

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: P333149

Luminaire Tested: **S125DIP-S375D1035U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333149
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-S375D1035U835-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, FLUSH 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: 5102.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Indirect

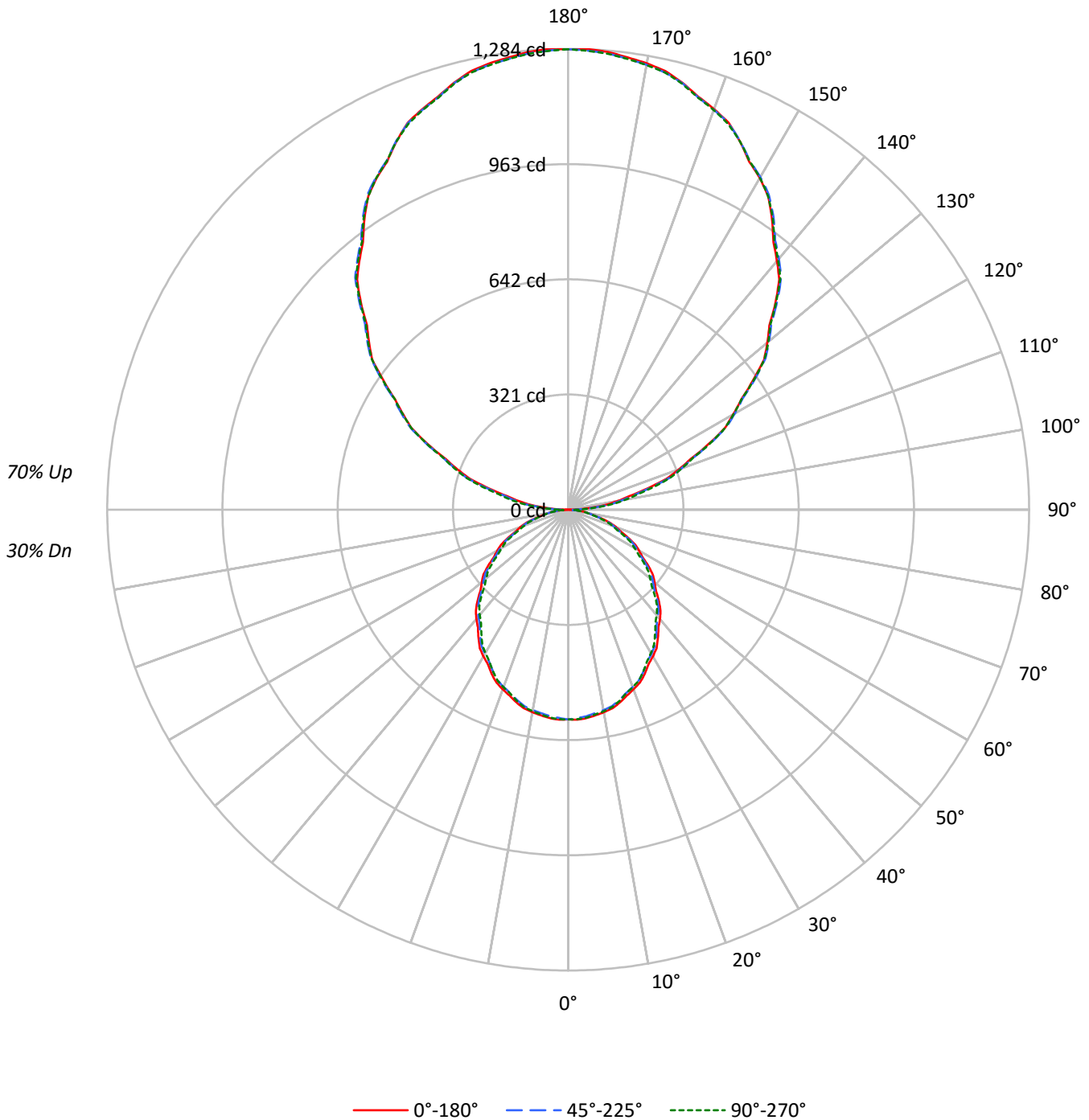
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30				
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32	25				
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	29	28	27	21				
3	77	68	61	55	69	61	55	51	49	44	41	37	34	32	26	24	23	18				
4	71	60	53	47	63	54	48	43	43	38	35	33	30	27	23	21	19	15				
5	65	54	46	40	58	48	42	36	38	34	30	29	26	23	21	19	17	13				
6	60	48	40	34	53	43	36	32	35	30	26	26	23	20	19	17	15	12				
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10				
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	13	12	9				
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	11	8				
10	44	32	25	21	40	29	23	19	24	19	16	18	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3773	3773	3773
5°	3781	3745	3769
10°	3758	3719	3740
15°	3718	3674	3689
20°	3659	3612	3618
25°	3596	3537	3534
30°	3519	3457	3439
35°	3436	3370	3323
40°	3351	3277	3230
45°	3259	3191	3128
50°	3158	3088	2995
55°	3059	2971	2888
60°	2942	2853	2753
65°	2804	2713	2621
70°	2670	2549	2460
75°	2433	2353	2271
80°	2165	2131	2079
85°	1882	1919	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	155.6	3.0
20°-30°	229.7	4.5
30°-40°	268.1	5.3
40°-50°	269.2	5.3
50°-60°	236.3	4.6
60°-70°	176.1	3.5
70°-80°	100.7	2.0
80°-90°	32.1	0.6
90°-100°	85.9	1.7
100°-110°	253.7	5.0
110°-120°	429.8	8.4
120°-130°	565.6	11.1
130°-140°	633.8	12.4
140°-150°	621.1	12.2
150°-160°	521.7	10.2
160°-170°	346.8	6.8
170°-180°	121.4	2.4
0°-30°	440.4	8.6
0°-40°	708.5	13.9
0°-60°	1214.0	23.8
0°-90°	1522.9	29.8
90°-120°	769.4	15.1
90°-150°	2589.9	50.8
90°-180°	3580.0	70.2
0°-180°	5102.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	582	578	582	581	55
15°	556	554	550	552	552	157
25°	505	502	496	497	496	232
35°	436	434	428	425	422	272
45°	357	355	349	344	342	275
55°	272	270	264	260	256	243
65°	184	182	178	173	172	182
75°	98	96	94	93	91	104
85°	25	26	26	25	24	28
90°	1	9	16	21	24	5
95°	65	67	77	84	86	69
105°	228	233	239	244	248	243
115°	430	434	436	435	434	425
125°	628	634	635	633	632	562
135°	817	822	824	823	820	629
145°	989	993	996	996	993	618
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°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	585.6	585.4	585.2	584.9	584.7	584.1	583.3	582.5	581.7	580.8	581.7
5°	583.2	583.0	582.8	582.6	582.4	581.8	580.8	579.8	578.7	577.7	578.6
7.5°	577.9	577.7	577.5	577.3	577.1	576.4	575.3	574.1	573.0	571.9	572.8
10°	573.1	572.9	572.7	572.5	572.3	571.6	570.5	569.3	568.2	567.1	567.9
12.5°	567.2	566.8	566.4	566.1	565.7	565.0	563.9	562.9	561.8	560.8	561.4
15°	556.0	555.7	555.4	555.1	554.7	554.0	552.9	551.8	550.6	549.5	550.0
17.5°	543.1	542.7	542.2	541.8	541.3	540.5	539.3	538.2	537.0	535.8	536.5
20°	532.4	532.2	532.0	531.8	531.6	530.8	529.5	528.1	526.8	525.5	526.2
22.5°	521.7	521.3	520.9	520.6	520.2	519.4	518.1	516.9	515.6	514.4	514.9
25°	504.7	504.2	503.6	503.1	502.6	501.7	500.4	499.0	497.7	496.4	496.6
27.5°	484.8	484.5	484.2	483.9	483.6	482.7	481.4	480.0	478.6	477.2	477.3
30°	471.9	471.6	471.2	470.9	470.6	469.7	468.2	466.6	465.1	463.5	463.3
32.5°	457.8	457.3	456.9	456.4	455.9	455.0	453.6	452.2	450.9	449.5	449.1
35°	435.8	435.4	435.0	434.6	434.2	433.2	431.8	430.4	428.9	427.5	427.0
37.5°	413.0	412.5	412.0	411.4	410.9	410.0	408.6	407.3	405.9	404.6	403.8
40°	397.5	396.9	396.4	395.9	395.4	394.4	393.0	391.6	390.1	388.7	387.8
42.5°	380.8	380.4	380.0	379.5	379.1	378.2	376.7	375.3	373.8	372.4	371.6
45°	356.8	356.4	356.0	355.6	355.1	354.3	353.1	351.9	350.6	349.4	348.2
47.5°	330.9	330.9	330.9	331.0	331.0	330.3	328.8	327.3	325.8	324.3	323.1
50°	314.3	314.0	313.7	313.3	313.0	312.3	311.0	309.8	308.6	307.3	306.0
52.5°	297.3	297.0	296.8	296.6	296.4	295.6	294.3	293.0	291.6	290.3	289.2
55°	271.7	271.4	271.1	270.8	270.5	269.6	268.2	266.8	265.3	263.9	263.0
57.5°	244.9	244.7	244.5	244.4	244.2	243.5	242.3	241.1	239.9	238.7	237.5
60°	227.8	227.4	227.0	226.6	226.2	225.4	224.3	223.2	222.0	220.9	219.9
62.5°	210.1	209.8	209.4	209.1	208.8	208.1	207.2	206.2	205.2	204.3	203.2
65°	183.5	183.3	183.1	182.9	182.7	182.0	180.9	179.7	178.6	177.5	176.5
67.5°	157.7	157.3	156.8	156.4	156.0	155.3	154.5	153.6	152.8	152.0	151.2
70°	141.4	140.9	140.4	139.9	139.4	138.6	137.7	136.8	135.9	135.0	134.3
72.5°	123.7	123.3	123.0	122.6	122.3	121.8	121.2	120.6	120.0	119.4	118.7
75°	97.5	97.3	97.1	96.9	96.7	96.3	95.8	95.3	94.8	94.3	94.0
77.5°	73.4	73.3	73.2	73.1	73.1	72.9	72.6	72.3	72.0	71.7	71.5
80°	58.2	58.2	58.2	58.2	58.2	58.1	57.9	57.7	57.5	57.3	57.2
82.5°	44.9	44.8	44.6	44.4	44.3	44.2	44.1	44.1	44.0	44.0	43.8
85°	25.4	25.5	25.6	25.7	25.8	25.9	25.9	25.9	25.9	25.9	25.8
87.5°	10.2	10.5	10.9	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0
90°	1.0	2.8	4.5	6.3	8.1	9.8	11.3	12.9	14.4	16.0	17.1
92.5°	24.2	25.4	26.6	27.9	29.1	30.7	32.6	34.5	36.4	38.3	39.8
95°	64.9	65.3	65.8	66.2	66.7	68.0	70.2	72.4	74.7	76.9	78.4
97.5°	107.8	108.0	108.2	108.4	108.5	110.2	113.2	116.3	119.3	122.4	123.9
100°	139.8	139.8	139.8	139.8	139.8	141.2	144.1	147.0	149.9	152.7	154.7
102.5°	174.1	175.0	175.9	176.8	177.7	178.8	180.3	181.8	183.2	184.7	186.9
105°	227.6	228.7	229.8	231.0	232.1	233.3	234.6	235.9	237.3	238.6	239.9
107.5°	286.7	287.8	288.9	290.1	291.2	292.2	293.2	294.3	295.3	296.3	297.0
110°	327.5	328.6	329.7	330.8	331.9	332.8	333.4	334.1	334.8	335.4	336.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	369.0	369.6	370.1	370.7	371.3	372.0	372.9	373.7	374.5	375.4	375.7
115°	430.3	431.2	432.1	433.0	433.8	434.5	434.9	435.4	435.8	436.3	436.1
117.5°	491.8	492.2	492.6	493.0	493.4	493.8	494.2	494.6	495.0	495.4	495.6
120°	530.1	531.2	532.3	533.5	534.6	535.2	535.4	535.7	535.9	536.1	536.1
122.5°	571.7	572.1	572.5	572.9	573.3	573.7	574.3	574.9	575.5	576.0	575.9
125°	628.0	629.3	630.6	632.0	633.3	634.1	634.3	634.5	634.7	635.0	634.5
127.5°	687.9	688.6	689.4	690.1	690.9	691.4	691.7	691.9	692.2	692.5	692.2
130°	723.8	724.9	726.0	727.1	728.2	729.0	729.5	729.9	730.3	730.8	730.6
132.5°	759.7	761.6	763.4	765.2	767.0	767.9	767.8	767.7	767.6	767.5	767.3
135°	816.7	818.0	819.3	820.6	822.0	822.8	823.0	823.2	823.4	823.6	823.6
137.5°	870.2	871.4	872.7	874.0	875.3	876.2	876.7	877.2	877.7	878.1	878.4
140°	904.5	905.6	906.7	907.8	908.9	909.8	910.5	911.2	911.8	912.5	912.9
142.5°	938.8	939.8	940.7	941.6	942.6	943.5	944.3	945.2	946.0	946.8	947.1
145°	989.4	990.3	991.1	992.0	992.9	993.7	994.4	995.0	995.7	996.4	996.4
147.5°	1036.1	1036.6	1037.1	1037.6	1038.0	1038.6	1039.1	1039.6	1040.1	1040.7	1041.2
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°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	582.5	583.3	584.1	584.5	584.4	584.3	584.3	584.2
5°	579.5	580.5	581.4	581.8	581.7	581.6	581.5	581.4
7.5°	573.7	574.6	575.5	575.9	575.8	575.7	575.6	575.5
10°	568.7	569.5	570.4	570.7	570.6	570.5	570.4	570.3
12.5°	562.1	562.8	563.4	563.7	563.7	563.7	563.7	563.6
15°	550.5	551.0	551.6	551.8	551.8	551.8	551.8	551.8
17.5°	537.1	537.7	538.4	538.4	537.9	537.4	536.9	536.4
20°	526.9	527.6	528.3	528.5	527.9	527.4	526.9	526.4
22.5°	515.3	515.8	516.3	516.3	516.0	515.6	515.3	514.9
25°	496.8	497.0	497.2	497.1	496.8	496.5	496.2	495.9
27.5°	477.3	477.3	477.4	477.3	476.9	476.6	476.3	476.0
30°	463.1	462.9	462.7	462.5	462.2	461.9	461.5	461.2
32.5°	448.8	448.4	448.0	447.6	447.0	446.4	445.9	445.3
35°	426.5	426.0	425.4	424.8	424.0	423.1	422.3	421.5
37.5°	403.1	402.3	401.5	400.9	400.4	400.0	399.5	399.0
40°	386.8	385.9	385.0	384.4	384.1	383.7	383.4	383.1
42.5°	370.7	369.9	369.0	368.4	367.9	367.4	367.0	366.5
45°	346.9	345.7	344.5	343.7	343.4	343.1	342.8	342.5
47.5°	321.8	320.6	319.3	318.3	317.6	316.9	316.2	315.5
50°	304.7	303.3	302.0	301.0	300.2	299.5	298.8	298.1
52.5°	288.0	286.8	285.6	284.7	283.9	283.1	282.3	281.5
55°	262.0	261.1	260.2	259.4	258.7	257.9	257.2	256.5
57.5°	236.3	235.1	233.9	233.1	232.7	232.3	231.9	231.5
60°	218.9	217.8	216.8	215.9	215.2	214.5	213.8	213.1
62.5°	202.1	200.9	199.8	199.0	198.5	197.9	197.3	196.8
65°	175.6	174.7	173.8	173.1	172.7	172.3	171.9	171.5
67.5°	150.4	149.6	148.8	148.3	148.1	147.8	147.6	147.3
70°	133.7	133.1	132.5	132.0	131.6	131.2	130.7	130.3
72.5°	118.0	117.3	116.6	116.1	115.7	115.3	114.8	114.4
75°	93.7	93.4	93.0	92.7	92.3	91.9	91.5	91.0
77.5°	71.4	71.2	71.0	70.8	70.5	70.2	69.9	69.6
80°	57.1	57.0	56.9	56.7	56.5	56.3	56.1	55.9
82.5°	43.6	43.4	43.3	43.1	43.1	43.1	43.0	43.0
85°	25.7	25.6	25.5	25.3	25.1	24.9	24.7	24.5
87.5°	13.3	13.5	13.7	13.8	13.8	13.7	13.7	13.7
90°	18.2	19.3	20.4	21.3	22.0	22.6	23.3	24.0
92.5°	41.3	42.7	44.2	45.2	45.7	46.1	46.6	47.1
95°	80.0	81.5	83.1	84.1	84.5	85.0	85.4	85.9
97.5°	125.3	126.8	128.3	129.1	129.4	129.7	129.9	130.2
100°	156.7	158.7	160.7	162.0	162.4	162.8	163.3	163.7
102.5°	189.0	191.2	193.4	194.8	195.4	196.0	196.7	197.3
105°	241.3	242.6	243.9	244.9	245.6	246.3	246.9	247.6
107.5°	297.6	298.3	299.0	299.3	299.2	299.2	299.2	299.1
110°	336.8	337.4	338.1	338.3	338.1	337.9	337.7	337.4



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CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	376.0	376.3	376.6	376.6	376.2	375.8	375.4	375.0
115°	435.8	435.6	435.4	435.2	434.9	434.7	434.5	434.3
117.5°	495.7	495.9	496.1	495.7	494.8	494.0	493.1	492.2
120°	536.1	536.1	536.1	535.7	534.8	533.9	533.0	532.1
122.5°	575.7	575.5	575.3	574.9	574.2	573.5	572.8	572.1
125°	634.1	633.6	633.2	632.8	632.6	632.4	632.2	632.0
127.5°	692.0	691.8	691.6	691.2	690.8	690.3	689.9	689.5
130°	730.3	730.1	729.9	729.6	729.1	728.7	728.2	727.8
132.5°	767.1	766.9	766.6	766.2	765.6	765.0	764.4	763.7
135°	823.6	823.6	823.6	823.2	822.3	821.4	820.5	819.6
137.5°	878.7	878.9	879.2	878.8	877.7	876.6	875.5	874.4
140°	913.4	913.8	914.3	913.9	912.8	911.7	910.6	909.5
142.5°	947.4	947.6	947.9	947.5	946.4	945.3	944.2	943.0
145°	996.4	996.4	996.4	996.0	995.4	994.7	994.0	993.4
147.5°	1041.7	1042.3	1042.8	1042.3	1040.8	1039.3	1037.8	1036.3
150°	1070.2	1070.2	1070.2	1070.0	1069.6	1069.1	1068.7	1068.2
152.5°	1096.9	1097.4	1097.9	1097.8	1097.0	1096.2	1095.4	1094.6
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)