

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: P333299

Luminaire Tested: **S125DIP-S1270D365U835-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333299
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-S1270D365U835-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6194.0 lumens
Efficiency: N/A
Efficacy: 124.4 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: Semi-Direct

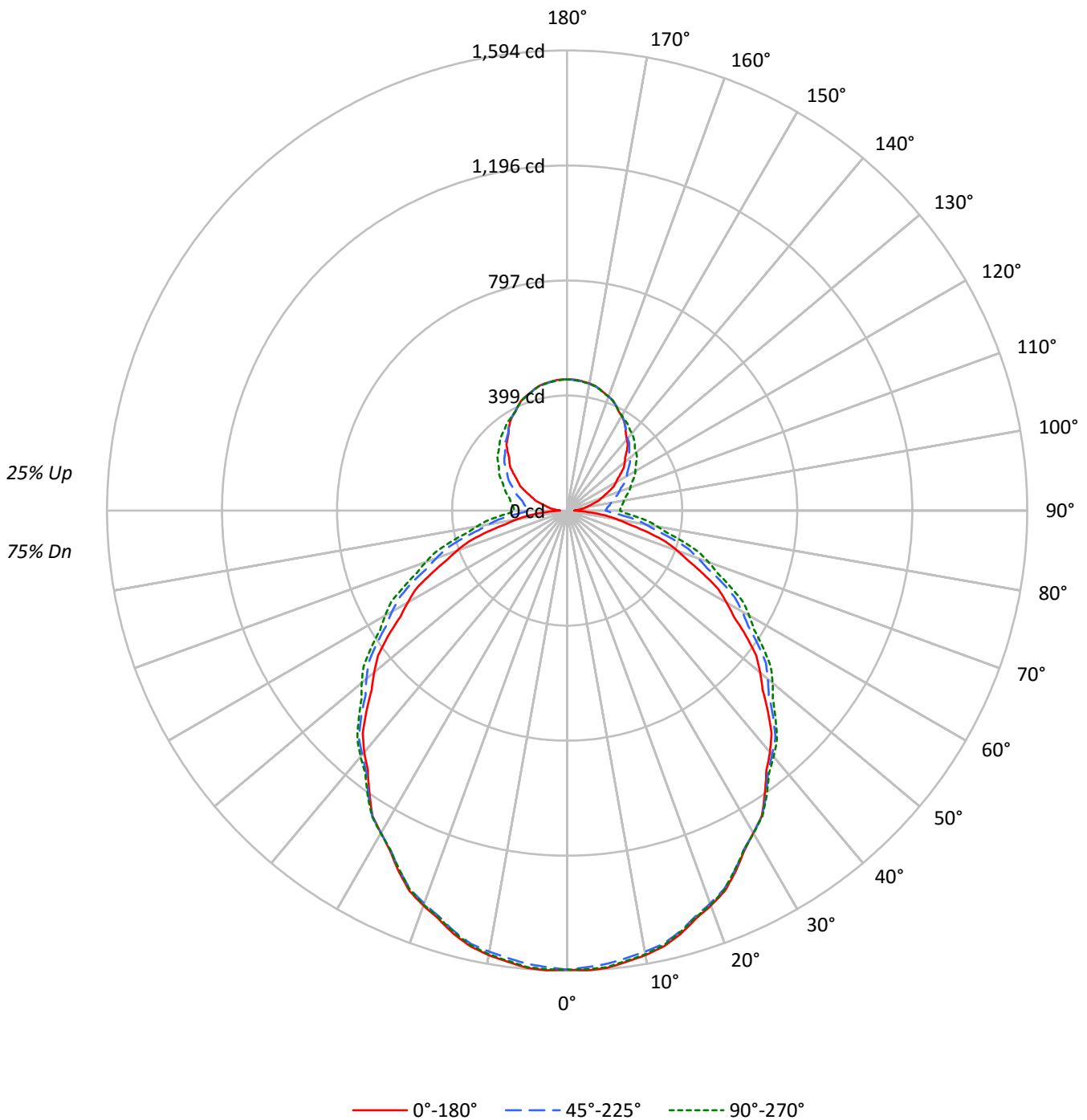
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	102	97	93	89	97	92	89	85	84	81	78	75	73	71	68	66	64	61				
2	93	84	77	72	88	80	74	69	73	68	63	66	62	58	59	56	53	50				
3	84	74	66	59	80	70	63	57	64	58	53	58	53	49	52	48	45	42				
4	77	65	57	50	73	62	54	48	57	50	45	51	46	42	46	42	38	36				
5	71	58	49	43	67	56	47	41	51	44	39	46	40	36	42	37	33	31				
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	38	33	29	27				
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26	24				
8	56	43	35	29	53	41	33	28	38	31	27	35	29	25	32	27	23	21				
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19				
10	49	36	28	23	47	35	28	23	32	26	22	30	24	20	27	22	19	17				

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	2.4
10°-20°	426.9	6.9
20°-30°	634.8	10.2
30°-40°	752.0	12.1
40°-50°	777.5	12.6
50°-60°	716.2	11.6
60°-70°	579.0	9.3
70°-80°	387.7	6.3
80°-90°	202.1	3.3
90°-100°	143.2	2.3
100°-110°	173.0	2.8
110°-120°	207.9	3.4
120°-130°	231.9	3.7
130°-140°	238.2	3.8
140°-150°	222.7	3.6
150°-160°	184.7	3.0
160°-170°	122.8	2.0
170°-180°	43.0	0.7
0°-30°	1212.1	19.6
0°-40°	1964.1	31.7
0°-60°	3457.8	55.8
0°-90°	4626.6	74.7
90°-120°	524.2	8.5
90°-150°	1217.0	19.6
90°-180°	1567.0	25.3
0°-180°	6194.0	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°	25	78	134	170	183	18
95°	43	85	141	176	189	40
105°	95	123	170	202	216	101
115°	162	176	215	242	252	160
125°	229	231	261	284	292	204
135°	292	293	304	324	331	225
145°	352	352	353	360	366	219
155°	401	401	401	402	401	185
165°	436	435	435	437	435	123
175°	453	452	452	454	451	43
180°	454	454	454	454	454	



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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°	48.7	59.9	71.1	82.4	93.6	105.1	117.0	128.9	140.8	152.7	160.7
90°	25.3	37.0	48.7	60.4	72.2	84.2	96.5	108.8	121.2	133.5	141.9
92.5°	31.0	41.7	52.4	63.1	73.8	85.5	98.2	111.0	123.7	136.4	144.6
95°	43.2	52.4	61.6	70.7	79.9	90.8	103.3	115.9	128.5	141.0	149.2
97.5°	56.6	64.7	72.9	81.1	89.3	99.6	112.0	124.5	136.9	149.4	157.1
100°	66.6	73.9	81.2	88.5	95.7	105.4	117.5	129.6	141.8	153.9	161.8
102.5°	77.5	84.6	91.6	98.7	105.7	114.9	126.2	137.5	148.9	160.2	167.9
105°	94.6	100.6	106.5	112.4	118.4	126.8	137.6	148.5	159.4	170.2	177.6
107.5°	113.7	118.8	123.9	129.0	134.1	141.8	152.2	162.5	172.8	183.2	190.3
110°	126.8	131.4	135.9	140.5	145.0	152.3	162.2	172.2	182.1	192.0	198.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	141.5	145.1	148.6	152.1	155.7	162.3	172.0	181.7	191.5	201.2	207.6
115°	161.7	164.4	167.2	169.9	172.6	178.6	187.8	196.9	206.1	215.3	221.4
117.5°	181.9	183.6	185.4	187.1	188.8	194.0	202.7	211.4	220.0	228.7	234.7
120°	195.5	196.9	198.3	199.8	201.2	205.9	214.0	222.0	230.1	238.1	244.0
122.5°	208.9	209.6	210.2	210.8	211.4	215.7	223.6	231.5	239.4	247.3	252.8
125°	228.6	228.7	228.8	228.9	229.1	232.6	239.6	246.6	253.6	260.6	266.0
127.5°	248.2	248.1	248.0	248.0	247.9	250.7	256.5	262.3	268.1	273.8	278.9
130°	260.9	261.0	261.0	261.1	261.1	263.6	268.6	273.6	278.7	283.7	288.4
132.5°	272.4	273.0	273.5	274.1	274.7	276.8	280.6	284.3	288.0	291.7	296.5
135°	292.2	292.4	292.5	292.6	292.7	294.0	296.6	299.1	301.6	304.1	308.6
137.5°	310.9	311.0	311.2	311.4	311.6	312.3	313.7	315.0	316.4	317.7	321.9
140°	321.8	322.2	322.6	323.0	323.3	323.8	324.4	325.0	325.6	326.2	330.1
142.5°	333.9	334.0	334.0	334.1	334.1	334.4	334.7	335.1	335.5	335.8	339.2
145°	351.8	351.8	351.8	351.7	351.7	351.8	352.0	352.3	352.5	352.7	354.5
147.5°	366.8	367.0	367.1	367.3	367.5	367.7	367.9	368.1	368.2	368.4	369.2
150°	377.8	377.8	377.7	377.6	377.5	377.6	377.9	378.3	378.6	378.9	378.9
152.5°	386.9	387.0	387.1	387.2	387.3	387.4	387.6	387.7	387.8	387.9	388.1
155°	400.8	400.8	400.8	400.8	400.8	400.8	400.9	401.0	401.1	401.2	401.5
157.5°	413.2	413.1	412.9	412.7	412.6	412.5	412.6	412.7	412.7	412.8	413.1
160°	420.6	420.4	420.1	419.9	419.7	419.6	419.7	419.7	419.8	419.9	420.2
162.5°	427.1	426.9	426.8	426.6	426.4	426.3	426.3	426.4	426.4	426.4	426.8
165°	435.8	435.6	435.5	435.3	435.2	435.1	435.2	435.3	435.4	435.4	435.8
167.5°	443.1	442.8	442.5	442.2	441.9	441.7	441.7	441.7	441.7	441.7	442.2
170°	447.1	446.8	446.5	446.2	445.8	445.7	445.7	445.7	445.7	445.7	446.2
172.5°	449.9	449.6	449.3	449.0	448.7	448.5	448.5	448.5	448.5	448.5	449.0
175°	453.1	452.8	452.5	452.2	451.9	451.7	451.7	451.7	451.7	451.7	452.2
177.5°	454.7	454.5	454.2	454.0	453.7	453.6	453.5	453.5	453.4	453.3	453.7
180°	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2



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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°	168.8	176.8	184.9	190.1	192.6	195.1	197.5	200.0
90°	150.2	158.6	166.9	172.5	175.1	177.8	180.4	183.1
92.5°	152.9	161.1	169.3	174.7	177.3	179.9	182.5	185.1
95°	157.4	165.5	173.7	179.1	181.7	184.3	186.8	189.4
97.5°	164.9	172.7	180.5	185.7	188.1	190.6	193.0	195.5
100°	169.8	177.8	185.8	190.9	193.1	195.4	197.6	199.8
102.5°	175.7	183.5	191.3	196.3	198.6	200.9	203.2	205.5
105°	185.0	192.4	199.8	204.9	207.5	210.2	212.8	215.5
107.5°	197.4	204.5	211.6	216.2	218.3	220.4	222.6	224.7
110°	205.7	212.5	219.3	223.9	226.2	228.6	230.9	233.3



TEST NUMBER: P333299

CATALOG NUMBER: S125DIP-S1270D365U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	214.0	220.4	226.8	231.2	233.5	235.8	238.0	240.3
115°	227.6	233.7	239.9	244.0	246.0	248.0	250.0	252.0
117.5°	240.6	246.6	252.5	256.5	258.6	260.6	262.6	264.7
120°	249.9	255.8	261.7	265.5	267.3	269.0	270.8	272.6
122.5°	258.4	263.9	269.5	273.2	275.0	276.8	278.7	280.5
125°	271.4	276.8	282.2	285.7	287.4	289.0	290.7	292.3
127.5°	283.9	289.0	294.0	297.5	299.3	301.2	303.0	304.9
130°	293.2	298.0	302.8	305.9	307.5	309.1	310.7	312.2
132.5°	301.2	306.0	310.8	313.8	315.0	316.2	317.5	318.7
135°	313.1	317.6	322.1	325.0	326.5	327.9	329.3	330.7
137.5°	326.1	330.3	334.5	337.1	338.1	339.1	340.0	341.0
140°	334.1	338.1	342.0	344.5	345.5	346.5	347.5	348.5
142.5°	342.5	345.9	349.2	351.4	352.4	353.4	354.4	355.4
145°	356.2	357.9	359.7	361.1	362.3	363.4	364.6	365.7
147.5°	369.9	370.7	371.4	371.8	371.9	372.0	372.1	372.2
150°	378.9	378.9	378.9	379.0	379.2	379.4	379.6	379.7
152.5°	388.3	388.5	388.7	388.7	388.5	388.3	388.0	387.8
155°	401.8	402.1	402.4	402.4	402.0	401.6	401.2	400.8
157.5°	413.4	413.8	414.1	414.0	413.5	412.9	412.4	411.9
160°	420.5	420.8	421.1	421.1	420.7	420.3	419.9	419.5
162.5°	427.1	427.5	427.9	427.9	427.4	426.9	426.5	426.0
165°	436.1	436.4	436.7	436.6	436.1	435.7	435.2	434.7
167.5°	442.7	443.1	443.6	443.6	443.1	442.6	442.1	441.7
170°	446.6	447.1	447.6	447.5	447.0	446.4	445.9	445.3
172.5°	449.5	449.9	450.4	450.4	449.9	449.4	448.9	448.4
175°	452.6	453.1	453.6	453.5	453.0	452.4	451.9	451.3
177.5°	454.1	454.5	454.8	454.8	454.4	453.9	453.5	453.0
180°	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2

(END OF REPORT)