

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: NEO-RAY

Report Number: P333334

Luminaire Tested: **S125DIP-S1270D1205U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333334  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S1270D1205U835-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9743.3 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

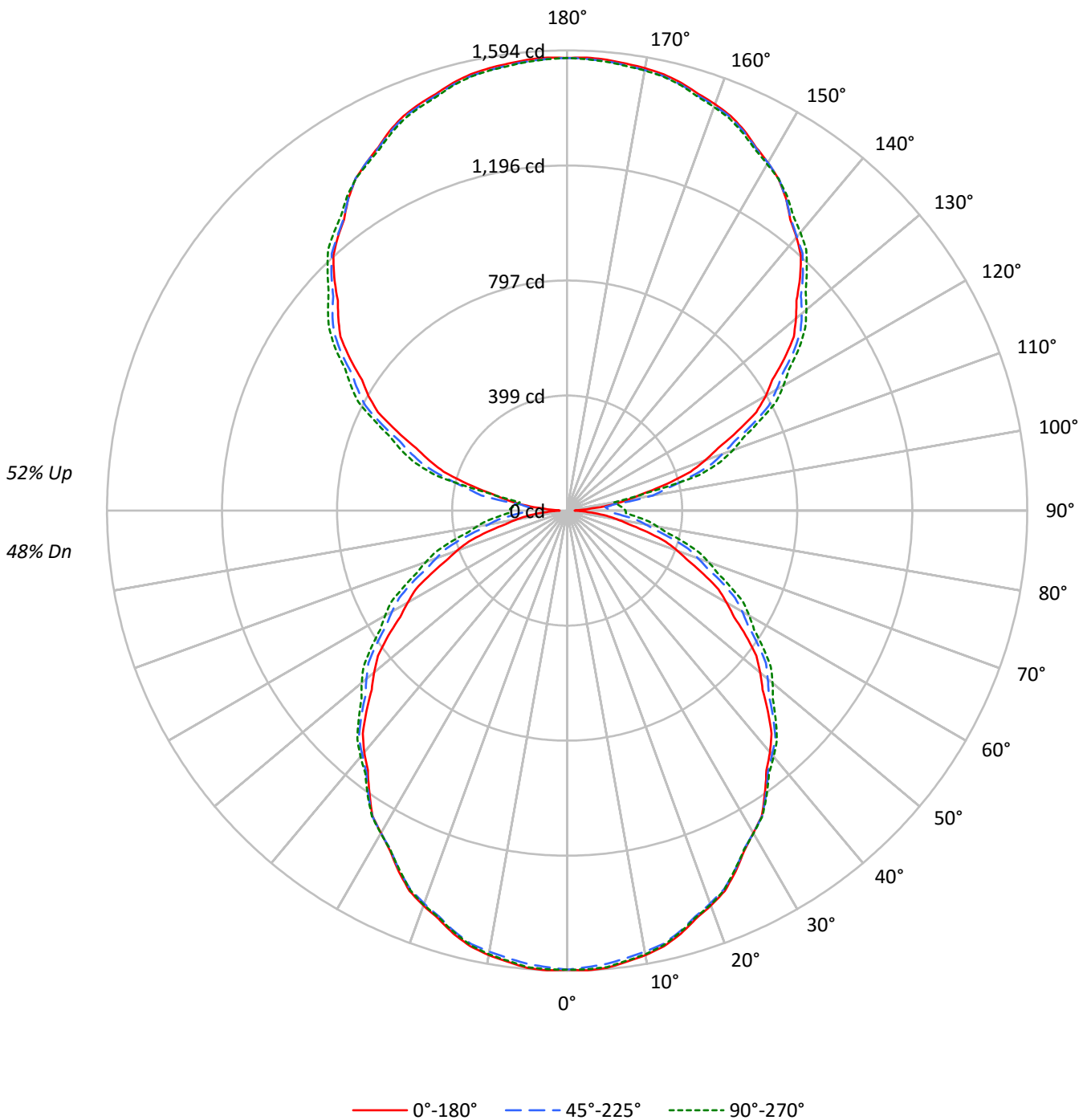
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P333334

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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48					48			
1	97	92	88	84	88	85	81	78	71	68	66	58	56	55	46	45	44	39					39			
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	40	38	37	32					32			
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	33	31	27					27			
4	73	62	54	47	67	57	50	44	48	42	38	40	35	32	32	29	26	23					23			
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23	19					19			
6	61	49	41	35	56	45	38	33	38	33	28	32	28	24	26	23	20	17					17			
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18	15					15			
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	22	18	16	13					13			
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14	12					12			
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11					11			

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

	0°	45°	90°
0°	10271	10271	10271
5°	10291	10081	10113
10°	10218	9901	9886
15°	10097	9686	9597
20°	9933	9419	9309
25°	9738	9134	8953
30°	9501	8820	8630
35°	9281	8532	8335
40°	9056	8229	8036
45°	8802	7969	7773
50°	8560	7687	7539
55°	8269	7421	7265
60°	7950	7117	6985
65°	7617	6800	6669
70°	7241	6366	6346
75°	6643	5948	5948
80°	5861	5444	5515
85°	5135	5104	5378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.4	1.5
10°-20°	426.9	4.4
20°-30°	634.8	6.5
30°-40°	752.0	7.7
40°-50°	777.5	8.0
50°-60°	716.2	7.4
60°-70°	579.0	5.9
70°-80°	387.7	4.0
80°-90°	204.3	2.1
90°-100°	169.8	1.7
100°-110°	434.3	4.5
110°-120°	692.6	7.1
120°-130°	848.9	8.7
130°-140°	892.9	9.2
140°-150°	827.9	8.5
150°-160°	667.5	6.9
160°-170°	431.7	4.4
170°-180°	148.9	1.5
0°-30°	1212.1	12.4
0°-40°	1964.1	20.2
0°-60°	3457.8	35.5
0°-90°	4628.9	47.5
90°-120°	1296.7	13.3
90°-150°	3866.4	39.7
90°-180°	5114.0	52.5
0°-180°	9743.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1590	1587	1576	1588	1587	151
15°	1519	1519	1509	1518	1512	428
25°	1380	1384	1375	1381	1374	635
35°	1194	1204	1200	1205	1205	747
45°	984	1000	1009	1019	1021	759
55°	756	781	806	823	830	676
65°	521	557	594	616	624	517
75°	287	328	377	407	416	304
85°	86	137	192	225	238	91
90°	26	85	146	187	202	19
95°	86	122	132	171	183	100
105°	356	386	432	462	473	377
115°	651	669	709	732	735	645
125°	918	926	956	976	981	820
135°	1141	1146	1155	1172	1174	879
145°	1321	1321	1321	1330	1330	825
155°	1453	1446	1448	1451	1442	669
165°	1533	1526	1527	1533	1525	433
175°	1568	1561	1562	1570	1561	149
180°	1568	1568	1568	1568	1568	



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CATALOG NUMBER: S125DIP-S1270D1205U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3
2.5°	1594.0	1593.5	1592.9	1592.4	1591.8	1590.6	1588.6	1586.7	1584.8	1582.8	1584.8
5°	1590.3	1589.6	1588.9	1588.2	1587.5	1586.0	1583.5	1581.1	1578.7	1576.3	1579.0
7.5°	1576.3	1576.0	1575.7	1575.4	1575.2	1573.8	1571.3	1568.8	1566.3	1563.8	1566.2
10°	1563.8	1563.8	1563.8	1563.8	1563.8	1562.4	1559.6	1556.9	1554.1	1551.3	1553.7
12.5°	1546.3	1546.6	1546.9	1547.2	1547.4	1546.5	1544.3	1542.0	1539.8	1537.6	1539.5
15°	1518.6	1518.9	1519.3	1519.6	1520.0	1518.9	1516.5	1514.1	1511.7	1509.2	1511.3
17.5°	1482.4	1483.1	1483.8	1484.5	1485.2	1484.3	1481.9	1479.5	1477.0	1474.6	1476.2
20°	1456.2	1456.9	1457.6	1458.3	1459.0	1458.1	1455.7	1453.3	1450.8	1448.4	1449.5
22.5°	1426.3	1427.5	1428.8	1430.0	1431.3	1430.5	1427.8	1425.1	1422.4	1419.7	1421.0
25°	1379.8	1380.9	1381.9	1382.9	1384.0	1383.5	1381.4	1379.3	1377.2	1375.1	1376.5
27.5°	1328.1	1329.6	1331.1	1332.6	1334.2	1333.7	1331.4	1329.0	1326.7	1324.3	1325.3
30°	1289.4	1291.5	1293.5	1295.6	1297.7	1297.7	1295.6	1293.5	1291.5	1289.4	1290.1
32.5°	1254.5	1256.3	1258.1	1259.9	1261.7	1261.8	1260.3	1258.8	1257.2	1255.7	1256.4
35°	1194.3	1196.7	1199.1	1201.6	1204.0	1204.7	1203.6	1202.6	1201.6	1200.5	1201.6
37.5°	1134.1	1136.3	1138.5	1140.8	1143.0	1143.9	1143.6	1143.2	1142.9	1142.5	1143.9
40°	1092.9	1095.7	1098.5	1101.3	1104.0	1105.2	1104.9	1104.5	1104.2	1103.9	1105.2
42.5°	1048.0	1051.6	1055.2	1058.8	1062.5	1064.6	1065.4	1066.2	1066.9	1067.7	1069.3
45°	983.8	987.6	991.4	995.2	999.0	1001.8	1003.6	1005.3	1007.0	1008.7	1011.2
47.5°	918.0	921.5	925.1	928.6	932.1	935.4	938.4	941.4	944.3	947.3	950.9
50°	873.1	876.9	880.7	884.5	888.4	892.2	896.0	899.8	903.6	907.4	911.2
52.5°	825.7	830.4	835.0	839.6	844.3	848.9	853.6	858.2	862.8	867.5	871.6
55°	756.2	761.7	767.3	772.8	778.3	783.9	789.4	795.0	800.5	806.1	809.9
57.5°	685.1	691.7	698.4	705.0	711.7	718.2	724.6	730.9	737.3	743.7	748.1
60°	637.7	644.6	651.5	658.5	665.4	672.3	679.3	686.2	693.1	700.0	705.2
62.5°	591.5	598.5	605.4	612.3	619.2	626.5	633.9	641.4	648.9	656.4	662.1
65°	520.7	528.7	536.7	544.7	552.6	560.8	569.1	577.4	585.7	594.0	599.2
67.5°	454.0	461.7	469.4	477.1	484.8	492.9	501.3	509.8	518.2	526.7	533.0
70°	405.4	413.3	421.3	429.3	437.2	445.7	454.7	463.8	472.8	481.8	488.4
72.5°	358.0	366.2	374.5	382.7	391.0	400.0	409.8	419.7	429.5	439.4	446.5
75°	286.9	295.9	304.9	313.9	322.9	333.0	344.0	355.1	366.2	377.3	384.2
77.5°	218.6	229.0	239.4	249.8	260.2	270.7	281.4	292.0	302.7	313.4	321.0
80°	176.2	186.6	197.0	207.4	217.8	228.8	240.6	252.4	264.2	276.0	283.6
82.5°	137.5	148.5	159.4	170.4	181.3	192.8	204.9	216.9	229.0	241.0	248.4
85°	85.8	97.2	108.6	120.1	131.5	143.3	155.4	167.5	179.6	191.8	199.4
87.5°	48.9	60.4	71.9	83.4	94.9	106.7	118.8	131.0	143.1	155.3	163.5
90°	26.1	39.3	52.4	65.6	78.7	92.1	105.7	119.3	132.9	146.4	155.7
92.5°	40.3	49.2	58.0	66.8	75.6	86.8	100.5	114.1	127.8	141.5	150.4
95°	86.5	94.7	103.0	111.2	119.4	124.5	126.5	128.5	130.4	132.4	141.3
97.5°	156.7	166.2	175.7	185.2	194.7	195.4	187.4	179.3	171.3	163.2	163.2
100°	211.2	219.3	227.3	235.4	243.4	253.5	265.6	277.8	289.9	302.0	270.8
102.5°	266.7	274.4	282.1	289.8	297.5	307.1	318.5	329.9	341.4	352.8	352.5
105°	355.7	362.3	368.9	375.4	382.0	390.5	400.9	411.3	421.7	432.1	439.0
107.5°	448.2	452.9	457.6	462.3	467.1	474.7	485.2	495.7	506.1	516.6	523.6
110°	508.3	512.5	516.6	520.8	525.0	532.1	542.4	552.6	562.8	573.0	578.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	566.0	569.9	573.9	577.8	581.8	588.6	598.3	608.1	617.8	627.5	632.9
115°	650.9	654.6	658.3	662.0	665.7	672.2	681.5	690.8	700.0	709.3	714.5
117.5°	738.8	740.4	741.9	743.4	745.0	750.5	760.0	769.5	779.0	788.5	793.1
120°	794.6	795.4	796.2	796.9	797.7	802.5	811.2	820.0	828.7	837.5	842.8
122.5°	842.6	844.1	845.6	847.0	848.5	853.2	861.3	869.4	877.4	885.5	890.6
125°	918.5	920.0	921.5	922.9	924.4	928.6	935.5	942.4	949.4	956.3	960.8
127.5°	989.7	990.7	991.6	992.6	993.5	996.8	1002.3	1007.8	1013.3	1018.9	1023.4
130°	1034.4	1035.3	1036.3	1037.2	1038.2	1041.2	1046.3	1051.4	1056.5	1061.6	1065.7
132.5°	1077.8	1079.2	1080.6	1082.0	1083.5	1085.8	1088.9	1092.1	1095.3	1098.5	1103.2
135°	1140.9	1142.1	1143.3	1144.5	1145.7	1147.3	1149.2	1151.1	1153.0	1154.9	1158.9
137.5°	1198.9	1200.0	1201.1	1202.1	1203.2	1204.1	1204.8	1205.5	1206.2	1206.9	1211.1
140°	1235.8	1236.3	1236.8	1237.3	1237.9	1238.2	1238.3	1238.3	1238.4	1238.5	1242.8
142.5°	1270.2	1270.2	1270.3	1270.3	1270.3	1270.6	1271.0	1271.4	1271.9	1272.3	1275.6
145°	1320.6	1320.8	1321.0	1321.1	1321.3	1321.4	1321.4	1321.4	1321.4	1321.4	1323.4
147.5°	1363.2	1363.1	1363.0	1362.9	1362.8	1362.9	1363.2	1363.5	1363.9	1364.2	1365.0
150°	1391.1	1390.6	1390.1	1389.6	1389.1	1389.1	1389.6	1390.1	1390.6	1391.1	1391.6
152.5°	1418.1	1417.0	1415.8	1414.7	1413.5	1413.2	1413.8	1414.3	1414.8	1415.3	1415.8
155°	1452.7	1451.2	1449.6	1448.1	1446.5	1446.0	1446.5	1447.0	1447.6	1448.1	1448.9
157.5°	1479.5	1478.5	1477.6	1476.7	1475.7	1475.3	1475.4	1475.4	1475.5	1475.5	1476.3
160°	1498.1	1496.5	1495.0	1493.4	1491.9	1491.2	1491.5	1491.7	1492.0	1492.2	1493.3
162.5°	1512.9	1511.4	1509.8	1508.3	1506.7	1506.1	1506.3	1506.6	1506.9	1507.1	1508.6
165°	1532.9	1531.4	1529.8	1528.3	1526.7	1526.1	1526.3	1526.6	1526.8	1527.1	1528.7
167.5°	1547.8	1546.2	1544.6	1543.0	1541.4	1540.7	1541.0	1541.2	1541.5	1541.8	1543.6
170°	1556.2	1554.4	1552.5	1550.7	1548.9	1548.2	1548.4	1548.7	1548.9	1549.2	1551.3
172.5°	1561.7	1559.9	1558.1	1556.3	1554.5	1553.8	1554.3	1554.8	1555.2	1555.7	1557.6
175°	1567.8	1566.2	1564.7	1563.1	1561.6	1560.9	1561.2	1561.5	1561.7	1562.0	1564.0
177.5°	1570.6	1569.3	1568.1	1566.9	1565.6	1565.1	1565.3	1565.5	1565.7	1565.9	1567.4
180°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3	1590.3
2.5°	1586.7	1588.6	1590.6	1591.4	1591.1	1590.9	1590.6	1590.3
5°	1581.8	1584.6	1587.4	1588.6	1588.2	1587.9	1587.5	1587.2
7.5°	1568.6	1571.1	1573.5	1574.5	1574.2	1573.8	1573.5	1573.1
10°	1556.2	1558.6	1561.0	1562.1	1561.7	1561.4	1561.0	1560.7
12.5°	1541.3	1543.2	1545.1	1545.6	1544.7	1543.8	1542.9	1542.0
15°	1513.4	1515.5	1517.5	1517.9	1516.5	1515.1	1513.7	1512.3
17.5°	1477.8	1479.4	1481.0	1481.4	1480.5	1479.7	1478.9	1478.0
20°	1450.5	1451.5	1452.6	1453.1	1453.1	1453.1	1453.1	1453.1
22.5°	1422.4	1423.7	1425.0	1425.2	1424.4	1423.6	1422.7	1421.9
25°	1377.9	1379.3	1380.7	1380.5	1378.8	1377.0	1375.3	1373.6
27.5°	1326.3	1327.2	1328.2	1328.4	1327.7	1327.1	1326.5	1325.9
30°	1290.8	1291.5	1292.2	1292.3	1292.0	1291.6	1291.3	1290.9
32.5°	1257.1	1257.8	1258.5	1258.7	1258.3	1258.0	1257.6	1257.3
35°	1202.6	1203.6	1204.7	1205.2	1205.2	1205.2	1205.2	1205.2
37.5°	1145.3	1146.7	1148.1	1148.7	1148.5	1148.4	1148.3	1148.1
40°	1106.6	1108.0	1109.4	1110.4	1111.1	1111.8	1112.5	1113.2
42.5°	1071.0	1072.7	1074.3	1075.2	1075.4	1075.5	1075.7	1075.8
45°	1013.6	1016.0	1018.4	1019.8	1020.2	1020.5	1020.9	1021.2
47.5°	954.4	957.9	961.5	963.6	964.4	965.1	965.9	966.7
50°	915.0	918.8	922.7	925.1	926.1	927.2	928.2	929.2
52.5°	875.7	879.8	883.8	886.3	887.0	887.8	888.6	889.3
55°	813.7	817.5	821.3	823.9	825.3	826.7	828.1	829.5
57.5°	752.4	756.8	761.2	763.9	764.9	765.9	767.0	768.0
60°	710.4	715.6	720.8	723.9	725.0	726.0	727.1	728.1
62.5°	667.9	673.6	679.4	682.9	684.2	685.6	686.9	688.2
65°	604.4	609.6	614.8	618.1	619.5	620.9	622.3	623.6
67.5°	539.3	545.6	551.9	555.9	557.7	559.5	561.4	563.2
70°	494.9	501.5	508.1	512.4	514.5	516.6	518.7	520.7
72.5°	453.6	460.8	467.9	472.2	473.8	475.3	476.8	478.3
75°	391.2	398.1	405.0	409.4	411.1	412.8	414.6	416.3
77.5°	328.6	336.2	343.9	348.4	349.8	351.1	352.5	353.9
80°	291.2	298.8	306.5	311.0	312.3	313.7	315.1	316.5
82.5°	255.7	263.1	270.4	275.3	277.8	280.3	282.8	285.3
85°	207.0	214.6	222.3	227.5	230.2	233.0	235.8	238.5
87.5°	171.7	179.9	188.2	193.6	196.2	198.7	201.3	203.9
90°	165.0	174.2	183.5	189.7	192.9	196.1	199.3	202.5
92.5°	159.4	168.4	177.4	183.3	186.1	188.8	191.6	194.4
95°	150.2	159.2	168.1	173.7	176.2	178.6	181.0	183.4
97.5°	163.2	163.2	163.2	164.3	166.7	169.1	171.4	173.8
100°	239.6	208.4	177.2	162.1	163.1	164.2	165.2	166.3
102.5°	352.2	351.9	351.7	343.8	328.3	312.8	297.3	281.8
105°	445.9	452.9	459.8	464.3	466.5	468.7	470.8	473.0
107.5°	530.5	537.4	544.3	548.4	549.8	551.2	552.6	553.9
110°	584.6	590.4	596.2	600.5	603.2	605.9	608.5	611.2





TEST NUMBER: P333334

CATALOG NUMBER: S125DIP-S1270D1205U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	638.2	643.5	648.8	652.5	654.6	656.7	658.7	660.8
115°	719.7	724.9	730.1	733.0	733.5	734.0	734.6	735.1
117.5°	797.6	802.2	806.7	809.8	811.5	813.2	814.9	816.6
120°	848.2	853.6	858.9	862.0	862.8	863.6	864.4	865.2
122.5°	895.7	900.7	905.8	908.7	909.3	909.8	910.4	911.0
125°	965.3	969.8	974.4	977.1	978.0	979.0	980.0	980.9
127.5°	1028.0	1032.5	1037.1	1039.4	1039.5	1039.6	1039.7	1039.8
130°	1069.8	1073.8	1077.9	1080.2	1080.6	1081.1	1081.5	1081.9
132.5°	1107.9	1112.5	1117.2	1119.7	1119.8	1120.0	1120.2	1120.3
135°	1162.9	1166.9	1170.8	1172.9	1173.1	1173.3	1173.5	1173.7
137.5°	1215.3	1219.5	1223.7	1225.8	1225.9	1225.9	1225.9	1226.0
140°	1247.2	1251.5	1255.8	1257.9	1257.7	1257.6	1257.4	1257.3
142.5°	1279.0	1282.4	1285.7	1287.3	1287.2	1287.0	1286.8	1286.7
145°	1325.4	1327.4	1329.4	1330.3	1330.1	1329.9	1329.8	1329.6
147.5°	1365.9	1366.8	1367.6	1367.4	1366.2	1365.0	1363.7	1362.5
150°	1392.2	1392.7	1393.2	1392.6	1390.9	1389.2	1387.4	1385.7
152.5°	1416.3	1416.9	1417.4	1416.7	1414.9	1413.2	1411.4	1409.6
155°	1449.6	1450.4	1451.2	1450.5	1448.5	1446.4	1444.3	1442.3
157.5°	1477.2	1478.0	1478.8	1478.2	1476.1	1474.1	1472.0	1469.9
160°	1494.3	1495.3	1496.4	1495.9	1493.8	1491.7	1489.7	1487.6
162.5°	1510.0	1511.5	1512.9	1512.5	1510.2	1507.9	1505.7	1503.4
165°	1530.2	1531.8	1533.3	1533.0	1531.0	1528.9	1526.8	1524.8
167.5°	1545.5	1547.3	1549.2	1549.0	1546.6	1544.3	1542.0	1539.7
170°	1553.3	1555.4	1557.5	1557.3	1555.0	1552.7	1550.4	1548.0
172.5°	1559.4	1561.3	1563.1	1562.9	1560.6	1558.3	1555.9	1553.6
175°	1566.1	1568.2	1570.2	1570.1	1567.8	1565.5	1563.1	1560.8
177.5°	1568.8	1570.3	1571.7	1571.6	1570.0	1568.3	1566.6	1565.0
180°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8

(END OF REPORT)