

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: P333326-830

Luminaire Tested: **S125DIP-S1270D1035U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333326-830
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: S125DIP-S1270D1035U830-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8019.4 lumens
Efficiency: N/A
Efficacy: 120.1 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

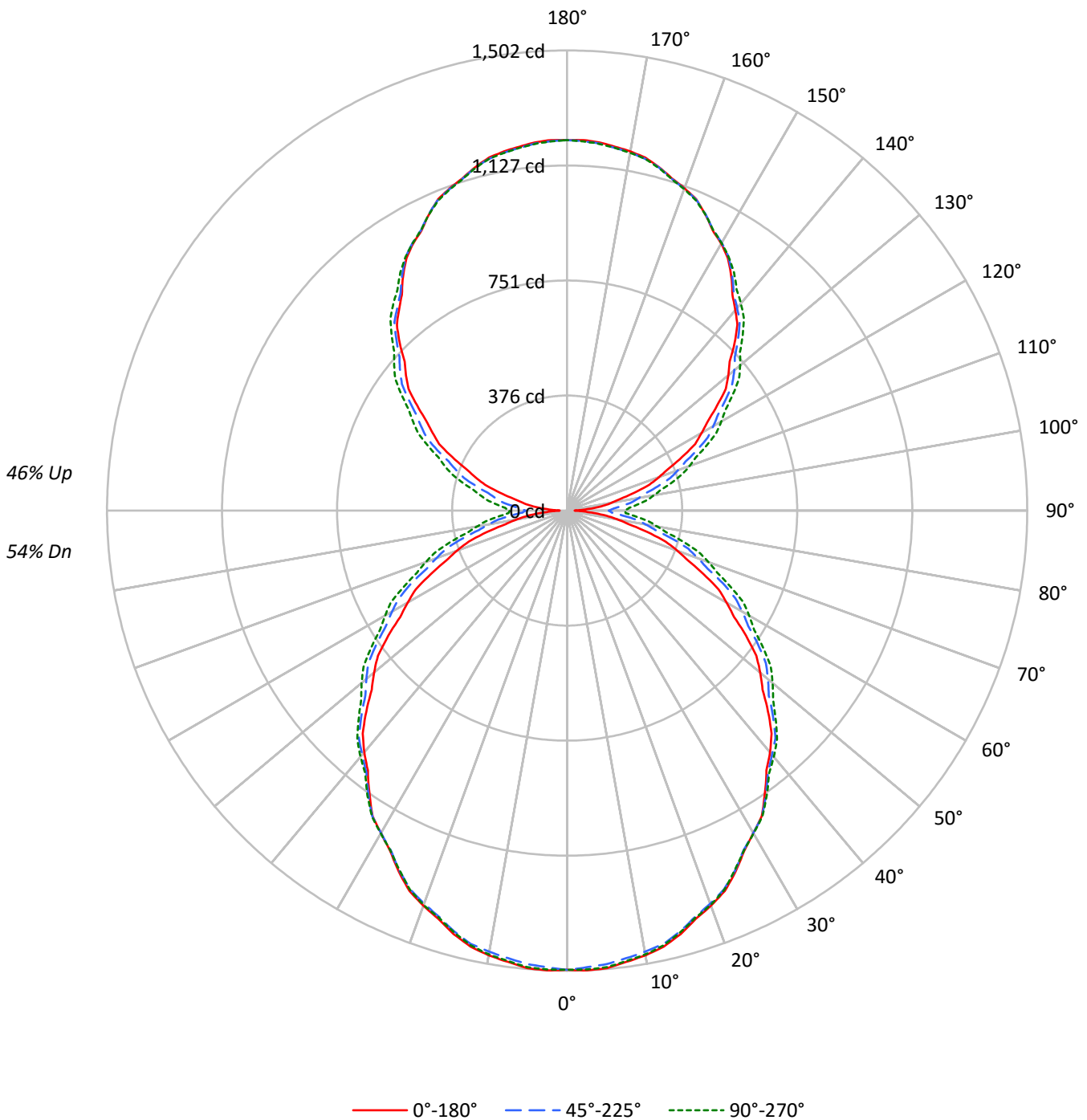
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	87	83	80	74	71	69	63	61	59	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	57	51	47	48	44	41	40	37	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	35	35	32	29	26
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	26	22
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	29	36	31	26	31	26	23	26	23	20	17
8	54	41	33	27	49	38	31	26	33	27	23	29	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	23	19	24	20	17	21	17	14	13

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.8
10°-20°	402.4	5.0
20°-30°	598.4	7.5
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	4.6
80°-90°	192.2	2.4
90°-100°	187.3	2.3
100°-110°	317.6	4.0
110°-120°	457.6	5.7
120°-130°	562.9	7.0
130°-140°	610.4	7.6
140°-150°	588.1	7.3
150°-160°	491.7	6.1
160°-170°	326.9	4.1
170°-180°	114.4	1.4
0°-30°	1142.5	14.2
0°-40°	1851.2	23.1
0°-60°	3259.1	40.6
0°-90°	4362.5	54.4
90°-120°	962.5	12.0
90°-150°	2724.0	34.0
90°-180°	3657.0	45.6
0°-180°	8019.4	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	187	19
95°	80	121	180	217	231	80
105°	228	257	306	340	354	243
115°	414	430	468	493	502	410
125°	598	603	632	653	660	535
135°	773	777	788	806	811	595
145°	934	936	939	946	950	583
155°	1067	1067	1068	1071	1067	491
165°	1160	1159	1159	1162	1157	327
175°	1206	1203	1203	1208	1202	115
180°	1209	1209	1209	1209	1209	



TEST NUMBER: P333326-830

CATALOG NUMBER: S125DIP-S1270D1035U830-4F0-1E-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	145.8	153.5
90°	24.4	36.6	48.7	60.8	73.0	85.3	97.8	110.5	123.0	135.5	144.1
92.5°	43.9	54.8	65.6	76.4	87.3	99.2	112.4	125.6	138.7	151.9	160.6
95°	80.3	89.2	98.1	107.0	115.9	127.0	140.2	153.4	166.5	179.7	188.4
97.5°	118.9	126.8	134.6	142.4	150.2	160.9	174.5	188.1	201.7	215.3	223.6
100°	147.9	154.8	161.6	168.4	175.3	185.3	198.5	211.7	224.9	238.0	246.8
102.5°	179.1	186.2	193.4	200.6	207.8	217.2	228.8	240.3	251.8	263.4	272.1
105°	227.8	234.0	240.3	246.6	252.9	261.6	272.6	283.6	294.6	305.8	313.5
107.5°	281.7	287.2	292.7	298.2	303.7	311.6	322.0	332.3	342.7	353.1	360.1
110°	319.0	323.9	328.9	333.8	338.7	346.2	355.9	365.7	375.5	385.2	392.1



TEST NUMBER: P333326-830

CATALOG NUMBER: S125DIP-S1270D1035U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	358.1	361.7	365.4	369.1	372.8	379.5	389.2	398.8	408.5	418.2	424.4
115°	414.3	417.5	420.7	423.8	426.9	432.9	441.8	450.7	459.6	468.5	474.2
117.5°	470.9	472.8	474.7	476.5	478.4	483.5	491.9	500.4	508.8	517.2	522.9
120°	507.0	509.1	511.0	513.1	515.1	520.0	527.7	535.5	543.2	550.8	556.4
122.5°	545.0	545.8	546.7	547.5	548.3	552.6	560.4	568.3	576.0	583.8	588.9
125°	597.8	598.7	599.6	600.6	601.4	605.3	612.1	618.8	625.6	632.3	637.1
127.5°	652.7	653.1	653.6	653.9	654.3	657.3	662.9	668.5	674.1	679.7	684.4
130°	686.6	687.3	688.1	688.8	689.5	692.4	697.4	702.4	707.3	712.3	716.7
132.5°	719.3	721.0	722.6	724.2	725.9	728.5	731.9	735.4	738.8	742.3	746.6
135°	772.7	773.6	774.5	775.4	776.4	778.1	780.6	783.1	785.6	788.1	792.3
137.5°	822.8	823.8	824.7	825.7	826.6	827.8	829.4	831.0	832.5	834.2	838.3
140°	854.0	855.1	856.1	857.1	858.2	859.2	860.2	861.1	862.0	863.0	867.0
142.5°	886.4	887.0	887.6	888.3	888.8	889.6	890.4	891.3	892.1	893.1	896.4
145°	934.0	934.5	935.0	935.5	936.0	936.6	937.3	937.8	938.5	939.1	940.8
147.5°	976.6	977.0	977.5	978.0	978.4	978.9	979.4	979.9	980.3	980.9	981.9
150°	1005.9	1005.7	1005.5	1005.3	1005.1	1005.4	1006.3	1007.1	1007.9	1008.7	1008.7
152.5°	1030.0	1030.3	1030.6	1030.9	1031.1	1031.5	1031.8	1032.2	1032.5	1032.8	1033.3
155°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.4	1067.6	1067.8	1068.0	1068.8
157.5°	1100.2	1099.8	1099.3	1098.8	1098.3	1098.3	1098.4	1098.6	1098.9	1099.1	1099.9
160°	1119.7	1119.2	1118.5	1117.9	1117.3	1117.1	1117.3	1117.5	1117.7	1117.9	1118.7
162.5°	1137.1	1136.6	1136.1	1135.7	1135.3	1135.0	1135.1	1135.1	1135.2	1135.2	1136.2
165°	1160.3	1159.8	1159.4	1159.0	1158.6	1158.5	1158.7	1158.9	1159.0	1159.3	1160.2
167.5°	1179.8	1178.9	1178.2	1177.3	1176.5	1176.0	1176.0	1176.0	1176.0	1176.0	1177.3
170°	1190.3	1189.5	1188.6	1187.9	1187.0	1186.6	1186.6	1186.6	1186.6	1186.6	1187.9
172.5°	1197.9	1197.0	1196.2	1195.3	1194.6	1194.1	1194.1	1194.1	1194.1	1194.1	1195.3
175°	1206.4	1205.5	1204.7	1203.8	1203.0	1202.6	1202.6	1202.6	1202.6	1202.6	1203.8
177.5°	1210.7	1210.0	1209.4	1208.6	1208.0	1207.6	1207.4	1207.2	1207.1	1206.9	1208.0
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



TEST NUMBER: P333326-830

CATALOG NUMBER: S125DIP-S1270D1035U830-4F0-1E-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°	161.3	169.0	176.7	181.8	184.2	186.6	189.1	191.4
90°	152.7	161.3	169.8	175.5	178.4	181.3	184.3	187.2
92.5°	169.2	177.9	186.4	192.2	194.9	197.7	200.4	203.1
95°	197.0	205.7	214.3	220.0	222.7	225.5	228.1	230.8
97.5°	231.8	240.0	248.3	253.6	256.1	258.5	261.0	263.4
100°	255.5	264.2	273.0	278.5	280.9	283.3	285.7	288.0
102.5°	280.7	289.4	298.0	303.6	306.1	308.7	311.2	313.8
105°	321.3	329.0	336.9	342.2	345.2	348.1	350.9	353.8
107.5°	367.2	374.4	381.4	386.0	388.0	389.9	391.9	393.9
110°	398.9	405.8	412.6	417.0	419.1	421.2	423.3	425.4



TEST NUMBER: P333326-830

CATALOG NUMBER: S125DIP-S1270D1035U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	430.6	436.9	443.1	447.2	449.1	451.0	452.9	454.9
115°	479.8	485.5	491.2	494.9	496.6	498.4	500.2	501.9
117.5°	528.6	534.3	540.1	543.6	545.0	546.4	547.7	549.1
120°	561.9	567.5	573.1	576.4	577.5	578.6	579.8	580.9
122.5°	594.1	599.2	604.3	607.5	608.8	610.1	611.3	612.7
125°	641.9	646.7	651.5	654.6	656.0	657.4	658.8	660.3
127.5°	689.0	693.6	698.2	701.3	702.8	704.2	705.7	707.2
130°	721.0	725.4	729.8	732.5	733.8	735.0	736.2	737.4
132.5°	750.9	755.4	759.7	762.2	763.1	763.8	764.6	765.4
135°	796.5	800.8	805.0	807.6	808.3	809.2	809.9	810.8
137.5°	842.4	846.5	850.6	852.7	853.0	853.3	853.6	853.8
140°	871.0	875.1	879.0	881.2	881.5	881.7	881.9	882.2
142.5°	899.7	903.0	906.3	908.1	908.3	908.6	908.9	909.2
145°	942.4	944.1	945.7	946.8	947.4	948.2	948.9	949.5
147.5°	983.0	983.9	985.0	985.1	984.2	983.4	982.6	981.8
150°	1008.7	1008.7	1008.7	1008.7	1008.6	1008.5	1008.4	1008.3
152.5°	1033.9	1034.3	1034.8	1034.7	1034.1	1033.4	1032.6	1032.0
155°	1069.7	1070.5	1071.4	1071.3	1070.3	1069.1	1068.1	1067.1
157.5°	1100.7	1101.5	1102.4	1102.1	1100.8	1099.4	1098.0	1096.6
160°	1119.6	1120.4	1121.2	1121.2	1120.1	1119.1	1118.0	1116.9
162.5°	1137.2	1138.2	1139.3	1139.2	1137.9	1136.7	1135.5	1134.3
165°	1160.9	1161.8	1162.6	1162.4	1161.2	1159.9	1158.7	1157.4
167.5°	1178.6	1179.8	1181.1	1181.0	1179.8	1178.5	1177.1	1175.8
170°	1189.1	1190.3	1191.6	1191.5	1190.1	1188.5	1187.1	1185.6
172.5°	1196.7	1197.9	1199.1	1199.1	1197.8	1196.6	1195.2	1193.9
175°	1205.1	1206.4	1207.6	1207.5	1206.1	1204.6	1203.1	1201.6
177.5°	1208.9	1209.9	1210.9	1210.9	1209.7	1208.5	1207.3	1206.2
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2

(END OF REPORT)