

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: P333137-935

Luminaire Tested: **S125DIP-S375D810U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333137-935
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-S375D810U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.1 lumens
Efficiency: N/A
Efficacy: 117.7 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

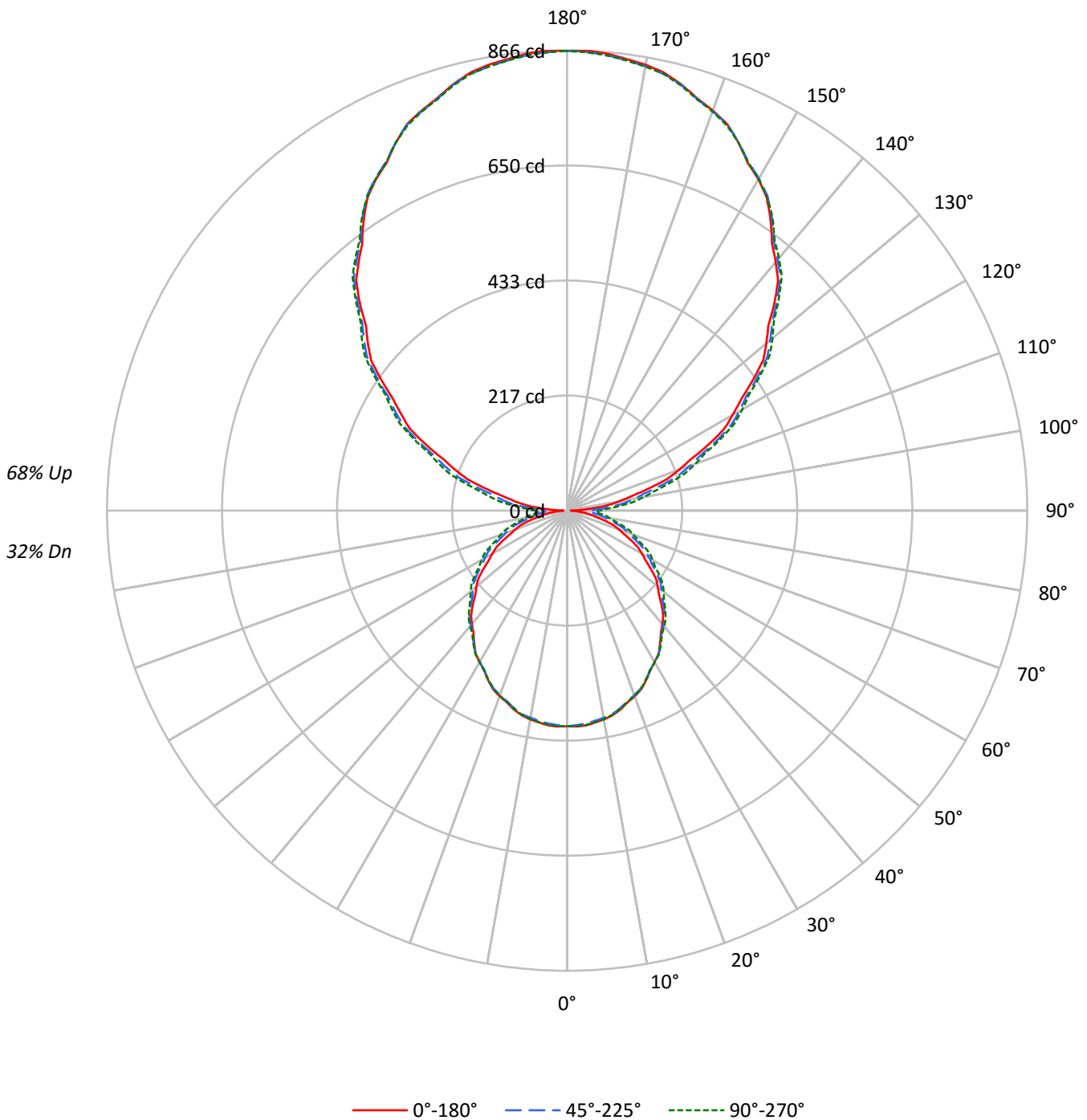
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

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	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	93	89	85	81	84	80	77	74	64	61	59	48	47	45	34	33	33	26
2	85	77	71	66	76	70	64	60	55	52	49	42	40	38	30	28	27	21
3	77	68	60	55	69	61	55	50	49	44	41	37	34	31	26	24	23	18
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	23	21	19	15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13	10
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10	8
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2621	2621	2621
5°	2627	2573	2581
10°	2608	2527	2523
15°	2577	2472	2450
20°	2535	2404	2376
25°	2485	2331	2285
30°	2425	2251	2203
35°	2369	2178	2127
40°	2312	2100	2051
45°	2247	2033	1983
50°	2184	1962	1924
55°	2110	1894	1854
60°	2028	1817	1782
65°	1944	1736	1703
70°	1849	1625	1620
75°	1695	1518	1517
80°	1493	1389	1408
85°	1311	1301	1373



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	1.0
10°-20°	108.9	3.0
20°-30°	162.0	4.4
30°-40°	191.9	5.2
40°-50°	198.4	5.4
50°-60°	182.8	5.0
60°-70°	147.8	4.0
70°-80°	99.0	2.7
80°-90°	53.2	1.4
90°-100°	86.7	2.4
100°-110°	192.3	5.2
110°-120°	304.1	8.3
120°-130°	389.5	10.6
130°-140°	430.9	11.7
140°-150°	419.6	11.4
150°-160°	351.8	9.6
160°-170°	233.9	6.4
170°-180°	81.8	2.2
0°-30°	309.4	8.4
0°-40°	501.3	13.6
0°-60°	882.5	24.0
0°-90°	1182.4	32.2
90°-120°	583.1	15.9
90°-150°	1823.2	49.6
90°-180°	2491.0	67.8
0°-180°	3673.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	405	38
15°	388	388	385	387	386	109
25°	352	353	351	352	351	162
35°	305	307	306	308	308	191
45°	251	255	257	260	261	194
55°	193	199	206	210	212	172
65°	133	142	152	157	159	132
75°	73	84	96	104	106	78
85°	22	35	49	57	61	23
90°	7	25	43	56	61	7
95°	49	61	81	94	98	51
105°	157	167	183	194	200	168
115°	293	298	310	316	318	289
125°	425	429	437	442	444	380
135°	552	555	559	564	563	425
145°	668	670	672	674	674	417
155°	763	763	764	766	763	351
165°	830	829	830	832	828	234
175°	863	861	860	864	860	82
180°	865	865	865	865	865	



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	406.8	406.7	406.6	406.4	406.3	406.0	405.4	404.9	404.5	404.0	404.5
5°	405.9	405.7	405.5	405.4	405.2	404.8	404.2	403.6	402.9	402.3	403.0
7.5°	402.3	402.3	402.2	402.1	402.0	401.7	401.1	400.4	399.8	399.1	399.8
10°	399.1	399.1	399.1	399.1	399.1	398.7	398.0	397.4	396.7	395.9	396.6
12.5°	394.7	394.8	394.8	394.9	394.9	394.7	394.2	393.6	393.0	392.4	392.9
15°	387.5	387.6	387.7	387.9	388.0	387.6	387.0	386.4	385.8	385.2	385.7
17.5°	378.3	378.5	378.7	378.8	379.0	378.8	378.2	377.5	376.9	376.3	376.8
20°	371.7	371.9	372.0	372.2	372.4	372.1	371.5	370.9	370.3	369.6	370.0
22.5°	364.0	364.4	364.6	365.0	365.3	365.1	364.4	363.7	363.0	362.3	362.7
25°	352.1	352.4	352.7	352.9	353.2	353.1	352.6	352.1	351.5	350.9	351.3
27.5°	339.0	339.3	339.8	340.1	340.5	340.4	339.8	339.2	338.6	338.0	338.2
30°	329.1	329.6	330.1	330.7	331.2	331.2	330.7	330.1	329.6	329.1	329.2
32.5°	320.2	320.6	321.1	321.6	322.0	322.0	321.7	321.2	320.9	320.5	320.6
35°	304.8	305.4	306.1	306.7	307.3	307.5	307.2	306.9	306.7	306.4	306.7
37.5°	289.5	290.0	290.6	291.1	291.7	292.0	291.9	291.8	291.7	291.6	292.0
40°	279.0	279.7	280.3	281.0	281.8	282.1	282.0	281.9	281.8	281.7	282.1
42.5°	267.5	268.4	269.3	270.3	271.1	271.7	271.9	272.1	272.3	272.5	272.9
45°	251.1	252.1	253.0	254.0	254.9	255.7	256.1	256.6	257.0	257.4	258.0
47.5°	234.3	235.2	236.1	237.0	237.9	238.8	239.5	240.2	241.0	241.8	242.7
50°	222.8	223.8	224.8	225.8	226.7	227.7	228.7	229.6	230.6	231.6	232.6
52.5°	210.8	211.9	213.1	214.3	215.5	216.6	217.8	219.0	220.2	221.4	222.5
55°	193.0	194.4	195.8	197.3	198.6	200.1	201.5	202.9	204.3	205.7	206.7
57.5°	174.9	176.5	178.2	179.9	181.7	183.3	184.9	186.6	188.2	189.8	190.9
60°	162.7	164.5	166.3	168.1	169.8	171.6	173.3	175.1	176.9	178.7	179.9
62.5°	150.9	152.7	154.5	156.3	158.1	159.9	161.8	163.7	165.7	167.6	169.0
65°	132.9	134.9	137.0	139.0	141.0	143.1	145.3	147.4	149.5	151.6	152.9
67.5°	115.9	117.9	119.8	121.7	123.7	125.8	127.9	130.1	132.2	134.4	136.0
70°	103.5	105.5	107.5	109.5	111.6	113.7	116.1	118.4	120.6	123.0	124.7
72.5°	91.4	93.5	95.6	97.6	99.8	102.1	104.6	107.1	109.6	112.1	114.0
75°	73.2	75.5	77.8	80.1	82.4	85.0	87.8	90.7	93.5	96.3	98.1
77.5°	55.8	58.5	61.1	63.7	66.4	69.1	71.8	74.6	77.2	80.0	82.0
80°	44.9	47.6	50.3	53.0	55.5	58.4	61.4	64.4	67.4	70.4	72.4
82.5°	35.1	37.9	40.7	43.5	46.2	49.2	52.3	55.4	58.5	61.5	63.4
85°	21.9	24.8	27.7	30.7	33.6	36.6	39.7	42.8	45.9	48.9	50.9
87.5°	12.6	15.6	18.7	21.8	24.8	28.0	31.2	34.4	37.6	40.8	43.0
90°	7.1	11.1	15.1	19.1	23.2	27.2	31.3	35.3	39.3	43.4	46.1
92.5°	22.0	25.5	28.9	32.4	35.8	39.8	44.1	48.5	52.9	57.2	60.2
95°	48.9	51.6	54.2	56.7	59.3	62.9	67.4	71.9	76.4	80.8	83.9
97.5°	77.4	79.6	81.8	83.9	86.2	89.7	94.7	99.7	104.6	109.6	112.4
100°	98.7	100.5	102.4	104.2	106.1	109.3	114.2	118.9	123.7	128.5	131.6
102.5°	121.5	123.8	126.1	128.4	130.7	133.8	137.5	141.3	145.0	148.8	152.0
105°	157.0	159.3	161.4	163.6	165.7	168.6	172.1	175.7	179.3	182.8	185.5
107.5°	196.5	198.4	200.4	202.3	204.2	206.9	210.1	213.4	216.5	219.8	222.0
110°	223.6	225.4	227.2	229.0	230.8	233.2	236.2	239.1	242.0	245.0	247.0



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	251.6	252.9	254.1	255.4	256.6	258.6	261.7	264.6	267.6	270.6	272.4
115°	292.6	293.8	295.0	296.2	297.5	299.4	302.0	304.5	307.1	309.7	311.2
117.5°	333.6	334.3	335.0	335.7	336.3	337.9	340.4	342.8	345.3	347.7	349.3
120°	359.5	360.5	361.5	362.6	363.5	365.2	367.3	369.5	371.7	373.8	375.4
122.5°	387.2	387.5	388.0	388.4	388.7	390.1	392.4	394.9	397.2	399.5	400.9
125°	425.1	425.9	426.7	427.5	428.3	429.6	431.6	433.5	435.4	437.4	438.4
127.5°	465.1	465.5	465.9	466.3	466.7	467.8	469.4	471.1	472.7	474.3	475.4
130°	489.3	490.0	490.6	491.3	492.0	493.0	494.6	496.1	497.7	499.2	500.2
132.5°	513.2	514.4	515.7	516.9	518.1	519.1	520.0	520.9	521.8	522.7	523.7
135°	551.6	552.3	553.1	554.0	554.7	555.5	556.3	557.1	557.8	558.6	559.7
137.5°	587.5	588.3	589.1	590.0	590.7	591.4	592.0	592.7	593.3	593.9	595.2
140°	610.4	611.1	611.9	612.6	613.4	614.0	614.6	615.1	615.6	616.1	617.4
142.5°	633.5	634.1	634.6	635.2	635.8	636.4	636.9	637.5	638.1	638.7	639.7
145°	667.6	668.1	668.7	669.2	669.6	670.1	670.5	671.0	671.5	671.9	672.4
147.5°	698.7	699.0	699.4	699.7	700.0	700.3	700.8	701.1	701.5	701.8	702.3
150°	719.7	719.5	719.5	719.3	719.1	719.4	720.0	720.6	721.2	721.8	721.8
152.5°	736.9	737.2	737.4	737.6	737.8	738.0	738.2	738.5	738.7	739.0	739.3
155°	763.4	763.4	763.4	763.4	763.4	763.5	763.7	763.9	764.0	764.1	764.7
157.5°	787.2	786.9	786.5	786.2	785.8	785.7	785.9	786.1	786.2	786.4	787.0
160°	801.2	800.7	800.3	799.9	799.4	799.3	799.4	799.5	799.7	799.9	800.5
162.5°	813.6	813.2	812.9	812.6	812.3	812.1	812.1	812.2	812.2	812.3	813.0
165°	830.2	829.8	829.6	829.2	829.0	828.9	829.0	829.1	829.3	829.5	830.1
167.5°	844.1	843.5	842.9	842.3	841.7	841.5	841.5	841.5	841.5	841.5	842.3
170°	851.7	851.1	850.5	849.9	849.3	848.9	848.9	848.9	848.9	848.9	849.9
172.5°	857.0	856.4	855.8	855.2	854.6	854.4	854.4	854.4	854.4	854.4	855.2
175°	863.2	862.5	861.9	861.3	860.7	860.4	860.4	860.4	860.4	860.4	861.3
177.5°	866.3	865.7	865.3	864.8	864.3	864.0	863.9	863.8	863.7	863.5	864.3
180°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	404.9	405.4	406.0	406.1	406.0	406.0	406.0	405.9
5°	403.7	404.4	405.1	405.4	405.4	405.3	405.2	405.1
7.5°	400.4	401.0	401.6	401.8	401.7	401.7	401.6	401.5
10°	397.2	397.8	398.4	398.6	398.6	398.5	398.4	398.3
12.5°	393.4	393.8	394.3	394.4	394.3	394.0	393.7	393.6
15°	386.2	386.8	387.3	387.4	387.0	386.7	386.3	386.0
17.5°	377.2	377.5	378.0	378.1	377.9	377.6	377.5	377.2
20°	370.2	370.5	370.7	370.8	370.8	370.8	370.8	370.8
22.5°	363.0	363.3	363.7	363.8	363.5	363.3	363.1	362.9
25°	351.6	352.1	352.4	352.3	351.9	351.5	351.0	350.6
27.5°	338.5	338.7	339.0	339.1	338.9	338.7	338.5	338.4
30°	329.4	329.6	329.8	329.8	329.8	329.7	329.6	329.5
32.5°	320.8	321.0	321.2	321.2	321.2	321.1	321.0	320.9
35°	306.9	307.2	307.5	307.5	307.5	307.5	307.5	307.5
37.5°	292.3	292.7	293.0	293.2	293.2	293.1	293.1	293.0
40°	282.4	282.8	283.2	283.4	283.6	283.8	284.0	284.1
42.5°	273.4	273.8	274.2	274.4	274.5	274.5	274.5	274.6
45°	258.7	259.3	259.9	260.3	260.4	260.5	260.5	260.6
47.5°	243.6	244.5	245.4	245.9	246.2	246.3	246.5	246.7
50°	233.5	234.5	235.5	236.1	236.3	236.6	236.9	237.1
52.5°	223.5	224.5	225.6	226.2	226.4	226.6	226.8	227.0
55°	207.7	208.6	209.7	210.3	210.6	210.9	211.4	211.7
57.5°	192.0	193.1	194.2	194.9	195.2	195.4	195.8	196.0
60°	181.3	182.6	184.0	184.8	185.0	185.3	185.5	185.8
62.5°	170.5	171.9	173.4	174.3	174.6	175.0	175.3	175.6
65°	154.3	155.6	156.9	157.7	158.1	158.4	158.9	159.2
67.5°	137.7	139.2	140.9	141.9	142.3	142.8	143.3	143.7
70°	126.3	128.0	129.7	130.8	131.3	131.8	132.3	132.9
72.5°	115.8	117.6	119.4	120.5	120.9	121.3	121.7	122.1
75°	99.9	101.6	103.4	104.4	105.0	105.4	105.8	106.2
77.5°	83.9	85.8	87.7	88.9	89.3	89.6	90.0	90.3
80°	74.3	76.3	78.2	79.4	79.7	80.1	80.4	80.8
82.5°	65.3	67.2	69.1	70.3	70.9	71.5	72.2	72.8
85°	52.9	54.8	56.7	58.0	58.7	59.5	60.2	60.9
87.5°	45.2	47.4	49.6	51.0	51.7	52.4	53.1	53.8
90°	49.0	51.7	54.5	56.5	57.5	58.5	59.7	60.7
92.5°	63.1	66.0	69.1	70.9	71.9	72.8	73.8	74.7
95°	86.9	89.9	92.9	94.8	95.7	96.7	97.6	98.5
97.5°	115.3	118.1	121.0	122.8	123.6	124.3	125.1	125.9
100°	134.9	138.1	141.3	143.3	144.1	145.0	145.8	146.6
102.5°	155.2	158.5	161.8	163.8	164.8	165.7	166.7	167.6
105°	188.1	190.8	193.5	195.4	196.4	197.4	198.5	199.6
107.5°	224.2	226.4	228.6	230.0	230.5	231.0	231.5	232.0
110°	249.2	251.3	253.4	254.8	255.2	255.6	256.1	256.6



TEST NUMBER: P333137-935

CATALOG NUMBER: S125DIP-S375D810U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	274.2	276.0	277.8	279.0	279.3	279.7	280.0	280.3
115°	312.6	314.1	315.5	316.4	316.8	317.2	317.5	318.0
117.5°	350.9	352.6	354.2	355.0	355.0	355.0	355.0	355.0
120°	376.9	378.4	379.9	380.6	380.6	380.5	380.4	380.3
122.5°	402.2	403.5	404.8	405.4	405.5	405.5	405.6	405.7
125°	439.5	440.7	441.8	442.6	442.8	443.1	443.4	443.7
127.5°	476.6	477.8	479.0	479.6	479.8	480.0	480.3	480.4
130°	501.4	502.5	503.5	504.2	504.3	504.5	504.6	504.7
132.5°	524.9	526.0	527.0	527.5	527.5	527.4	527.4	527.4
135°	560.9	562.1	563.3	563.7	563.5	563.4	563.3	563.1
137.5°	596.4	597.6	598.8	599.3	598.8	598.5	598.1	597.7
140°	618.7	620.0	621.2	621.6	621.3	620.9	620.5	620.1
142.5°	640.7	641.7	642.7	643.0	642.7	642.2	641.9	641.4
145°	672.8	673.2	673.6	673.8	673.7	673.6	673.6	673.5
147.5°	702.8	703.4	703.8	703.6	702.7	701.9	701.0	700.2
150°	721.8	721.8	721.8	721.6	721.4	721.2	721.0	720.8
152.5°	739.7	740.0	740.4	740.3	739.8	739.3	738.7	738.2
155°	765.3	765.9	766.5	766.5	765.7	765.0	764.2	763.4
157.5°	787.6	788.2	788.8	788.6	787.6	786.6	785.6	784.6
160°	801.1	801.6	802.2	802.2	801.4	800.6	799.9	799.2
162.5°	813.6	814.4	815.1	815.0	814.2	813.3	812.4	811.6
165°	830.7	831.3	831.8	831.7	830.8	829.9	829.0	828.1
167.5°	843.3	844.1	845.1	845.0	844.1	843.2	842.2	841.3
170°	850.8	851.7	852.6	852.5	851.4	850.4	849.4	848.3
172.5°	856.2	857.0	858.0	858.0	857.0	856.1	855.1	854.2
175°	862.2	863.2	864.0	863.9	862.9	861.9	860.8	859.8
177.5°	865.0	865.6	866.4	866.3	865.5	864.7	863.8	863.0
180°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1

(END OF REPORT)