

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: P333154

Luminaire Tested: **S125DIP-S375D1205U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333154
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: S125DIP-S375D1205U835-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6277.8 lumens
Efficiency: N/A
Efficacy: 148.8 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

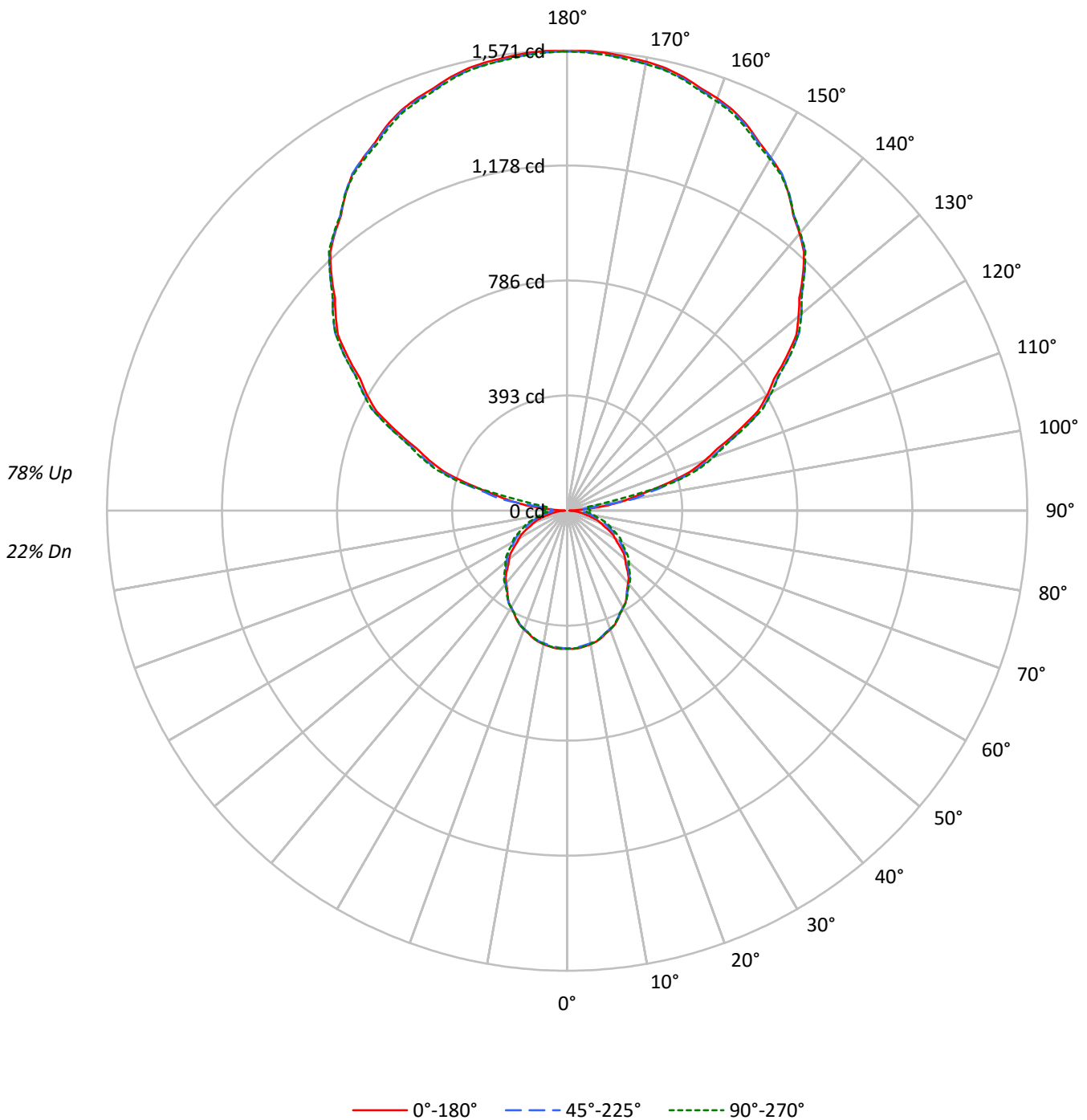
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	91	87	83	80	81	77	74	71	59	57	55	42	40	39	26	25	25	18
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	23	22	21	15
3	75	66	59	54	66	59	53	48	45	41	38	32	29	27	20	19	17	12
4	69	58	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15	10
5	63	52	44	38	56	46	39	34	35	31	27	25	22	20	16	14	13	9
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	14	13	11	8
7	53	42	34	29	47	37	31	26	29	24	20	21	17	15	13	11	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3044	3044	3044
5°	3051	2988	2998
10°	3028	2935	2930
15°	2993	2871	2845
20°	2945	2792	2759
25°	2886	2707	2654
30°	2816	2615	2559
35°	2751	2529	2470
40°	2685	2439	2382
45°	2609	2362	2304
50°	2537	2279	2234
55°	2450	2199	2154
60°	2356	2110	2070
65°	2259	2016	1977
70°	2147	1887	1882
75°	1968	1763	1763
80°	1736	1613	1635
85°	1520	1511	1594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	0.7
10°-20°	126.5	2.0
20°-30°	188.2	3.0
30°-40°	222.9	3.6
40°-50°	230.5	3.7
50°-60°	212.3	3.4
60°-70°	171.6	2.7
70°-80°	114.9	1.8
80°-90°	62.9	1.0
90°-100°	90.4	1.4
100°-110°	375.8	6.0
110°-120°	653.4	10.4
120°-130°	826.7	13.2
130°-140°	883.2	14.1
140°-150°	825.9	13.2
150°-160°	667.5	10.6
160°-170°	431.7	6.9
170°-180°	148.9	2.4
0°-30°	359.3	5.7
0°-40°	582.2	9.3
0°-60°	1025.0	16.3
0°-90°	1374.4	21.9
90°-120°	1119.6	17.8
90°-150°	3655.3	58.2
90°-180°	4903.0	78.1
0°-180°	6277.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	471	470	467	471	470	45
15°	450	450	447	450	448	127
25°	409	410	408	409	407	188
35°	354	357	356	357	357	221
45°	292	297	299	302	303	225
55°	224	232	239	244	246	200
65°	154	165	176	183	185	153
75°	85	97	112	121	123	90
85°	25	41	57	67	71	27
90°	9	33	56	72	80	8
95°	72	79	52	68	72	89
105°	346	358	372	381	383	367
115°	644	654	666	670	666	638
125°	914	922	931	934	933	816
135°	1139	1145	1146	1149	1145	877
145°	1320	1321	1321	1324	1320	825
155°	1453	1446	1448	1451	1442	669
165°	1533	1526	1527	1533	1525	433
175°	1568	1561	1562	1570	1561	149
180°	1568	1568	1568	1568	1568	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	472.5	472.3	472.2	472.0	471.9	471.5	470.9	470.3	469.8	469.2	469.8
5°	471.4	471.2	471.0	470.8	470.6	470.1	469.4	468.7	468.0	467.2	468.1
7.5°	467.2	467.2	467.1	467.0	466.9	466.5	465.8	465.0	464.3	463.5	464.3
10°	463.5	463.5	463.5	463.5	463.5	463.1	462.3	461.5	460.7	459.8	460.6
12.5°	458.4	458.5	458.5	458.6	458.7	458.4	457.8	457.1	456.4	455.8	456.3
15°	450.1	450.2	450.3	450.5	450.6	450.2	449.5	448.8	448.1	447.4	448.0
17.5°	439.4	439.6	439.8	440.0	440.2	440.0	439.3	438.5	437.8	437.1	437.6
20°	431.7	431.9	432.1	432.3	432.5	432.2	431.5	430.8	430.1	429.3	429.7
22.5°	422.8	423.2	423.5	423.9	424.3	424.0	423.2	422.4	421.6	420.8	421.2
25°	409.0	409.3	409.6	409.9	410.2	410.1	409.5	408.9	408.2	407.6	408.0
27.5°	393.7	394.1	394.6	395.0	395.5	395.4	394.7	394.0	393.3	392.6	392.8
30°	382.2	382.8	383.4	384.1	384.7	384.7	384.1	383.4	382.8	382.2	382.4
32.5°	371.9	372.4	372.9	373.5	374.0	374.0	373.6	373.1	372.7	372.2	372.4
35°	354.0	354.7	355.5	356.2	356.9	357.1	356.8	356.5	356.2	355.9	356.2
37.5°	336.2	336.8	337.5	338.1	338.8	339.1	339.0	338.9	338.8	338.7	339.1
40°	324.0	324.8	325.6	326.4	327.3	327.6	327.5	327.4	327.3	327.2	327.6
42.5°	310.7	311.7	312.8	313.9	314.9	315.6	315.8	316.0	316.3	316.5	317.0
45°	291.6	292.8	293.9	295.0	296.1	297.0	297.5	298.0	298.5	299.0	299.7
47.5°	272.1	273.2	274.2	275.3	276.3	277.3	278.2	279.0	279.9	280.8	281.9
50°	258.8	259.9	261.1	262.2	263.3	264.5	265.6	266.7	267.8	269.0	270.1
52.5°	244.8	246.1	247.5	248.9	250.3	251.6	253.0	254.4	255.8	257.1	258.4
55°	224.1	225.8	227.4	229.1	230.7	232.4	234.0	235.6	237.3	238.9	240.1
57.5°	203.1	205.0	207.0	209.0	211.0	212.9	214.8	216.7	218.6	220.4	221.7
60°	189.0	191.1	193.1	195.2	197.2	199.3	201.3	203.4	205.5	207.5	209.0
62.5°	175.3	177.4	179.5	181.5	183.6	185.7	187.9	190.1	192.4	194.6	196.3
65°	154.4	156.7	159.1	161.4	163.8	166.2	168.7	171.2	173.6	176.1	177.6
67.5°	134.6	136.9	139.1	141.4	143.7	146.1	148.6	151.1	153.6	156.1	158.0
70°	120.2	122.5	124.9	127.2	129.6	132.1	134.8	137.5	140.1	142.8	144.8
72.5°	106.1	108.6	111.0	113.4	115.9	118.6	121.5	124.4	127.3	130.2	132.4
75°	85.0	87.7	90.4	93.0	95.7	98.7	102.0	105.3	108.6	111.8	113.9
77.5°	64.8	67.9	71.0	74.0	77.1	80.2	83.4	86.6	89.7	92.9	95.2
80°	52.2	55.3	58.4	61.5	64.5	67.8	71.3	74.8	78.3	81.8	84.1
82.5°	40.8	44.0	47.3	50.5	53.7	57.2	60.7	64.3	67.9	71.4	73.6
85°	25.4	28.8	32.2	35.6	39.0	42.5	46.1	49.7	53.3	56.8	59.1
87.5°	14.7	18.4	22.1	25.8	29.5	33.2	37.1	40.9	44.8	48.6	51.3
90°	8.6	13.9	19.3	24.6	30.0	35.3	40.6	45.9	51.2	56.5	60.1
92.5°	24.6	26.1	27.7	29.3	30.9	34.3	39.5	44.7	49.8	55.0	58.6
95°	72.3	74.1	76.0	77.9	79.8	77.6	71.3	65.0	58.7	52.3	55.9
97.5°	143.8	147.6	151.3	155.1	158.9	152.8	136.8	120.7	104.7	88.6	83.5
100°	199.2	202.1	205.0	208.0	210.9	214.5	218.8	223.2	227.5	231.8	195.5
102.5°	255.5	258.5	261.5	264.4	267.4	270.8	274.6	278.5	282.3	286.1	280.9
105°	345.8	348.5	351.2	353.9	356.5	359.4	362.5	365.6	368.7	371.7	373.8
107.5°	439.7	441.1	442.4	443.8	445.2	447.7	451.2	454.6	458.1	461.6	463.7
110°	500.6	501.9	503.1	504.3	505.6	507.9	511.3	514.7	518.1	521.5	522.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.3	559.9	561.5	563.1	564.7	567.1	570.2	573.3	576.4	579.5	580.4
115°	644.3	646.3	648.3	650.3	652.3	654.8	657.7	660.7	663.6	666.5	667.3
117.5°	733.3	733.7	734.2	734.6	735.0	737.0	740.5	744.0	747.5	751.0	751.4
120°	789.1	789.2	789.2	789.3	789.3	790.9	794.0	797.2	800.3	803.4	804.7
122.5°	838.0	839.1	840.3	841.4	842.5	844.4	847.0	849.7	852.3	855.0	856.1
125°	914.2	915.9	917.6	919.3	921.0	922.9	924.9	927.0	929.0	931.1	931.7
127.5°	986.5	987.6	988.8	990.0	991.2	992.6	994.1	995.6	997.2	998.7	999.6
130°	1031.1	1032.3	1033.5	1034.6	1035.8	1037.3	1039.0	1040.7	1042.4	1044.1	1044.7
132.5°	1075.3	1076.8	1078.3	1079.8	1081.2	1082.3	1082.8	1083.3	1083.9	1084.4	1085.7
135°	1138.7	1140.1	1141.6	1143.0	1144.5	1145.3	1145.5	1145.7	1145.9	1146.1	1146.9
137.5°	1197.0	1198.2	1199.5	1200.7	1202.0	1202.6	1202.5	1202.3	1202.2	1202.1	1203.4
140°	1234.7	1235.2	1235.7	1236.2	1236.8	1236.9	1236.8	1236.6	1236.5	1236.3	1238.0
142.5°	1269.1	1269.3	1269.6	1269.8	1270.0	1270.3	1270.7	1271.1	1271.5	1271.8	1272.9
145°	1319.5	1320.0	1320.4	1320.8	1321.2	1321.4	1321.4	1321.4	1321.4	1321.4	1322.2
147.5°	1363.2	1363.1	1363.0	1362.9	1362.8	1362.9	1363.2	1363.5	1363.9	1364.2	1364.6
150°	1391.1	1390.6	1390.1	1389.6	1389.1	1389.1	1389.6	1390.1	1390.6	1391.1	1391.6
152.5°	1418.1	1417.0	1415.8	1414.7	1413.5	1413.2	1413.8	1414.3	1414.8	1415.3	1415.8
155°	1452.7	1451.2	1449.6	1448.1	1446.5	1446.0	1446.5	1447.0	1447.6	1448.1	1448.9
157.5°	1479.5	1478.5	1477.6	1476.7	1475.7	1475.3	1475.4	1475.4	1475.5	1475.5	1476.3
160°	1498.1	1496.5	1495.0	1493.4	1491.9	1491.2	1491.5	1491.7	1492.0	1492.2	1493.3
162.5°	1512.9	1511.4	1509.8	1508.3	1506.7	1506.1	1506.3	1506.6	1506.9	1507.1	1508.6
165°	1532.9	1531.4	1529.8	1528.3	1526.7	1526.1	1526.3	1526.6	1526.8	1527.1	1528.7
167.5°	1547.8	1546.2	1544.6	1543.0	1541.4	1540.7	1541.0	1541.2	1541.5	1541.8	1543.6
170°	1556.2	1554.4	1552.5	1550.7	1548.9	1548.2	1548.4	1548.7	1548.9	1549.2	1551.3
172.5°	1561.7	1559.9	1558.1	1556.3	1554.5	1553.8	1554.3	1554.8	1555.2	1555.7	1557.6
175°	1567.8	1566.2	1564.7	1563.1	1561.6	1560.9	1561.2	1561.5	1561.7	1562.0	1564.0
177.5°	1570.6	1569.3	1568.1	1566.9	1565.6	1565.1	1565.3	1565.5	1565.7	1565.9	1567.4
180°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	470.3	470.9	471.5	471.7	471.6	471.6	471.5	471.4
5°	468.9	469.7	470.5	470.9	470.8	470.7	470.6	470.5
7.5°	465.0	465.7	466.4	466.7	466.6	466.5	466.4	466.3
10°	461.3	462.0	462.7	463.0	462.9	462.8	462.7	462.6
12.5°	456.9	457.4	458.0	458.1	457.9	457.6	457.3	457.1
15°	448.6	449.2	449.8	449.9	449.5	449.1	448.7	448.3
17.5°	438.1	438.5	439.0	439.1	438.9	438.6	438.4	438.1
20°	430.0	430.3	430.6	430.7	430.7	430.7	430.7	430.7
22.5°	421.6	422.0	422.4	422.5	422.2	422.0	421.7	421.5
25°	408.4	408.9	409.3	409.2	408.7	408.2	407.7	407.2
27.5°	393.1	393.4	393.7	393.8	393.6	393.4	393.2	393.0
30°	382.6	382.8	383.0	383.1	383.0	382.9	382.8	382.7
32.5°	372.6	372.8	373.0	373.1	373.0	372.9	372.8	372.7
35°	356.5	356.8	357.1	357.2	357.2	357.2	357.2	357.2
37.5°	339.5	339.9	340.3	340.5	340.5	340.4	340.4	340.3
40°	328.0	328.4	328.9	329.2	329.4	329.6	329.8	330.0
42.5°	317.5	318.0	318.5	318.7	318.8	318.8	318.8	318.9
45°	300.5	301.2	301.9	302.3	302.4	302.5	302.6	302.7
47.5°	282.9	284.0	285.0	285.6	285.9	286.1	286.3	286.5
50°	271.2	272.4	273.5	274.2	274.5	274.8	275.1	275.4
52.5°	259.6	260.8	262.0	262.7	262.9	263.2	263.4	263.6
55°	241.2	242.3	243.5	244.2	244.6	245.0	245.5	245.9
57.5°	223.0	224.3	225.6	226.4	226.7	227.0	227.4	227.7
60°	210.6	212.1	213.7	214.6	214.9	215.2	215.5	215.8
62.5°	198.0	199.7	201.4	202.4	202.8	203.2	203.6	204.0
65°	179.2	180.7	182.2	183.2	183.6	184.0	184.5	184.9
67.5°	159.9	161.7	163.6	164.8	165.3	165.9	166.4	166.9
70°	146.7	148.7	150.6	151.9	152.5	153.1	153.7	154.4
72.5°	134.5	136.6	138.7	140.0	140.4	140.9	141.3	141.8
75°	116.0	118.0	120.1	121.3	121.9	122.4	122.9	123.4
77.5°	97.4	99.7	101.9	103.3	103.7	104.1	104.5	104.9
80°	86.3	88.6	90.8	92.2	92.6	93.0	93.4	93.8
82.5°	75.8	78.0	80.2	81.6	82.4	83.1	83.8	84.6
85°	61.4	63.6	65.9	67.4	68.2	69.1	69.9	70.7
87.5°	53.9	56.5	59.1	60.9	61.7	62.6	63.5	64.4
90°	63.8	67.5	71.1	73.7	75.2	76.7	78.2	79.7
92.5°	62.2	65.7	69.3	71.6	72.7	73.8	74.9	75.9
95°	59.4	63.0	66.5	68.7	69.4	70.1	70.8	71.5
97.5°	78.4	73.2	68.1	65.9	66.6	67.3	68.0	68.7
100°	159.1	122.8	86.5	68.1	67.7	67.3	66.9	66.5
102.5°	275.7	270.5	265.3	254.2	237.2	220.3	203.4	186.4
105°	375.9	377.9	380.0	381.2	381.7	382.1	382.6	383.1
107.5°	465.7	467.8	469.9	470.9	470.8	470.6	470.5	470.3
110°	523.8	525.0	526.2	527.2	528.2	529.2	530.2	531.2



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CATALOG NUMBER: S125DIP-S375D1205U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	581.3	582.1	583.0	583.7	584.0	584.4	584.7	585.1
115°	668.2	669.0	669.8	669.7	668.8	667.9	666.9	666.0
117.5°	751.8	752.2	752.6	752.8	752.9	752.9	752.9	752.9
120°	805.9	807.1	808.4	808.6	808.0	807.3	806.6	805.9
122.5°	857.3	858.4	859.6	859.7	858.8	857.9	857.0	856.2
125°	932.3	932.9	933.5	933.7	933.4	933.2	932.9	932.6
127.5°	1000.6	1001.5	1002.5	1002.3	1001.0	999.7	998.4	997.0
130°	1045.4	1046.1	1046.7	1046.7	1045.9	1045.1	1044.3	1043.5
132.5°	1087.0	1088.3	1089.6	1089.8	1088.9	1088.0	1087.2	1086.3
135°	1147.8	1148.6	1149.4	1149.3	1148.3	1147.2	1146.2	1145.1
137.5°	1204.7	1206.0	1207.4	1207.6	1206.6	1205.7	1204.8	1203.8
140°	1239.6	1241.3	1242.9	1243.2	1242.0	1240.9	1239.7	1238.6
142.5°	1274.0	1275.1	1276.1	1276.1	1274.9	1273.8	1272.7	1271.5
145°	1322.9	1323.7	1324.5	1324.3	1323.2	1322.0	1320.9	1319.7
147.5°	1365.1	1365.6	1366.1	1365.5	1363.8	1362.1	1360.4	1358.8
150°	1392.2	1392.7	1393.2	1392.5	1390.5	1388.5	1386.6	1384.6
152.5°	1416.3	1416.9	1417.4	1416.7	1414.9	1413.0	1411.2	1409.4
155°	1449.6	1450.4	1451.2	1450.5	1448.5	1446.4	1444.3	1442.3
157.5°	1477.2	1478.0	1478.8	1478.2	1476.1	1474.1	1472.0	1469.9
160°	1494.3	1495.3	1496.4	1495.9	1493.8	1491.7	1489.7	1487.6
162.5°	1510.0	1511.5	1512.9	1512.5	1510.2	1507.9	1505.7	1503.4
165°	1530.2	1531.8	1533.3	1533.0	1531.0	1528.9	1526.8	1524.8
167.5°	1545.5	1547.3	1549.2	1549.0	1546.6	1544.3	1542.0	1539.7
170°	1553.3	1555.4	1557.5	1557.3	1555.0	1552.7	1550.4	1548.0
172.5°	1559.4	1561.3	1563.1	1562.9	1560.6	1558.3	1555.9	1553.6
175°	1566.1	1568.2	1570.2	1570.1	1567.8	1565.5	1563.1	1560.8
177.5°	1568.8	1570.3	1571.7	1571.6	1570.0	1568.3	1566.6	1565.0
180°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8

(END OF REPORT)