

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P#

Luminaire Tested: **FLDSQ4C35D010 FEU4C359040 F4LC-SQLWW-H**

Issue Date: 12/13/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P#
 Test Lab: INNOVATION CENTER
 Issue Date: 12/13/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: FAIL-SAFE
 Catalog Number: FLDSQ4C35D010 FEU4C359040 F4LC-SQLWW-H
 Description: 4 INCH 3500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
 AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

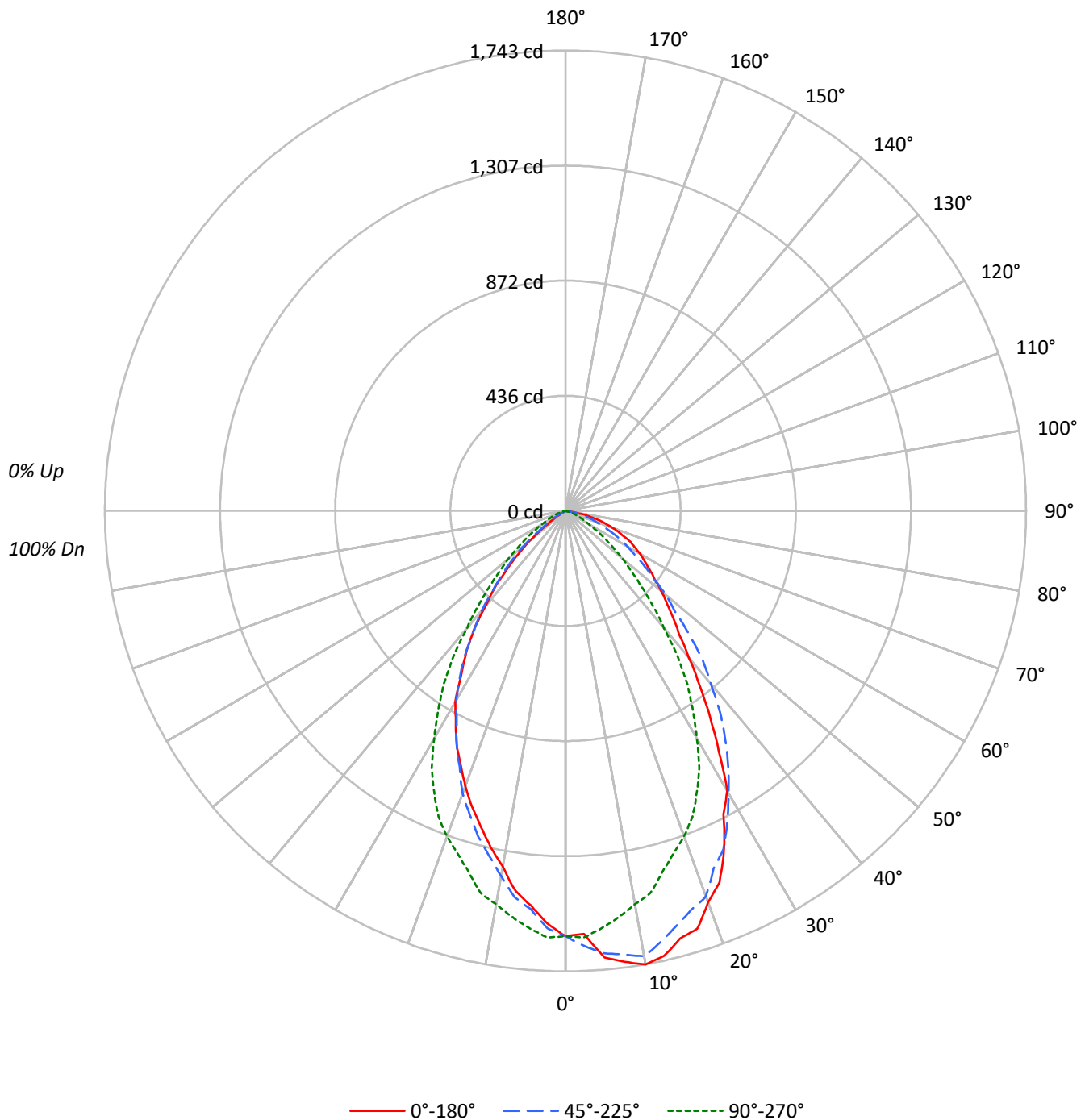
Lumens per Lamp: N/A
 Luminaire Lumens: 2308.0 lumens
 Efficiency: N/A
 Efficacy: 57.1 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 40.4
 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: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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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
RW	70	50	30	10	70	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		100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		64
5	85	75	67	62	83	74	67	62	72	66	61		70	65	60		58
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		48
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		44
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		41
10	62	51	44	40	61	51	44	40	50	44	39		49	43	39		38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155357	155357	155357
5°	164367	153529	145296
10°	170814	148112	133925
15°	167400	141358	123617
20°	161970	134605	113791
25°	151083	125169	103802
30°	136384	110781	92932
35°	112337	94834	77094
40°	91684	73194	59338
45°	78776	55592	42683
50°	71287	42316	26960
55°	65607	30533	9740
60°	62969	20861	1486
65°	60822	14110	457
70°	54448	9789	564
75°	44625	5033	0
80°	27894	2167	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	6.5
10°-20°	406.4	17.6
20°-30°	542.7	23.5
30°-40°	515.2	22.3
40°-50°	356.1	15.4
50°-60°	196.8	8.5
60°-70°	97.7	4.2
70°-80°	38.5	1.7
80°-90°	3.7	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°	1100.0	47.7
0°-40°	1615.2	70.0
0°-60°	2168.1	93.9
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1610	1610	1610	1610	1610	
5°	1697	1682	1585	1514	1500	162
15°	1676	1626	1415	1276	1238	474
25°	1419	1413	1176	975	975	647
35°	954	1054	805	662	654	597
45°	577	662	407	334	313	450
55°	390	367	182	93	58	351
65°	266	193	62	2	2	259
75°	120	73	14	0	0	128
85°	0	2	0	0	0	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1602.4	1646.8	1650.7	1646.8	1652.6	1650.7	1660.3	1650.7	1662.3	1644.9	1648.8
5°	1697.0	1679.6	1716.3	1697.0	1697.0	1695.1	1689.3	1687.3	1695.1	1670.0	1681.6
7.5°	1722.1	1747.2	1780.1	1739.5	1741.4	1741.4	1729.8	1726.0	1726.0	1679.6	1693.2
10°	1743.4	1727.9	1745.3	1729.8	1743.4	1741.4	1749.1	1724.0	1741.4	1714.4	1712.5
12.5°	1726.0	1720.2	1743.4	1718.3	1710.6	1712.5	1702.8	1697.0	1702.8	1671.9	1670.0
15°	1675.8	1681.6	1716.3	1689.3	1685.4	1681.6	1670.0	1650.7	1666.2	1623.7	1625.6
17.5°	1658.4	1648.8	1654.6	1631.4	1637.2	1633.3	1631.4	1614.0	1610.1	1583.1	1583.1
20°	1577.4	1598.5	1598.5	1583.1	1583.1	1581.2	1556.1	1571.5	1554.1	1546.4	1554.1
22.5°	1521.3	1523.3	1523.3	1509.7	1511.7	1504.0	1490.5	1480.8	1490.5	1480.8	1465.3
25°	1419.1	1422.9	1446.1	1420.9	1417.1	1424.8	1413.2	1407.4	1405.5	1382.4	1413.2
27.5°	1295.5	1334.0	1332.1	1322.5	1334.0	1318.6	1312.9	1314.7	1320.6	1318.6	1326.3
30°	1224.1	1229.8	1235.6	1227.9	1229.8	1224.1	1224.1	1225.9	1241.4	1235.6	1233.7
32.5°	1079.2	1098.5	1114.0	1114.0	1115.9	1121.7	1119.8	1160.3	1170.0	1150.7	1146.8
35°	953.7	967.3	980.7	982.7	1007.8	1009.7	1011.7	1023.2	1050.2	1056.1	1054.1
37.5°	834.1	847.5	851.4	868.8	882.3	895.8	911.3	926.7	949.9	969.2	959.5
40°	727.9	733.6	743.3	751.0	778.0	778.0	785.7	816.7	841.8	857.2	855.2
42.5°	639.1	641.0	648.7	662.2	687.3	681.5	687.3	708.6	745.2	747.2	768.4
45°	577.3	575.3	581.1	583.0	598.5	606.2	610.1	625.5	656.4	660.2	662.2
47.5°	521.3	519.3	529.0	532.9	538.6	546.3	546.3	548.3	559.9	569.6	561.8
50°	474.9	474.9	474.9	478.8	488.5	486.5	488.5	496.2	501.9	498.1	496.2
52.5°	424.7	432.4	438.2	440.2	442.1	442.1	444.1	440.2	438.2	432.4	420.9
55°	390.0	397.7	397.7	397.7	397.7	405.4	395.8	397.7	397.7	382.3	366.8
57.5°	355.3	363.0	368.7	361.0	368.7	361.0	357.2	355.3	351.3	335.9	312.8
60°	326.3	330.2	328.2	326.3	330.2	324.3	320.5	312.8	308.9	287.7	272.2
62.5°	293.5	295.4	297.3	293.5	289.6	287.7	279.9	268.4	260.6	243.3	229.7
65°	266.4	260.6	258.7	256.8	252.9	247.1	241.4	227.8	222.0	206.6	193.0
67.5°	225.9	224.0	227.8	222.0	212.4	212.4	206.6	195.0	181.5	171.9	158.3
70°	193.0	191.1	187.3	181.5	179.6	171.9	171.9	158.3	154.5	137.1	125.5
72.5°	158.3	158.3	152.5	146.7	140.9	137.1	135.2	125.5	119.7	110.1	100.4
75°	119.7	119.7	117.8	111.9	108.1	104.2	102.3	94.6	88.8	79.2	73.4
77.5°	84.9	84.9	77.2	73.4	75.3	71.4	67.5	65.7	63.7	57.9	50.2
80°	50.2	48.3	42.5	44.4	42.5	42.5	40.5	38.6	34.7	30.9	27.0
82.5°	13.5	15.4	15.4	15.4	17.4	13.5	13.5	13.5	15.4	15.4	9.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
87.5°	2.0	3.9	7.7	7.7	7.7	7.7	7.7	5.8	5.8	5.8	3.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1629.5	1627.5	1629.5	1615.9	1646.8	1623.7	1619.8	1615.9	1629.5	1615.9	1596.6
5°	1664.2	1644.9	1639.1	1633.3	1650.7	1623.7	1617.9	1619.8	1610.1	1585.1	1587.0
7.5°	1675.8	1658.4	1641.0	1604.4	1619.8	1614.0	1598.5	1587.0	1571.5	1550.3	1546.4
10°	1679.6	1660.3	1635.2	1623.7	1600.5	1592.8	1587.0	1567.7	1548.4	1511.7	1502.0
12.5°	1668.1	1644.9	1614.0	1604.4	1587.0	1561.9	1548.4	1529.0	1511.7	1482.7	1461.5
15°	1617.9	1598.5	1588.9	1556.1	1548.4	1532.9	1505.9	1478.9	1453.8	1415.1	1403.5
17.5°	1560.0	1552.3	1542.6	1517.5	1515.6	1500.1	1475.0	1451.8	1419.1	1359.1	1339.9
20°	1500.1	1500.1	1469.2	1459.6	1478.9	1447.9	1428.7	1407.4	1339.9	1310.9	1276.2
22.5°	1455.7	1434.5	1417.1	1401.7	1403.5	1384.3	1357.3	1314.7	1289.6	1254.9	1214.4
25°	1368.8	1376.5	1338.0	1332.1	1338.0	1293.5	1280.0	1245.2	1208.5	1175.7	1144.9
27.5°	1314.7	1293.5	1268.5	1247.2	1247.2	1229.8	1191.2	1183.5	1127.5	1096.6	1058.0
30°	1233.7	1218.2	1197.0	1166.1	1162.3	1148.7	1117.9	1098.5	1040.6	994.3	973.0
32.5°	1131.3	1125.6	1108.2	1073.5	1061.9	1046.4	1007.8	975.0	948.0	895.8	870.7
35°	1058.0	1036.8	1000.1	971.1	961.4	934.4	903.5	880.4	851.4	805.1	772.3
37.5°	948.0	926.7	891.9	857.2	857.2	830.2	787.7	764.6	724.0	696.9	669.9
40°	851.4	824.4	789.7	749.1	743.3	704.6	687.3	648.7	623.6	581.1	577.3
42.5°	743.3	718.2	687.3	656.4	633.2	614.0	569.6	540.6	513.6	492.3	486.5
45°	644.8	612.0	585.0	546.3	523.2	500.0	471.1	451.8	430.5	407.4	393.8
47.5°	559.9	532.9	494.2	459.5	436.4	424.7	391.9	370.7	353.3	337.9	328.2
50°	473.0	440.2	419.0	380.3	376.5	349.4	322.4	305.0	295.4	281.9	268.4
52.5°	407.4	376.5	347.5	318.6	303.1	293.5	268.4	251.0	237.5	227.8	220.1
55°	343.6	316.6	293.5	264.5	254.8	241.4	212.4	208.5	195.0	181.5	171.9
57.5°	295.4	270.3	243.3	224.0	206.6	197.0	173.7	158.3	150.6	139.0	129.3
60°	251.0	224.0	202.7	179.6	171.9	158.3	140.9	127.5	117.8	108.1	98.5
62.5°	210.4	187.3	164.1	144.8	133.2	125.5	111.9	100.4	90.8	83.1	75.3
65°	173.7	152.5	133.2	113.9	108.1	98.5	88.8	79.2	71.4	61.8	54.1
67.5°	142.9	123.6	104.2	90.8	84.9	81.1	69.5	59.8	54.1	48.3	40.5
70°	111.9	98.5	83.1	71.4	65.7	59.8	52.1	46.4	38.6	34.7	29.0
72.5°	86.9	75.3	61.8	52.1	48.3	44.4	36.7	30.9	27.0	23.1	19.3
75°	61.8	52.1	44.4	34.7	32.8	30.9	25.1	21.3	17.4	13.5	11.6
77.5°	42.5	34.7	27.0	23.1	21.3	17.4	15.4	11.6	9.7	7.7	5.8
80°	23.1	17.4	13.5	11.6	9.7	7.7	7.7	5.8	3.9	3.9	2.0
82.5°	7.7	5.8	3.9	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1608.2	1587.0	1592.8	1592.8	1588.9	1588.9	1585.1	1579.3	1581.2	1569.6	1544.5
5°	1590.8	1563.8	1560.0	1563.8	1548.4	1544.5	1536.8	1548.4	1513.6	1527.1	1511.7
7.5°	1540.7	1515.6	1509.7	1523.3	1504.0	1492.3	1490.5	1505.9	1475.0	1459.6	1442.2
10°	1484.6	1475.0	1457.6	1447.9	1442.2	1444.1	1428.7	1409.4	1403.5	1399.7	1384.3
12.5°	1434.5	1413.2	1397.8	1386.2	1382.4	1382.4	1357.3	1353.4	1336.0	1332.1	1309.0
15°	1374.6	1349.5	1339.9	1324.4	1310.9	1318.6	1289.6	1281.9	1276.2	1251.1	1254.9
17.5°	1322.5	1295.5	1272.3	1262.6	1251.1	1239.5	1212.4	1218.2	1204.7	1204.7	1170.0
20°	1254.9	1225.9	1208.5	1189.3	1189.3	1173.8	1154.5	1156.4	1139.0	1121.7	1090.8
22.5°	1183.5	1152.6	1131.3	1123.6	1104.3	1100.5	1077.3	1071.5	1048.3	1050.2	1023.2
25°	1108.2	1077.3	1048.3	1050.2	1032.9	1025.2	1011.7	984.7	975.0	963.4	955.7
27.5°	1019.4	998.1	973.0	971.1	938.3	940.2	922.9	915.1	891.9	897.8	880.4
30°	938.3	907.4	884.2	878.5	864.9	861.1	834.1	822.4	826.3	810.8	801.2
32.5°	855.2	809.0	799.3	787.7	780.0	770.3	751.0	758.7	741.3	745.2	729.8
35°	745.2	725.9	700.8	700.8	693.1	685.4	671.9	679.6	662.2	654.5	639.1
37.5°	652.5	635.2	610.1	617.8	604.3	592.7	581.1	583.0	567.6	565.7	550.2
40°	552.2	542.5	525.2	525.2	515.5	515.5	509.7	503.9	494.2	482.6	465.3
42.5°	457.5	449.8	442.1	444.1	430.5	442.1	426.7	436.4	405.4	403.5	391.9
45°	388.0	370.7	372.6	364.9	357.2	361.0	347.5	351.3	334.0	330.2	318.6
47.5°	314.7	308.9	297.3	293.5	293.5	287.7	281.9	279.9	272.2	262.5	247.1
50°	258.7	237.5	233.6	227.8	224.0	224.0	216.3	204.7	206.6	197.0	181.5
52.5°	202.7	185.3	177.6	175.7	168.0	164.1	154.5	146.7	140.9	137.1	127.5
55°	156.3	140.9	131.3	131.3	119.7	119.7	106.2	100.4	92.7	84.9	79.2
57.5°	117.8	110.1	100.4	92.7	88.8	79.2	71.4	61.8	56.0	44.4	36.7
60°	88.8	81.1	71.4	65.7	61.8	52.1	42.5	34.7	21.3	17.4	15.4
62.5°	65.7	57.9	48.3	44.4	40.5	32.8	23.1	11.6	5.8	5.8	5.8
65°	48.3	38.6	30.9	27.0	23.1	17.4	7.7	3.9	2.0	2.0	2.0
67.5°	32.8	25.1	17.4	15.4	11.6	5.8	2.0	2.0	2.0	2.0	2.0
70°	21.3	15.4	7.7	5.8	3.9	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	13.5	7.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2.0	2.0	2.0
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: P#

CATALOG NUMBER: FLDSQ4C35D010 FEU4C359040 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1571.5	1558.0	1565.7	1548.4	1556.1	1569.6	1560.0	1563.8
5°	1517.5	1509.7	1500.1	1475.0	1494.3	1509.7	1502.0	1500.1
7.5°	1459.6	1432.5	1446.1	1438.3	1434.5	1449.9	1432.5	1451.8
10°	1399.7	1380.4	1378.5	1365.0	1365.0	1376.5	1378.5	1366.9
12.5°	1310.9	1301.3	1301.3	1299.3	1297.3	1309.0	1310.9	1305.1
15°	1247.2	1243.3	1233.7	1231.8	1220.2	1237.5	1239.5	1237.5
17.5°	1170.0	1171.9	1162.3	1162.3	1170.0	1175.7	1160.3	1175.7
20°	1117.9	1108.2	1104.3	1086.9	1096.6	1106.3	1106.3	1108.2
22.5°	1042.5	1027.1	1032.9	1023.2	1017.4	1031.0	1031.0	1036.8
25°	957.6	957.6	961.4	955.7	959.5	967.3	961.4	975.0
27.5°	876.5	884.2	884.2	876.5	880.4	903.5	913.2	897.8
30°	801.2	803.1	809.0	805.1	816.7	824.4	822.4	834.1
32.5°	716.3	725.9	729.8	724.0	727.9	745.2	735.6	733.6
35°	650.6	633.2	631.4	633.2	641.0	644.8	641.0	654.5
37.5°	556.0	550.2	542.5	544.4	550.2	558.0	561.8	571.4
40°	465.3	457.5	457.5	455.6	449.8	471.1	471.1	471.1
42.5°	386.1	384.2	374.6	374.6	382.3	388.0	384.2	397.7
45°	316.6	308.9	303.1	303.1	308.9	308.9	314.7	312.8
47.5°	249.1	241.4	243.3	237.5	243.3	251.0	241.4	243.3
50°	187.3	187.3	183.4	187.3	185.3	187.3	183.4	179.6
52.5°	127.5	144.8	146.7	139.0	121.6	106.2	96.5	104.2
55°	73.4	65.7	65.7	63.7	59.8	57.9	52.1	57.9
57.5°	36.7	32.8	32.8	32.8	30.9	29.0	25.1	25.1
60°	15.4	13.5	13.5	11.6	9.7	7.7	5.8	7.7
62.5°	5.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)