

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: P333118-940

Luminaire Tested: **S125DIP-S375D365U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333118-940
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-S375D365U940-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.6 lumens
Efficiency: N/A
Efficacy: 128.5 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: General Diffuse

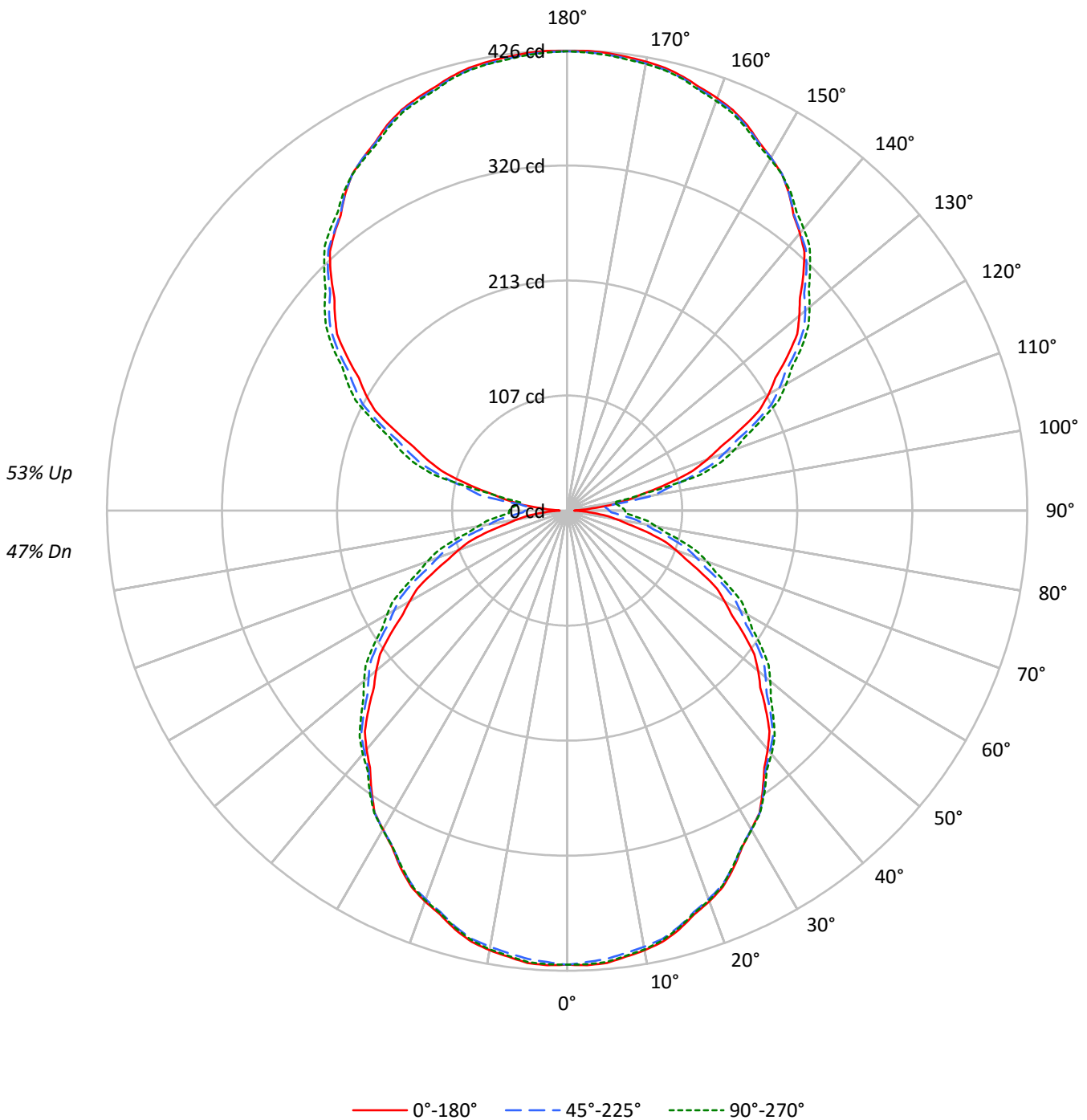
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

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	106	106	106	106	98	98	98	98	82	82	82		67	67	67		53	53	53	47
1	96	92	88	84	88	84	81	78	70	68	66		58	56	54		46	45	44	38
2	87	80	73	68	80	73	68	63	61	57	54		50	47	45		40	38	36	31
3	80	70	62	56	73	64	58	52	54	49	45		44	41	38		35	33	30	26
4	73	62	54	47	66	57	50	44	48	42	38		39	35	32		31	28	26	22
5	67	55	47	40	61	51	43	38	43	37	33		35	31	28		28	25	23	19
6	61	49	41	35	56	45	38	33	38	33	28		32	27	24		26	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25		29	24	21		23	20	18	15
8	53	40	32	27	48	37	30	25	32	26	22		26	22	19		21	18	16	13
9	49	37	29	24	45	34	27	22	29	23	20		24	20	17		20	16	14	12
10	46	33	26	21	42	31	25	20	27	21	18		22	18	15		18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2715	2715	2715
5°	2721	2664	2673
10°	2700	2617	2613
15°	2669	2561	2537
20°	2626	2489	2461
25°	2574	2414	2367
30°	2511	2331	2282
35°	2453	2256	2203
40°	2394	2175	2125
45°	2326	2106	2054
50°	2263	2032	1993
55°	2185	1961	1921
60°	2101	1881	1846
65°	2014	1797	1764
70°	1915	1682	1678
75°	1755	1572	1572
80°	1547	1438	1457
85°	1353	1346	1421



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.5
10°-20°	112.8	4.3
20°-30°	167.8	6.4
30°-40°	198.8	7.6
40°-50°	205.5	7.9
50°-60°	189.3	7.3
60°-70°	153.0	5.9
70°-80°	102.5	3.9
80°-90°	54.0	2.1
90°-100°	45.3	1.7
100°-110°	117.2	4.5
110°-120°	187.5	7.2
120°-130°	230.0	8.8
130°-140°	242.1	9.3
140°-150°	224.5	8.6
150°-160°	181.0	6.9
160°-170°	117.1	4.5
170°-180°	40.4	1.5
0°-30°	320.4	12.3
0°-40°	519.2	19.9
0°-60°	914.0	35.0
0°-90°	1223.5	46.9
90°-120°	350.0	13.4
90°-150°	1046.6	40.1
90°-180°	1385.0	53.1
0°-180°	2608.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	420	419	417	420	420	40
15°	401	402	399	401	400	113
25°	365	366	364	365	363	168
35°	316	318	317	318	318	197
45°	260	264	267	269	270	201
55°	200	206	213	217	219	179
65°	138	147	157	163	165	137
75°	76	87	100	108	110	80
85°	23	36	51	59	63	24
90°	7	23	39	50	54	5
95°	23	33	35	45	49	27
105°	96	104	117	124	127	102
115°	176	181	192	198	199	175
125°	249	251	259	264	266	222
135°	309	311	313	318	318	238
145°	358	358	358	361	360	224
155°	394	392	393	394	391	181
165°	416	414	414	416	414	117
175°	425	424	424	426	423	40
180°	425	425	425	425	425	



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	421.3	421.2	421.1	420.9	420.8	420.4	419.9	419.4	418.9	418.4	418.9
5°	420.4	420.2	420.0	419.8	419.6	419.2	418.6	417.9	417.3	416.6	417.4
7.5°	416.6	416.6	416.5	416.4	416.3	416.0	415.4	414.6	414.0	413.3	414.0
10°	413.3	413.3	413.3	413.3	413.3	413.0	412.2	411.5	410.8	410.0	410.7
12.5°	408.8	408.8	408.8	408.9	409.0	408.8	408.2	407.6	407.0	406.4	406.9
15°	401.4	401.4	401.5	401.7	401.8	401.4	400.8	400.2	399.6	399.0	399.5
17.5°	391.8	392.0	392.2	392.4	392.5	392.4	391.7	391.0	390.4	389.8	390.2
20°	385.0	385.1	385.3	385.5	385.7	385.4	384.8	384.1	383.5	382.8	383.2
22.5°	377.0	377.4	377.6	378.0	378.4	378.1	377.4	376.7	375.9	375.2	375.6
25°	364.7	365.0	365.2	365.5	365.8	365.7	365.2	364.6	364.0	363.5	363.8
27.5°	351.1	351.4	351.9	352.2	352.7	352.6	352.0	351.3	350.7	350.1	350.3
30°	340.8	341.3	341.9	342.5	343.0	343.0	342.5	341.9	341.3	340.8	341.0
32.5°	331.6	332.1	332.5	333.1	333.5	333.5	333.1	332.7	332.3	331.9	332.1
35°	315.7	316.3	317.0	317.6	318.3	318.4	318.2	317.9	317.6	317.4	317.6
37.5°	299.8	300.3	301.0	301.5	302.1	302.4	302.3	302.2	302.1	302.0	302.4
40°	288.9	289.6	290.3	291.1	291.9	292.1	292.0	291.9	291.9	291.8	292.1
42.5°	277.1	277.9	278.9	279.9	280.8	281.4	281.6	281.8	282.0	282.2	282.7
45°	260.0	261.1	262.1	263.1	264.0	264.8	265.3	265.7	266.2	266.6	267.2
47.5°	242.6	243.6	244.5	245.5	246.4	247.3	248.1	248.8	249.6	250.4	251.4
50°	230.8	231.8	232.8	233.8	234.8	235.9	236.8	237.8	238.8	239.9	240.9
52.5°	218.3	219.5	220.7	221.9	223.2	224.4	225.6	226.9	228.1	229.3	230.4
55°	199.8	201.3	202.8	204.3	205.7	207.2	208.7	210.1	211.6	213.0	214.1
57.5°	181.1	182.8	184.6	186.4	188.2	189.8	191.5	193.2	194.9	196.5	197.7
60°	168.5	170.4	172.2	174.1	175.8	177.7	179.5	181.4	183.2	185.0	186.4
62.5°	156.3	158.2	160.1	161.8	163.7	165.6	167.6	169.5	171.6	173.5	175.0
65°	137.7	139.7	141.9	143.9	146.1	148.2	150.4	152.7	154.8	157.0	158.4
67.5°	120.0	122.1	124.0	126.1	128.1	130.3	132.5	134.7	137.0	139.2	140.9
70°	107.2	109.2	111.4	113.4	115.6	117.8	120.2	122.6	124.9	127.3	129.1
72.5°	94.6	96.8	99.0	101.1	103.3	105.8	108.3	110.9	113.5	116.1	118.1
75°	75.8	78.2	80.6	82.9	85.3	88.0	91.0	93.9	96.8	99.7	101.6
77.5°	57.8	60.5	63.3	66.0	68.8	71.5	74.4	77.2	80.0	82.8	84.9
80°	46.5	49.3	52.1	54.8	57.5	60.5	63.6	66.7	69.8	72.9	75.0
82.5°	36.4	39.2	42.2	45.0	47.9	51.0	54.1	57.3	60.5	63.7	65.6
85°	22.6	25.7	28.7	31.7	34.8	37.9	41.1	44.3	47.5	50.6	52.7
87.5°	12.9	16.0	19.0	22.0	25.1	28.2	31.4	34.6	37.9	41.1	43.2
90°	6.9	10.4	13.9	17.4	20.9	24.4	28.0	31.7	35.2	38.9	41.3
92.5°	10.8	13.1	15.4	17.7	20.1	23.0	26.7	30.3	33.9	37.5	39.9
95°	23.4	25.5	27.6	29.9	32.0	33.3	33.8	34.2	34.7	35.1	37.5
97.5°	42.4	44.9	47.4	49.9	52.4	52.6	50.3	48.1	45.8	43.5	43.5
100°	57.2	59.3	61.4	63.6	65.7	68.4	71.6	74.8	78.0	81.2	72.7
102.5°	72.2	74.3	76.3	78.4	80.4	82.9	86.0	89.0	92.0	95.1	94.9
105°	96.4	98.1	99.9	101.7	103.3	105.6	108.3	111.1	113.9	116.6	118.4
107.5°	121.5	122.7	123.9	125.2	126.4	128.5	131.3	134.0	136.8	139.6	141.4
110°	137.8	138.9	140.0	141.1	142.2	144.1	146.8	149.5	152.2	154.9	156.4



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	153.5	154.4	155.5	156.6	157.7	159.4	162.0	164.6	167.2	169.7	171.1
115°	176.5	177.5	178.4	179.4	180.4	182.2	184.6	187.1	189.5	192.0	193.3
117.5°	200.4	200.7	201.2	201.5	202.0	203.4	205.9	208.5	211.0	213.5	214.7
120°	215.4	215.6	215.9	216.1	216.2	217.6	219.8	222.1	224.4	226.8	228.2
122.5°	228.5	228.9	229.3	229.7	230.1	231.3	233.4	235.6	237.7	239.9	241.2
125°	249.1	249.5	249.9	250.3	250.7	251.8	253.6	255.5	257.3	259.1	260.3
127.5°	268.4	268.7	268.9	269.2	269.5	270.3	271.8	273.2	274.6	276.2	277.3
130°	280.5	280.8	281.1	281.2	281.5	282.3	283.7	285.1	286.4	287.8	288.8
132.5°	292.3	292.7	293.0	293.5	293.8	294.4	295.2	296.1	296.9	297.7	299.0
135°	309.4	309.8	310.0	310.4	310.8	311.1	311.7	312.1	312.6	313.2	314.1
137.5°	325.1	325.5	325.7	326.0	326.3	326.5	326.7	326.9	327.1	327.3	328.4
140°	335.2	335.3	335.5	335.6	335.7	335.8	335.8	335.8	335.9	335.9	337.1
142.5°	344.5	344.5	344.5	344.6	344.6	344.6	344.7	344.8	344.9	345.1	346.0
145°	358.2	358.2	358.3	358.3	358.4	358.4	358.4	358.4	358.4	358.4	358.9
147.5°	369.7	369.7	369.7	369.6	369.6	369.6	369.7	369.8	369.9	370.0	370.2
150°	377.3	377.2	377.0	376.8	376.7	376.7	376.8	377.0	377.2	377.3	377.5
152.5°	384.6	384.3	384.0	383.7	383.3	383.3	383.4	383.6	383.7	383.9	384.0
155°	394.0	393.6	393.2	392.7	392.4	392.2	392.4	392.4	392.6	392.7	393.0
157.5°	401.3	401.0	400.7	400.5	400.3	400.1	400.1	400.2	400.2	400.2	400.4
160°	406.3	405.9	405.5	405.0	404.7	404.5	404.5	404.6	404.7	404.7	405.0
162.5°	410.4	409.9	409.5	409.0	408.7	408.5	408.6	408.6	408.7	408.8	409.1
165°	415.7	415.4	414.9	414.5	414.1	413.9	413.9	414.0	414.1	414.2	414.6
167.5°	419.8	419.4	418.9	418.5	418.0	417.9	417.9	418.0	418.1	418.1	418.7
170°	422.0	421.6	421.1	420.6	420.1	419.9	420.0	420.0	420.1	420.2	420.7
172.5°	423.6	423.1	422.6	422.1	421.6	421.4	421.5	421.7	421.8	422.0	422.4
175°	425.2	424.8	424.4	423.9	423.6	423.4	423.4	423.5	423.6	423.7	424.2
177.5°	426.0	425.6	425.3	425.0	424.6	424.5	424.5	424.6	424.6	424.7	425.1
180°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	419.4	419.9	420.4	420.6	420.5	420.5	420.4	420.4
5°	418.1	418.8	419.5	419.9	419.8	419.7	419.6	419.5
7.5°	414.6	415.3	415.9	416.2	416.1	416.0	415.9	415.8
10°	411.3	412.0	412.6	412.9	412.8	412.7	412.6	412.5
12.5°	407.4	407.9	408.4	408.5	408.3	408.0	407.8	407.6
15°	400.0	400.6	401.1	401.2	400.8	400.5	400.1	399.8
17.5°	390.7	391.0	391.5	391.6	391.4	391.1	390.9	390.7
20°	383.4	383.7	384.0	384.1	384.1	384.1	384.1	384.1
22.5°	375.9	376.3	376.7	376.7	376.5	376.3	376.0	375.9
25°	364.2	364.6	365.0	364.9	364.4	364.0	363.6	363.1
27.5°	350.5	350.8	351.1	351.2	351.0	350.8	350.6	350.4
30°	341.2	341.3	341.5	341.6	341.5	341.4	341.3	341.3
32.5°	332.3	332.4	332.6	332.7	332.6	332.5	332.4	332.3
35°	317.9	318.2	318.4	318.5	318.5	318.5	318.5	318.5
37.5°	302.7	303.1	303.4	303.6	303.6	303.5	303.5	303.4
40°	292.5	292.8	293.3	293.6	293.7	293.9	294.1	294.3
42.5°	283.1	283.6	284.0	284.2	284.3	284.3	284.3	284.4
45°	268.0	268.6	269.2	269.6	269.7	269.7	269.8	269.9
47.5°	252.3	253.2	254.1	254.7	254.9	255.1	255.3	255.5
50°	241.8	242.9	243.9	244.5	244.8	245.0	245.3	245.6
52.5°	231.5	232.6	233.6	234.3	234.4	234.7	234.9	235.1
55°	215.1	216.1	217.1	217.8	218.1	218.5	218.9	219.3
57.5°	198.9	200.0	201.2	201.9	202.2	202.4	202.8	203.0
60°	187.8	189.1	190.6	191.4	191.6	191.9	192.2	192.4
62.5°	176.6	178.1	179.6	180.5	180.8	181.2	181.6	181.9
65°	159.8	161.1	162.5	163.4	163.7	164.1	164.5	164.9
67.5°	142.6	144.2	145.9	147.0	147.4	147.9	148.4	148.8
70°	130.8	132.6	134.3	135.5	136.0	136.5	137.1	137.7
72.5°	119.9	121.8	123.7	124.8	125.2	125.6	126.0	126.4
75°	103.4	105.2	107.1	108.2	108.7	109.1	109.6	110.0
77.5°	86.9	88.9	90.9	92.1	92.5	92.8	93.2	93.5
80°	77.0	79.0	81.0	82.2	82.6	82.9	83.3	83.6
82.5°	67.6	69.6	71.5	72.8	73.5	74.1	74.7	75.4
85°	54.8	56.7	58.8	60.1	60.8	61.6	62.3	63.0
87.5°	45.4	47.6	49.8	51.2	51.9	52.6	53.2	53.9
90°	43.8	46.2	48.7	50.3	51.2	52.0	52.9	53.7
92.5°	42.3	44.7	47.1	48.6	49.3	50.1	50.8	51.5
95°	39.9	42.2	44.6	46.1	46.7	47.3	48.0	48.7
97.5°	43.4	43.3	43.3	43.6	44.2	44.9	45.5	46.1
100°	64.2	55.6	47.2	43.1	43.3	43.6	43.9	44.1
102.5°	94.8	94.7	94.5	92.4	88.2	83.9	79.7	75.5
105°	120.3	122.1	123.9	125.1	125.7	126.3	126.8	127.4
107.5°	143.2	145.1	146.9	148.0	148.4	148.7	149.1	149.5
110°	158.0	159.5	161.0	162.1	162.8	163.5	164.3	165.0



TEST NUMBER: P333118-940

CATALOG NUMBER: S125DIP-S375D365U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	172.5	174.0	175.3	176.3	176.8	177.4	177.9	178.4
115°	194.7	196.1	197.4	198.1	198.3	198.4	198.6	198.7
117.5°	215.9	217.0	218.3	219.1	219.5	220.0	220.4	220.9
120°	229.6	231.0	232.5	233.3	233.4	233.7	233.9	234.1
122.5°	242.5	243.9	245.2	245.9	246.1	246.3	246.4	246.6
125°	261.4	262.7	263.9	264.6	264.8	265.1	265.3	265.6
127.5°	278.6	279.7	281.0	281.5	281.6	281.6	281.6	281.6
130°	289.9	291.0	292.0	292.7	292.7	292.8	292.9	293.1
132.5°	300.2	301.5	302.7	303.4	303.4	303.4	303.4	303.5
135°	315.2	316.3	317.4	317.9	317.9	318.0	318.0	318.1
137.5°	329.5	330.6	331.7	332.3	332.3	332.3	332.3	332.3
140°	338.2	339.3	340.5	341.0	341.0	340.9	340.9	340.8
142.5°	346.9	347.8	348.7	349.0	349.0	348.9	348.8	348.8
145°	359.4	360.0	360.5	360.7	360.7	360.6	360.6	360.5
147.5°	370.4	370.7	371.0	370.9	370.5	370.1	369.8	369.5
150°	377.6	377.7	377.8	377.7	377.2	376.7	376.3	375.9
152.5°	384.1	384.2	384.4	384.2	383.8	383.3	382.8	382.3
155°	393.2	393.3	393.6	393.4	392.9	392.3	391.7	391.2
157.5°	400.6	400.8	401.1	400.9	400.4	399.8	399.2	398.7
160°	405.3	405.6	405.8	405.7	405.1	404.6	404.0	403.5
162.5°	409.6	409.9	410.4	410.2	409.6	408.9	408.4	407.8
165°	415.0	415.4	415.9	415.8	415.3	414.6	414.1	413.6
167.5°	419.2	419.6	420.2	420.1	419.5	418.8	418.2	417.6
170°	421.2	421.9	422.4	422.4	421.8	421.2	420.4	419.8
172.5°	422.9	423.5	423.9	423.9	423.3	422.6	422.0	421.3
175°	424.7	425.3	425.9	425.9	425.2	424.5	423.9	423.3
177.5°	425.5	425.9	426.2	426.2	425.8	425.3	424.9	424.5
180°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2

(END OF REPORT)