

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: P333300

Luminaire Tested: **S125DIP-S1270D365U835-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333300
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-S1270D365U835-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6241.2 lumens
Efficiency: N/A
Efficacy: 125.3 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

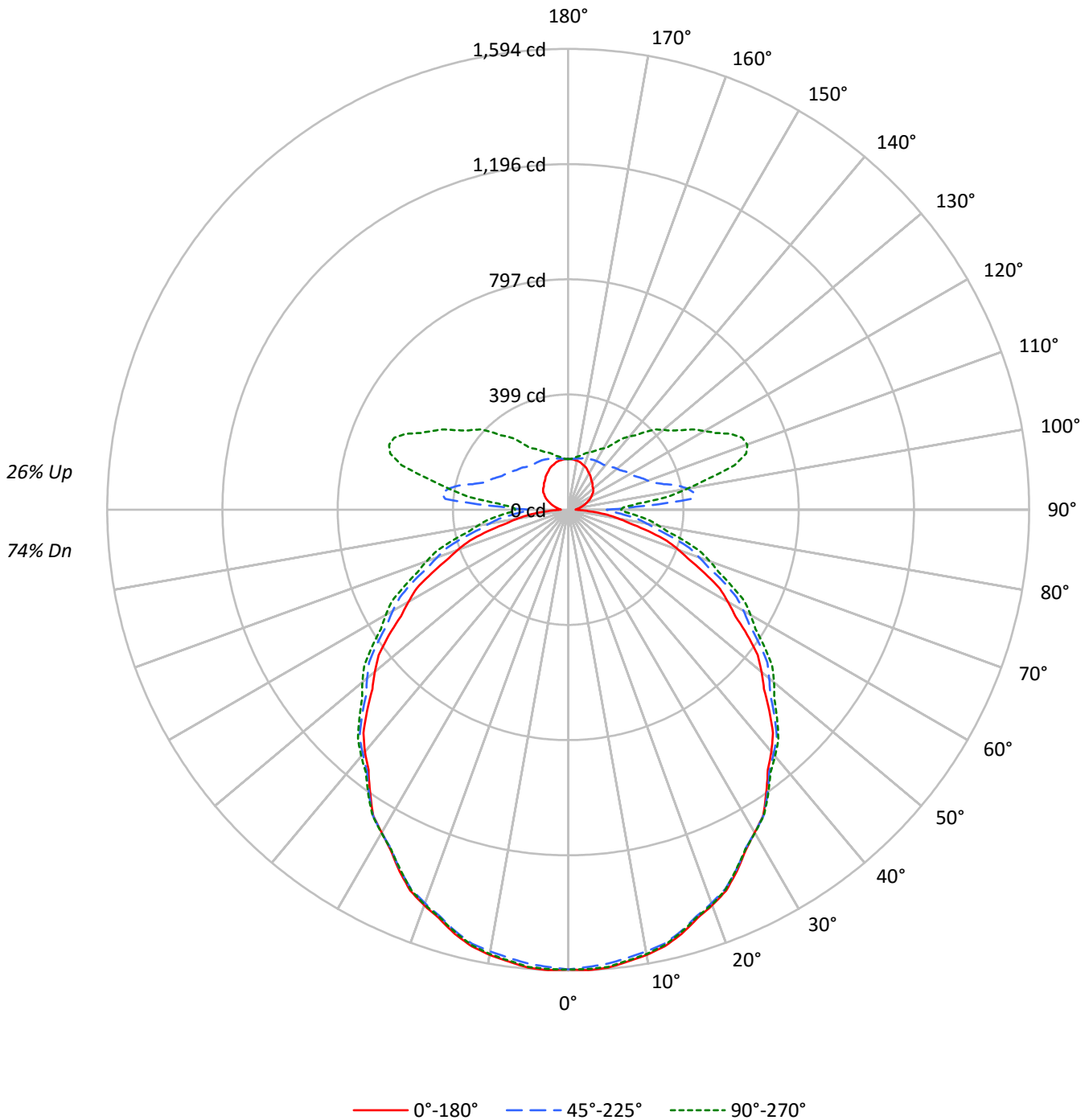
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97		87	87	87		78	78	78	74
1	102	97	93	89	97	92	88	85	83	80	77		75	73	70		67	66	64	60
2	93	84	77	72	88	80	74	69	72	68	63		65	61	58		59	56	53	50
3	84	74	66	59	80	70	63	57	64	58	53		57	53	49		52	48	45	41
4	77	65	57	50	73	62	54	48	56	50	45		51	46	41		46	42	38	35
5	71	58	49	43	67	55	47	41	50	44	39		46	40	36		41	37	33	30
6	65	52	43	37	62	50	42	36	45	39	34		41	36	31		38	33	29	27
7	60	47	39	33	57	45	37	32	41	35	30		38	32	28		34	29	26	23
8	56	43	35	29	53	41	33	28	38	31	26		34	29	25		31	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	46	35	28	23	32	26	21		29	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	6.8
20°-30°	634.8	10.2
30°-40°	752.0	12.0
40°-50°	777.5	12.5
50°-60°	716.2	11.5
60°-70°	579.0	9.3
70°-80°	387.7	6.2
80°-90°	202.1	3.2
90°-100°	239.9	3.8
100°-110°	356.3	5.7
110°-120°	312.1	5.0
120°-130°	239.4	3.8
130°-140°	180.5	2.9
140°-150°	128.6	2.1
150°-160°	88.6	1.4
160°-170°	52.2	0.8
170°-180°	17.0	0.3
0°-30°	1212.1	19.4
0°-40°	1964.1	31.5
0°-60°	3457.8	55.4
0°-90°	4626.6	74.1
90°-120°	908.3	14.6
90°-150°	1456.9	23.3
90°-180°	1615.0	25.9
0°-180°	6241.2	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	17
95°	32	96	427	289	242	28
105°	54	96	342	620	596	57
115°	81	108	266	531	620	80
125°	105	122	233	413	480	93
135°	119	142	208	328	382	92
145°	137	155	196	252	283	85
155°	154	166	192	216	226	71
165°	168	173	184	195	198	47
175°	175	175	176	178	178	17
180°	175	175	175	175	175	



TEST NUMBER: P333300

CATALOG NUMBER: S125DIP-S1270D365U835-4F0-1E-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°	48.7	59.9	71.1	82.3	93.6	105.1	117.0	128.9	140.8	152.7	160.7
90°	25.3	36.7	48.5	60.3	72.1	84.3	96.4	108.9	121.0	133.5	141.8
92.5°	26.8	37.9	51.2	65.8	82.1	103.6	135.0	179.4	226.6	236.8	222.8
95°	31.9	41.3	53.1	66.0	82.8	109.1	158.7	248.2	357.6	426.9	427.8
97.5°	37.8	46.3	56.4	68.4	83.5	104.7	141.1	209.4	322.8	440.4	501.0
100°	41.9	49.9	58.6	69.7	83.7	103.5	135.1	192.1	292.3	418.9	514.5
102.5°	46.6	53.7	61.6	72.5	85.3	104.4	133.5	182.9	268.9	387.1	497.4
105°	54.0	59.5	66.8	75.9	87.1	105.0	130.9	172.8	242.2	342.0	450.3
107.5°	61.1	66.6	73.0	80.6	91.2	107.4	132.4	169.4	227.5	309.7	404.0
110°	66.4	71.3	76.8	84.2	93.6	109.8	133.9	168.0	220.5	293.1	376.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	72.9	76.9	81.4	87.9	96.5	111.8	135.2	167.6	215.8	281.3	355.1
115°	80.7	83.9	87.4	93.0	100.7	115.2	137.3	166.8	209.8	266.5	329.6
117.5°	87.7	90.3	93.0	97.8	105.4	119.0	139.9	167.1	205.1	255.4	311.1
120°	93.3	95.4	97.9	102.1	109.1	122.5	142.8	167.8	202.9	248.7	300.2
122.5°	98.0	99.3	100.9	104.6	111.6	124.5	144.6	168.4	200.2	242.3	289.8
125°	105.2	105.6	107.0	109.8	116.2	128.7	147.2	169.4	196.8	233.1	275.4
127.5°	109.5	110.2	112.1	115.8	122.6	134.5	151.4	171.1	194.6	225.0	261.4
130°	113.2	113.9	116.4	120.6	127.7	139.1	154.9	173.2	194.0	220.7	253.2
132.5°	114.8	116.0	119.4	124.4	132.1	143.1	157.8	174.1	192.6	215.7	244.8
135°	119.0	120.1	124.0	129.3	136.4	147.0	160.3	174.4	189.9	208.3	232.9
137.5°	124.5	125.3	129.0	134.4	141.4	151.6	162.8	175.1	188.8	203.1	223.3
140°	126.7	127.7	132.0	137.6	144.3	154.1	164.6	175.6	187.3	199.6	217.6
142.5°	130.6	131.1	134.8	140.2	146.3	155.2	165.0	175.1	185.9	197.4	213.1
145°	136.6	136.9	140.1	144.7	150.7	158.7	167.9	176.7	186.2	196.5	208.8
147.5°	141.2	141.6	144.7	149.3	154.8	161.9	170.0	178.0	186.6	195.6	205.5
150°	144.9	145.6	148.1	152.7	157.6	163.6	171.4	178.8	186.6	194.7	203.2
152.5°	148.9	149.3	151.5	155.5	160.2	165.6	172.8	179.4	186.3	193.6	201.2
155°	154.1	154.1	156.2	159.7	163.3	168.2	174.2	179.9	185.5	191.6	197.9
157.5°	158.8	158.7	160.4	163.4	166.5	170.3	175.4	180.2	184.6	189.4	194.8
160°	161.9	161.5	162.9	165.4	168.2	171.4	176.0	180.2	183.8	188.0	192.3
162.5°	164.4	164.1	165.5	167.7	169.9	172.5	176.6	180.0	182.9	186.3	190.0
165°	168.2	167.5	168.6	170.3	171.8	173.9	176.7	179.5	181.7	183.8	186.6
167.5°	170.8	170.4	171.1	172.0	173.0	174.4	176.7	178.7	179.7	181.3	183.3
170°	172.5	172.1	172.5	173.2	173.9	174.9	176.7	178.1	178.8	179.9	181.3
172.5°	173.6	173.0	173.3	174.0	174.4	174.9	176.4	177.6	177.7	178.2	179.3
175°	174.9	174.2	174.6	174.9	174.9	174.9	176.0	176.7	176.4	176.4	176.7
177.5°	175.6	175.0	175.0	175.3	175.0	175.0	175.6	175.9	175.3	175.3	175.6
180°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3



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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	184.8	190.2	192.6	195.0	197.5	199.9
90°	150.1	158.5	166.8	172.7	175.1	177.5	180.3	182.7
92.5°	200.9	191.4	187.8	187.7	185.6	187.1	189.1	190.9
95°	383.2	337.1	301.2	276.6	253.9	245.7	245.3	242.1
97.5°	499.0	468.6	433.5	397.1	377.6	360.2	352.3	350.1
100°	549.0	539.0	509.9	477.8	455.5	432.1	421.1	417.5
102.5°	562.4	580.1	569.6	549.3	525.3	509.3	497.2	495.0
105°	542.1	597.4	619.9	620.7	611.8	602.6	597.9	596.1
107.5°	494.6	566.1	612.9	635.8	643.7	645.8	645.6	644.9
110°	459.6	533.4	589.8	624.3	642.7	651.8	656.7	659.1



TEST NUMBER: P333300

CATALOG NUMBER: S125DIP-S1270D365U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	430.9	501.0	557.7	597.5	623.1	637.1	645.7	650.6
115°	394.2	455.2	509.8	552.5	582.2	601.2	613.2	619.9
117.5°	367.2	420.3	467.9	507.4	537.3	557.2	569.4	574.5
120°	352.0	400.3	445.1	480.2	508.4	527.5	539.1	544.0
122.5°	338.9	383.8	424.0	457.0	482.4	500.0	511.6	516.3
125°	320.1	361.7	398.0	427.1	448.6	464.8	474.4	479.6
127.5°	300.8	339.6	373.4	400.8	420.8	435.6	444.9	448.5
130°	289.5	325.4	357.8	384.1	403.5	416.9	425.7	429.5
132.5°	277.4	311.4	341.2	366.5	385.6	398.8	406.7	410.6
135°	260.0	288.9	316.0	339.3	356.6	370.0	378.1	381.9
137.5°	245.8	269.6	292.5	312.4	327.7	339.7	346.9	350.6
140°	237.3	257.7	277.8	295.2	309.7	320.2	326.9	330.1
142.5°	230.0	247.3	264.6	279.8	292.2	301.4	307.8	310.7
145°	221.5	234.2	246.9	258.0	267.9	275.3	280.5	283.3
147.5°	214.6	224.1	233.1	240.9	248.2	253.6	256.5	257.8
150°	211.0	218.8	225.5	232.0	237.7	242.2	244.0	244.7
152.5°	208.2	215.1	221.2	226.2	230.7	234.2	235.7	236.1
155°	203.9	209.6	214.5	218.4	221.9	224.4	225.5	225.8
157.5°	199.7	204.3	208.2	211.2	214.0	216.0	217.0	216.9
160°	196.9	200.4	203.9	206.4	208.9	210.6	211.3	211.0
162.5°	193.7	197.0	200.0	202.2	204.1	205.5	205.7	205.6
165°	189.4	191.9	194.0	195.8	197.2	197.9	197.9	197.9
167.5°	185.3	187.0	188.6	189.9	190.6	191.2	190.9	190.8
170°	183.1	184.1	185.2	185.9	186.6	187.0	187.0	186.6
172.5°	180.5	181.6	182.4	182.8	182.9	183.6	183.0	182.6
175°	177.8	177.8	178.5	178.5	178.5	178.8	178.1	177.8
177.5°	175.9	176.1	176.1	176.1	175.9	176.1	175.3	175.3
180°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3

(END OF REPORT)