

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: P333138-927

Luminaire Tested: **S125DIP-S375D810U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333138-927
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-S375D810U927-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.3 lumens
Efficiency: N/A
Efficacy: 111.0 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

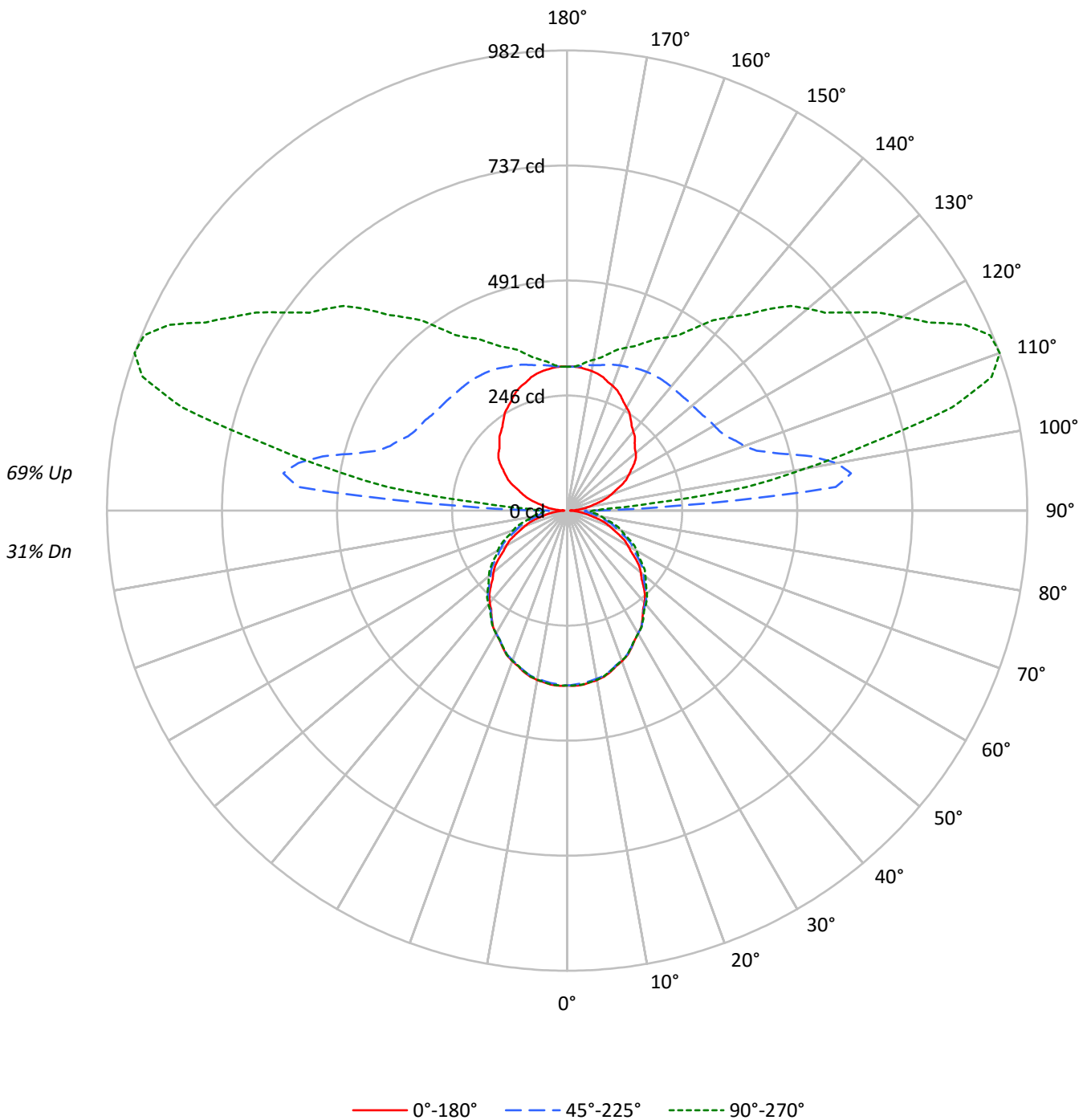
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	81	84	80	76	73	63	61	59	48	46	45	34	33	32	25
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	27	21
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22	18
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19	15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14	11
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13	10
8	51	38	31	26	45	35	28	24	28	23	20	22	18	15	16	13	11	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	20	39	29	23	19	24	19	15	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	100.2	2.9
20°-30°	149.1	4.3
30°-40°	176.6	5.1
40°-50°	182.6	5.3
50°-60°	168.2	4.9
60°-70°	135.9	3.9
70°-80°	91.0	2.6
80°-90°	48.9	1.4
90°-100°	249.2	7.2
100°-110°	498.3	14.4
110°-120°	462.4	13.4
120°-130°	371.5	10.7
130°-140°	295.4	8.5
140°-150°	221.2	6.4
150°-160°	155.2	4.5
160°-170°	91.5	2.6
170°-180°	29.8	0.9
0°-30°	284.6	8.2
0°-40°	461.2	13.3
0°-60°	812.0	23.5
0°-90°	1087.9	31.4
90°-120°	1209.8	34.9
90°-150°	2097.9	60.6
90°-180°	2374.0	68.6
0°-180°	3462.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	6	23	40	51	55	5
95°	25	75	576	283	183	25
105°	73	107	469	911	851	77
115°	127	156	375	798	937	125
125°	175	205	354	632	736	155
135°	204	245	346	526	608	158
145°	237	271	344	431	475	148
155°	270	290	336	379	396	124
165°	295	303	322	342	347	83
175°	307	307	309	313	312	29
180°	307	307	307	307	307	



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.3	17.1	20.0	22.8	25.7	28.7	31.7	34.5	37.5	39.5
90°	6.5	9.7	13.5	17.3	21.2	25.1	28.5	32.6	36.0	39.9	42.5
92.5°	12.8	16.9	24.5	34.5	47.6	68.3	105.0	164.5	228.9	228.5	192.3
95°	25.2	28.0	35.0	44.0	59.7	90.0	159.1	298.1	471.8	575.5	565.5
97.5°	38.3	40.9	46.3	55.0	69.2	91.5	138.1	240.6	422.1	611.0	706.1
100°	47.4	50.3	54.5	63.1	76.5	97.3	135.8	218.9	377.6	582.7	739.3
102.5°	57.5	59.8	63.4	72.2	84.6	104.8	139.3	209.5	343.8	534.5	717.2
105°	73.3	74.6	79.0	86.5	97.7	116.9	146.6	204.1	310.1	469.2	648.6
107.5°	88.7	91.0	95.1	101.3	112.7	130.1	158.8	208.3	295.0	424.0	578.9
110°	99.8	102.0	105.4	112.0	122.3	140.1	167.7	212.7	289.9	402.5	539.1



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	111.2	113.2	116.0	122.3	132.5	149.5	176.1	218.6	288.8	389.4	509.1
115°	127.3	129.1	131.6	137.7	147.6	164.4	189.4	227.4	289.1	374.8	475.9
117.5°	141.8	144.0	146.4	152.3	163.3	179.4	203.1	237.8	291.4	366.7	455.4
120°	151.7	153.8	156.5	162.4	173.2	189.6	213.3	244.9	294.4	362.6	443.9
122.5°	161.8	163.3	165.4	171.1	182.8	199.2	222.7	252.7	296.8	358.9	433.7
125°	174.9	176.0	179.0	184.6	196.2	213.1	235.2	263.5	301.0	354.0	419.8
127.5°	184.8	186.6	190.4	197.5	209.8	226.6	247.6	273.5	306.2	350.9	406.9
130°	191.2	193.1	197.9	205.9	218.8	235.4	255.8	280.4	309.4	349.0	398.5
132.5°	195.9	198.3	204.1	213.2	226.7	243.2	263.3	286.2	313.0	347.8	391.3
135°	203.9	206.3	213.7	223.5	236.4	253.3	273.1	294.1	317.7	346.1	382.5
137.5°	214.0	215.8	222.7	232.5	245.2	262.5	280.3	300.1	322.2	345.5	374.7
140°	219.7	221.5	228.9	238.8	250.6	267.4	285.4	304.0	324.0	345.2	370.8
142.5°	226.6	227.8	234.7	244.6	255.8	271.5	288.5	306.1	325.0	345.0	367.6
145°	236.9	238.1	244.2	252.9	263.9	278.1	294.2	309.7	326.5	344.4	363.4
147.5°	247.5	248.3	253.6	261.7	271.3	283.8	297.9	312.0	327.0	342.8	359.3
150°	254.0	255.2	259.5	267.6	276.2	286.8	300.4	313.4	327.0	341.3	356.2
152.5°	260.9	261.7	265.5	272.5	280.7	290.3	302.9	314.4	326.5	339.3	352.7
155°	270.1	270.1	273.8	280.0	286.1	294.9	305.4	315.3	325.2	335.7	346.9
157.5°	278.2	278.1	281.1	286.4	291.8	298.4	307.4	315.9	323.6	332.0	341.4
160°	283.7	283.0	285.6	289.9	294.9	300.4	308.5	315.9	322.1	329.5	337.0
162.5°	288.1	287.6	290.0	293.8	297.8	302.4	309.4	315.4	320.6	326.5	333.0
165°	294.9	293.6	295.5	298.6	301.0	304.8	309.7	314.7	318.4	322.1	327.0
167.5°	299.3	298.7	299.8	301.5	303.2	305.6	309.7	313.1	314.9	317.7	321.2
170°	302.3	301.7	302.3	303.5	304.8	306.6	309.7	312.2	313.4	315.3	317.7
172.5°	304.3	303.2	303.7	305.0	305.7	306.6	309.2	311.2	311.4	312.3	314.3
175°	306.6	305.4	306.0	306.6	306.6	306.6	308.5	309.7	309.1	309.1	309.7
177.5°	307.7	306.7	306.7	307.2	306.7	306.7	307.7	308.2	307.2	307.2	307.7
180°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	41.6	43.6	45.6	47.1	47.6	48.2	48.9	49.4
90°	44.9	47.4	49.9	52.4	52.9	53.5	54.7	55.2
92.5°	142.2	113.9	96.0	88.1	80.7	79.8	79.5	79.1
95°	475.6	383.3	308.9	258.0	214.7	196.6	192.3	182.9
97.5°	691.6	627.2	554.8	483.5	445.8	411.7	394.3	386.9
100°	788.7	760.1	698.0	634.7	592.4	548.3	525.9	516.4
102.5°	820.6	841.0	812.0	769.4	724.2	693.0	668.6	661.6
105°	798.9	885.3	914.3	908.6	889.3	869.4	857.6	850.7
107.5°	727.2	842.1	913.7	947.1	957.6	958.0	954.4	949.9
110°	674.4	793.6	882.5	936.2	964.6	977.0	981.9	982.5



TEST NUMBER: P333138-927

CATALOG NUMBER: S125DIP-S375D810U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	632.5	745.7	835.5	898.6	939.9	960.7	972.0	977.0
115°	579.6	677.1	763.4	831.9	880.7	910.9	928.8	937.3
117.5°	544.8	628.9	703.4	766.3	815.2	846.4	864.2	869.7
120°	525.8	601.4	671.0	726.4	772.8	803.0	820.1	825.6
122.5°	511.0	581.2	643.3	695.2	736.6	764.3	781.6	786.5
125°	489.8	554.3	609.5	655.0	690.1	715.8	729.8	736.5
127.5°	468.1	528.3	579.8	622.4	654.3	677.2	690.5	693.8
130°	454.7	510.4	559.8	600.9	632.2	653.1	665.9	670.0
132.5°	441.2	493.4	538.4	577.8	609.2	629.9	641.7	646.3
135°	423.1	466.9	507.6	543.7	571.3	592.2	603.7	607.8
137.5°	408.0	443.5	477.4	508.0	532.8	551.7	562.3	566.7
140°	399.6	429.6	459.0	485.6	508.8	525.2	534.9	538.3
142.5°	392.3	417.7	443.0	466.0	485.8	499.8	508.9	511.8
145°	383.0	402.6	422.2	439.3	454.5	465.3	472.5	475.3
147.5°	374.5	390.2	405.1	417.9	429.8	438.4	442.5	443.8
150°	369.8	383.4	395.1	406.4	415.7	423.3	425.8	426.5
152.5°	364.8	377.0	387.8	396.4	404.3	410.2	412.7	413.4
155°	357.4	367.3	376.0	382.8	389.0	393.3	395.1	395.8
157.5°	350.0	358.1	364.8	370.2	375.0	378.6	380.3	380.2
160°	345.0	351.2	357.4	361.7	366.1	369.2	370.4	369.8
162.5°	339.5	345.2	350.5	354.3	357.7	360.2	360.5	360.4
165°	332.0	336.4	340.1	343.2	345.6	346.9	346.9	346.9
167.5°	324.8	327.6	330.5	332.7	334.0	335.1	334.6	334.5
170°	320.8	322.7	324.6	325.8	327.0	327.6	327.6	327.0
172.5°	316.4	318.2	319.6	320.4	320.6	321.7	320.8	320.1
175°	311.6	311.6	312.8	312.8	312.8	313.4	312.2	311.6
177.5°	308.2	308.7	308.7	308.7	308.2	308.7	307.2	307.2
180°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2

(END OF REPORT)