

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: P333327

Luminaire Tested: **S125DIP-S1270D1035U835-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
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-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8641.6 lumens
Efficiency: N/A
Efficacy: 129.4 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

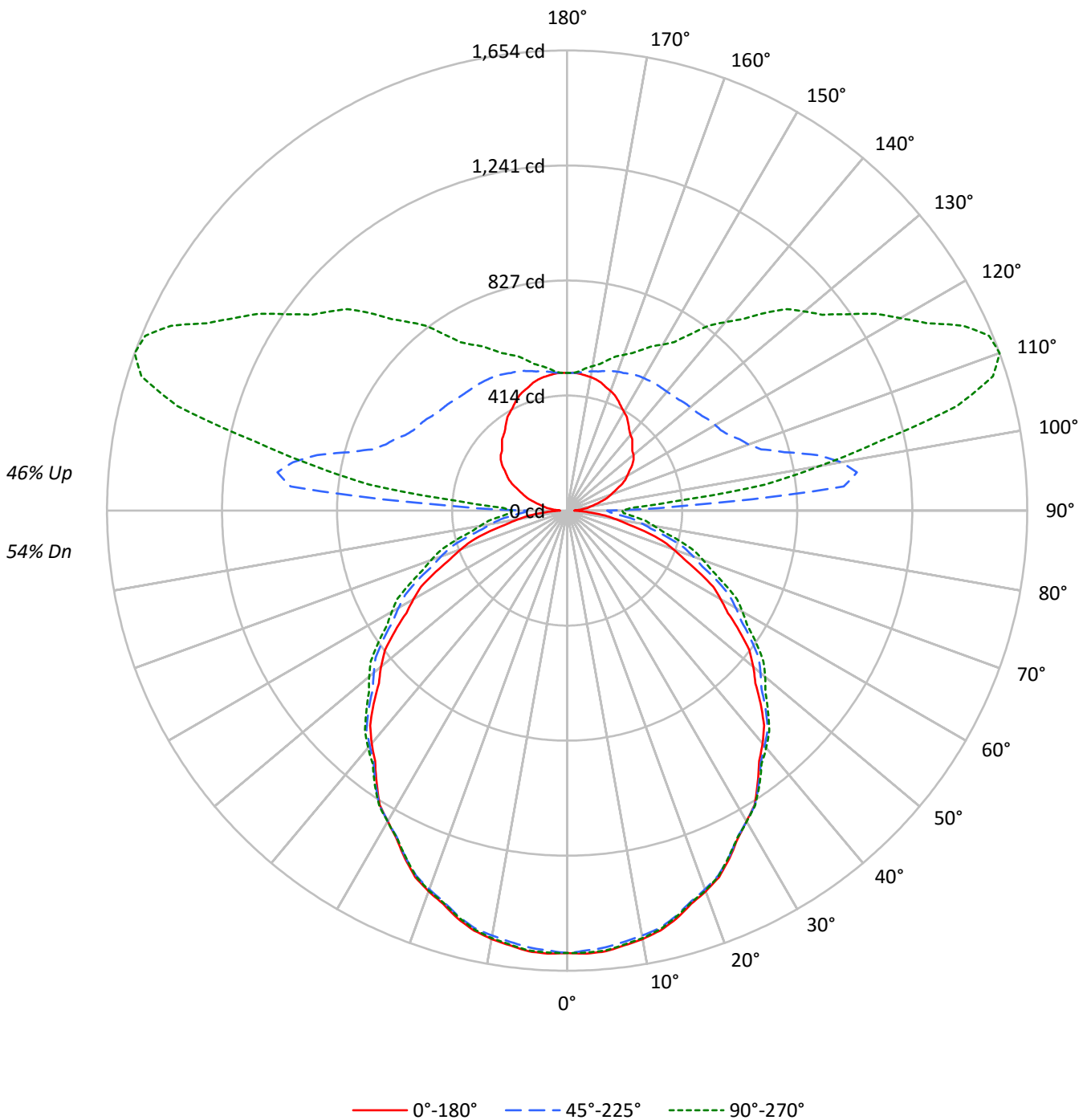
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				
1	98	93	89	85	90	86	83	79	74	71	68	62	60	58	51	50	49	43				
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	42	40	36				
3	81	71	63	57	74	66	59	54	56	51	47	47	44	40	39	36	34	30				
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	25				
5	68	56	47	41	62	52	44	39	44	39	34	38	33	30	31	28	25	22				
6	62	50	41	35	57	46	39	33	40	34	30	34	29	26	28	25	22	19				
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20	17				
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	17	15				
9	50	37	30	24	46	35	28	23	30	25	21	26	21	18	22	18	16	14				
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	14	12				

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	1.7
10°-20°	426.9	4.9
20°-30°	634.8	7.3
30°-40°	752.0	8.7
40°-50°	777.5	9.0
50°-60°	716.2	8.3
60°-70°	579.0	6.7
70°-80°	387.7	4.5
80°-90°	203.8	2.4
90°-100°	471.7	5.5
100°-110°	854.7	9.9
110°-120°	779.8	9.0
120°-130°	618.5	7.2
130°-140°	484.7	5.6
140°-150°	358.2	4.1
150°-160°	250.2	2.9
160°-170°	147.4	1.7
170°-180°	48.0	0.6
0°-30°	1212.1	14.0
0°-40°	1964.1	22.7
0°-60°	3457.8	40.0
0°-90°	4628.4	53.6
90°-120°	2106.3	24.4
90°-150°	3567.6	41.3
90°-180°	4013.0	46.4
0°-180°	8641.6	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	198	19
95°	53	159	998	548	394	51
105°	127	198	810	1541	1451	134
115°	211	265	642	1340	1572	208
125°	286	334	593	1056	1230	253
135°	331	396	566	867	1005	257
145°	383	437	555	699	775	240
155°	435	468	541	611	638	200
165°	475	488	519	551	559	134
175°	494	494	498	504	502	47
180°	495	495	495	495	495	



TEST NUMBER: P333327

CATALOG NUMBER: S125DIP-S1270D1035U835-4F0-1E-UDD-D4

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	60.1	71.6	83.1	94.6	106.4	118.4	130.6	142.6	154.7	162.9
90°	25.9	38.0	51.1	64.2	77.3	90.7	103.5	117.3	130.0	143.8	152.8
92.5°	34.6	47.5	66.1	88.8	116.2	156.5	223.1	326.6	437.8	444.7	391.1
95°	53.2	63.2	80.2	100.2	131.2	186.5	305.1	536.5	823.8	998.3	986.9
97.5°	73.1	82.4	96.1	115.2	143.1	185.1	267.2	439.5	739.1	1050.6	1208.4
100°	87.0	96.3	107.6	125.8	152.1	191.2	260.2	401.0	663.7	1001.2	1258.1
102.5°	102.6	110.5	120.4	138.9	163.0	200.9	263.2	383.0	606.3	920.4	1219.3
105°	126.8	132.4	142.9	158.4	180.0	215.9	270.2	369.4	546.5	809.5	1102.9
107.5°	150.5	157.2	166.7	179.6	200.9	233.4	285.9	372.0	517.9	731.9	986.0
110°	167.6	173.8	181.9	195.1	214.2	247.1	297.7	376.3	506.8	694.2	918.4



TEST NUMBER: P333327

CATALOG NUMBER: S125DIP-S1270D1035U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	186.0	191.3	197.9	210.2	228.5	260.0	308.8	383.1	502.1	670.0	866.8
115°	211.0	215.4	220.8	232.3	249.7	280.3	326.3	393.2	498.0	641.8	808.8
117.5°	233.4	238.0	242.8	253.4	271.9	301.1	344.6	405.8	497.6	624.1	770.8
120°	249.4	253.4	258.4	268.5	286.5	315.9	358.8	414.7	499.6	614.4	749.0
122.5°	264.9	267.6	271.3	280.7	299.8	328.8	371.5	424.7	500.4	605.4	729.4
125°	285.8	287.4	292.0	300.7	319.3	348.6	388.4	438.3	503.1	592.9	702.3
127.5°	300.8	303.4	309.5	320.5	340.3	368.9	406.4	451.6	507.8	583.3	676.7
130°	311.1	313.8	321.4	334.1	354.7	382.9	418.7	461.5	511.2	578.0	660.7
132.5°	317.9	321.6	331.1	345.6	367.3	395.1	429.8	469.1	514.6	573.0	646.1
135°	330.6	334.2	345.8	361.5	382.1	410.1	443.4	478.8	518.2	565.5	626.9
137.5°	346.6	349.3	360.2	375.9	396.2	424.4	453.7	486.5	522.8	561.1	610.7
140°	354.9	357.9	369.9	385.9	404.9	432.0	461.3	491.6	523.9	558.2	601.9
142.5°	366.1	368.0	379.0	394.6	412.5	437.8	465.2	493.6	524.0	556.5	594.9
145°	382.9	384.5	394.2	407.8	425.4	448.2	474.2	499.1	526.1	555.0	586.7
147.5°	398.9	400.1	408.7	421.7	437.2	457.4	480.2	502.7	527.1	552.4	579.4
150°	409.3	411.3	418.3	431.3	445.2	462.2	484.2	505.1	527.1	550.0	574.0
152.5°	420.5	421.7	427.9	439.2	452.4	467.8	488.2	506.7	526.3	546.9	568.4
155°	435.2	435.2	441.2	451.2	461.2	475.2	492.1	508.1	524.1	541.1	559.0
157.5°	448.4	448.2	453.0	461.6	470.4	481.0	495.5	509.1	521.5	535.1	550.2
160°	457.2	456.2	460.2	467.2	475.2	484.2	497.1	509.1	519.1	531.1	543.1
162.5°	464.4	463.4	467.4	473.6	480.0	487.4	498.7	508.3	516.7	526.3	536.7
165°	475.2	473.2	476.2	481.2	485.2	491.2	499.1	507.1	513.1	519.1	527.1
167.5°	482.4	481.4	483.2	486.0	488.8	492.5	499.1	504.7	507.5	512.1	517.7
170°	487.2	486.2	487.2	489.2	491.2	494.1	499.1	503.1	505.1	508.1	512.1
172.5°	490.4	488.6	489.6	491.5	492.7	494.1	498.3	501.5	501.9	503.3	506.5
175°	494.1	492.1	493.1	494.1	494.1	494.1	497.1	499.1	498.1	498.1	499.1
177.5°	495.9	494.3	494.3	495.1	494.3	494.3	495.9	496.7	495.1	495.1	495.9
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1



TEST NUMBER: P333327

CATALOG NUMBER: S125DIP-S1270D1035U835-4F0-1E-UDD-D4

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	179.2	187.4	193.0	195.4	197.9	200.5	202.9
90°	161.8	170.7	179.7	186.9	189.3	191.7	195.2	197.6
92.5°	315.1	274.3	250.3	240.5	230.2	230.2	231.2	232.1
95°	846.8	702.7	587.5	508.7	440.3	412.7	407.2	393.6
97.5°	1189.5	1090.4	978.1	866.3	806.9	753.4	726.8	716.4
100°	1342.2	1300.6	1205.0	1105.9	1039.1	969.3	934.4	920.5
102.5°	1390.2	1427.3	1385.0	1319.3	1247.7	1198.6	1160.6	1150.7
105°	1349.4	1493.1	1544.0	1537.7	1508.2	1477.7	1460.1	1450.6
107.5°	1229.2	1418.6	1538.2	1594.8	1613.2	1615.1	1610.7	1604.8
110°	1140.6	1336.9	1484.2	1573.6	1620.9	1642.3	1651.7	1654.2



TEST NUMBER: P333327

CATALOG NUMBER: S125DIP-S1270D1035U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1069.6	1256.0	1404.6	1509.0	1577.1	1612.1	1631.9	1641.5
115°	979.7	1140.7	1283.7	1396.6	1476.6	1526.6	1556.6	1571.7
117.5°	918.4	1057.7	1181.4	1285.3	1365.5	1417.4	1447.5	1457.9
120°	884.7	1010.4	1126.1	1217.9	1293.9	1343.8	1372.9	1382.9
122.5°	857.6	974.2	1077.6	1163.7	1231.7	1277.7	1306.7	1316.0
125°	818.6	926.0	1018.4	1093.9	1151.5	1194.2	1217.9	1229.6
127.5°	778.7	878.8	965.0	1035.9	1088.6	1126.7	1149.5	1155.9
130°	754.4	847.1	929.8	998.0	1049.6	1084.3	1106.0	1113.7
132.5°	729.4	816.6	892.1	957.7	1009.1	1043.5	1063.3	1071.6
135°	695.3	768.7	837.1	897.1	942.8	977.4	997.1	1004.9
137.5°	666.9	726.7	783.9	835.0	875.7	907.0	925.0	932.9
140°	650.6	701.4	751.1	795.6	833.9	861.3	877.6	884.0
142.5°	636.6	679.6	722.4	761.1	793.8	817.2	832.7	838.3
145°	619.4	652.1	684.8	713.3	738.6	757.0	769.3	774.7
147.5°	604.3	630.0	654.3	675.2	694.8	709.0	716.0	718.5
150°	596.0	617.9	636.9	655.0	670.4	682.7	687.0	688.4
152.5°	588.0	607.5	624.9	638.9	651.6	661.2	665.3	666.4
155°	576.0	592.0	606.0	616.9	626.9	633.9	636.9	637.9
157.5°	564.0	577.2	588.0	596.6	604.4	610.1	612.9	612.7
160°	556.0	566.0	576.0	583.0	590.0	595.0	597.0	596.0
162.5°	547.3	556.4	564.8	571.0	576.4	580.6	581.0	580.8
165°	535.1	542.1	548.1	553.0	557.0	559.0	559.0	559.0
167.5°	523.5	528.1	532.7	536.3	538.3	540.1	539.3	539.1
170°	517.1	520.1	523.1	525.1	527.1	528.1	528.1	527.1
172.5°	509.9	512.9	515.1	516.3	516.7	518.5	516.9	515.9
175°	502.1	502.1	504.1	504.1	504.1	505.1	503.1	502.1
177.5°	496.7	497.5	497.5	497.5	496.7	497.5	495.1	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1

(END OF REPORT)