

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: P333145

Luminaire Tested: **S125DIP-S375D1035U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333145  
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-S375D1035U835-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5599.1 lumens  
Efficiency: N/A  
Efficacy: 150.1 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-Indirect

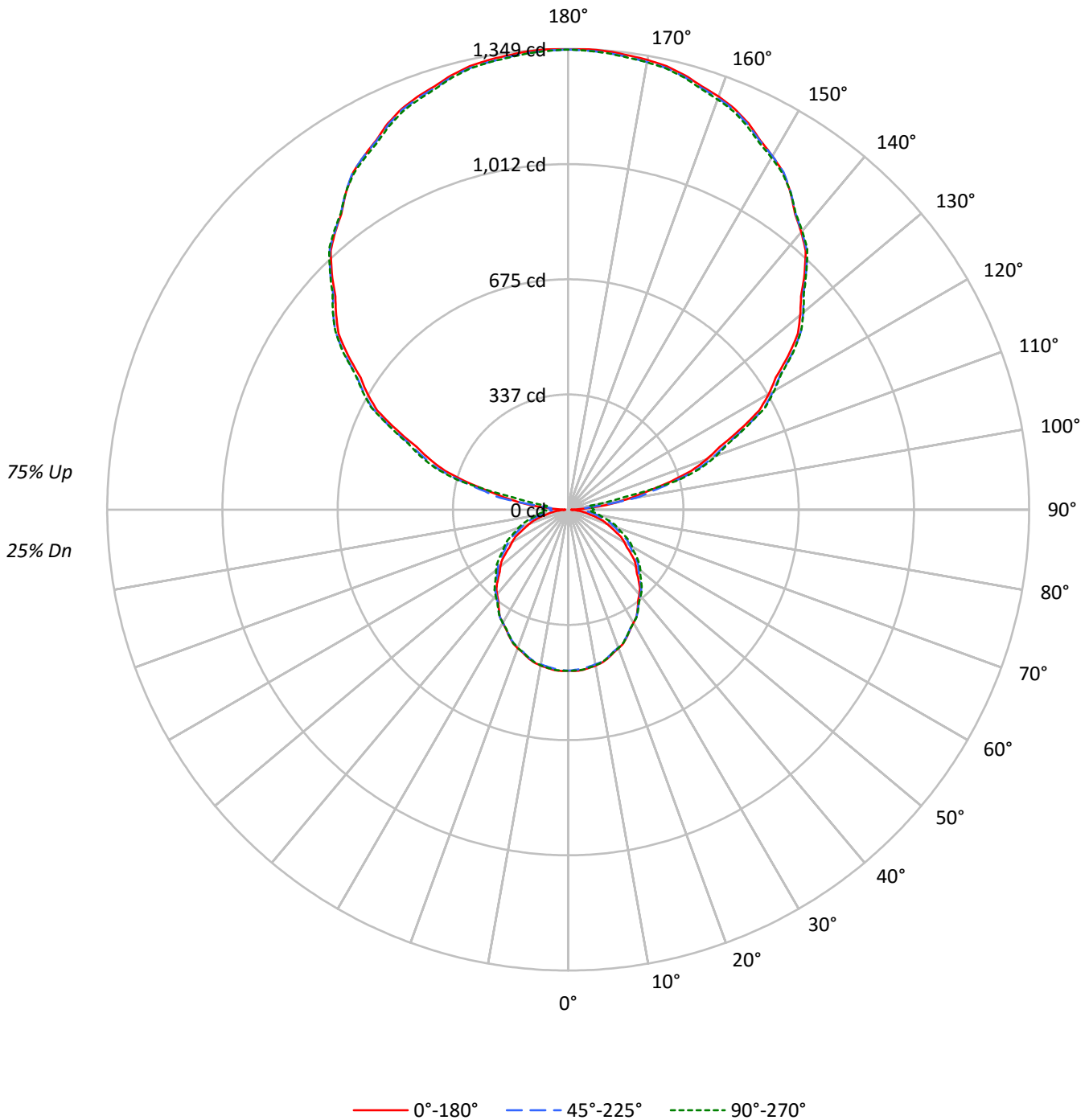
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	28	27	20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	59	53	49	46	42	38	33	31	28	22	20	19	14
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	19	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

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

	0°	45°	90°
0°	3044	3044	3044
5°	3051	2988	2998
10°	3028	2935	2930
15°	2993	2871	2845
20°	2945	2792	2759
25°	2886	2707	2654
30°	2816	2615	2559
35°	2751	2529	2470
40°	2685	2439	2382
45°	2609	2362	2304
50°	2537	2279	2234
55°	2450	2199	2154
60°	2356	2110	2070
65°	2259	2016	1977
70°	2147	1887	1882
75°	1968	1763	1763
80°	1736	1613	1635
85°	1520	1511	1594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	0.8
10°-20°	126.5	2.3
20°-30°	188.2	3.4
30°-40°	222.9	4.0
40°-50°	230.5	4.1
50°-60°	212.3	3.8
60°-70°	171.6	3.1
70°-80°	114.9	2.1
80°-90°	62.4	1.1
90°-100°	82.4	1.5
100°-110°	326.3	5.8
110°-120°	563.6	10.1
120°-130°	711.5	12.7
130°-140°	759.3	13.6
140°-150°	709.7	12.7
150°-160°	573.4	10.2
160°-170°	370.9	6.6
170°-180°	127.9	2.3
0°-30°	359.3	6.4
0°-40°	582.2	10.4
0°-60°	1025.0	18.3
0°-90°	1373.9	24.5
90°-120°	972.4	17.4
90°-150°	3152.9	56.3
90°-180°	4225.0	75.5
0°-180°	5599.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	471	470	467	471	470	45
15°	450	450	447	450	448	127
25°	409	410	408	409	407	188
35°	354	357	356	357	357	221
45°	292	297	299	302	303	225
55°	224	232	239	244	246	200
65°	154	165	176	183	185	153
75°	85	97	112	121	123	90
85°	25	41	57	67	71	27
90°	8	31	54	69	76	7
95°	63	70	50	64	68	77
105°	298	309	323	332	334	316
115°	554	562	575	579	576	549
125°	786	792	801	805	804	701
135°	978	984	985	989	986	754
145°	1134	1135	1135	1138	1134	709
155°	1248	1243	1244	1246	1239	575
165°	1317	1311	1312	1317	1310	372
175°	1347	1341	1342	1349	1341	128
180°	1347	1347	1347	1347	1347	



TEST NUMBER: P333145

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	472.5	472.3	472.2	472.0	471.9	471.5	470.9	470.3	469.8	469.2	469.8
5°	471.4	471.2	471.0	470.8	470.6	470.1	469.4	468.7	468.0	467.2	468.1
7.5°	467.2	467.2	467.1	467.0	466.9	466.5	465.8	465.0	464.3	463.5	464.3
10°	463.5	463.5	463.5	463.5	463.5	463.1	462.3	461.5	460.7	459.8	460.6
12.5°	458.4	458.5	458.5	458.6	458.7	458.4	457.8	457.1	456.4	455.8	456.3
15°	450.1	450.2	450.3	450.5	450.6	450.2	449.5	448.8	448.1	447.4	448.0
17.5°	439.4	439.6	439.8	440.0	440.2	440.0	439.3	438.5	437.8	437.1	437.6
20°	431.7	431.9	432.1	432.3	432.5	432.2	431.5	430.8	430.1	429.3	429.7
22.5°	422.8	423.2	423.5	423.9	424.3	424.0	423.2	422.4	421.6	420.8	421.2
25°	409.0	409.3	409.6	409.9	410.2	410.1	409.5	408.9	408.2	407.6	408.0
27.5°	393.7	394.1	394.6	395.0	395.5	395.4	394.7	394.0	393.3	392.6	392.8
30°	382.2	382.8	383.4	384.1	384.7	384.7	384.1	383.4	382.8	382.2	382.4
32.5°	371.9	372.4	372.9	373.5	374.0	374.0	373.6	373.1	372.7	372.2	372.4
35°	354.0	354.7	355.5	356.2	356.9	357.1	356.8	356.5	356.2	355.9	356.2
37.5°	336.2	336.8	337.5	338.1	338.8	339.1	339.0	338.9	338.8	338.7	339.1
40°	324.0	324.8	325.6	326.4	327.3	327.6	327.5	327.4	327.3	327.2	327.6
42.5°	310.7	311.7	312.8	313.9	314.9	315.6	315.8	316.0	316.3	316.5	317.0
45°	291.6	292.8	293.9	295.0	296.1	297.0	297.5	298.0	298.5	299.0	299.7
47.5°	272.1	273.2	274.2	275.3	276.3	277.3	278.2	279.0	279.9	280.8	281.9
50°	258.8	259.9	261.1	262.2	263.3	264.5	265.6	266.7	267.8	269.0	270.1
52.5°	244.8	246.1	247.5	248.9	250.3	251.6	253.0	254.4	255.8	257.1	258.4
55°	224.1	225.8	227.4	229.1	230.7	232.4	234.0	235.6	237.3	238.9	240.1
57.5°	203.1	205.0	207.0	209.0	211.0	212.9	214.8	216.7	218.6	220.4	221.7
60°	189.0	191.1	193.1	195.2	197.2	199.3	201.3	203.4	205.5	207.5	209.0
62.5°	175.3	177.4	179.5	181.5	183.6	185.7	187.9	190.1	192.4	194.6	196.3
65°	154.4	156.7	159.1	161.4	163.8	166.2	168.7	171.2	173.6	176.1	177.6
67.5°	134.6	136.9	139.1	141.4	143.7	146.1	148.6	151.1	153.6	156.1	158.0
70°	120.2	122.5	124.9	127.2	129.6	132.1	134.8	137.5	140.1	142.8	144.8
72.5°	106.1	108.6	111.0	113.4	115.9	118.6	121.5	124.4	127.3	130.2	132.4
75°	85.0	87.7	90.4	93.0	95.7	98.7	102.0	105.3	108.6	111.8	113.9
77.5°	64.8	67.9	71.0	74.0	77.1	80.2	83.4	86.6	89.7	92.9	95.2
80°	52.2	55.3	58.4	61.5	64.5	67.8	71.3	74.8	78.3	81.8	84.1
82.5°	40.8	44.0	47.3	50.5	53.7	57.2	60.7	64.3	67.9	71.4	73.6
85°	25.4	28.8	32.2	35.6	39.0	42.5	46.1	49.7	53.3	56.8	59.1
87.5°	14.6	18.3	21.9	25.5	29.2	32.9	36.7	40.5	44.3	48.1	50.7
90°	8.4	13.5	18.5	23.6	28.6	33.7	38.7	43.8	48.8	53.9	57.3
92.5°	22.0	23.8	25.6	27.4	29.2	32.6	37.5	42.5	47.4	52.4	55.8
95°	62.9	64.9	66.9	68.9	70.9	69.5	64.5	59.6	54.7	49.7	53.1
97.5°	124.3	127.9	131.5	135.1	138.7	133.8	120.5	107.2	93.9	80.6	76.5
100°	171.8	174.7	177.5	180.3	183.1	186.6	190.8	195.0	199.1	203.3	172.4
102.5°	220.2	223.0	225.9	228.7	231.5	234.8	238.5	242.3	246.0	249.8	245.6
105°	297.7	300.2	302.8	305.3	307.8	310.6	313.7	316.8	319.9	323.0	325.0
107.5°	378.2	379.6	381.0	382.4	383.8	386.2	389.6	393.0	396.4	399.8	401.9
110°	430.6	431.8	433.0	434.3	435.5	437.8	441.1	444.4	447.7	451.1	452.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	480.1	481.6	483.1	484.7	486.2	488.5	491.5	494.6	497.6	500.7	501.7
115°	553.9	555.8	557.6	559.4	561.2	563.6	566.5	569.4	572.3	575.2	576.1
117.5°	630.3	630.8	631.2	631.6	632.1	634.0	637.3	640.7	644.1	647.4	648.0
120°	678.3	678.4	678.4	678.5	678.6	680.2	683.2	686.2	689.3	692.3	693.6
122.5°	720.2	721.2	722.2	723.2	724.2	726.0	728.6	731.2	733.7	736.3	737.6
125°	785.6	787.1	788.5	790.0	791.4	793.2	795.3	797.3	799.4	801.4	802.2
127.5°	847.7	848.7	849.7	850.7	851.7	853.0	854.5	856.1	857.6	859.2	860.2
130°	886.0	887.0	888.0	889.0	890.1	891.4	893.0	894.7	896.4	898.0	898.8
132.5°	924.0	925.3	926.5	927.8	929.1	930.0	930.6	931.3	931.9	932.5	933.8
135°	978.4	979.7	980.9	982.1	983.3	984.1	984.4	984.6	984.9	985.2	986.1
137.5°	1028.5	1029.5	1030.6	1031.7	1032.7	1033.3	1033.2	1033.2	1033.1	1033.1	1034.4
140°	1060.8	1061.3	1061.7	1062.2	1062.6	1062.8	1062.7	1062.5	1062.4	1062.3	1063.9
142.5°	1090.4	1090.6	1090.8	1090.9	1091.1	1091.4	1091.7	1092.0	1092.4	1092.7	1093.8
145°	1133.7	1134.1	1134.4	1134.7	1135.1	1135.3	1135.3	1135.3	1135.3	1135.3	1136.0
147.5°	1171.2	1171.1	1171.0	1170.9	1170.8	1170.9	1171.2	1171.5	1171.7	1172.0	1172.4
150°	1195.2	1194.7	1194.3	1193.8	1193.4	1193.4	1193.8	1194.3	1194.7	1195.2	1195.6
152.5°	1218.3	1217.4	1216.4	1215.4	1214.4	1214.2	1214.6	1215.0	1215.5	1215.9	1216.4
155°	1248.1	1246.8	1245.4	1244.1	1242.8	1242.3	1242.8	1243.2	1243.6	1244.1	1244.8
157.5°	1271.0	1270.2	1269.5	1268.7	1267.9	1267.5	1267.5	1267.6	1267.6	1267.7	1268.4
160°	1287.0	1285.7	1284.4	1283.0	1281.7	1281.1	1281.4	1281.6	1281.8	1282.0	1282.9
162.5°	1299.8	1298.5	1297.1	1295.8	1294.5	1293.9	1294.1	1294.4	1294.6	1294.8	1296.1
165°	1317.0	1315.6	1314.3	1313.0	1311.7	1311.1	1311.3	1311.5	1311.8	1312.0	1313.3
167.5°	1329.8	1328.4	1327.0	1325.6	1324.3	1323.7	1323.9	1324.1	1324.3	1324.6	1326.2
170°	1336.9	1335.4	1333.8	1332.3	1330.7	1330.1	1330.3	1330.5	1330.7	1331.0	1332.7
172.5°	1341.7	1340.2	1338.6	1337.1	1335.5	1335.0	1335.3	1335.7	1336.1	1336.5	1338.1
175°	1346.9	1345.6	1344.3	1342.9	1341.6	1341.1	1341.3	1341.5	1341.7	1341.9	1343.7
177.5°	1349.3	1348.3	1347.2	1346.1	1345.1	1344.6	1344.8	1345.0	1345.2	1345.3	1346.6
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	470.3	470.9	471.5	471.7	471.6	471.6	471.5	471.4
5°	468.9	469.7	470.5	470.9	470.8	470.7	470.6	470.5
7.5°	465.0	465.7	466.4	466.7	466.6	466.5	466.4	466.3
10°	461.3	462.0	462.7	463.0	462.9	462.8	462.7	462.6
12.5°	456.9	457.4	458.0	458.1	457.9	457.6	457.3	457.1
15°	448.6	449.2	449.8	449.9	449.5	449.1	448.7	448.3
17.5°	438.1	438.5	439.0	439.1	438.9	438.6	438.4	438.1
20°	430.0	430.3	430.6	430.7	430.7	430.7	430.7	430.7
22.5°	421.6	422.0	422.4	422.5	422.2	422.0	421.7	421.5
25°	408.4	408.9	409.3	409.2	408.7	408.2	407.7	407.2
27.5°	393.1	393.4	393.7	393.8	393.6	393.4	393.2	393.0
30°	382.6	382.8	383.0	383.1	383.0	382.9	382.8	382.7
32.5°	372.6	372.8	373.0	373.1	373.0	372.9	372.8	372.7
35°	356.5	356.8	357.1	357.2	357.2	357.2	357.2	357.2
37.5°	339.5	339.9	340.3	340.5	340.5	340.4	340.4	340.3
40°	328.0	328.4	328.9	329.2	329.4	329.6	329.8	330.0
42.5°	317.5	318.0	318.5	318.7	318.8	318.8	318.8	318.9
45°	300.5	301.2	301.9	302.3	302.4	302.5	302.6	302.7
47.5°	282.9	284.0	285.0	285.6	285.9	286.1	286.3	286.5
50°	271.2	272.4	273.5	274.2	274.5	274.8	275.1	275.4
52.5°	259.6	260.8	262.0	262.7	262.9	263.2	263.4	263.6
55°	241.2	242.3	243.5	244.2	244.6	245.0	245.5	245.9
57.5°	223.0	224.3	225.6	226.4	226.7	227.0	227.4	227.7
60°	210.6	212.1	213.7	214.6	214.9	215.2	215.5	215.8
62.5°	198.0	199.7	201.4	202.4	202.8	203.2	203.6	204.0
65°	179.2	180.7	182.2	183.2	183.6	184.0	184.5	184.9
67.5°	159.9	161.7	163.6	164.8	165.3	165.9	166.4	166.9
70°	146.7	148.7	150.6	151.9	152.5	153.1	153.7	154.4
72.5°	134.5	136.6	138.7	140.0	140.4	140.9	141.3	141.8
75°	116.0	118.0	120.1	121.3	121.9	122.4	122.9	123.4
77.5°	97.4	99.7	101.9	103.3	103.7	104.1	104.5	104.9
80°	86.3	88.6	90.8	92.2	92.6	93.0	93.4	93.8
82.5°	75.8	78.0	80.2	81.6	82.4	83.1	83.8	84.6
85°	61.4	63.6	65.9	67.4	68.2	69.1	69.9	70.7
87.5°	53.3	55.9	58.5	60.2	61.0	61.9	62.7	63.6
90°	60.8	64.3	67.8	70.2	71.6	73.0	74.3	75.7
92.5°	59.2	62.6	66.0	68.2	69.2	70.2	71.2	72.3
95°	56.5	59.8	63.2	65.2	66.0	66.7	67.4	68.1
97.5°	72.4	68.3	64.2	62.4	63.1	63.8	64.5	65.2
100°	141.5	110.6	79.7	64.1	63.8	63.6	63.3	63.0
102.5°	241.4	237.2	233.0	223.7	209.2	194.8	180.3	165.8
105°	327.1	329.1	331.2	332.5	333.0	333.4	333.9	334.4
107.5°	404.0	406.1	408.1	409.2	409.1	409.1	409.1	409.0
110°	453.6	454.9	456.2	457.3	458.3	459.2	460.1	461.1





TEST NUMBER: P333145

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	502.8	503.8	504.8	505.5	505.9	506.3	506.8	507.2
115°	577.1	578.1	579.0	579.1	578.4	577.7	577.0	576.3
117.5°	648.6	649.2	649.8	650.2	650.3	650.4	650.5	650.6
120°	694.9	696.2	697.5	697.9	697.4	696.9	696.4	695.9
122.5°	738.8	740.0	741.2	741.5	740.8	740.2	739.5	738.8
125°	802.9	803.7	804.4	804.7	804.6	804.4	804.3	804.1
127.5°	861.3	862.3	863.3	863.3	862.3	861.2	860.2	859.1
130°	899.6	900.3	901.1	901.2	900.6	900.0	899.4	898.8
132.5°	935.1	936.4	937.7	938.0	937.3	936.7	936.0	935.3
135°	987.0	987.9	988.8	988.8	988.0	987.2	986.3	985.5
137.5°	1035.7	1037.0	1038.3	1038.5	1037.8	1037.0	1036.3	1035.6
140°	1065.4	1067.0	1068.6	1068.9	1068.0	1067.1	1066.2	1065.2
142.5°	1094.8	1095.9	1096.9	1097.0	1096.1	1095.1	1094.2	1093.3
145°	1136.7	1137.5	1138.2	1138.1	1137.2	1136.3	1135.3	1134.4
147.5°	1172.9	1173.3	1173.7	1173.2	1171.8	1170.4	1169.0	1167.6
150°	1196.1	1196.5	1196.9	1196.3	1194.7	1193.0	1191.3	1189.6
152.5°	1216.8	1217.3	1217.7	1217.1	1215.6	1214.0	1212.4	1210.8
155°	1245.4	1246.1	1246.8	1246.2	1244.4	1242.6	1240.9	1239.1
157.5°	1269.1	1269.8	1270.5	1270.0	1268.2	1266.4	1264.6	1262.9
160°	1283.8	1284.7	1285.6	1285.1	1283.4	1281.6	1279.8	1278.0
162.5°	1297.3	1298.5	1299.8	1299.4	1297.5	1295.5	1293.6	1291.6
165°	1314.6	1316.0	1317.3	1317.1	1315.3	1313.5	1311.8	1310.0
167.5°	1327.8	1329.4	1331.0	1330.8	1328.8	1326.8	1324.8	1322.8
170°	1334.5	1336.3	1338.1	1337.9	1335.9	1334.0	1332.0	1330.0
172.5°	1339.7	1341.3	1342.9	1342.7	1340.7	1338.7	1336.7	1334.8
175°	1345.5	1347.3	1349.0	1348.9	1346.9	1344.9	1342.9	1340.9
177.5°	1347.8	1349.1	1350.3	1350.2	1348.8	1347.4	1346.0	1344.5
180°	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9	1346.9

(END OF REPORT)