

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: P333146-830

Luminaire Tested: **S125DIP-S375D1035U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333146-830
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-S375D1035U830-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP 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: 4752.9 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

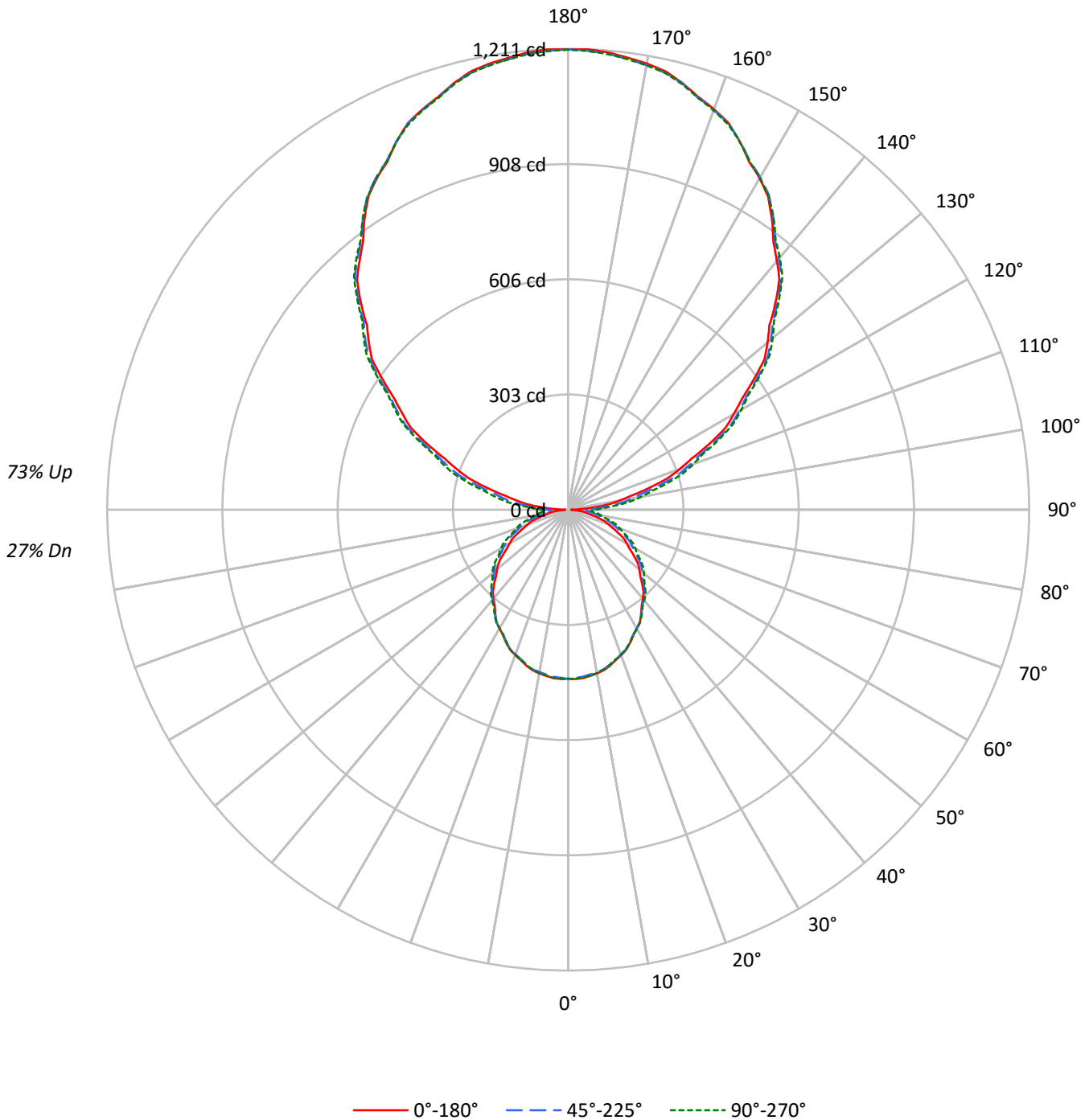
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	30	29	22
2	84	76	70	65	75	68	63	59	53	50	47	39	37	35	27	25	24	18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	22	20	15
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17	13
5	64	52	45	39	57	47	40	35	37	32	28	27	24	22	19	17	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12	9
8	50	38	31	25	45	34	28	23	27	22	19	20	17	15	14	12	10	8
9	46	35	27	22	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	22	18	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2875	2817	2826
10°	2855	2766	2762
15°	2821	2706	2681
20°	2776	2631	2601
25°	2721	2552	2502
30°	2654	2464	2411
35°	2593	2384	2329
40°	2531	2299	2245
45°	2459	2226	2171
50°	2391	2147	2106
55°	2309	2073	2030
60°	2220	1989	1951
65°	2128	1900	1864
70°	2024	1779	1773
75°	1855	1662	1662
80°	1636	1521	1540
85°	1430	1424	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.9
10°-20°	119.3	2.5
20°-30°	177.4	3.7
30°-40°	210.1	4.4
40°-50°	217.2	4.6
50°-60°	200.1	4.2
60°-70°	161.8	3.4
70°-80°	108.3	2.3
80°-90°	58.8	1.2
90°-100°	112.5	2.4
100°-110°	262.4	5.5
110°-120°	420.7	8.9
120°-130°	542.0	11.4
130°-140°	601.2	12.6
140°-150°	586.2	12.3
150°-160°	491.7	10.3
160°-170°	326.9	6.9
170°-180°	114.4	2.4
0°-30°	338.7	7.1
0°-40°	548.8	11.5
0°-60°	966.1	20.3
0°-90°	1295.0	27.2
90°-120°	795.5	16.7
90°-150°	2525.0	53.1
90°-180°	3458.0	72.8
0°-180°	4752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	443	440	444	444	42
15°	424	424	422	424	422	119
25°	386	387	384	386	384	177
35°	334	336	336	337	337	209
45°	275	280	282	285	285	212
55°	211	218	225	230	232	189
65°	146	156	166	172	174	144
75°	80	92	105	114	116	85
85°	24	38	54	63	67	26
90°	8	29	51	65	71	8
95°	67	81	104	120	125	70
105°	218	230	249	263	269	233
115°	408	415	428	435	437	404
125°	594	599	608	613	615	531
135°	771	776	780	785	784	594
145°	933	936	939	941	940	583
155°	1067	1067	1068	1071	1067	491
165°	1160	1159	1159	1162	1157	327
175°	1206	1203	1203	1208	1202	115
180°	1209	1209	1209	1209	1209	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	445.4	445.2	445.1	444.9	444.8	444.4	443.8	443.3	442.8	442.2	442.8
5°	444.3	444.1	443.9	443.7	443.6	443.1	442.4	441.8	441.1	440.4	441.2
7.5°	440.4	440.4	440.3	440.2	440.1	439.7	439.0	438.3	437.6	436.9	437.6
10°	436.9	436.9	436.9	436.9	436.9	436.5	435.7	435.0	434.2	433.4	434.1
12.5°	432.1	432.2	432.2	432.3	432.3	432.1	431.5	430.8	430.2	429.6	430.1
15°	424.2	424.3	424.4	424.6	424.7	424.3	423.7	423.0	422.4	421.7	422.3
17.5°	414.2	414.3	414.5	414.7	414.9	414.7	414.1	413.3	412.6	412.0	412.5
20°	406.9	407.1	407.3	407.5	407.6	407.4	406.7	406.0	405.4	404.6	405.0
22.5°	398.5	398.9	399.2	399.5	399.9	399.6	398.9	398.1	397.4	396.6	397.0
25°	385.5	385.8	386.1	386.3	386.6	386.5	386.0	385.4	384.7	384.2	384.6
27.5°	371.1	371.5	371.9	372.3	372.8	372.7	372.0	371.4	370.7	370.0	370.2
30°	360.2	360.8	361.4	362.0	362.6	362.6	362.0	361.4	360.8	360.2	360.4
32.5°	350.5	351.0	351.5	352.0	352.5	352.5	352.1	351.7	351.3	350.8	351.0
35°	333.7	334.3	335.1	335.7	336.4	336.6	336.3	336.0	335.7	335.5	335.7
37.5°	316.9	317.4	318.1	318.7	319.3	319.6	319.5	319.4	319.3	319.2	319.6
40°	305.4	306.1	306.9	307.6	308.5	308.8	308.7	308.6	308.5	308.4	308.8
42.5°	292.8	293.8	294.8	295.9	296.8	297.5	297.7	297.8	298.1	298.3	298.8
45°	274.8	276.0	277.0	278.1	279.1	279.9	280.4	280.9	281.3	281.8	282.5
47.5°	256.5	257.5	258.4	259.5	260.4	261.4	262.2	263.0	263.8	264.7	265.7
50°	243.9	245.0	246.1	247.1	248.2	249.3	250.3	251.4	252.4	253.5	254.6
52.5°	230.7	232.0	233.3	234.6	235.9	237.1	238.5	239.8	241.1	242.3	243.6
55°	211.2	212.8	214.3	215.9	217.4	219.0	220.6	222.1	223.7	225.2	226.3
57.5°	191.4	193.2	195.1	197.0	198.9	200.7	202.5	204.2	206.0	207.7	209.0
60°	178.1	180.1	182.0	184.0	185.9	187.8	189.7	191.7	193.7	195.6	197.0
62.5°	165.2	167.2	169.2	171.1	173.1	175.0	177.1	179.2	181.3	183.4	185.0
65°	145.5	147.7	150.0	152.1	154.4	156.7	159.0	161.4	163.6	166.0	167.4
67.5°	126.9	129.0	131.1	133.3	135.4	137.7	140.1	142.4	144.8	147.1	148.9
70°	113.3	115.5	117.7	119.9	122.2	124.5	127.1	129.6	132.1	134.6	136.5
72.5°	100.0	102.4	104.6	106.9	109.2	111.8	114.5	117.3	120.0	122.7	124.8
75°	80.1	82.7	85.2	87.7	90.2	93.0	96.1	99.2	102.4	105.4	107.4
77.5°	61.1	64.0	66.9	69.7	72.7	75.6	78.6	81.6	84.5	87.6	89.7
80°	49.2	52.1	55.0	58.0	60.8	63.9	67.2	70.5	73.8	77.1	79.3
82.5°	38.5	41.5	44.6	47.6	50.6	53.9	57.2	60.6	64.0	67.3	69.4
85°	23.9	27.1	30.3	33.6	36.8	40.1	43.5	46.8	50.2	53.5	55.7
87.5°	13.8	17.2	20.6	24.0	27.5	31.0	34.6	38.2	41.8	45.3	47.8
90°	7.9	12.7	17.4	22.2	27.0	31.8	36.5	41.3	46.0	50.8	54.0
92.5°	29.0	33.1	37.1	41.2	45.1	49.8	55.0	60.1	65.3	70.5	74.0
95°	66.8	69.7	72.7	75.6	78.6	82.8	88.1	93.5	98.9	104.2	107.8
97.5°	106.8	109.2	111.6	114.0	116.5	120.7	126.8	132.9	138.9	145.0	148.4
100°	136.6	138.6	140.6	142.6	144.7	148.5	154.4	160.2	166.1	171.8	175.8
102.5°	168.5	171.3	174.0	176.7	179.4	182.9	187.4	191.8	196.1	200.6	204.5
105°	218.5	221.0	223.7	226.2	228.8	232.2	236.4	240.5	244.7	248.8	252.0
107.5°	273.6	276.0	278.3	280.7	283.1	286.2	289.9	293.7	297.4	301.1	303.7
110°	311.7	313.9	316.1	318.3	320.6	323.3	326.6	330.0	333.3	336.7	339.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.8	352.3	353.8	355.2	356.8	359.2	362.6	366.0	369.5	372.9	374.9
115°	408.2	409.7	411.2	412.7	414.2	416.4	419.4	422.4	425.3	428.2	429.7
117.5°	465.7	466.6	467.3	468.2	469.0	470.8	473.5	476.3	479.1	481.8	483.6
120°	501.8	503.2	504.5	505.9	507.2	509.1	511.5	514.0	516.4	518.8	520.5
122.5°	540.6	541.1	541.7	542.2	542.7	544.3	547.0	549.7	552.3	555.1	556.5
125°	593.6	594.7	596.0	597.1	598.2	599.9	602.1	604.2	606.3	608.5	609.6
127.5°	649.7	650.3	650.9	651.5	652.1	653.4	655.2	657.0	658.8	660.7	661.9
130°	683.5	684.5	685.4	686.4	687.3	688.7	690.4	692.2	694.0	695.8	696.9
132.5°	717.1	718.8	720.5	722.2	723.9	725.2	726.1	727.1	728.0	729.0	730.2
135°	770.6	771.8	772.9	774.1	775.2	776.3	777.1	778.1	778.9	779.8	781.1
137.5°	821.0	822.1	823.2	824.3	825.5	826.4	827.3	828.0	828.8	829.6	831.0
140°	853.0	854.0	855.1	856.1	857.1	858.0	858.8	859.5	860.2	860.9	862.4
142.5°	885.3	886.2	886.9	887.8	888.5	889.4	890.1	891.0	891.8	892.6	893.8
145°	932.9	933.7	934.4	935.2	935.9	936.6	937.3	937.8	938.5	939.1	939.6
147.5°	976.6	977.0	977.5	978.0	978.4	978.9	979.4	979.9	980.3	980.9	981.6
150°	1005.9	1005.7	1005.5	1005.3	1005.1	1005.4	1006.3	1007.1	1007.9	1008.7	1008.7
152.5°	1030.0	1030.3	1030.6	1030.9	1031.1	1031.5	1031.8	1032.2	1032.5	1032.8	1033.3
155°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.4	1067.6	1067.8	1068.0	1068.8
157.5°	1100.2	1099.8	1099.3	1098.8	1098.3	1098.3	1098.4	1098.6	1098.9	1099.1	1099.9
160°	1119.7	1119.2	1118.5	1117.9	1117.3	1117.1	1117.3	1117.5	1117.7	1117.9	1118.7
162.5°	1137.1	1136.6	1136.1	1135.7	1135.3	1135.0	1135.1	1135.1	1135.2	1135.2	1136.2
165°	1160.3	1159.8	1159.4	1159.0	1158.6	1158.5	1158.7	1158.9	1159.0	1159.3	1160.2
167.5°	1179.8	1178.9	1178.2	1177.3	1176.5	1176.0	1176.0	1176.0	1176.0	1176.0	1177.3
170°	1190.3	1189.5	1188.6	1187.9	1187.0	1186.6	1186.6	1186.6	1186.6	1186.6	1187.9
172.5°	1197.9	1197.0	1196.2	1195.3	1194.6	1194.1	1194.1	1194.1	1194.1	1194.1	1195.3
175°	1206.4	1205.5	1204.7	1203.8	1203.0	1202.6	1202.6	1202.6	1202.6	1202.6	1203.8
177.5°	1210.7	1210.0	1209.4	1208.6	1208.0	1207.6	1207.4	1207.2	1207.1	1206.9	1208.0
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	443.3	443.8	444.4	444.6	444.5	444.5	444.4	444.3
5°	442.0	442.7	443.5	443.8	443.7	443.7	443.6	443.5
7.5°	438.3	438.9	439.6	439.9	439.8	439.7	439.6	439.5
10°	434.8	435.5	436.1	436.4	436.3	436.2	436.1	436.0
12.5°	430.6	431.1	431.7	431.8	431.6	431.3	431.0	430.8
15°	422.8	423.4	424.0	424.0	423.7	423.3	422.9	422.5
17.5°	412.9	413.3	413.8	413.9	413.7	413.4	413.2	412.9
20°	405.3	405.6	405.9	406.0	406.0	406.0	406.0	406.0
22.5°	397.4	397.8	398.1	398.2	397.9	397.8	397.5	397.3
25°	384.9	385.4	385.8	385.7	385.2	384.7	384.3	383.8
27.5°	370.5	370.8	371.1	371.2	371.0	370.8	370.6	370.4
30°	360.6	360.8	361.0	361.1	361.0	360.9	360.8	360.7
32.5°	351.2	351.4	351.6	351.7	351.6	351.5	351.4	351.3
35°	336.0	336.3	336.6	336.7	336.7	336.7	336.7	336.7
37.5°	320.0	320.4	320.7	320.9	320.9	320.8	320.8	320.7
40°	309.2	309.5	310.0	310.3	310.5	310.7	310.9	311.0
42.5°	299.3	299.7	300.2	300.4	300.5	300.5	300.5	300.6
45°	283.2	283.9	284.6	284.9	285.0	285.1	285.2	285.3
47.5°	266.6	267.7	268.6	269.2	269.5	269.7	269.8	270.0
50°	255.6	256.7	257.8	258.4	258.7	259.0	259.3	259.6
52.5°	244.7	245.8	246.9	247.6	247.8	248.1	248.3	248.5
55°	227.3	228.4	229.5	230.2	230.5	230.9	231.4	231.8
57.5°	210.2	211.4	212.6	213.4	213.7	214.0	214.3	214.6
60°	198.5	199.9	201.4	202.3	202.6	202.8	203.1	203.4
62.5°	186.6	188.2	189.8	190.8	191.1	191.5	191.9	192.3
65°	168.9	170.3	171.7	172.7	173.1	173.4	173.9	174.3
67.5°	150.7	152.4	154.2	155.3	155.8	156.4	156.8	157.3
70°	138.3	140.2	141.9	143.2	143.7	144.3	144.9	145.5
72.5°	126.8	128.8	130.7	132.0	132.3	132.8	133.2	133.7
75°	109.3	111.2	113.2	114.3	114.9	115.4	115.8	116.3
77.5°	91.8	94.0	96.0	97.4	97.7	98.1	98.5	98.9
80°	81.3	83.5	85.6	86.9	87.3	87.7	88.0	88.4
82.5°	71.4	73.5	75.6	76.9	77.7	78.3	79.0	79.7
85°	57.9	59.9	62.1	63.5	64.3	65.1	65.9	66.6
87.5°	50.2	52.7	55.1	56.7	57.5	58.3	59.1	59.9
90°	57.3	60.6	63.9	66.2	67.5	68.8	70.0	71.4
92.5°	77.5	81.1	84.5	86.9	88.0	89.2	90.3	91.4
95°	111.4	115.0	118.7	120.9	122.1	123.2	124.2	125.4
97.5°	151.8	155.2	158.6	160.8	161.7	162.6	163.5	164.5
100°	179.6	183.6	187.5	189.9	191.0	192.0	192.9	194.0
102.5°	208.6	212.5	216.6	219.1	220.4	221.5	222.6	223.9
105°	255.2	258.4	261.6	263.9	265.1	266.5	267.8	269.1
107.5°	306.2	308.8	311.3	312.9	313.4	314.0	314.5	315.1
110°	341.6	344.0	346.5	348.0	348.5	348.9	349.4	349.9



TEST NUMBER: P333146-830

CATALOG NUMBER: S125DIP-S375D1035U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	377.0	379.1	381.1	382.3	382.6	382.9	383.2	383.5
115°	431.3	432.8	434.3	435.3	435.6	436.0	436.4	436.8
117.5°	485.4	487.3	489.1	489.8	489.7	489.6	489.4	489.2
120°	522.1	523.8	525.4	526.1	525.8	525.6	525.3	525.1
122.5°	557.9	559.3	560.6	561.3	561.2	561.2	561.1	561.0
125°	610.8	611.9	613.0	613.7	614.0	614.3	614.5	614.8
127.5°	663.2	664.4	665.6	666.3	666.4	666.6	666.7	666.8
130°	698.0	699.2	700.4	701.0	701.1	701.1	701.2	701.3
132.5°	731.3	732.4	733.6	734.1	733.9	733.7	733.6	733.4
135°	782.3	783.5	784.9	785.3	784.9	784.6	784.2	783.9
137.5°	832.4	833.8	835.2	835.6	834.9	834.2	833.6	832.9
140°	863.9	865.3	866.9	867.2	866.7	866.0	865.3	864.7
142.5°	894.9	896.1	897.2	897.5	896.8	896.2	895.5	894.8
145°	940.1	940.6	941.0	941.1	940.9	940.7	940.5	940.2
147.5°	982.2	982.9	983.5	983.3	981.9	980.7	979.5	978.3
150°	1008.7	1008.7	1008.7	1008.6	1008.2	1008.0	1007.6	1007.3
152.5°	1033.9	1034.3	1034.8	1034.7	1034.0	1033.2	1032.6	1031.8
155°	1069.7	1070.5	1071.4	1071.3	1070.3	1069.1	1068.1	1067.1
157.5°	1100.7	1101.5	1102.4	1102.1	1100.8	1099.4	1098.0	1096.6
160°	1119.6	1120.4	1121.2	1121.2	1120.1	1119.1	1118.0	1116.9
162.5°	1137.2	1138.2	1139.3	1139.2	1137.9	1136.7	1135.5	1134.3
165°	1160.9	1161.8	1162.6	1162.4	1161.2	1159.9	1158.7	1157.4
167.5°	1178.6	1179.8	1181.1	1181.0	1179.8	1178.5	1177.1	1175.8
170°	1189.1	1190.3	1191.6	1191.5	1190.1	1188.5	1187.1	1185.6
172.5°	1196.7	1197.9	1199.1	1199.1	1197.8	1196.6	1195.2	1193.9
175°	1205.1	1206.4	1207.6	1207.5	1206.1	1204.6	1203.1	1201.6
177.5°	1208.9	1209.9	1210.9	1210.9	1209.7	1208.5	1207.3	1206.2
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2

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