

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: P333156-930

Luminaire Tested: **S125DIP-S375D1205U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333156-930
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-S375D1205U930-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.7 lumens
Efficiency: N/A
Efficacy: 111.8 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

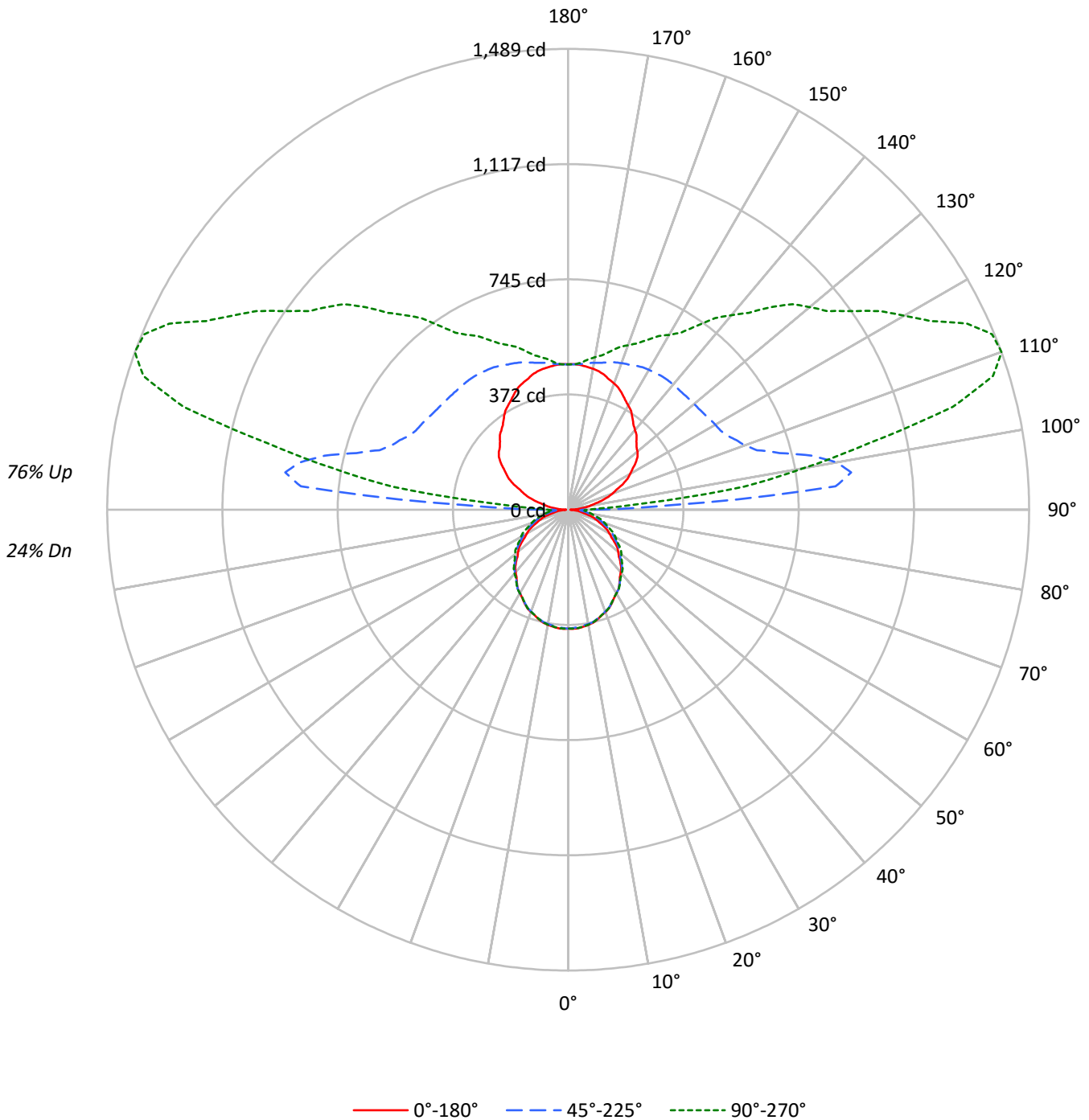
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	87	83	80	81	78	74	71	60	57	55	43	42	40	28	27	26	19
2	83	76	70	65	74	68	63	58	52	48	46	37	35	33	24	23	22	16
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16	11
5	63	52	44	38	56	46	40	35	36	31	28	26	23	20	17	15	14	10
6	58	46	39	33	51	42	35	30	32	27	24	23	20	18	15	13	12	9
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	10	8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.8
10°-20°	103.2	2.2
20°-30°	153.4	3.3
30°-40°	181.7	3.9
40°-50°	187.9	4.0
50°-60°	173.1	3.7
60°-70°	139.9	3.0
70°-80°	93.7	2.0
80°-90°	51.2	1.1
90°-100°	367.9	7.8
100°-110°	752.3	15.9
110°-120°	700.6	14.9
120°-130°	564.5	12.0
130°-140°	450.2	9.5
140°-150°	337.9	7.2
150°-160°	237.4	5.0
160°-170°	139.9	3.0
170°-180°	45.5	1.0
0°-30°	292.9	6.2
0°-40°	474.7	10.1
0°-60°	835.7	17.7
0°-90°	1120.5	23.8
90°-120°	1820.8	38.6
90°-150°	3173.4	67.3
90°-180°	3596.0	76.2
0°-180°	4716.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	7	27	46	59	64	6
95°	36	107	867	416	261	37
105°	110	159	708	1380	1286	117
115°	194	236	566	1210	1422	190
125°	267	312	537	960	1118	237
135°	311	374	528	800	925	242
145°	362	414	527	658	725	227
155°	413	444	514	580	605	190
165°	451	463	493	522	530	127
175°	469	469	473	478	476	45
180°	470	470	470	470	470	



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	12.0	14.8	17.9	21.0	24.0	27.1	30.2	33.4	36.4	39.6	41.7
90°	7.0	10.6	15.2	19.7	24.3	28.9	32.8	37.5	41.3	46.1	48.9
92.5°	17.0	21.9	32.4	46.6	65.4	95.7	150.3	240.0	337.1	335.1	278.8
95°	36.2	39.3	49.1	61.6	84.6	129.8	234.0	445.2	709.6	866.8	850.7
97.5°	56.3	59.4	66.7	79.1	99.8	132.9	202.7	358.2	634.5	922.0	1066.7
100°	70.4	74.1	79.7	91.8	111.6	142.3	199.8	325.7	567.1	879.5	1118.2
102.5°	86.1	88.9	93.5	106.3	124.4	154.2	205.7	311.8	515.9	806.3	1085.1
105°	110.5	111.8	117.9	128.7	145.2	173.7	217.8	304.7	465.4	707.5	981.1
107.5°	134.3	137.3	142.9	151.9	168.8	194.4	237.2	311.8	443.2	639.3	875.5
110°	151.4	154.3	159.1	168.6	183.8	210.1	251.3	319.0	436.0	607.0	815.1



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.8	171.5	175.4	184.7	199.7	225.1	264.7	328.6	434.9	587.6	769.8
115°	193.6	196.1	199.5	208.6	223.5	248.5	285.8	342.8	435.9	566.1	720.1
117.5°	216.0	219.2	222.7	231.5	248.0	272.1	307.4	359.5	440.5	554.6	689.6
120°	231.1	234.2	238.3	247.0	263.4	288.2	323.3	370.6	445.6	548.9	672.5
122.5°	246.8	249.0	252.1	260.7	278.5	303.1	338.2	383.2	449.7	543.8	657.5
125°	266.8	268.6	273.2	281.7	299.6	325.0	357.9	400.4	457.0	537.3	637.2
127.5°	282.1	284.9	290.8	301.6	320.7	345.9	377.4	416.3	465.6	533.3	618.2
130°	292.0	294.7	302.2	314.5	334.3	359.5	390.0	427.1	470.9	530.8	605.9
132.5°	299.2	302.8	311.9	325.7	346.3	371.5	401.7	436.3	476.9	529.6	595.7
135°	311.4	315.2	326.4	341.5	361.3	387.2	417.1	449.0	484.6	527.8	582.9
137.5°	326.9	329.7	340.2	355.4	374.8	401.2	428.3	458.4	492.1	527.7	571.8
140°	335.7	338.6	349.9	365.1	383.1	408.7	436.3	464.8	495.2	527.5	566.3
142.5°	346.3	348.4	358.9	374.0	391.2	415.2	441.2	468.1	496.9	527.7	561.7
145°	362.2	364.1	373.5	386.6	403.6	425.3	450.0	473.7	499.3	526.7	555.5
147.5°	378.5	379.7	387.8	400.1	414.9	434.1	455.7	477.1	500.2	524.2	549.4
150°	388.4	390.3	397.0	409.3	422.5	438.6	459.4	479.4	500.2	522.0	544.7
152.5°	399.0	400.1	406.0	416.9	429.3	443.9	463.3	480.9	499.5	518.9	539.4
155°	413.0	413.0	418.7	428.2	437.7	450.9	467.0	482.2	497.3	513.5	530.5
157.5°	425.6	425.3	429.9	438.1	446.4	456.4	470.3	483.1	494.9	507.8	522.2
160°	433.9	432.9	436.8	443.4	450.9	459.4	471.8	483.1	492.6	504.0	515.4
162.5°	440.7	439.8	443.5	449.4	455.5	462.5	473.3	482.4	490.3	499.5	509.3
165°	450.9	449.1	451.9	456.6	460.4	466.1	473.7	481.3	486.9	492.6	500.2
167.5°	457.8	456.8	458.5	461.1	463.8	467.4	473.7	479.0	481.6	486.0	491.3
170°	462.3	461.4	462.3	464.2	466.1	469.0	473.7	477.4	479.4	482.2	486.0
172.5°	465.4	463.7	464.6	466.4	467.6	469.0	472.9	476.0	476.3	477.7	480.7
175°	469.0	467.0	468.0	469.0	469.0	469.0	471.8	473.7	472.7	472.7	473.7
177.5°	470.7	469.1	469.1	469.9	469.1	469.1	470.7	471.4	469.9	469.9	470.7
180°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	43.9	46.0	48.1	49.7	50.3	51.0	51.7	52.3
90°	51.8	54.7	57.6	60.7	61.3	61.9	63.4	64.0
92.5°	201.3	157.1	128.8	116.0	104.5	102.8	102.1	101.1
95°	712.3	570.1	455.5	377.2	310.5	282.6	275.7	261.1
97.5°	1043.6	944.4	832.6	723.1	665.1	612.6	585.7	574.2
100°	1192.9	1148.2	1052.4	955.0	890.1	822.4	787.9	773.2
102.5°	1242.3	1272.6	1227.5	1161.9	1092.5	1044.5	1006.9	996.1
105°	1210.1	1341.6	1384.9	1375.7	1346.0	1315.2	1296.9	1286.1
107.5°	1101.5	1276.3	1384.9	1435.5	1451.4	1451.7	1446.0	1438.9
110°	1021.3	1202.9	1338.1	1419.7	1462.9	1481.5	1488.7	1489.2



TEST NUMBER: P333156-930

CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	957.8	1130.2	1266.8	1362.9	1425.7	1457.2	1474.3	1481.7
115°	877.9	1026.2	1157.6	1261.8	1336.2	1382.2	1409.2	1422.0
117.5°	825.5	953.5	1066.7	1162.5	1236.9	1284.5	1311.4	1319.6
120°	797.0	912.2	1017.7	1102.1	1172.7	1218.7	1244.8	1252.9
122.5°	775.3	881.9	976.2	1055.1	1118.2	1160.3	1186.4	1193.8
125°	743.6	841.6	925.4	994.4	1047.9	1087.2	1108.5	1118.3
127.5°	711.4	802.8	881.0	945.7	994.3	1029.1	1049.3	1053.9
130°	691.4	775.9	851.0	913.4	961.2	992.9	1012.2	1018.3
132.5°	671.2	750.5	818.7	878.8	926.5	958.1	975.9	982.7
135°	644.7	711.1	772.8	827.6	869.7	901.4	918.8	925.0
137.5°	622.2	676.1	727.5	774.0	811.6	840.4	856.5	863.1
140°	609.8	655.3	699.8	740.2	775.6	800.5	815.1	820.2
142.5°	599.1	637.6	675.9	710.9	741.0	762.2	776.0	780.3
145°	585.4	615.1	644.9	670.9	694.0	710.4	721.1	725.3
147.5°	572.7	596.6	619.3	638.8	657.0	670.0	676.2	678.1
150°	565.6	586.4	604.4	621.5	635.8	647.3	651.1	652.2
152.5°	558.0	576.6	593.0	606.3	618.2	627.4	631.2	632.2
155°	546.6	561.7	575.0	585.5	594.9	601.5	604.4	605.4
157.5°	535.2	547.7	558.0	566.1	573.5	579.0	581.6	581.5
160°	527.7	537.1	546.6	553.3	559.9	564.6	566.6	565.6
162.5°	519.3	528.1	536.0	541.8	547.0	551.0	551.4	551.1
165°	507.8	514.4	520.1	524.8	528.6	530.5	530.5	530.5
167.5°	496.8	501.2	505.5	508.9	510.8	512.5	511.8	511.6
170°	490.7	493.6	496.4	498.3	500.2	501.2	501.2	500.2
172.5°	483.9	486.7	488.9	490.0	490.3	492.0	490.6	489.6
175°	476.5	476.5	478.4	478.4	478.4	479.4	477.4	476.5
177.5°	471.4	472.1	472.1	472.1	471.4	472.1	469.9	469.9
180°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9

(END OF REPORT)