

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: P333475-830

Luminaire Tested: **S125DIW-S1270D1050U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333475-830
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: S125DIW-S1270D1050U830-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8069.9 lumens
Efficiency: N/A
Efficacy: 119.7 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: General Diffuse

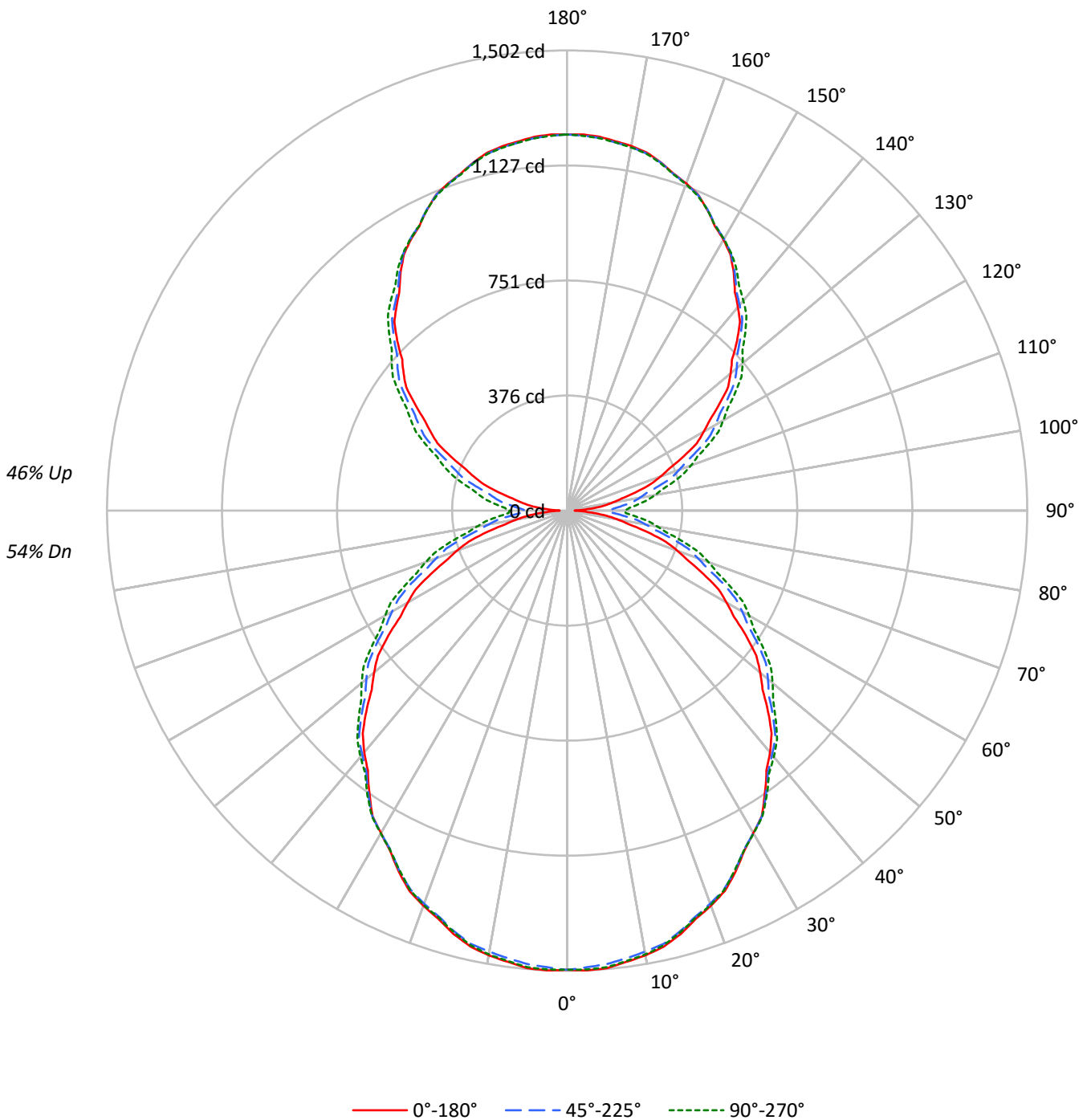
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	86	83	79	74	71	69	62	60	58	52	50	49	44
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41	36
3	81	71	63	57	75	66	59	54	56	51	47	48	44	40	40	37	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	26
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25	22
6	62	50	42	35	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20	17
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18	15
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16	14
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	21	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9680	9680	9680
5°	9700	9502	9532
10°	9630	9332	9318
15°	9517	9129	9046
20°	9362	8878	8774
25°	9178	8609	8439
30°	8955	8314	8134
35°	8748	8042	7856
40°	8535	7756	7574
45°	8297	7510	7326
50°	8068	7245	7106
55°	7794	6995	6847
60°	7494	6708	6584
65°	7180	6410	6286
70°	6825	6000	5981
75°	6261	5606	5607
80°	5525	5130	5198
85°	4842	4811	5069



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.8
10°-20°	402.4	5.0
20°-30°	598.4	7.4
30°-40°	708.8	8.8
40°-50°	732.8	9.1
50°-60°	675.1	8.4
60°-70°	545.7	6.8
70°-80°	365.5	4.5
80°-90°	192.2	2.4
90°-100°	188.5	2.3
100°-110°	321.1	4.0
110°-120°	463.7	5.7
120°-130°	570.9	7.1
130°-140°	619.3	7.7
140°-150°	596.8	7.4
150°-160°	499.1	6.2
160°-170°	331.7	4.1
170°-180°	116.1	1.4
0°-30°	1142.5	14.2
0°-40°	1851.2	22.9
0°-60°	3259.1	40.4
0°-90°	4362.5	54.1
90°-120°	973.4	12.1
90°-150°	2760.4	34.2
90°-180°	3707.0	45.9
0°-180°	8069.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1499	1496	1486	1497	1496	142
15°	1431	1432	1422	1430	1425	403
25°	1300	1304	1296	1301	1295	598
35°	1126	1135	1132	1136	1136	704
45°	927	943	951	961	962	715
55°	713	736	760	775	782	637
65°	491	525	560	581	588	487
75°	270	309	356	384	392	287
85°	81	130	181	212	225	86
90°	24	79	136	173	188	19
95°	81	122	181	218	232	81
105°	231	260	309	343	357	247
115°	420	436	475	499	508	416
125°	607	612	641	662	669	543
135°	784	789	800	818	822	604
145°	948	950	953	960	964	592
155°	1083	1083	1084	1087	1083	499
165°	1178	1176	1177	1180	1175	332
175°	1224	1221	1220	1226	1220	116
180°	1227	1227	1227	1227	1227	



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9
2.5°	1502.4	1501.9	1501.4	1500.9	1500.3	1499.2	1497.3	1495.5	1493.7	1491.9	1493.7
5°	1498.9	1498.3	1497.6	1496.9	1496.3	1494.9	1492.5	1490.3	1488.0	1485.7	1488.3
7.5°	1485.7	1485.4	1485.2	1484.9	1484.7	1483.4	1481.0	1478.7	1476.3	1473.9	1476.2
10°	1473.9	1473.9	1473.9	1473.9	1473.9	1472.6	1470.0	1467.4	1464.8	1462.2	1464.4
12.5°	1457.5	1457.7	1458.0	1458.3	1458.5	1457.6	1455.6	1453.4	1451.3	1449.3	1451.0
15°	1431.3	1431.6	1432.0	1432.3	1432.7	1431.6	1429.4	1427.1	1424.8	1422.5	1424.5
17.5°	1397.2	1397.9	1398.5	1399.2	1399.9	1399.0	1396.8	1394.5	1392.1	1389.9	1391.4
20°	1372.5	1373.2	1373.9	1374.5	1375.2	1374.3	1372.1	1369.8	1367.4	1365.2	1366.2
22.5°	1344.3	1345.5	1346.7	1347.8	1349.1	1348.3	1345.8	1343.2	1340.7	1338.1	1339.4
25°	1300.5	1301.6	1302.5	1303.4	1304.5	1304.0	1302.0	1300.0	1298.1	1296.1	1297.4
27.5°	1251.8	1253.2	1254.6	1256.0	1257.5	1257.1	1254.9	1252.6	1250.5	1248.2	1249.2
30°	1215.3	1217.3	1219.2	1221.2	1223.1	1223.1	1221.2	1219.2	1217.3	1215.3	1216.0
32.5°	1182.4	1184.1	1185.8	1187.5	1189.2	1189.3	1187.9	1186.5	1185.0	1183.6	1184.2
35°	1125.7	1127.9	1130.2	1132.6	1134.8	1135.5	1134.4	1133.5	1132.6	1131.5	1132.6
37.5°	1068.9	1071.0	1073.1	1075.3	1077.3	1078.2	1077.9	1077.5	1077.2	1076.9	1078.2
40°	1030.1	1032.7	1035.4	1038.0	1040.6	1041.7	1041.4	1041.0	1040.8	1040.5	1041.7
42.5°	987.8	991.2	994.6	998.0	1001.5	1003.4	1004.2	1004.9	1005.6	1006.4	1007.9
45°	927.3	930.9	934.4	938.0	941.6	944.2	945.9	947.5	949.1	950.7	953.1
47.5°	865.3	868.6	871.9	875.2	878.5	881.7	884.5	887.3	890.0	892.9	896.3
50°	822.9	826.5	830.1	833.7	837.4	840.9	844.5	848.1	851.7	855.3	858.8
52.5°	778.3	782.7	787.0	791.4	795.8	800.1	804.6	808.9	813.2	817.7	821.5
55°	712.8	717.9	723.2	728.4	733.6	738.9	744.0	749.3	754.5	759.8	763.4
57.5°	645.7	652.0	658.3	664.5	670.8	676.9	683.0	688.9	694.9	701.0	705.1
60°	601.1	607.6	614.1	620.7	627.2	633.7	640.3	646.8	653.3	659.8	664.7
62.5°	557.5	564.1	570.6	577.1	583.6	590.5	597.5	604.5	611.6	618.7	624.1
65°	490.8	498.3	505.9	513.4	520.8	528.6	536.4	544.2	552.0	559.9	564.8
67.5°	427.9	435.2	442.4	449.7	456.9	464.6	472.5	480.5	488.4	496.4	502.4
70°	382.1	389.6	397.1	404.6	412.1	420.1	428.6	437.2	445.6	454.1	460.3
72.5°	337.4	345.2	353.0	360.7	368.5	377.0	386.3	395.6	404.8	414.2	420.8
75°	270.4	278.9	287.4	295.9	304.3	313.9	324.2	334.7	345.2	355.6	362.1
77.5°	206.0	215.8	225.6	235.4	245.2	255.1	265.2	275.2	285.3	295.4	302.6
80°	166.1	175.9	185.7	195.5	205.3	215.7	226.8	237.9	249.0	260.1	267.3
82.5°	129.6	140.0	150.2	160.6	170.9	181.7	193.1	204.4	215.8	227.2	234.1
85°	80.9	91.6	102.4	113.2	123.9	135.1	146.5	157.9	169.3	180.8	187.9
87.5°	46.0	56.8	67.6	78.4	89.2	100.3	111.7	123.1	134.5	145.9	153.6
90°	24.5	36.6	48.7	60.9	73.0	85.4	98.0	110.6	123.2	135.8	144.4
92.5°	44.3	55.1	66.0	76.8	87.7	99.7	112.9	126.1	139.3	152.5	161.1
95°	81.2	90.1	99.0	107.9	116.9	127.9	141.1	154.4	167.6	180.8	189.5
97.5°	120.5	128.3	136.1	143.9	151.7	162.5	176.1	189.7	203.4	217.0	225.3
100°	149.9	156.7	163.6	170.4	177.3	187.4	200.6	213.8	227.0	240.2	248.9
102.5°	181.5	188.7	196.0	203.1	210.3	219.7	231.3	242.9	254.5	266.0	274.8
105°	231.0	237.2	243.6	249.9	256.1	264.8	275.9	286.9	298.0	309.1	316.9
107.5°	285.8	291.2	296.7	302.3	307.7	315.7	326.1	336.5	346.9	357.2	364.3
110°	323.6	328.5	333.5	338.5	343.5	350.8	360.6	370.4	380.2	389.9	396.8



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	363.3	366.9	370.6	374.3	378.1	384.7	394.4	404.1	413.8	423.5	429.7
115°	420.5	423.6	426.7	429.8	433.0	439.0	447.9	456.9	465.7	474.7	480.3
117.5°	477.8	479.7	481.5	483.4	485.3	490.5	498.9	507.3	515.8	524.1	529.9
120°	514.4	516.5	518.6	520.6	522.6	527.5	535.3	543.0	550.7	558.5	563.9
122.5°	553.0	553.8	554.7	555.5	556.4	560.7	568.5	576.3	584.1	591.9	597.0
125°	606.6	607.6	608.5	609.4	610.4	614.3	620.9	627.7	634.4	641.2	646.0
127.5°	662.4	662.8	663.3	663.6	664.0	667.0	672.6	678.3	683.8	689.5	694.1
130°	696.8	697.6	698.2	699.0	699.7	702.6	707.6	712.7	717.7	722.6	727.0
132.5°	730.0	731.7	733.4	735.1	736.7	739.2	742.7	746.1	749.6	753.1	757.4
135°	784.2	785.1	786.1	787.0	788.0	789.7	792.2	794.7	797.2	799.7	803.9
137.5°	835.1	836.0	837.0	838.0	839.0	840.2	841.8	843.4	845.0	846.5	850.6
140°	866.8	867.8	868.8	870.0	871.0	872.0	873.0	873.9	874.9	875.8	879.9
142.5°	899.6	900.2	900.9	901.4	902.1	902.9	903.7	904.6	905.5	906.3	909.6
145°	947.9	948.5	949.0	949.5	950.0	950.6	951.2	951.9	952.5	953.1	954.8
147.5°	991.2	991.6	992.1	992.5	993.0	993.5	994.0	994.5	995.0	995.5	996.6
150°	1021.0	1020.8	1020.5	1020.3	1020.1	1020.4	1021.2	1022.1	1022.9	1023.8	1023.8
152.5°	1045.4	1045.7	1045.9	1046.3	1046.6	1046.9	1047.3	1047.5	1047.9	1048.3	1048.8
155°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.1	1083.4	1083.5	1083.7	1084.0	1084.9
157.5°	1116.6	1116.2	1115.7	1115.2	1114.7	1114.7	1114.8	1115.0	1115.3	1115.5	1116.3
160°	1136.5	1135.9	1135.2	1134.6	1134.0	1133.8	1134.0	1134.2	1134.3	1134.6	1135.5
162.5°	1154.0	1153.6	1153.1	1152.6	1152.2	1152.0	1152.1	1152.1	1152.2	1152.2	1153.2
165°	1177.6	1177.1	1176.7	1176.3	1175.8	1175.7	1176.0	1176.2	1176.4	1176.6	1177.4
167.5°	1197.4	1196.6	1195.7	1194.9	1194.0	1193.6	1193.6	1193.6	1193.6	1193.6	1194.9
170°	1208.2	1207.3	1206.5	1205.6	1204.8	1204.3	1204.3	1204.3	1204.3	1204.3	1205.6
172.5°	1215.8	1214.9	1214.1	1213.2	1212.4	1211.9	1211.9	1211.9	1211.9	1211.9	1213.2
175°	1224.4	1223.5	1222.7	1221.8	1221.0	1220.5	1220.5	1220.5	1220.5	1220.5	1221.8
177.5°	1228.8	1228.0	1227.4	1226.7	1226.1	1225.6	1225.4	1225.3	1225.1	1224.9	1226.0
180°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9
2.5°	1495.5	1497.3	1499.2	1500.0	1499.7	1499.5	1499.2	1498.9
5°	1490.9	1493.6	1496.2	1497.3	1496.9	1496.7	1496.3	1496.0
7.5°	1478.5	1480.8	1483.1	1484.0	1483.8	1483.4	1483.1	1482.7
10°	1466.8	1469.0	1471.3	1472.3	1472.0	1471.7	1471.3	1471.0
12.5°	1452.7	1454.5	1456.3	1456.8	1455.9	1455.1	1454.2	1453.4
15°	1426.4	1428.4	1430.3	1430.7	1429.4	1428.0	1426.7	1425.4
17.5°	1392.9	1394.4	1395.9	1396.3	1395.4	1394.7	1393.9	1393.1
20°	1367.2	1368.1	1369.1	1369.6	1369.6	1369.6	1369.6	1369.6
22.5°	1340.7	1341.9	1343.1	1343.3	1342.6	1341.8	1341.0	1340.2
25°	1298.7	1300.0	1301.4	1301.2	1299.6	1297.9	1296.3	1294.7
27.5°	1250.1	1250.9	1251.9	1252.1	1251.4	1250.8	1250.3	1249.7
30°	1216.6	1217.3	1218.0	1218.0	1217.8	1217.4	1217.1	1216.7
32.5°	1184.9	1185.5	1186.2	1186.4	1186.0	1185.7	1185.3	1185.1
35°	1133.5	1134.4	1135.5	1136.0	1136.0	1136.0	1136.0	1136.0
37.5°	1079.5	1080.8	1082.1	1082.7	1082.5	1082.4	1082.3	1082.1
40°	1043.0	1044.3	1045.7	1046.6	1047.3	1047.9	1048.6	1049.2
42.5°	1009.5	1011.1	1012.6	1013.4	1013.6	1013.7	1013.9	1014.0
45°	955.4	957.6	959.9	961.2	961.6	961.9	962.2	962.5
47.5°	899.6	902.9	906.3	908.2	909.0	909.6	910.4	911.2
50°	862.4	866.0	869.7	871.9	872.9	873.9	874.9	875.8
52.5°	825.4	829.2	833.0	835.4	836.0	836.8	837.5	838.2
55°	766.9	770.5	774.1	776.6	777.9	779.2	780.5	781.8
57.5°	709.2	713.3	717.5	720.0	721.0	721.9	722.9	723.9
60°	669.6	674.5	679.4	682.3	683.3	684.3	685.3	686.3
62.5°	629.5	634.9	640.4	643.7	644.9	646.2	647.4	648.7
65°	569.7	574.6	579.5	582.6	583.9	585.2	586.5	587.8
67.5°	508.3	514.3	520.2	524.0	525.7	527.4	529.1	530.8
70°	466.5	472.7	478.9	483.0	484.9	486.9	488.9	490.8
72.5°	427.5	434.3	441.0	445.1	446.6	448.0	449.4	450.8
75°	368.7	375.2	381.7	385.9	387.5	389.1	390.8	392.4
77.5°	309.7	316.9	324.1	328.4	329.7	330.9	332.2	333.6
80°	274.5	281.6	288.9	293.1	294.4	295.7	297.0	298.3
82.5°	241.0	248.0	254.9	259.5	261.8	264.2	266.6	268.9
85°	195.1	202.3	209.5	214.4	217.0	219.6	222.3	224.8
87.5°	161.4	169.1	176.8	181.8	184.3	186.7	189.1	191.5
90°	152.9	161.5	170.0	175.8	178.7	181.6	184.5	187.5
92.5°	169.8	178.4	187.1	192.7	195.5	198.3	201.0	203.8
95°	198.1	206.8	215.5	221.2	223.9	226.6	229.3	232.1
97.5°	233.6	241.8	250.1	255.4	257.9	260.3	262.9	265.3
100°	257.7	266.5	275.2	280.8	283.2	285.6	287.9	290.4
102.5°	283.4	292.1	300.8	306.3	308.9	311.4	314.1	316.6
105°	324.7	332.5	340.3	345.6	348.6	351.5	354.4	357.3
107.5°	371.5	378.5	385.6	390.2	392.2	394.2	396.2	398.1
110°	403.7	410.5	417.4	421.8	423.9	425.9	428.0	430.1



TEST NUMBER: P333475-830

CATALOG NUMBER: S125DIW-S1270D1050U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	435.9	442.1	448.5	452.5	454.4	456.3	458.2	460.1
115°	486.0	491.6	497.3	501.1	502.8	504.5	506.2	508.0
117.5°	535.6	541.3	547.1	550.5	552.0	553.4	554.7	556.1
120°	569.5	575.0	580.6	583.9	585.0	586.2	587.3	588.4
122.5°	602.2	607.3	612.4	615.6	616.9	618.1	619.4	620.8
125°	650.8	655.6	660.4	663.5	665.0	666.4	667.8	669.2
127.5°	698.7	703.3	707.9	711.0	712.5	713.9	715.4	716.9
130°	731.3	735.7	740.1	742.8	744.0	745.3	746.5	747.6
132.5°	761.8	766.1	770.5	773.1	773.8	774.6	775.4	776.2
135°	808.1	812.4	816.6	819.2	819.9	820.8	821.5	822.3
137.5°	854.7	858.8	863.0	865.2	865.3	865.6	865.8	866.1
140°	883.9	887.9	891.9	894.0	894.3	894.6	894.8	895.0
142.5°	913.0	916.3	919.6	921.4	921.7	921.9	922.2	922.4
145°	956.4	958.0	959.7	960.8	961.5	962.1	962.8	963.5
147.5°	997.6	998.6	999.7	999.8	998.9	998.1	997.2	996.4
150°	1023.8	1023.8	1023.8	1023.8	1023.7	1023.6	1023.5	1023.3
152.5°	1049.2	1049.8	1050.3	1050.2	1049.5	1048.8	1048.1	1047.4
155°	1085.7	1086.6	1087.4	1087.2	1086.2	1085.1	1084.1	1083.0
157.5°	1117.2	1118.0	1118.9	1118.6	1117.2	1115.8	1114.4	1113.0
160°	1136.3	1137.2	1138.0	1137.8	1136.8	1135.8	1134.7	1133.6
162.5°	1154.2	1155.2	1156.2	1156.1	1154.9	1153.7	1152.4	1151.2
165°	1178.3	1179.1	1180.0	1179.8	1178.6	1177.2	1176.0	1174.7
167.5°	1196.2	1197.4	1198.7	1198.7	1197.4	1196.1	1194.8	1193.4
170°	1206.8	1208.2	1209.4	1209.3	1207.8	1206.4	1204.9	1203.3
172.5°	1214.5	1215.8	1217.0	1217.0	1215.7	1214.4	1213.1	1211.7
175°	1223.0	1224.4	1225.7	1225.5	1224.1	1222.6	1221.1	1219.6
177.5°	1227.0	1228.0	1229.0	1228.9	1227.8	1226.5	1225.4	1224.2
180°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2

(END OF REPORT)