

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: P333360-935

Luminaire Tested: **S125DIW-S375D1340U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333360-935
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-S375D1340U935-4F0-1E-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: 5878.3 lumens
Efficiency: N/A
Efficacy: 126.1 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: Semi-Indirect

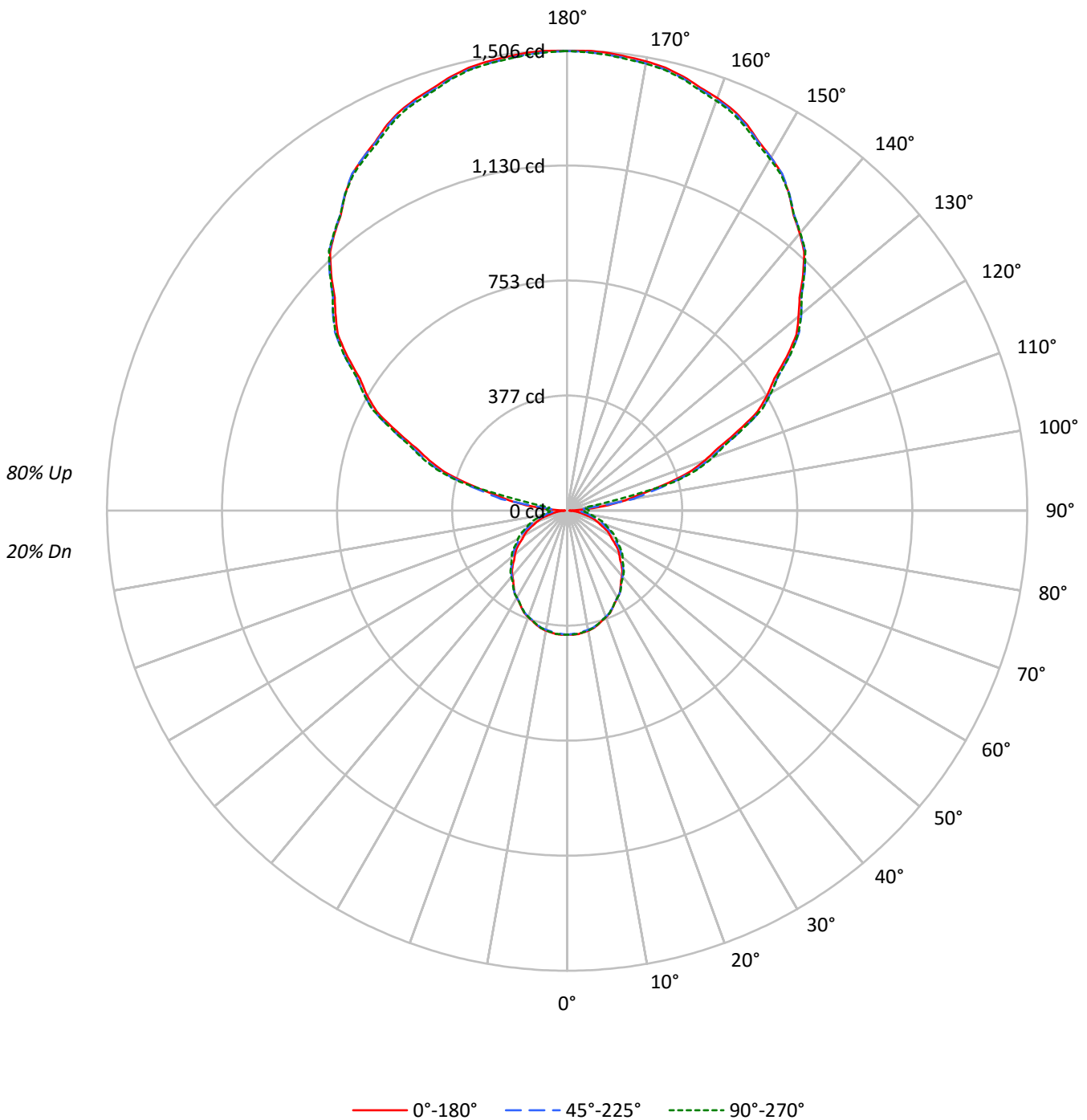
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29
1	91	87	83	79	80	77	73	71	58	56	54	41	39	38	25	24	24
2	82	75	69	64	73	67	62	58	50	47	44	35	33	32	22	21	20
3	75	66	59	53	66	58	53	48	44	40	37	31	29	27	19	18	16
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12
6	58	46	38	33	51	41	34	29	31	27	23	22	19	17	14	12	11
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	12	11	9
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	7
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.7
10°-20°	108.9	1.9
20°-30°	162.0	2.8
30°-40°	191.9	3.3
40°-50°	198.4	3.4
50°-60°	182.8	3.1
60°-70°	147.8	2.5
70°-80°	99.0	1.7
80°-90°	54.5	0.9
90°-100°	83.5	1.4
100°-110°	358.0	6.1
110°-120°	625.1	10.6
120°-130°	792.0	13.5
130°-140°	846.7	14.4
140°-150°	792.2	13.5
150°-160°	640.2	10.9
160°-170°	414.1	7.0
170°-180°	142.8	2.4
0°-30°	309.4	5.3
0°-40°	501.3	8.5
0°-60°	882.5	15.0
0°-90°	1183.7	20.1
90°-120°	1066.6	18.1
90°-150°	3497.5	59.5
90°-180°	4695.0	79.9
0°-180°	5878.3	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°	8	29	50	65	71	7
95°	69	74	47	61	64	85
105°	331	342	354	362	364	351
115°	618	626	638	640	636	612
125°	877	884	892	894	893	783
135°	1092	1098	1099	1102	1097	842
145°	1266	1267	1268	1270	1266	791
155°	1393	1387	1389	1392	1384	642
165°	1470	1464	1465	1471	1463	415
175°	1504	1498	1498	1506	1497	143
180°	1504	1504	1504	1504	1504	



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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°	12.7	15.8	19.1	22.3	25.6	28.8	32.2	35.6	38.9	42.3	44.5
90°	7.5	12.3	17.1	22.0	26.7	31.5	36.2	41.0	45.7	50.5	53.7
92.5°	22.9	24.1	25.4	26.6	27.8	30.7	35.4	40.0	44.6	49.2	52.4
95°	68.7	70.3	71.8	73.4	74.9	72.5	66.1	59.7	53.3	46.9	50.1
97.5°	137.3	140.8	144.1	147.6	151.0	144.8	129.1	113.4	97.6	81.9	76.8
100°	190.5	193.1	195.7	198.4	201.0	204.1	208.0	211.8	215.6	219.5	184.4
102.5°	244.6	247.3	249.9	252.6	255.3	258.3	261.6	264.9	268.3	271.6	266.5
105°	331.3	333.7	336.1	338.5	341.0	343.5	346.1	348.8	351.5	354.1	355.9
107.5°	421.4	422.6	423.8	425.0	426.2	428.3	431.4	434.4	437.4	440.5	442.3
110°	479.9	481.0	482.1	483.1	484.1	486.2	489.1	492.1	495.1	498.1	499.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	535.2	536.7	538.1	539.5	541.0	543.0	545.8	548.5	551.1	553.9	554.6
115°	617.8	619.6	621.5	623.3	625.2	627.4	629.9	632.5	635.0	637.6	638.2
117.5°	703.2	703.5	703.9	704.3	704.6	706.4	709.5	712.6	715.7	718.8	719.0
120°	756.7	756.7	756.7	756.7	756.7	758.2	761.0	763.7	766.5	769.3	770.3
122.5°	803.7	804.7	805.8	806.8	807.9	809.6	811.9	814.2	816.5	818.8	819.8
125°	876.7	878.3	879.9	881.7	883.3	885.0	886.7	888.6	890.3	892.1	892.5
127.5°	946.1	947.2	948.4	949.5	950.7	951.9	953.2	954.5	955.8	957.1	957.9
130°	988.9	990.1	991.2	992.3	993.5	994.8	996.3	997.8	999.3	1000.7	1001.3
132.5°	1031.4	1032.8	1034.2	1035.6	1037.1	1037.9	1038.4	1038.8	1039.2	1039.6	1040.7
135°	1092.2	1093.6	1094.9	1096.4	1097.8	1098.5	1098.6	1098.7	1098.9	1099.0	1099.7
137.5°	1148.1	1149.3	1150.5	1151.7	1152.9	1153.5	1153.3	1153.1	1153.1	1152.9	1154.0
140°	1184.3	1184.8	1185.3	1185.8	1186.3	1186.5	1186.3	1186.1	1185.9	1185.8	1187.2
142.5°	1217.3	1217.5	1217.7	1218.0	1218.2	1218.5	1218.8	1219.2	1219.6	1220.0	1220.9
145°	1265.7	1266.1	1266.4	1266.9	1267.3	1267.5	1267.5	1267.5	1267.5	1267.5	1268.2
147.5°	1307.6	1307.5	1307.4	1307.3	1307.3	1307.3	1307.6	1307.9	1308.2	1308.5	1309.0
150°	1334.4	1333.9	1333.4	1332.9	1332.4	1332.4	1332.9	1333.4	1333.9	1334.4	1334.9
152.5°	1360.2	1359.2	1358.1	1357.0	1355.9	1355.6	1356.1	1356.6	1357.1	1357.5	1358.1
155°	1393.4	1392.0	1390.5	1389.1	1387.5	1387.1	1387.5	1388.0	1388.5	1389.1	1389.7
157.5°	1419.1	1418.2	1417.3	1416.4	1415.6	1415.1	1415.1	1415.2	1415.3	1415.3	1416.1
160°	1436.9	1435.5	1434.0	1432.4	1431.0	1430.4	1430.6	1430.9	1431.2	1431.4	1432.4
162.5°	1451.2	1449.8	1448.2	1446.7	1445.3	1444.7	1444.9	1445.2	1445.4	1445.6	1447.0
165°	1470.4	1468.9	1467.4	1465.9	1464.5	1463.8	1464.0	1464.3	1464.6	1464.8	1466.3
167.5°	1484.6	1483.2	1481.6	1480.1	1478.5	1477.9	1478.1	1478.3	1478.6	1478.9	1480.7
170°	1492.7	1491.0	1489.2	1487.5	1485.7	1485.0	1485.2	1485.5	1485.7	1486.0	1488.0
172.5°	1498.1	1496.3	1494.6	1492.8	1491.1	1490.5	1490.9	1491.3	1491.8	1492.2	1494.0
175°	1503.8	1502.4	1500.9	1499.3	1497.9	1497.3	1497.5	1497.8	1498.1	1498.2	1500.2
177.5°	1506.5	1505.3	1504.2	1503.0	1501.8	1501.2	1501.5	1501.7	1501.8	1502.0	1503.5
180°	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8



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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°	46.8	49.1	51.4	52.9	53.6	54.4	55.2	56.0
90°	57.0	60.3	63.5	65.9	67.2	68.6	70.0	71.3
92.5°	55.6	58.8	62.0	64.1	65.1	66.0	67.0	67.9
95°	53.2	56.4	59.6	61.6	62.2	62.8	63.4	64.0
97.5°	71.6	66.6	61.4	59.2	59.8	60.4	61.0	61.6
100°	149.3	114.3	79.2	61.5	61.0	60.5	60.1	59.6
102.5°	261.3	256.1	250.9	240.1	223.8	207.5	191.1	174.9
105°	357.7	359.4	361.2	362.2	362.6	363.0	363.3	363.7
107.5°	444.1	445.9	447.6	448.5	448.2	448.1	447.9	447.7
110°	499.9	500.8	501.8	502.7	503.6	504.5	505.3	506.2



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CATALOG NUMBER: S125DIW-S375D1340U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	555.2	555.9	556.6	557.0	557.2	557.6	557.8	558.1
115°	638.8	639.4	640.0	639.8	638.9	637.9	636.9	635.9
117.5°	719.3	719.5	719.7	719.8	719.7	719.7	719.6	719.6
120°	771.3	772.3	773.3	773.4	772.7	772.1	771.3	770.6
122.5°	820.7	821.7	822.6	822.6	821.7	820.8	819.8	819.0
125°	892.9	893.3	893.7	893.8	893.5	893.2	892.9	892.6
127.5°	958.6	959.4	960.2	959.9	958.6	957.3	956.0	954.6
130°	1001.8	1002.2	1002.7	1002.5	1001.8	1001.0	1000.2	999.4
132.5°	1041.8	1042.8	1044.0	1044.0	1043.2	1042.3	1041.5	1040.6
135°	1100.4	1101.0	1101.6	1101.4	1100.4	1099.3	1098.3	1097.3
137.5°	1155.1	1156.3	1157.4	1157.5	1156.6	1155.6	1154.8	1153.8
140°	1188.7	1190.2	1191.7	1191.9	1190.7	1189.6	1188.4	1187.3
142.5°	1221.8	1222.7	1223.7	1223.6	1222.4	1221.3	1220.2	1219.0
145°	1268.9	1269.5	1270.2	1270.1	1268.9	1267.7	1266.6	1265.5
147.5°	1309.4	1309.8	1310.3	1309.7	1308.0	1306.4	1304.8	1303.2
150°	1335.4	1335.8	1336.4	1335.7	1333.8	1331.9	1330.0	1328.1
152.5°	1358.6	1359.1	1359.5	1358.9	1357.2	1355.4	1353.7	1351.9
155°	1390.5	1391.2	1392.0	1391.4	1389.4	1387.4	1385.4	1383.5
157.5°	1416.9	1417.7	1418.5	1417.9	1415.9	1413.9	1412.0	1410.0
160°	1433.4	1434.3	1435.4	1434.9	1432.9	1430.9	1428.9	1426.9
162.5°	1448.4	1449.8	1451.2	1450.8	1448.6	1446.4	1444.2	1442.1
165°	1467.7	1469.3	1470.8	1470.5	1468.5	1466.5	1464.6	1462.6
167.5°	1482.5	1484.2	1486.0	1485.7	1483.5	1481.4	1479.1	1476.9
170°	1490.0	1491.9	1493.9	1493.8	1491.6	1489.4	1487.1	1484.9
172.5°	1495.8	1497.6	1499.3	1499.2	1496.9	1494.7	1492.5	1490.2
175°	1502.2	1504.2	1506.1	1506.1	1503.8	1501.6	1499.3	1497.1
177.5°	1504.9	1506.2	1507.6	1507.5	1505.9	1504.3	1502.7	1501.2
180°	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8	1503.8

(END OF REPORT)