

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: P333326

Luminaire Tested: **S125DIP-S1270D1035U835-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333326
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1270D1035U835-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8508.3 lumens
Efficiency: N/A
Efficacy: 127.4 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

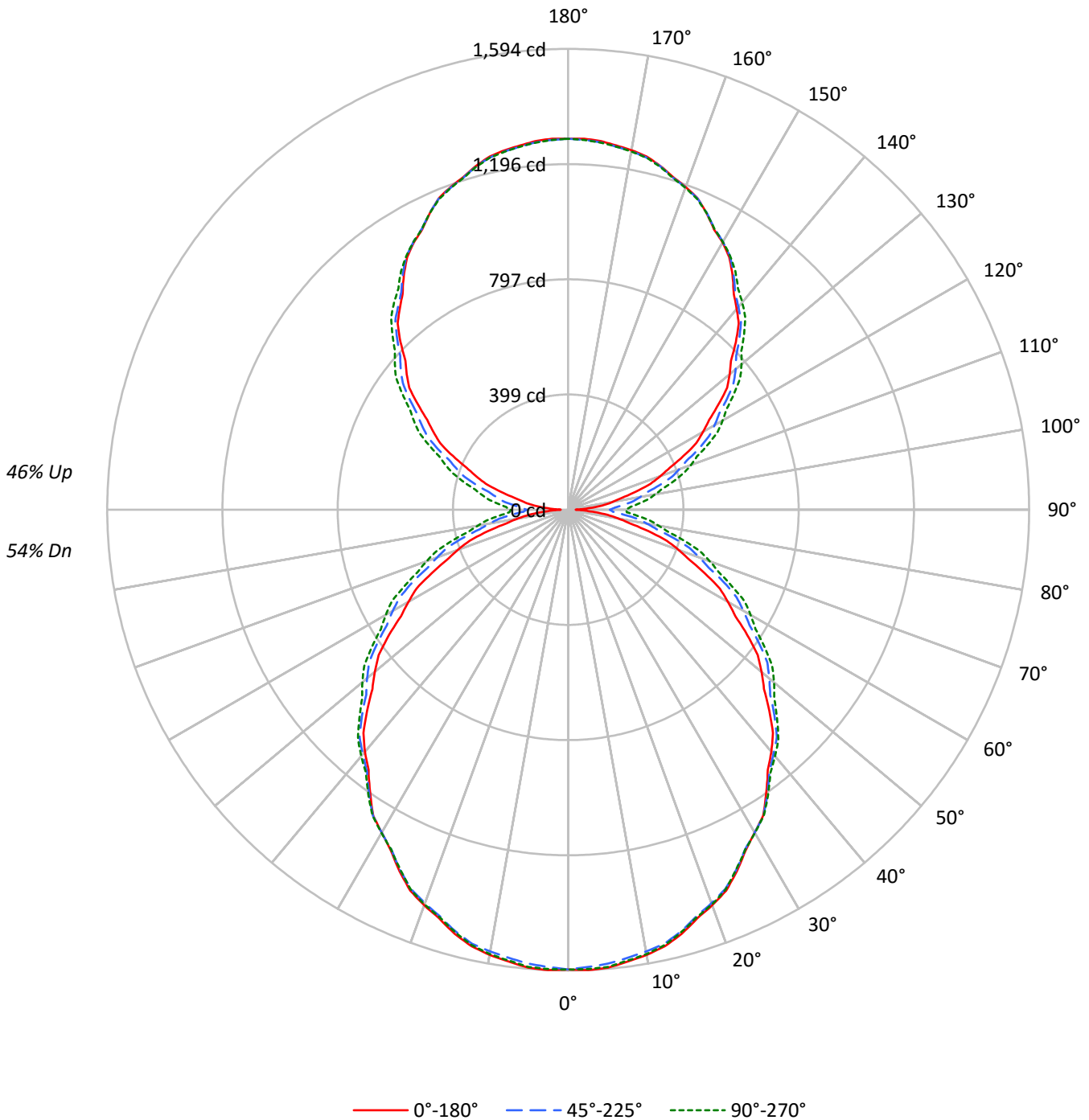
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54					54			
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	50	49					44				
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41					36				
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	34					30				
4	74	63	54	48	68	58	51	45	50	44	40	42	38	35	35	32	29					26				
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	26					22				
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22					19				
7	58	45	37	31	53	42	35	29	36	31	26	31	26	23	26	23	20					17				
8	54	41	33	27	49	38	31	26	33	27	23	29	24	20	24	20	18					15				
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16					14				
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	14					13				

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	1.8
10°-20°	426.9	5.0
20°-30°	634.8	7.5
30°-40°	752.0	8.8
40°-50°	777.5	9.1
50°-60°	716.2	8.4
60°-70°	579.0	6.8
70°-80°	387.7	4.6
80°-90°	203.9	2.4
90°-100°	198.7	2.3
100°-110°	336.9	4.0
110°-120°	485.5	5.7
120°-130°	597.3	7.0
130°-140°	647.6	7.6
140°-150°	623.9	7.3
150°-160°	521.7	6.1
160°-170°	346.8	4.1
170°-180°	121.4	1.4
0°-30°	1212.1	14.2
0°-40°	1964.1	23.1
0°-60°	3457.8	40.6
0°-90°	4628.4	54.4
90°-120°	1021.2	12.0
90°-150°	2890.0	34.0
90°-180°	3880.0	45.6
0°-180°	8508.3	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	84	144	183	199	20
95°	85	129	191	230	245	85
105°	242	273	324	360	375	258
115°	440	456	497	523	532	435
125°	634	640	671	693	701	568
135°	820	825	836	855	860	632
145°	991	993	996	1004	1007	619
155°	1132	1132	1133	1137	1132	521
165°	1231	1229	1230	1233	1228	347
175°	1280	1276	1276	1281	1275	122
180°	1283	1283	1283	1283	1283	



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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°	48.8	60.3	71.7	83.2	94.6	106.4	118.5	130.6	142.7	154.7	162.9
90°	25.9	38.8	51.7	64.5	77.4	90.5	103.8	117.2	130.5	143.8	152.9
92.5°	46.6	58.1	69.6	81.1	92.6	105.3	119.3	133.3	147.2	161.2	170.4
95°	85.2	94.6	104.1	113.5	123.0	134.7	148.7	162.7	176.7	190.7	199.9
97.5°	126.2	134.5	142.8	151.1	159.4	170.7	185.1	199.6	214.0	228.4	237.2
100°	156.9	164.2	171.5	178.7	186.0	196.6	210.6	224.6	238.6	252.5	261.8
102.5°	190.0	197.6	205.2	212.8	220.5	230.4	242.7	254.9	267.2	279.5	288.7
105°	241.7	248.3	255.0	261.6	268.3	277.5	289.2	300.9	312.6	324.4	332.6
107.5°	298.9	304.7	310.5	316.4	322.2	330.6	341.6	352.6	363.6	374.6	382.1
110°	338.4	343.6	348.9	354.2	359.4	367.3	377.6	388.0	398.4	408.7	416.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	379.9	383.8	387.7	391.6	395.5	402.6	412.9	423.1	433.4	443.7	450.3
115°	439.6	443.0	446.3	449.6	452.9	459.3	468.7	478.2	487.6	497.1	503.1
117.5°	499.6	501.6	503.6	505.6	507.6	513.0	521.9	530.9	539.8	548.7	554.8
120°	537.9	540.1	542.2	544.4	546.5	551.7	559.9	568.1	576.3	584.4	590.3
122.5°	578.2	579.1	580.0	580.9	581.7	586.3	594.6	602.9	611.1	619.4	624.8
125°	634.2	635.2	636.2	637.2	638.1	642.2	649.4	656.5	663.7	670.8	675.9
127.5°	692.5	692.9	693.4	693.8	694.2	697.4	703.3	709.2	715.2	721.1	726.1
130°	728.5	729.2	730.0	730.8	731.5	734.6	739.9	745.2	750.4	755.7	760.4
132.5°	763.2	764.9	766.7	768.4	770.2	772.9	776.5	780.2	783.8	787.5	792.1
135°	819.8	820.8	821.7	822.7	823.7	825.5	828.2	830.8	833.5	836.1	840.6
137.5°	873.0	874.0	875.0	876.0	877.0	878.3	880.0	881.7	883.3	885.0	889.4
140°	906.1	907.2	908.3	909.4	910.5	911.6	912.6	913.6	914.6	915.6	919.9
142.5°	940.4	941.1	941.7	942.4	943.0	943.8	944.7	945.6	946.5	947.5	951.0
145°	990.9	991.5	992.0	992.5	993.1	993.7	994.4	995.0	995.7	996.4	998.1
147.5°	1036.1	1036.6	1037.1	1037.6	1038.0	1038.6	1039.1	1039.6	1040.1	1040.7	1041.8
150°	1067.2	1067.0	1066.8	1066.6	1066.4	1066.7	1067.6	1068.5	1069.3	1070.2	1070.2
152.5°	1092.8	1093.1	1093.4	1093.7	1094.0	1094.4	1094.7	1095.1	1095.4	1095.8	1096.3
155°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.2	1132.5	1132.7	1132.9	1133.1	1134.0
157.5°	1167.3	1166.8	1166.3	1165.8	1165.3	1165.2	1165.4	1165.6	1165.9	1166.1	1167.0
160°	1188.0	1187.4	1186.7	1186.0	1185.4	1185.2	1185.4	1185.6	1185.8	1186.0	1186.9
162.5°	1206.4	1205.9	1205.4	1204.9	1204.5	1204.2	1204.3	1204.3	1204.4	1204.4	1205.5
165°	1231.0	1230.5	1230.1	1229.6	1229.2	1229.1	1229.3	1229.5	1229.7	1230.0	1230.9
167.5°	1251.7	1250.8	1250.0	1249.1	1248.2	1247.7	1247.7	1247.7	1247.7	1247.7	1249.1
170°	1262.9	1262.0	1261.1	1260.3	1259.4	1258.9	1258.9	1258.9	1258.9	1258.9	1260.3
172.5°	1270.9	1270.0	1269.1	1268.2	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.2
175°	1279.9	1279.0	1278.1	1277.2	1276.3	1275.9	1275.9	1275.9	1275.9	1275.9	1277.2
177.5°	1284.5	1283.8	1283.1	1282.3	1281.6	1281.2	1281.0	1280.8	1280.7	1280.5	1281.6
180°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9



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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°	171.1	179.3	187.5	192.9	195.4	198.0	200.6	203.1
90°	162.0	171.1	180.1	186.2	189.3	192.4	195.5	198.6
92.5°	179.5	188.7	197.8	203.9	206.8	209.7	212.6	215.5
95°	209.0	218.2	227.4	233.4	236.3	239.2	242.0	244.9
97.5°	245.9	254.6	263.4	269.1	271.7	274.3	276.9	279.5
100°	271.1	280.3	289.6	295.5	298.0	300.6	303.1	305.6
102.5°	297.8	307.0	316.2	322.1	324.8	327.5	330.2	332.9
105°	340.9	349.1	357.4	363.1	366.2	369.3	372.3	375.4
107.5°	389.6	397.2	404.7	409.5	411.6	413.7	415.8	417.9
110°	423.2	430.5	437.7	442.4	444.6	446.9	449.1	451.3



TEST NUMBER: P333326

CATALOG NUMBER: S125DIP-S1270D1035U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	456.9	463.5	470.1	474.5	476.5	478.5	480.5	482.6
115°	509.1	515.1	521.1	525.1	526.9	528.8	530.7	532.5
117.5°	560.8	566.9	573.0	576.7	578.2	579.7	581.1	582.6
120°	596.2	602.1	608.0	611.5	612.7	613.9	615.1	616.3
122.5°	630.3	635.7	641.1	644.5	645.9	647.3	648.6	650.0
125°	681.0	686.1	691.2	694.5	696.0	697.5	699.0	700.6
127.5°	731.0	735.9	740.8	744.0	745.6	747.1	748.7	750.3
130°	765.0	769.6	774.3	777.2	778.5	779.8	781.1	782.4
132.5°	796.7	801.4	806.0	808.7	809.6	810.4	811.2	812.1
135°	845.1	849.6	854.1	856.8	857.6	858.5	859.3	860.2
137.5°	893.7	898.1	902.4	904.7	905.0	905.3	905.6	905.9
140°	924.1	928.4	932.6	934.9	935.2	935.4	935.7	936.0
142.5°	954.5	958.0	961.6	963.5	963.7	964.0	964.3	964.6
145°	999.8	1001.6	1003.3	1004.5	1005.2	1006.0	1006.7	1007.4
147.5°	1042.9	1043.9	1045.0	1045.1	1044.2	1043.4	1042.5	1041.6
150°	1070.2	1070.2	1070.2	1070.2	1070.1	1070.0	1069.9	1069.8
152.5°	1096.9	1097.4	1097.9	1097.8	1097.1	1096.4	1095.6	1094.9
155°	1134.9	1135.8	1136.7	1136.6	1135.5	1134.3	1133.2	1132.1
157.5°	1167.8	1168.7	1169.6	1169.3	1167.9	1166.4	1164.9	1163.5
160°	1187.8	1188.7	1189.6	1189.5	1188.4	1187.3	1186.2	1185.0
162.5°	1206.5	1207.6	1208.7	1208.6	1207.3	1206.0	1204.7	1203.4
165°	1231.7	1232.6	1233.5	1233.3	1232.0	1230.6	1229.3	1228.0
167.5°	1250.4	1251.7	1253.1	1253.0	1251.7	1250.3	1248.9	1247.5
170°	1261.6	1262.9	1264.2	1264.1	1262.6	1261.0	1259.5	1257.9
172.5°	1269.6	1270.9	1272.2	1272.2	1270.8	1269.5	1268.1	1266.7
175°	1278.6	1279.9	1281.2	1281.1	1279.6	1278.0	1276.4	1274.9
177.5°	1282.6	1283.7	1284.7	1284.7	1283.4	1282.2	1280.9	1279.7
180°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9

(END OF REPORT)