

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: P333360-830

Luminaire Tested: **S125DIW-S375D1340U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333360-830
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: S125DIW-S375D1340U830-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6435.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

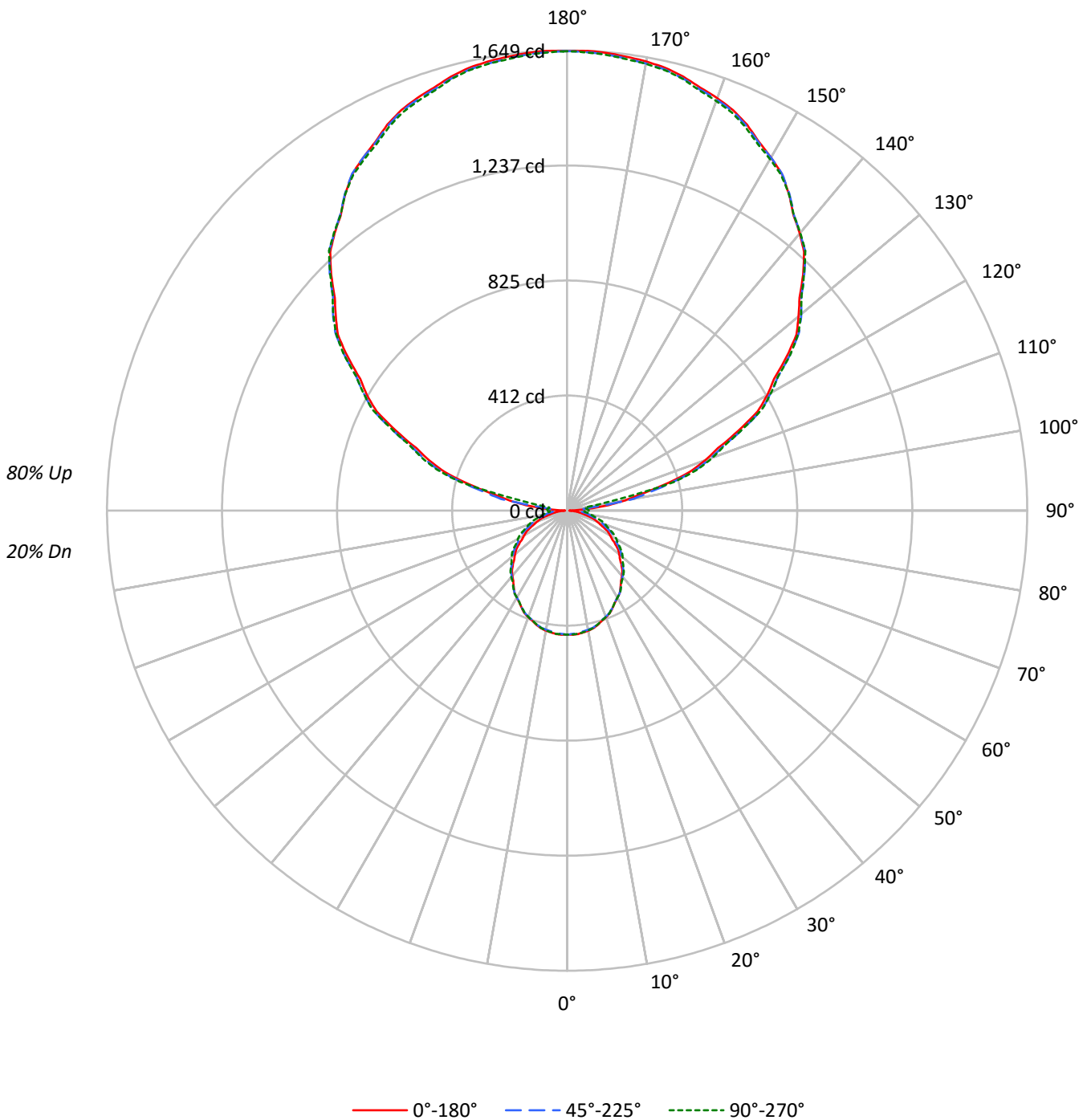
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333360-830

CATALOG NUMBER: S125DIW-S375D1340U830-4F0-1E-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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	79	80	77	73	71	58	56	54	41	39	38	25	24	24	16				
2	82	75	69	64	73	67	62	58	50	47	44	35	33	32	22	21	20	13				
3	75	66	59	53	66	58	53	48	44	40	37	31	29	27	19	18	16	11				
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10				
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8				
6	58	46	38	33	51	41	34	29	31	27	23	22	19	17	14	12	11	7				
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	12	11	9	6				
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8	6				
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	7	5				
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	5				

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	0.7
10°-20°	119.3	1.9
20°-30°	177.4	2.8
30°-40°	210.1	3.3
40°-50°	217.2	3.4
50°-60°	200.1	3.1
60°-70°	161.8	2.5
70°-80°	108.3	1.7
80°-90°	59.6	0.9
90°-100°	91.4	1.4
100°-110°	392.0	6.1
110°-120°	684.3	10.6
120°-130°	867.0	13.5
130°-140°	926.9	14.4
140°-150°	867.2	13.5
150°-160°	700.9	10.9
160°-170°	453.3	7.0
170°-180°	156.3	2.4
0°-30°	338.7	5.3
0°-40°	548.8	8.5
0°-60°	966.1	15.0
0°-90°	1295.8	20.1
90°-120°	1167.6	18.1
90°-150°	3828.7	59.5
90°-180°	5139.0	79.9
0°-180°	6435.0	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	32	55	71	78	8
95°	75	81	51	66	70	93
105°	363	375	388	396	398	384
115°	676	686	698	700	696	670
125°	960	968	977	978	977	857
135°	1196	1202	1203	1206	1201	921
145°	1386	1387	1388	1390	1385	866
155°	1525	1519	1521	1523	1514	703
165°	1610	1603	1604	1610	1601	455
175°	1646	1639	1640	1649	1639	157
180°	1646	1646	1646	1646	1646	



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CATALOG NUMBER: S125DIW-S375D1340U830-4F0-1E-UDD-D

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°	13.9	17.3	20.9	24.4	28.0	31.6	35.3	38.9	42.6	46.3	48.7
90°	8.2	13.5	18.8	24.0	29.2	34.5	39.7	44.9	50.0	55.2	58.8
92.5°	25.1	26.4	27.8	29.1	30.4	33.6	38.7	43.7	48.8	53.8	57.4
95°	75.2	76.9	78.6	80.3	82.0	79.4	72.4	65.3	58.3	51.4	54.9
97.5°	150.3	154.1	157.8	161.6	165.3	158.5	141.3	124.1	106.9	89.6	84.1
100°	208.6	211.4	214.2	217.2	220.0	223.5	227.7	231.9	236.0	240.3	201.9
102.5°	267.8	270.7	273.6	276.5	279.5	282.8	286.3	290.0	293.7	297.4	291.7
105°	362.7	365.3	368.0	370.6	373.2	376.0	378.9	381.8	384.7	387.7	389.6
107.5°	461.3	462.6	463.9	465.2	466.6	468.8	472.2	475.5	478.8	482.2	484.2
110°	525.4	526.5	527.7	528.9	530.0	532.3	535.5	538.8	542.0	545.3	546.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	585.9	587.5	589.1	590.6	592.2	594.5	597.5	600.4	603.3	606.3	607.1
115°	676.3	678.3	680.3	682.3	684.4	686.8	689.6	692.4	695.1	698.0	698.6
117.5°	769.8	770.2	770.5	771.0	771.4	773.3	776.7	780.0	783.4	786.9	787.1
120°	828.4	828.4	828.4	828.4	828.4	830.0	833.0	836.0	839.1	842.2	843.2
122.5°	879.8	880.9	882.1	883.3	884.4	886.3	888.8	891.4	893.8	896.4	897.4
125°	959.7	961.5	963.3	965.2	967.0	968.8	970.7	972.7	974.6	976.6	977.0
127.5°	1035.7	1036.9	1038.2	1039.4	1040.8	1042.1	1043.5	1044.9	1046.3	1047.7	1048.6
130°	1082.5	1083.8	1085.1	1086.3	1087.6	1089.0	1090.6	1092.3	1093.9	1095.5	1096.1
132.5°	1129.1	1130.6	1132.2	1133.7	1135.3	1136.2	1136.7	1137.2	1137.6	1138.0	1139.3
135°	1195.6	1197.1	1198.6	1200.2	1201.7	1202.6	1202.7	1202.8	1203.0	1203.1	1203.8
137.5°	1256.8	1258.1	1259.4	1260.7	1262.1	1262.7	1262.5	1262.3	1262.3	1262.1	1263.3
140°	1296.5	1297.0	1297.5	1298.1	1298.6	1298.8	1298.6	1298.4	1298.3	1298.1	1299.7
142.5°	1332.6	1332.8	1333.0	1333.3	1333.6	1333.9	1334.3	1334.6	1335.1	1335.5	1336.5
145°	1385.5	1386.0	1386.4	1386.9	1387.3	1387.5	1387.5	1387.5	1387.5	1387.5	1388.3
147.5°	1431.4	1431.3	1431.3	1431.2	1431.1	1431.2	1431.4	1431.8	1432.1	1432.5	1432.9
150°	1460.8	1460.2	1459.7	1459.2	1458.6	1458.6	1459.2	1459.7	1460.2	1460.8	1461.3
152.5°	1489.0	1487.9	1486.7	1485.5	1484.3	1483.9	1484.5	1485.1	1485.6	1486.1	1486.7
155°	1525.4	1523.8	1522.2	1520.6	1518.9	1518.4	1518.9	1519.5	1520.0	1520.6	1521.4
157.5°	1553.5	1552.6	1551.5	1550.6	1549.6	1549.2	1549.2	1549.3	1549.4	1549.4	1550.2
160°	1573.0	1571.4	1569.8	1568.1	1566.5	1565.8	1566.1	1566.4	1566.7	1567.0	1568.0
162.5°	1588.7	1587.1	1585.4	1583.8	1582.2	1581.5	1581.8	1582.1	1582.2	1582.5	1584.0
165°	1609.7	1608.0	1606.4	1604.8	1603.2	1602.4	1602.7	1603.0	1603.3	1603.5	1605.1
167.5°	1625.2	1623.6	1621.9	1620.2	1618.5	1617.9	1618.1	1618.3	1618.6	1618.9	1620.9
170°	1634.1	1632.2	1630.2	1628.3	1626.5	1625.6	1625.9	1626.2	1626.5	1626.7	1628.9
172.5°	1639.9	1638.0	1636.2	1634.2	1632.3	1631.6	1632.1	1632.6	1633.0	1633.5	1635.5
175°	1646.2	1644.6	1643.0	1641.3	1639.7	1639.1	1639.4	1639.6	1639.9	1640.1	1642.3
177.5°	1649.2	1647.8	1646.6	1645.3	1644.0	1643.4	1643.7	1643.9	1644.1	1644.3	1645.9
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



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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°	51.3	53.7	56.3	57.9	58.7	59.6	60.4	61.3
90°	62.4	66.0	69.6	72.1	73.6	75.1	76.6	78.0
92.5°	60.9	64.4	67.9	70.1	71.3	72.3	73.3	74.4
95°	58.2	61.7	65.2	67.4	68.1	68.7	69.4	70.0
97.5°	78.4	72.9	67.2	64.8	65.4	66.1	66.7	67.4
100°	163.4	125.1	86.7	67.3	66.8	66.3	65.8	65.2
102.5°	286.1	280.3	274.7	262.9	245.0	227.2	209.2	191.4
105°	391.5	393.4	395.4	396.5	396.9	397.4	397.8	398.1
107.5°	486.2	488.1	490.0	491.0	490.7	490.5	490.3	490.1
110°	547.2	548.3	549.3	550.4	551.3	552.2	553.2	554.1



TEST NUMBER: P333360-830

CATALOG NUMBER: S125DIW-S375D1340U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	607.8	608.5	609.3	609.7	610.0	610.4	610.7	611.0
115°	699.3	699.9	700.6	700.4	699.4	698.3	697.2	696.2
117.5°	787.4	787.6	787.9	788.0	787.9	787.9	787.8	787.8
120°	844.3	845.5	846.5	846.7	845.9	845.2	844.3	843.6
122.5°	898.4	899.5	900.5	900.5	899.5	898.5	897.5	896.5
125°	977.5	977.9	978.4	978.5	978.2	977.8	977.5	977.1
127.5°	1049.4	1050.3	1051.1	1050.8	1049.3	1047.9	1046.5	1045.0
130°	1096.6	1097.1	1097.7	1097.5	1096.6	1095.8	1095.0	1094.0
132.5°	1140.5	1141.6	1142.8	1142.9	1142.0	1141.0	1140.1	1139.2
135°	1204.6	1205.2	1206.0	1205.7	1204.6	1203.4	1202.3	1201.2
137.5°	1264.5	1265.8	1267.1	1267.2	1266.1	1265.1	1264.1	1263.1
140°	1301.3	1303.0	1304.6	1304.8	1303.4	1302.2	1301.0	1299.8
142.5°	1337.6	1338.5	1339.5	1339.4	1338.2	1337.0	1335.8	1334.5
145°	1389.0	1389.8	1390.5	1390.3	1389.1	1387.8	1386.6	1385.3
147.5°	1433.4	1433.9	1434.4	1433.7	1431.9	1430.1	1428.4	1426.6
150°	1461.9	1462.4	1462.9	1462.2	1460.1	1458.0	1455.9	1453.9
152.5°	1487.2	1487.8	1488.3	1487.6	1485.7	1483.8	1481.9	1479.9
155°	1522.2	1523.0	1523.8	1523.1	1521.0	1518.8	1516.6	1514.5
157.5°	1551.1	1552.0	1552.8	1552.2	1550.0	1547.8	1545.7	1543.5
160°	1569.1	1570.2	1571.3	1570.7	1568.6	1566.4	1564.2	1562.1
162.5°	1585.5	1587.1	1588.7	1588.2	1585.8	1583.4	1581.0	1578.7
165°	1606.8	1608.4	1610.1	1609.8	1607.6	1605.4	1603.3	1601.1
167.5°	1622.9	1624.8	1626.7	1626.5	1624.0	1621.6	1619.2	1616.7
170°	1631.1	1633.2	1635.4	1635.3	1632.9	1630.4	1628.0	1625.5
172.5°	1637.5	1639.5	1641.3	1641.2	1638.7	1636.3	1633.8	1631.4
175°	1644.5	1646.6	1648.8	1648.7	1646.2	1643.8	1641.3	1638.9
177.5°	1647.4	1648.9	1650.4	1650.3	1648.5	1646.8	1645.0	1643.3
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2

(END OF REPORT)