

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: METALUX

Report Number: P328426

Luminaire Tested: **24CGT5535C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( IDL-RB2A40KL1-D30W0XL)  
Test Lab: ETA Testing Technology Co., Ltd.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGT5535C  
Description: 5500 LUMEN, 2X4 CGT LED TROFFER WITH 3500 CCT LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

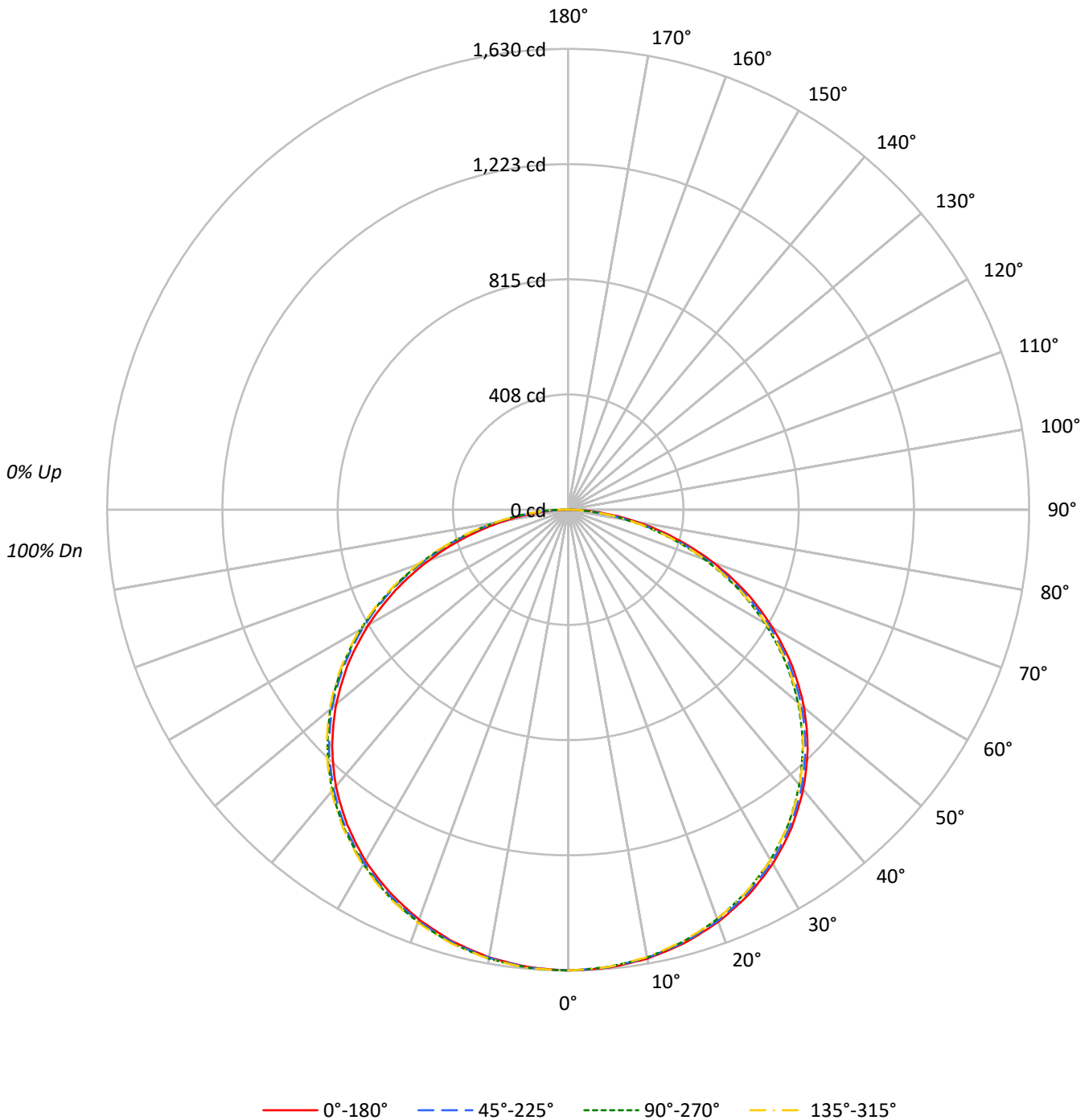
Lumens per Lamp: N/A  
Luminaire Lumens: 5139.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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



TEST NUMBER: P328426  
CATALOG NUMBER: 24CGT5535C

### Luminous Intensity Polar Plot





TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	90°	180°	270°
0°	2193	2193	2193	2193
5°	2196	2192	2193	2196
10°	2203	2197	2197	2204
15°	2211	2201	2202	2211
20°	2221	2206	2209	2223
25°	2234	2214	2217	2236
30°	2247	2222	2228	2251
35°	2260	2230	2236	2265
40°	2271	2233	2244	2281
45°	2278	2232	2246	2291
50°	2279	2220	2242	2298
55°	2270	2199	2227	2295
60°	2245	2160	2195	2281
65°	2214	2112	2142	2251
70°	2148	2016	2061	2198
75°	2043	1871	1943	2120
80°	1892	1654	1768	2020
85°	1680	1269	1447	1908



TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	3.0
10°-20°	447.4	8.7
20°-30°	691.6	13.5
30°-40°	856.9	16.7
40°-50°	917.5	17.9
50°-60°	857.3	16.7
60°-70°	678.4	13.2
70°-80°	408.1	7.9
80°-90°	122.9	2.4
90°-100°	2.7	0.1
100°-110°	0.3	0.0
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1293.7	25.2
0°-40°	2150.5	41.8
0°-60°	3925.3	76.4
0°-90°	5134.8	99.9
90°-120°	3.3	0.1
90°-150°	4.3	0.1
90°-180°	5.0	0.1
0°-180°	5139.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1630	1630	1630	1630	1630	
5°	1626	1623	1623	1626	1626	155
15°	1587	1580	1581	1588	1587	448
25°	1505	1491	1494	1506	1505	694
35°	1376	1358	1362	1379	1376	861
45°	1197	1173	1181	1204	1197	923
55°	968	937	949	978	968	864
65°	695	663	673	707	695	686
75°	393	360	374	408	393	416
85°	109	82	94	124	109	119
90°	12	0	2	22	12	18
95°	0	0	0	0	0	3
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	1	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
5°	1625.9	1626.2	1626.2	1624.4	1624.6	1624.4	1624.5	1624.4	1624.8	1623.0	1622.9
10°	1612.2	1611.6	1610.8	1609.7	1609.7	1608.6	1608.4	1607.4	1608.3	1607.7	1606.3
15°	1587.1	1587.1	1586.2	1584.3	1583.9	1582.7	1581.6	1581.0	1580.9	1579.8	1578.4
20°	1551.2	1551.0	1550.2	1548.2	1548.0	1546.0	1545.0	1543.0	1542.4	1540.6	1540.4
25°	1504.8	1503.5	1502.8	1500.7	1499.5	1497.1	1497.2	1494.3	1493.9	1491.1	1490.0
30°	1446.5	1444.9	1444.6	1441.5	1440.8	1438.1	1436.8	1433.7	1432.7	1430.2	1428.9
35°	1376.0	1373.9	1373.6	1370.0	1369.6	1366.0	1364.4	1360.9	1360.1	1357.9	1354.7
40°	1292.7	1290.7	1290.0	1287.0	1285.4	1282.0	1279.9	1276.1	1274.4	1271.1	1269.4
45°	1197.4	1194.0	1193.5	1189.7	1189.1	1184.6	1182.7	1177.4	1175.8	1173.2	1170.9
50°	1088.8	1084.5	1084.4	1080.2	1079.4	1074.3	1072.1	1066.6	1064.6	1060.8	1059.4
55°	967.8	963.3	963.4	958.0	957.0	951.0	948.7	942.3	940.3	937.4	935.6
60°	834.2	830.2	828.9	824.1	822.6	817.1	814.2	807.2	805.5	802.8	800.9
65°	695.4	686.5	689.8	679.6	683.0	672.1	673.9	661.6	664.4	663.4	656.8
70°	545.9	535.9	538.4	528.3	531.1	520.5	521.8	510.8	512.9	512.4	506.4
75°	392.9	383.3	384.2	375.2	376.3	366.6	366.9	357.3	358.5	359.9	355.2
80°	244.2	235.7	235.3	227.0	226.9	218.5	218.8	210.4	211.9	213.5	209.8
85°	108.8	100.2	99.9	91.1	91.7	83.7	84.6	78.0	79.7	82.2	78.2
90°	12.0	14.7	0.1	1.5	0.1	0.4	0.1	8.0	0.1	0.2	8.3
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
100°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
120°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
125°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
130°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.3	0.3
135°	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.3	0.3
140°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3
145°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
150°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
170°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
175°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
5°	1622.8	1621.7	1622.7	1624.1	1623.9	1623.9	1623.0	1623.4	1623.9	1623.9	1624.3
10°	1605.9	1605.2	1605.5	1607.5	1606.5	1606.3	1606.7	1607.7	1607.8	1608.4	1608.7
15°	1578.4	1577.6	1577.5	1579.3	1580.0	1578.9	1579.4	1580.6	1582.1	1581.9	1583.2
20°	1539.5	1539.3	1540.2	1540.9	1542.1	1541.6	1542.4	1542.5	1544.3	1545.3	1546.6
25°	1490.0	1489.5	1490.6	1491.8	1492.9	1492.4	1493.4	1493.5	1496.5	1497.3	1499.1
30°	1430.1	1428.6	1430.2	1430.4	1432.5	1431.3	1433.2	1434.1	1436.8	1438.0	1440.4
35°	1356.3	1355.0	1357.2	1358.2	1360.0	1360.0	1361.5	1361.5	1365.3	1367.1	1369.4
40°	1270.8	1269.7	1273.1	1272.8	1274.9	1274.9	1277.2	1277.7	1281.5	1283.4	1287.1
45°	1171.8	1172.8	1175.1	1175.6	1177.5	1177.8	1180.6	1180.6	1184.8	1187.3	1192.1
50°	1061.4	1061.9	1064.4	1064.9	1067.7	1067.7	1069.6	1071.0	1076.2	1079.0	1084.0
55°	938.1	938.7	942.5	942.7	945.5	945.3	947.9	949.3	954.9	958.0	964.4
60°	803.8	804.1	808.1	809.1	812.0	811.1	815.0	815.7	821.9	825.4	832.5
65°	665.1	660.5	669.4	664.9	673.2	668.1	676.7	672.8	684.9	684.3	694.5
70°	513.6	509.9	518.2	514.9	522.8	518.2	526.7	523.9	535.3	535.4	547.2
75°	361.2	358.5	365.4	362.7	370.1	367.4	375.0	373.8	383.8	384.5	395.2
80°	214.3	212.2	217.5	216.4	222.8	221.7	228.4	228.2	236.4	237.9	246.7
85°	82.2	79.0	83.8	81.8	87.9	87.1	94.3	93.7	102.1	102.0	110.1
90°	0.2	8.4	0.2	8.9	0.2	1.1	0.3	2.5	0.4	21.6	12.7
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.8	0.3
100°	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.6	0.4
105°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
120°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
125°	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
130°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
135°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
140°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
145°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
150°	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4
170°	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
175°	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
5°	1624.8	1625.2	1625.1	1625.6	1625.5	1626.2	1625.8	1626.7	1626.5	1626.8	1627.0
10°	1608.6	1610.1	1610.0	1611.1	1610.9	1612.9	1613.1	1612.9	1612.9	1612.4	1613.3
15°	1583.7	1584.6	1584.8	1585.7	1586.8	1587.6	1588.6	1589.0	1588.5	1589.0	1589.7
20°	1547.1	1548.7	1549.8	1550.4	1550.9	1552.5	1552.9	1553.5	1553.9	1554.2	1554.3
25°	1500.1	1502.4	1502.7	1504.4	1504.6	1506.0	1507.1	1507.0	1507.8	1508.0	1509.4
30°	1441.3	1443.6	1445.2	1446.1	1446.8	1448.7	1450.2	1449.8	1451.2	1451.1	1452.2
35°	1371.4	1374.5	1375.3	1376.9	1377.5	1378.8	1380.8	1380.4	1382.8	1381.5	1383.8
40°	1288.6	1292.5	1292.9	1295.5	1296.2	1298.4	1299.5	1300.1	1301.4	1301.2	1302.3
45°	1193.4	1198.0	1199.0	1201.6	1201.8	1203.8	1206.4	1206.4	1208.6	1206.7	1208.7
50°	1087.2	1091.6	1092.1	1095.3	1095.4	1097.8	1099.9	1100.3	1102.0	1101.7	1102.4
55°	967.7	972.4	973.3	976.6	977.4	978.4	981.7	980.9	983.8	982.4	983.6
60°	836.4	841.8	842.8	846.7	846.4	847.7	850.9	851.2	853.9	852.0	852.9
65°	695.4	704.5	702.9	709.7	706.6	707.0	713.4	709.9	716.4	711.1	714.6
70°	547.0	557.7	554.3	563.2	558.7	558.6	566.4	562.3	569.4	562.5	567.0
75°	395.9	406.1	404.0	412.6	408.9	407.8	414.5	410.9	416.7	410.8	414.3
80°	248.3	256.7	256.6	263.8	262.1	260.7	265.9	262.9	267.0	261.7	263.5
85°	110.8	119.1	119.7	126.8	125.9	123.6	128.1	125.2	128.0	123.3	124.8
90°	1.6	15.1	6.8	26.4	23.1	21.7	21.8	22.7	21.3	29.9	16.6
95°	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
110°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
120°	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.4	0.4	0.4	0.4	0.3	0.6	0.6	0.5	0.5	0.5	0.5
130°	0.4	0.4	0.4	0.4	0.3	0.6	0.5	0.5	0.5	0.5	0.5
135°	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.5
140°	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4	0.4	0.4	0.4
145°	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
155°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
160°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5





TEST NUMBER: P328426  
 CATALOG NUMBER: 24CGT5535C

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1629.8	1629.8	1629.8	1629.8
5°	1626.8	1626.1	1626.3	1625.9
10°	1613.2	1612.3	1612.3	1612.2
15°	1588.1	1588.4	1587.0	1587.1
20°	1553.8	1553.4	1551.7	1551.2
25°	1507.5	1506.9	1505.8	1504.8
30°	1450.1	1449.6	1446.9	1446.5
35°	1381.5	1380.2	1376.8	1376.0
40°	1299.5	1297.7	1294.0	1292.7
45°	1205.2	1203.4	1198.2	1197.4
50°	1098.1	1096.0	1090.5	1088.8
55°	978.9	975.7	969.7	967.8
60°	846.9	843.7	837.1	834.2
65°	705.9	705.4	695.0	695.4
70°	556.4	557.5	545.4	545.9
75°	404.6	404.3	393.4	392.9
80°	256.0	255.0	246.0	244.2
85°	118.2	117.7	109.6	108.8
90°	5.1	14.7	1.3	12.0
95°	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.2
105°	0.2	0.2	0.2	0.2
110°	0.3	0.3	0.3	0.3
115°	0.4	0.4	0.4	0.4
120°	0.5	0.5	0.5	0.5
125°	0.5	0.5	0.5	0.5
130°	0.5	0.5	0.5	0.5
135°	0.5	0.5	0.6	0.5
140°	0.4	0.5	0.5	0.5
145°	0.4	0.4	0.4	0.4
150°	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4
175°	0.5	0.4	0.4	0.4
180°	0.5	0.5	0.5	0.5

(END OF REPORT)