.3	1436.1	1445.4	1454.7
17.5°	1349.9	1360.0	1367.1	1375.7	1387.2	1395.8	1403.8	1415.2	1422.4	1432.5	1443.2
20°	1331.2	1341.3	1349.9	1358.5	1370.0	1378.6	1387.9	1399.4	1407.3	1417.4	1426.0
22.5°	1309.0	1318.3	1327.6	1337.7	1349.2	1356.3	1367.1	1377.2	1385.8	1395.1	1403.8
25°	1280.2	1291.7	1298.9	1308.2	1317.6	1325.5	1337.0	1347.0	1354.2	1362.8	1370.7
27.5°	1246.5	1255.1	1260.9	1268.7	1278.1	1285.3	1293.9	1303.9	1311.1	1319.0	1324.8
30°	1189.0	1197.0	1202.0	1207.7	1217.1	1223.5	1230.7	1240.0	1245.0	1250.8	1255.8
32.5°	1113.6	1120.1	1123.0	1127.3	1133.8	1140.2	1146.0	1153.9	1156.0	1159.6	1159.6
35°	1004.5	1005.9	1005.2	1006.7	1009.6	1013.1	1018.2	1023.2	1026.0	1026.0	1023.9
37.5°	876.7	868.1	858.8	851.6	849.4	848.0	850.9	853.0	855.9	857.3	853.7
40°	743.9	724.5	703.7	685.0	672.1	666.3	664.2	665.6	665.6	670.6	670.6
42.5°	629.7	599.5	568.7	540.7	522.0	507.7	501.2	501.2	501.9	505.5	507.7
45°	534.9	496.9	461.0	430.1	404.2	385.6	377.0	374.8	374.1	375.5	380.5
47.5°	462.4	422.9	385.6	347.5	320.3	301.6	293.7	290.8	287.9	290.8	291.5
50°	405.7	364.8	325.3	287.2	258.5	242.0	231.9	227.6	226.9	226.9	228.3
52.5°	354.0	315.9	276.5	237.7	207.5	191.7	182.4	180.2	177.4	180.2	180.2
55°	305.2	267.1	228.3	191.7	166.6	150.1	141.4	138.6	137.1	139.3	139.3
57.5°	252.0	219.7	183.8	150.8	125.7	114.2	107.7	104.1	103.4	104.8	103.4
60°	206.8	179.5	148.6	118.5	99.1	86.9	81.9	80.4	79.0	80.4	80.4
62.5°	163.7	140.7	115.6	92.6	76.1	67.5	61.7	61.7	61.0	61.0	61.7
65°	121.4	103.4	85.4	66.1	53.1	46.7	42.4	42.4	41.6	42.4	41.6
67.5°	88.3	76.1	61.7	48.1	38.1	34.5	31.6	29.4	30.9	29.4	28.7
70°	64.6	54.6	44.5	36.6	29.4	25.9	23.7	23.0	21.5	21.5	21.5
72.5°	43.1	36.6	30.1	23.7	19.4	15.8	15.1	13.7	12.2	12.9	14.4
75°	28.7	24.4	21.5	17.2	12.9	12.9	8.6	8.6	7.2	8.6	6.5
77.5°	20.1	16.5	12.9	10.8	8.6	7.9	5.7	5.7	5.0	5.0	5.0
80°	14.4	12.2	9.3	7.9	5.7	5.7	5.0	4.3	3.6	3.6	4.3
82.5°	8.6	6.5	6.5	5.7	3.6	2.9	2.2	2.9	1.4	1.4	1.4
85°	5.0	4.3	3.6	2.2	1.4	1.4	0.7	0.0	0.7	0.7	0.0
87.5°	2.9	1.4	1.4	0.7	0.0	0.7	0.7	0.0	0.0	0.0	1.4
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°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1479.1	1478.4	1479.9	1479.9	1484.2	1483.4	1485.6	1485.6	1484.2	1484.9	1487.7
5°	1484.2	1486.3	1490.6	1494.2	1500.7	1503.6	1507.1	1510.7	1511.4	1513.6	1515.8
7.5°	1484.2	1491.4	1496.4	1502.8	1511.4	1516.5	1524.4	1530.8	1533.7	1537.3	1541.6
10°	1481.3	1488.5	1497.8	1505.0	1515.8	1523.7	1531.5	1541.6	1545.9	1551.6	1557.4
12.5°	1475.5	1483.4	1493.5	1502.8	1515.0	1522.2	1532.3	1541.6	1548.1	1556.0	1562.4
15°	1466.9	1476.3	1485.6	1494.9	1507.8	1516.5	1525.8	1536.6	1543.0	1551.6	1557.4
17.5°	1453.3	1463.3	1472.0	1480.6	1492.8	1502.8	1511.4	1521.5	1528.0	1535.2	1543.0
20°	1436.8	1446.1	1455.4	1462.6	1474.8	1483.4	1492.8	1502.1	1507.1	1508.6	1520.8
22.5°	1416.0	1422.4	1429.6	1441.1	1448.3	1456.2	1464.8	1473.4	1478.4	1486.3	1490.6
25°	1381.5	1387.9	1395.8	1400.9	1409.5	1416.0	1424.6	1433.9	1436.8	1442.5	1446.8
27.5°	1333.4	1337.0	1340.6	1344.9	1349.9	1353.5	1358.5	1362.8	1365.7	1368.6	1371.4
30°	1257.3	1257.3	1257.3	1254.4	1256.5	1258.7	1259.4	1258.7	1258.7	1258.0	1258.0
32.5°	1156.7	1151.0	1144.5	1138.8	1136.6	1133.8	1132.3	1130.2	1126.6	1124.4	1125.1
35°	1021.0	1008.1	1000.2	993.0	987.3	983.0	980.8	978.7	978.0	975.1	972.2
37.5°	851.6	842.2	836.5	832.2	827.2	822.9	823.6	824.3	826.4	825.0	825.7
40°	672.1	669.9	672.1	667.0	665.6	667.0	670.6	675.7	678.5	681.4	686.4
42.5°	511.2	514.8	519.9	519.9	522.0	524.9	529.2	537.1	541.4	546.4	552.2
45°	384.9	389.2	395.6	397.8	399.2	402.8	407.9	414.3	417.2	421.5	426.5
47.5°	296.6	299.4	303.0	306.6	310.2	311.6	316.6	316.6	320.3	323.1	324.5
50°	231.2	234.1	236.9	239.1	240.5	242.7	244.1	246.3	247.0	248.4	249.1
52.5°	180.9	184.5	184.5	186.0	188.1	190.3	189.6	190.3	191.0	191.0	193.1
55°	141.4	141.4	143.6	143.6	145.1	144.3	145.1	145.1	145.1	145.1	145.8
57.5°	105.5	106.3	108.4	107.0	106.3	107.7	106.3	107.7	107.0	108.4	106.3
60°	81.1	81.1	81.9	81.9	82.6	82.6	82.6	81.9	81.9	81.1	81.1
62.5°	61.0	61.7	62.5	61.7	61.7	61.7	61.0	61.0	60.3	59.6	59.6
65°	40.9	40.2	41.6	40.2	40.9	40.9	40.2	40.9	38.8	39.5	38.8
67.5°	29.4	28.7	28.0	28.7	28.0	27.3	27.3	28.0	28.7	26.6	26.6
70°	19.4	20.1	19.4	20.1	20.8	20.8	20.1	19.4	20.1	18.7	19.4
72.5°	12.2	12.2	12.2	12.2	12.2	12.9	12.9	12.9	11.5	11.5	10.8
75°	5.7	7.9	6.5	5.7	7.9	7.9	7.2	7.2	6.5	6.5	6.5
77.5°	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	3.6	4.3	3.6
80°	2.9	2.9	2.9	2.2	2.9	2.9	3.6	2.9	2.9	2.2	3.6
82.5°	1.4	1.4	1.4	0.0	0.7	1.4	1.4	0.7	1.4	1.4	0.7
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: P245956

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1487.0	1486.3	1487.0	1487.7	1487.0	1486.3	1487.0	1487.7	1484.9	1484.2	1485.6
5°	1518.6	1518.6	1520.0	1520.8	1520.0	1518.6	1518.6	1515.8	1513.6	1511.4	1510.7
7.5°	1545.9	1547.4	1548.8	1549.5	1548.8	1547.4	1545.9	1541.6	1537.3	1533.7	1530.8
10°	1562.4	1564.6	1567.5	1568.9	1567.5	1564.6	1562.4	1557.4	1551.6	1545.9	1541.6
12.5°	1569.6	1571.8	1575.3	1574.6	1575.3	1571.8	1569.6	1562.4	1556.0	1548.1	1541.6
15°	1564.6	1567.5	1571.0	1572.5	1571.0	1567.5	1564.6	1557.4	1551.6	1543.0	1536.6
17.5°	1548.8	1553.1	1555.2	1557.4	1555.2	1553.1	1548.8	1543.0	1535.2	1528.0	1521.5
20°	1527.2	1530.1	1533.0	1533.7	1533.0	1530.1	1527.2	1520.8	1508.6	1507.1	1502.1
22.5°	1496.4	1498.5	1505.0	1502.8	1505.0	1498.5	1496.4	1490.6	1486.3	1478.4	1473.4
25°	1451.8	1454.0	1454.7	1455.4	1454.7	1454.0	1451.8	1446.8	1442.5	1436.8	1433.9
27.5°	1375.0	1375.0	1376.4	1377.2	1376.4	1375.0	1375.0	1371.4	1368.6	1365.7	1362.8
30°	1258.7	1258.7	1258.7	1262.3	1258.7	1258.7	1258.7	1258.0	1258.0	1258.7	1258.7
32.5°	1124.4	1123.0	1121.6	1123.0	1121.6	1123.0	1124.4	1125.1	1124.4	1126.6	1130.2
35°	972.2	971.5	973.6	970.8	973.6	971.5	972.2	972.2	975.1	978.0	978.7
37.5°	826.4	825.0	827.9	825.0	827.9	825.0	826.4	825.7	825.0	826.4	824.3
40°	687.9	689.3	689.3	695.1	689.3	689.3	687.9	686.4	681.4	678.5	675.7
42.5°	555.0	559.3	557.9	562.2	557.9	559.3	555.0	552.2	546.4	541.4	537.1
45°	429.4	432.3	432.3	433.7	432.3	432.3	429.4	426.5	421.5	417.2	414.3
47.5°	329.6	329.6	329.6	330.3	329.6	329.6	329.6	324.5	323.1	320.3	316.6
50°	250.6	251.3	252.0	252.8	252.0	251.3	250.6	249.1	248.4	247.0	246.3
52.5°	192.4	193.1	191.7	193.1	191.7	193.1	192.4	193.1	191.0	191.0	190.3
55°	145.8	145.1	145.8	146.5	145.8	145.1	145.8	145.8	145.1	145.1	145.1
57.5°	107.0	105.5	105.5	105.5	105.5	105.5	107.0	106.3	108.4	107.0	107.7
60°	79.7	80.4	80.4	81.1	80.4	80.4	79.7	81.1	81.1	81.9	81.9
62.5°	58.9	61.0	59.6	61.0	59.6	61.0	58.9	59.6	59.6	60.3	61.0
65°	38.1	38.1	38.1	38.8	38.1	38.1	38.1	38.8	39.5	38.8	40.9
67.5°	25.9	26.6	28.0	27.3	28.0	26.6	25.9	26.6	26.6	28.7	28.0
70°	20.8	18.7	18.7	20.8	18.7	18.7	20.8	19.4	18.7	20.1	19.4
72.5°	12.2	10.8	12.2	12.2	12.2	10.8	12.2	10.8	11.5	11.5	12.9
75°	6.5	5.7	5.0	7.2	5.0	5.7	6.5	6.5	6.5	6.5	7.2
77.5°	4.3	3.6	5.0	5.0	5.0	3.6	4.3	3.6	4.3	3.6	4.3
80°	2.2	2.9	2.2	3.6	2.2	2.9	2.2	3.6	2.2	2.9	2.9
82.5°	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7	1.4	1.4	0.7
85°	0.0	1.4	0.7	0.7	0.7	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.7	0.0	0.0	0.7	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: P245956

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1485.6	1483.4	1484.2	1479.9	1479.9	1478.4	1479.1	1475.5	1474.1	1472.7	1474.8
5°	1507.1	1503.6	1500.7	1494.2	1490.6	1486.3	1484.2	1478.4	1473.4	1469.1	1468.4
7.5°	1524.4	1516.5	1511.4	1502.8	1496.4	1491.4	1484.2	1476.3	1469.8	1464.0	1459.8
10°	1531.5	1523.7	1515.8	1505.0	1497.8	1488.5	1481.3	1471.2	1462.6	1454.7	1449.7
12.5°	1532.3	1522.2	1515.0	1502.8	1493.5	1483.4	1475.5	1464.0	1454.0	1446.1	1438.2
15°	1525.8	1516.5	1507.8	1494.9	1485.6	1476.3	1466.9	1454.7	1445.4	1436.1	1430.3
17.5°	1511.4	1502.8	1492.8	1480.6	1472.0	1463.3	1453.3	1443.2	1432.5	1422.4	1415.2
20°	1492.8	1483.4	1474.8	1462.6	1455.4	1446.1	1436.8	1426.0	1417.4	1407.3	1399.4
22.5°	1464.8	1456.2	1448.3	1441.1	1429.6	1422.4	1416.0	1403.8	1395.1	1385.8	1377.2
25°	1424.6	1416.0	1409.5	1400.9	1395.8	1387.9	1381.5	1370.7	1362.8	1354.2	1347.0
27.5°	1358.5	1353.5	1349.9	1344.9	1340.6	1337.0	1333.4	1324.8	1319.0	1311.1	1303.9
30°	1259.4	1258.7	1256.5	1254.4	1257.3	1257.3	1257.3	1255.8	1250.8	1245.0	1240.0
32.5°	1132.3	1133.8	1136.6	1138.8	1144.5	1151.0	1156.7	1159.6	1159.6	1156.0	1153.9
35°	980.8	983.0	987.3	993.0	1000.2	1008.1	1021.0	1023.9	1026.0	1026.0	1023.2
37.5°	823.6	822.9	827.2	832.2	836.5	842.2	851.6	853.7	857.3	855.9	853.0
40°	670.6	667.0	665.6	667.0	672.1	669.9	672.1	670.6	670.6	665.6	665.6
42.5°	529.2	524.9	522.0	519.9	519.9	514.8	511.2	507.7	505.5	501.9	501.2
45°	407.9	402.8	399.2	397.8	395.6	389.2	384.9	380.5	375.5	374.1	374.8
47.5°	316.6	311.6	310.2	306.6	303.0	299.4	296.6	291.5	290.8	287.9	290.8
50°	244.1	242.7	240.5	239.1	236.9	234.1	231.2	228.3	226.9	226.9	227.6
52.5°	189.6	190.3	188.1	186.0	184.5	184.5	180.9	180.2	180.2	177.4	180.2
55°	145.1	144.3	145.1	143.6	143.6	141.4	141.4	139.3	139.3	137.1	138.6
57.5°	106.3	107.7	106.3	107.0	108.4	106.3	105.5	103.4	104.8	103.4	104.1
60°	82.6	82.6	82.6	81.9	81.9	81.1	81.1	80.4	80.4	79.0	80.4
62.5°	61.0	61.7	61.7	61.7	62.5	61.7	61.0	61.7	61.0	61.0	61.7
65°	40.2	40.9	40.9	40.2	41.6	40.2	40.9	41.6	42.4	41.6	42.4
67.5°	27.3	27.3	28.0	28.7	28.0	28.7	29.4	28.7	29.4	30.9	29.4
70°	20.1	20.8	20.8	20.1	19.4	20.1	19.4	21.5	21.5	21.5	23.0
72.5°	12.9	12.9	12.2	12.2	12.2	12.2	12.2	14.4	12.9	12.2	13.7
75°	7.2	7.9	7.9	5.7	6.5	7.9	5.7	6.5	8.6	7.2	8.6
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.0	5.0	5.0	5.7
80°	3.6	2.9	2.9	2.2	2.9	2.9	2.9	4.3	3.6	3.6	4.3
82.5°	1.4	1.4	0.7	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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: P245956

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1469.1	1469.1	1468.4	1466.9	1464.0	1464.0	1463.3	1461.2	1459.8	1459.0	1459.0
5°	1461.9	1459.0	1456.2	1448.3	1448.3	1446.8	1442.5	1439.6	1438.2	1434.6	1433.2
7.5°	1455.4	1446.8	1441.8	1436.8	1430.3	1427.4	1422.4	1420.2	1415.2	1411.6	1409.5
10°	1439.6	1433.9	1427.4	1419.5	1414.5	1408.8	1403.0	1398.7	1392.3	1388.7	1385.8
12.5°	1428.9	1420.2	1414.5	1405.9	1397.3	1392.3	1384.4	1379.3	1372.9	1365.7	1361.4
15°	1418.8	1409.5	1401.6	1392.3	1382.9	1377.2	1367.8	1362.1	1352.8	1345.6	1340.6
17.5°	1403.8	1395.8	1387.2	1375.7	1367.1	1360.0	1349.9	1342.7	1334.1	1324.8	1319.7
20°	1387.9	1378.6	1370.0	1358.5	1349.9	1341.3	1331.2	1323.3	1313.3	1304.7	1298.9
22.5°	1367.1	1356.3	1349.2	1337.7	1327.6	1318.3	1309.0	1299.6	1290.3	1283.1	1276.6
25°	1337.0	1325.5	1317.6	1308.2	1298.9	1291.7	1280.2	1274.5	1265.2	1258.7	1252.2
27.5°	1293.9	1285.3	1278.1	1268.7	1260.9	1255.1	1246.5	1240.8	1232.8	1227.1	1222.1
30°	1230.7	1223.5	1217.1	1207.7	1202.0	1197.0	1189.0	1184.0	1178.3	1171.8	1170.4
32.5°	1146.0	1140.2	1133.8	1127.3	1123.0	1120.1	1113.6	1110.8	1105.0	1101.4	1097.9
35°	1018.2	1013.1	1009.6	1006.7	1005.2	1005.9	1004.5	1007.4	1008.8	1008.1	1008.8
37.5°	850.9	848.0	849.4	851.6	858.8	868.1	876.7	889.6	898.3	906.9	914.8
40°	664.2	666.3	672.1	685.0	703.7	724.5	743.9	768.3	792.7	809.9	825.7
42.5°	501.2	507.7	522.0	540.7	568.7	599.5	629.7	665.6	695.1	723.8	743.9
45°	377.0	385.6	404.2	430.1	461.0	496.9	534.9	575.1	610.3	639.8	662.0
47.5°	293.7	301.6	320.3	347.5	385.6	422.9	462.4	504.1	540.7	569.4	588.8
50°	231.9	242.0	258.5	287.2	325.3	364.8	405.7	446.6	481.1	505.5	522.7
52.5°	182.4	191.7	207.5	237.7	276.5	315.9	354.0	394.2	424.3	448.0	459.5
55°	141.4	150.1	166.6	191.7	228.3	267.1	305.2	339.6	367.6	384.9	395.6
57.5°	107.7	114.2	125.7	150.8	183.8	219.7	252.0	286.5	308.0	320.3	327.4
60°	81.9	86.9	99.1	118.5	148.6	179.5	206.8	232.7	249.9	259.9	267.1
62.5°	61.7	67.5	76.1	92.6	115.6	140.7	163.7	183.1	197.5	203.9	209.0
65°	42.4	46.7	53.1	66.1	85.4	103.4	121.4	135.7	145.1	152.2	155.1
67.5°	31.6	34.5	38.1	48.1	61.7	76.1	88.3	98.4	108.4	111.3	116.3
70°	23.7	25.9	29.4	36.6	44.5	54.6	64.6	70.4	77.6	82.6	84.0
72.5°	15.1	15.8	19.4	23.7	30.1	36.6	43.1	48.1	52.4	55.3	56.7
75°	8.6	12.9	12.9	17.2	21.5	24.4	28.7	32.3	34.5	36.6	36.6
77.5°	5.7	7.9	8.6	10.8	12.9	16.5	20.1	22.3	24.4	25.1	25.1
80°	5.0	5.7	5.7	7.9	9.3	12.2	14.4	15.1	16.5	17.2	18.7
82.5°	2.2	2.9	3.6	5.7	6.5	6.5	8.6	9.3	10.8	11.5	11.5
85°	0.7	1.4	1.4	2.2	3.6	4.3	5.0	5.7	6.5	6.5	7.2
87.5°	0.7	0.7	0.0	0.7	1.4	1.4	2.9	2.9	2.9	4.3	4.3
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: P245956

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1457.6	1458.3	1455.4	1454.7	1453.3	1454.0	1455.4
5°	1431.0	1431.7	1428.9	1426.0	1426.0	1425.3	1426.0
7.5°	1405.9	1406.6	1402.3	1400.9	1398.0	1398.7	1398.7
10°	1380.8	1380.8	1374.3	1373.6	1371.4	1370.7	1370.7
12.5°	1356.3	1354.2	1349.2	1346.3	1347.7	1343.4	1343.4
15°	1334.8	1331.2	1324.8	1322.6	1319.0	1317.6	1317.6
17.5°	1312.5	1309.7	1303.9	1299.6	1295.3	1294.6	1295.3
20°	1291.0	1288.1	1281.0	1278.1	1274.5	1274.5	1273.1
22.5°	1269.5	1266.6	1260.1	1258.0	1253.0	1253.0	1253.7
25°	1247.2	1245.0	1237.9	1236.4	1235.7	1232.8	1234.3
27.5°	1217.1	1215.6	1209.9	1207.7	1204.9	1204.1	1205.6
30°	1161.8	1159.6	1155.3	1153.2	1148.1	1148.8	1150.3
32.5°	1092.8	1090.0	1084.2	1082.1	1077.8	1076.3	1077.0
35°	1006.7	1004.5	999.5	999.5	995.2	993.7	995.2
37.5°	919.1	921.2	919.1	921.2	919.1	918.3	919.1
40°	836.5	844.4	845.8	853.7	850.9	855.2	854.5
42.5°	757.5	770.4	775.5	781.9	780.5	783.4	785.5
45°	677.8	688.6	693.6	697.9	698.6	700.1	700.8
47.5°	602.4	611.0	611.7	616.8	616.1	616.1	618.2
50°	532.1	537.8	539.2	542.8	540.0	538.5	539.2
52.5°	466.7	472.5	471.0	472.5	468.9	467.4	468.1
55°	399.9	402.8	402.8	402.8	398.5	398.5	398.5
57.5°	331.7	332.5	331.0	331.7	331.0	326.7	326.0
60°	269.3	269.3	268.5	269.3	267.1	265.0	265.0
62.5°	210.4	211.8	214.7	211.8	210.4	211.8	209.7
65°	157.3	160.1	159.4	160.8	160.1	160.1	158.7
67.5°	118.5	119.2	119.9	120.6	120.6	120.6	120.6
70°	86.9	89.0	88.3	88.3	88.3	88.3	92.6
72.5°	58.2	61.0	60.3	61.7	61.7	63.2	61.7
75°	39.5	42.4	40.9	43.1	42.4	40.9	44.5
77.5°	26.6	28.0	28.7	29.4	28.7	28.0	28.7
80°	18.7	20.1	19.4	20.1	20.1	20.1	20.8
82.5°	11.5	13.7	12.9	13.7	12.9	13.7	13.7
85°	7.9	8.6	7.2	8.6	7.9	7.9	9.3
87.5°	5.0	4.3	4.3	5.0	4.3	5.0	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)