

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: P245457

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30827 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2965.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

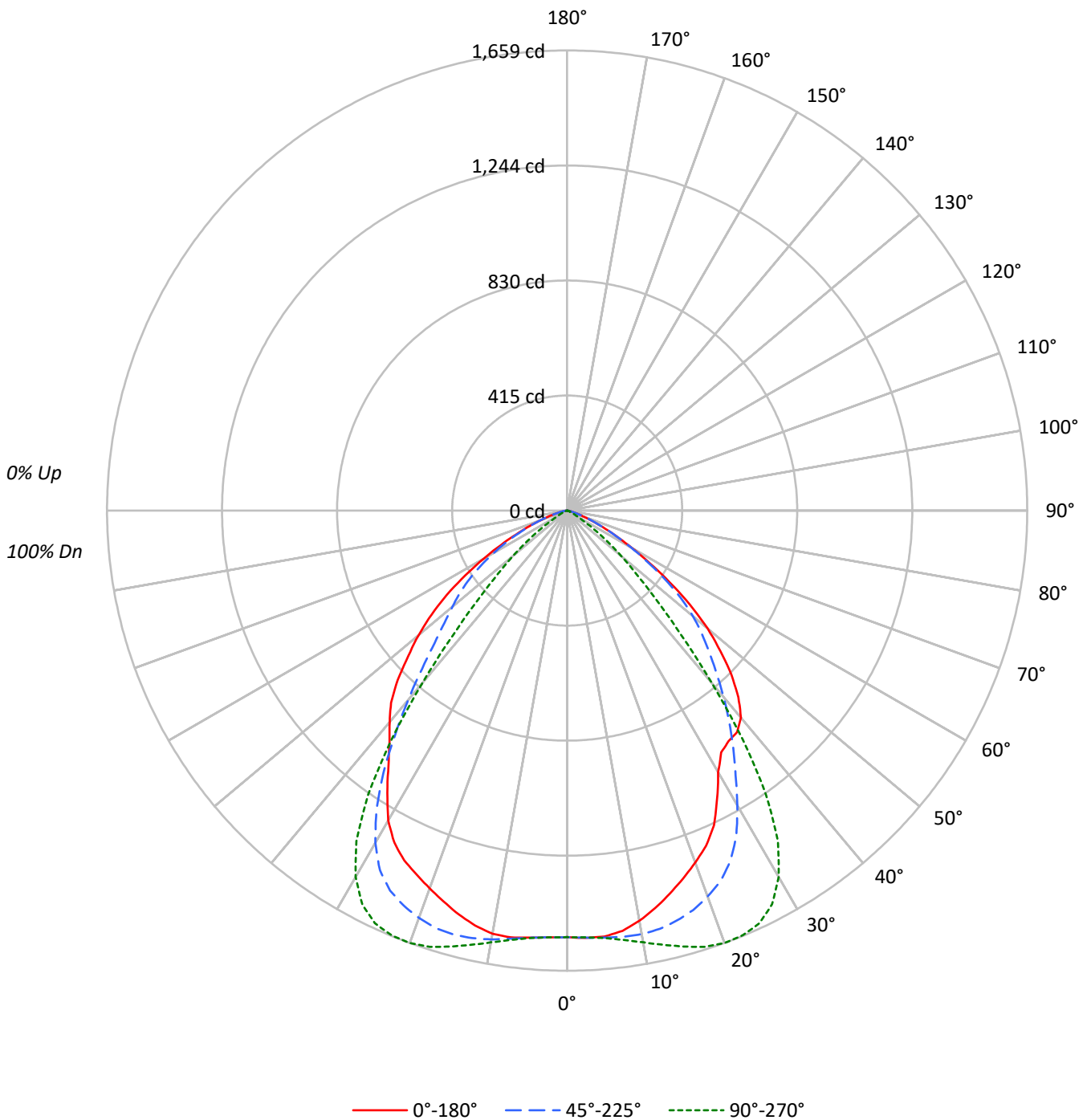
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	47429	47429	47429
5°	47713	47889	47840
10°	47012	49492	48521
15°	45639	51944	48138
20°	44314	54441	47556
25°	42612	55834	47334
30°	38779	54304	45929
35°	38201	47055	42259
40°	39240	32634	40061
45°	36531	19724	37670
50°	31686	12180	33567
55°	24316	6365	28488
60°	16565	2566	21499
65°	10303	1313	14834
70°	5590	811	9052
75°	2919	393	5349
80°	1314	444	2895
85°	885	283	2618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	5.0
10°-20°	438.2	14.8
20°-30°	668.5	22.5
30°-40°	697.6	23.5
40°-50°	524.0	17.7
50°-60°	322.4	10.9
60°-70°	131.2	4.4
70°-80°	30.9	1.0
80°-90°	4.3	0.1
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°	1254.6	42.3
0°-40°	1952.2	65.8
0°-60°	2798.6	94.4
0°-90°	2965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1538	1538	1538	1538	1538	
5°	1541	1546	1547	1546	1546	146
15°	1430	1530	1627	1582	1508	403
25°	1252	1393	1641	1511	1391	569
35°	1015	1043	1250	1155	1123	641
45°	838	725	452	675	864	639
55°	452	429	118	429	530	407
65°	141	143	18	192	203	147
75°	24	24	3	43	45	29
85°	2	2	1	6	7	3
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°	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1
2.5°	1542.2	1539.8	1542.2	1542.2	1543.1	1541.4	1542.2	1543.1	1541.4	1541.4	1541.4
5°	1541.4	1539.8	1541.4	1540.6	1542.2	1542.2	1543.9	1543.9	1545.5	1545.5	1547.9
7.5°	1528.3	1525.1	1528.3	1530.8	1532.4	1535.7	1539.8	1543.1	1546.3	1549.6	1553.7
10°	1501.4	1501.4	1503.9	1508.8	1513.6	1519.4	1526.7	1534.9	1543.1	1550.4	1557.7
12.5°	1467.9	1465.5	1470.4	1476.9	1484.3	1493.2	1504.7	1516.9	1530.0	1544.7	1556.1
15°	1429.6	1427.1	1432.8	1439.4	1448.3	1461.4	1475.3	1491.6	1510.4	1530.0	1548.8
17.5°	1390.4	1389.6	1395.3	1404.3	1411.6	1425.5	1443.4	1463.0	1484.3	1510.4	1534.9
20°	1350.4	1349.6	1355.3	1362.6	1372.4	1385.5	1403.4	1426.3	1451.6	1481.0	1509.6
22.5°	1308.7	1309.5	1314.4	1322.6	1330.8	1344.6	1363.4	1386.3	1414.0	1445.9	1477.7
25°	1252.4	1248.3	1254.8	1263.0	1276.9	1288.3	1306.3	1330.8	1359.3	1392.8	1430.4
27.5°	1170.7	1169.9	1175.7	1183.0	1195.2	1209.1	1228.7	1254.0	1284.2	1321.0	1357.7
30°	1089.1	1090.7	1093.2	1100.5	1108.7	1122.6	1142.2	1163.4	1192.0	1227.1	1266.3
32.5°	1033.6	1033.6	1036.9	1041.8	1047.5	1054.8	1068.7	1084.2	1106.3	1130.8	1159.3
35°	1014.8	1011.6	1014.8	1015.6	1016.4	1018.1	1020.5	1025.4	1032.8	1043.4	1054.0
37.5°	1006.7	1004.2	1004.2	1000.9	996.9	992.0	985.4	978.1	969.9	959.3	951.1
40°	974.8	973.2	971.5	968.3	959.3	949.5	938.9	921.7	903.0	876.8	850.7
42.5°	913.6	912.0	911.1	904.6	896.4	885.0	872.8	854.8	831.1	797.6	760.1
45°	837.7	834.4	831.9	826.2	820.5	810.7	799.3	782.9	759.3	725.0	680.1
47.5°	749.5	747.8	747.0	744.6	738.9	733.1	725.8	712.7	691.5	658.8	612.3
50°	660.5	657.2	658.8	658.0	655.6	651.5	646.6	637.6	621.3	591.9	549.5
52.5°	558.4	558.4	557.6	560.1	560.9	560.1	560.9	551.1	537.2	515.2	479.2
55°	452.3	452.3	454.7	458.0	461.3	462.1	461.3	457.2	447.4	429.4	397.6
57.5°	352.7	351.1	356.0	360.9	364.1	367.4	364.9	361.7	356.0	341.3	316.8
60°	268.6	268.6	271.9	275.1	278.4	281.7	280.9	280.0	275.1	265.3	245.8
62.5°	197.6	198.4	198.4	200.8	204.1	207.4	209.8	207.4	204.9	198.4	185.3
65°	141.2	140.4	141.2	143.7	146.1	149.4	151.0	150.2	147.8	142.9	133.1
67.5°	94.7	93.9	97.1	98.0	99.6	102.9	102.1	102.9	102.1	98.0	89.8
70°	62.0	60.4	62.0	61.2	63.7	64.5	66.1	66.9	66.1	63.7	61.2
72.5°	38.4	37.6	38.4	39.2	40.0	40.8	42.5	42.5	41.6	40.0	36.7
75°	24.5	22.0	22.9	21.2	22.9	22.9	24.5	25.3	24.5	24.5	22.9
77.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	15.5	16.3	14.7	13.9
80°	7.4	7.4	8.2	8.2	8.2	9.0	8.2	8.2	8.2	9.0	6.5
82.5°	5.7	4.9	4.9	4.9	5.7	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.5	3.3	2.5	1.6	2.5	2.5	3.3	2.5	2.5	2.5	3.3
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.6	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1
2.5°	1542.2	1540.6	1540.6	1539.8	1541.4	1539.8	1540.6	1539.8	1539.8	1541.4	1539.8
5°	1547.9	1548.8	1547.1	1546.3	1548.8	1548.8	1548.8	1547.1	1547.1	1547.9	1547.1
7.5°	1556.1	1557.7	1558.6	1559.4	1561.0	1561.8	1561.8	1561.0	1560.2	1562.6	1559.4
10°	1565.1	1567.5	1572.4	1574.9	1579.0	1579.0	1580.6	1580.6	1579.0	1580.6	1579.8
12.5°	1561.8	1576.5	1584.7	1590.4	1596.1	1601.0	1602.6	1603.5	1602.6	1605.9	1602.6
15°	1567.5	1579.8	1592.9	1602.6	1613.2	1619.0	1620.6	1627.1	1628.8	1629.6	1624.7
17.5°	1558.6	1580.6	1594.5	1609.2	1624.7	1635.3	1645.1	1649.2	1650.0	1651.6	1645.1
20°	1538.1	1562.6	1583.9	1605.1	1623.1	1639.4	1647.5	1659.0	1655.7	1662.3	1653.3
22.5°	1510.4	1538.1	1565.1	1592.9	1611.6	1631.2	1648.4	1656.5	1660.6	1660.6	1650.8
25°	1466.3	1499.0	1528.3	1556.9	1585.5	1609.2	1628.8	1641.0	1643.5	1642.7	1631.2
27.5°	1397.7	1432.8	1467.1	1499.8	1534.9	1562.6	1585.5	1600.2	1604.3	1604.3	1592.0
30°	1303.0	1340.6	1374.0	1413.2	1449.2	1480.2	1512.0	1525.1	1532.4	1532.4	1518.6
32.5°	1190.3	1222.2	1253.2	1291.6	1330.8	1365.9	1396.1	1414.0	1423.0	1422.2	1410.0
35°	1067.9	1083.4	1107.1	1135.6	1170.7	1203.4	1232.8	1250.0	1265.5	1264.6	1253.2
37.5°	945.4	941.3	943.8	954.4	976.4	999.3	1022.2	1038.5	1051.5	1057.3	1054.8
40°	825.4	804.2	783.8	776.4	778.0	786.2	798.5	810.7	825.4	832.8	836.0
42.5°	717.6	681.7	645.8	618.9	603.3	598.4	604.2	608.2	617.2	627.8	638.5
45°	631.1	582.9	535.6	493.9	467.8	452.3	449.0	452.3	457.2	467.8	481.7
47.5°	560.1	503.7	450.7	404.1	365.8	345.4	339.6	338.0	342.9	352.7	371.5
50°	497.2	440.9	382.1	328.2	288.2	265.3	257.2	253.9	259.6	267.0	284.1
52.5°	428.6	373.1	312.7	260.4	218.8	195.1	186.1	181.2	184.5	194.3	211.5
55°	354.3	302.9	248.2	194.3	154.3	132.3	121.6	118.4	121.6	132.3	149.4
57.5°	280.0	236.8	191.0	140.4	104.5	82.5	71.8	68.6	77.6	81.6	99.6
60°	218.8	183.7	144.5	102.9	71.8	54.7	44.1	41.6	45.7	53.1	67.8
62.5°	164.1	142.1	111.0	73.5	53.1	35.1	29.4	26.9	29.4	35.1	46.5
65°	119.2	102.1	77.6	53.9	35.9	26.1	19.6	18.0	20.4	24.5	34.3
67.5°	81.6	68.6	53.9	37.6	24.5	16.3	13.9	13.9	14.7	18.0	25.3
70°	53.1	44.9	34.3	24.5	16.3	12.2	10.6	9.0	10.6	13.1	17.1
72.5°	33.5	28.6	22.0	17.1	12.2	9.0	7.4	6.5	8.2	9.8	13.1
75°	20.4	15.5	11.4	9.0	6.5	6.5	6.5	3.3	4.1	6.5	8.2
77.5°	12.2	10.6	9.0	7.4	5.7	3.3	3.3	3.3	4.1	4.9	7.4
80°	6.5	5.7	4.1	4.1	3.3	2.5	3.3	2.5	1.6	4.1	4.9
82.5°	4.1	3.3	3.3	3.3	4.1	1.6	2.5	1.6	2.5	3.3	2.5
85°	2.5	2.5	2.5	1.6	4.1	1.6	1.6	0.8	0.8	1.6	1.6
87.5°	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1
2.5°	1540.6	1539.8	1540.6	1539.8	1539.8	1539.8	1540.6	1540.6	1539.8	1539.8	1541.4
5°	1547.1	1547.1	1547.1	1546.3	1545.5	1545.5	1547.1	1547.1	1544.7	1547.1	1547.1
7.5°	1561.0	1558.6	1561.0	1557.7	1556.1	1556.9	1557.7	1556.1	1554.5	1555.3	1555.3
10°	1579.0	1576.5	1576.5	1574.1	1571.6	1570.0	1568.4	1564.3	1560.2	1559.4	1556.1
12.5°	1600.2	1596.1	1593.7	1588.8	1584.7	1579.0	1574.1	1567.5	1559.4	1553.7	1547.9
15°	1621.4	1614.9	1609.2	1601.0	1592.0	1582.2	1571.6	1561.0	1547.9	1536.5	1526.7
17.5°	1638.6	1629.6	1619.0	1605.9	1592.9	1578.2	1562.6	1547.1	1528.3	1513.6	1502.2
20°	1644.3	1631.2	1617.3	1600.2	1583.0	1562.6	1543.1	1522.6	1501.4	1485.9	1472.8
22.5°	1636.9	1621.4	1604.3	1586.3	1563.4	1541.4	1518.6	1494.9	1476.1	1454.9	1442.6
25°	1616.5	1597.7	1579.0	1557.7	1535.7	1511.2	1486.7	1462.2	1439.4	1427.9	1412.4
27.5°	1574.9	1554.5	1534.1	1512.0	1486.7	1462.2	1436.9	1413.2	1393.6	1378.1	1369.2
30°	1501.4	1477.7	1454.1	1430.4	1408.3	1383.0	1359.3	1339.7	1320.2	1307.9	1298.9
32.5°	1388.7	1367.5	1343.8	1321.0	1300.6	1279.3	1259.7	1242.6	1228.7	1220.5	1214.0
35°	1236.9	1215.7	1197.7	1181.4	1164.2	1155.2	1143.0	1133.2	1127.5	1124.2	1123.4
37.5°	1045.8	1033.6	1027.9	1024.6	1021.3	1018.9	1020.5	1024.6	1027.9	1033.6	1040.1
40°	841.7	852.3	855.6	867.0	877.7	891.5	907.1	925.0	939.7	958.5	971.5
42.5°	655.6	675.2	698.0	722.5	748.7	774.0	805.0	833.6	859.7	883.4	903.8
45°	503.7	533.9	568.2	603.3	638.5	675.2	712.7	747.8	778.9	804.2	825.4
47.5°	392.7	426.2	470.3	513.5	556.0	599.3	640.9	677.6	703.8	728.2	747.0
50°	311.1	349.4	397.6	447.4	493.9	539.6	583.7	618.0	644.2	663.8	677.6
52.5°	240.8	286.6	335.5	387.8	437.6	487.4	528.2	560.1	581.3	598.4	609.0
55°	179.6	224.5	276.8	330.7	381.3	429.4	467.8	495.6	514.4	524.1	529.9
57.5°	129.8	170.6	222.9	276.8	322.5	368.2	399.2	424.5	435.2	440.9	443.3
60°	94.7	132.3	178.8	225.3	268.6	305.3	332.3	349.4	357.6	360.9	360.0
62.5°	69.4	102.1	142.1	181.2	216.3	246.6	267.8	279.2	283.3	284.9	282.5
65°	53.1	78.4	112.7	142.9	169.8	191.9	207.4	214.7	217.2	216.3	214.7
67.5°	39.2	58.8	84.1	107.0	126.6	143.7	151.9	158.4	160.0	157.6	155.1
70°	27.8	43.3	61.2	76.7	91.4	101.2	110.2	111.0	111.0	110.2	108.6
72.5°	19.6	30.2	41.6	52.3	61.2	68.6	71.8	74.3	73.5	72.7	71.0
75°	13.1	18.8	30.2	32.7	40.8	43.3	46.5	46.5	47.3	44.9	44.9
77.5°	8.2	13.1	18.0	21.2	24.5	27.8	29.4	29.4	30.2	29.4	29.4
80°	4.9	8.2	9.8	14.7	14.7	17.1	18.0	18.8	17.1	19.6	17.1
82.5°	3.3	4.9	7.4	7.4	9.0	10.6	10.6	11.4	11.4	10.6	10.6
85°	2.5	3.3	4.1	4.9	4.9	5.7	4.9	4.9	5.7	6.5	5.7
87.5°	0.8	1.6	0.8	1.6	1.6	3.3	2.5	2.5	2.5	3.3	3.3
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: P245457

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1538.1	1538.1	1538.1	1538.1
2.5°	1539.8	1540.6	1539.8	1539.8
5°	1547.1	1546.3	1547.1	1545.5
7.5°	1552.8	1552.8	1552.0	1552.0
10°	1552.8	1549.6	1549.6	1549.6
12.5°	1540.6	1536.5	1534.1	1532.4
15°	1519.4	1512.0	1508.8	1507.9
17.5°	1491.6	1485.1	1481.0	1478.5
20°	1459.8	1453.2	1448.3	1449.2
22.5°	1432.0	1424.7	1421.4	1419.8
25°	1404.3	1395.3	1392.8	1391.2
27.5°	1359.3	1354.5	1352.0	1349.6
30°	1290.8	1288.3	1284.2	1289.9
32.5°	1211.6	1207.5	1204.2	1206.7
35°	1124.2	1121.8	1124.2	1122.6
37.5°	1044.2	1046.7	1049.9	1051.5
40°	981.3	990.3	993.6	995.2
42.5°	918.5	929.1	935.6	939.7
45°	840.9	851.5	858.9	863.8
47.5°	760.9	769.9	777.2	776.4
50°	688.3	693.1	696.4	699.7
52.5°	614.8	614.8	615.6	615.6
55°	531.5	529.9	529.0	529.9
57.5°	440.0	438.4	437.6	435.2
60°	356.8	351.9	348.6	348.6
62.5°	279.2	273.5	271.1	270.2
65°	209.8	209.0	204.1	203.3
67.5°	151.9	148.6	145.3	146.1
70°	107.0	102.1	102.1	100.4
72.5°	69.4	66.9	66.1	66.1
75°	43.3	43.3	41.6	44.9
77.5°	28.6	28.6	27.8	28.6
80°	17.1	17.1	17.1	16.3
82.5°	10.6	11.4	10.6	10.6
85°	5.7	6.5	4.9	7.4
87.5°	3.3	4.1	3.3	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)