

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: P333154-840

Luminaire Tested: **S125DIP-S375D1205U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333154-840
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-S375D1205U840-4F0-1E-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: 6339.7 lumens
Efficiency: N/A
Efficacy: 150.2 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

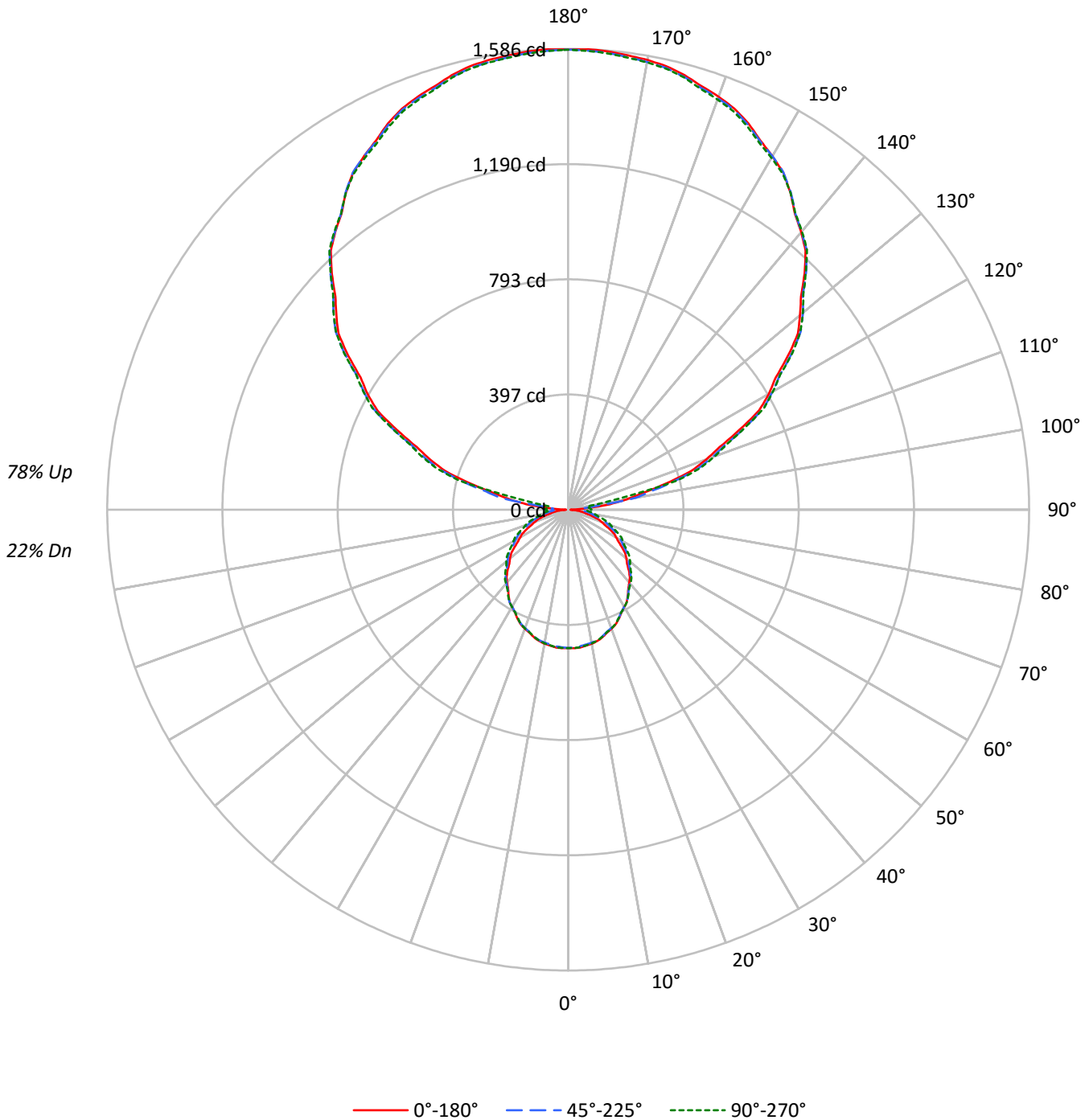
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3075	3075	3075
5°	3081	3017	3027
10°	3059	2963	2960
15°	3022	2899	2873
20°	2974	2819	2786
25°	2915	2734	2680
30°	2844	2641	2584
35°	2778	2554	2494
40°	2711	2463	2406
45°	2635	2385	2327
50°	2563	2302	2256
55°	2474	2222	2175
60°	2380	2130	2090
65°	2281	2035	1997
70°	2168	1905	1900
75°	1987	1780	1780
80°	1753	1629	1650
85°	1538	1527	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	0.7
10°-20°	127.8	2.0
20°-30°	190.0	3.0
30°-40°	225.1	3.6
40°-50°	232.7	3.7
50°-60°	214.4	3.4
60°-70°	173.3	2.7
70°-80°	116.1	1.8
80°-90°	63.5	1.0
90°-100°	91.3	1.4
100°-110°	379.5	6.0
110°-120°	659.8	10.4
120°-130°	834.8	13.2
130°-140°	891.9	14.1
140°-150°	834.1	13.2
150°-160°	674.1	10.6
160°-170°	435.9	6.9
170°-180°	150.4	2.4
0°-30°	362.8	5.7
0°-40°	587.9	9.3
0°-60°	1035.1	16.3
0°-90°	1387.9	21.9
90°-120°	1130.6	17.8
90°-150°	3691.4	58.2
90°-180°	4952.0	78.1
0°-180°	6339.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	475	472	475	475	45
15°	454	455	452	454	453	128
25°	413	414	412	413	411	190
35°	358	360	359	361	361	224
45°	294	299	302	305	306	227
55°	226	234	241	246	248	202
65°	156	167	178	184	187	155
75°	86	98	113	122	125	91
85°	26	41	57	67	71	27
90°	9	33	57	73	80	8
95°	73	80	53	68	72	90
105°	349	361	375	384	387	370
115°	651	660	673	676	673	645
125°	923	931	940	943	942	824
135°	1150	1156	1157	1161	1156	886
145°	1332	1334	1334	1338	1333	833
155°	1467	1461	1462	1465	1456	676
165°	1548	1542	1542	1548	1540	437
175°	1583	1577	1577	1586	1576	151
180°	1583	1583	1583	1583	1583	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	477.2	477.0	476.9	476.7	476.6	476.2	475.5	474.9	474.4	473.8	474.4
5°	476.1	475.8	475.6	475.4	475.2	474.7	474.0	473.3	472.6	471.8	472.7
7.5°	471.8	471.8	471.7	471.6	471.5	471.1	470.4	469.6	468.9	468.1	468.9
10°	468.1	468.1	468.1	468.1	468.1	467.7	466.9	466.1	465.2	464.3	465.1
12.5°	462.9	463.0	463.0	463.1	463.2	462.9	462.3	461.6	460.9	460.3	460.8
15°	454.5	454.6	454.7	454.9	455.0	454.6	453.9	453.2	452.5	451.8	452.4
17.5°	443.7	443.9	444.1	444.3	444.5	444.3	443.6	442.8	442.1	441.4	441.9
20°	436.0	436.2	436.4	436.6	436.8	436.5	435.8	435.0	434.3	433.5	433.9
22.5°	427.0	427.4	427.7	428.1	428.5	428.2	427.4	426.6	425.8	425.0	425.4
25°	413.0	413.3	413.6	413.9	414.2	414.1	413.5	412.9	412.2	411.6	412.0
27.5°	397.6	398.0	398.5	398.9	399.4	399.3	398.6	397.9	397.2	396.5	396.7
30°	386.0	386.6	387.2	387.9	388.5	388.5	387.9	387.2	386.6	386.0	386.2
32.5°	375.6	376.1	376.6	377.2	377.7	377.7	377.3	376.8	376.4	375.9	376.1
35°	357.5	358.2	359.0	359.7	360.4	360.6	360.3	360.0	359.7	359.4	359.7
37.5°	339.5	340.1	340.8	341.4	342.1	342.4	342.3	342.2	342.1	342.0	342.4
40°	327.2	328.0	328.8	329.6	330.5	330.8	330.7	330.6	330.5	330.4	330.8
42.5°	313.8	314.8	315.9	317.0	318.0	318.7	318.9	319.1	319.4	319.6	320.1
45°	294.5	295.7	296.8	297.9	299.0	299.9	300.4	300.9	301.4	301.9	302.7
47.5°	274.8	275.9	276.9	278.0	279.0	280.0	280.9	281.8	282.7	283.6	284.7
50°	261.4	262.5	263.7	264.8	265.9	267.1	268.2	269.3	270.4	271.7	272.8
52.5°	247.2	248.5	249.9	251.4	252.8	254.1	255.5	256.9	258.3	259.6	260.9
55°	226.3	228.0	229.6	231.4	233.0	234.7	236.3	237.9	239.6	241.3	242.5
57.5°	205.1	207.0	209.0	211.1	213.1	215.0	216.9	218.8	220.8	222.6	223.9
60°	190.9	193.0	195.0	197.1	199.1	201.3	203.3	205.4	207.5	209.5	211.1
62.5°	177.0	179.2	181.3	183.3	185.4	187.5	189.8	192.0	194.3	196.5	198.2
65°	155.9	158.2	160.7	163.0	165.4	167.8	170.4	172.9	175.3	177.8	179.4
67.5°	135.9	138.3	140.5	142.8	145.1	147.5	150.1	152.6	155.1	157.6	159.6
70°	121.4	123.7	126.1	128.5	130.9	133.4	136.1	138.9	141.5	144.2	146.2
72.5°	107.1	109.7	112.1	114.5	117.0	119.8	122.7	125.6	128.6	131.5	133.7
75°	85.8	88.6	91.3	93.9	96.6	99.7	103.0	106.3	109.7	112.9	115.0
77.5°	65.4	68.6	71.7	74.7	77.9	81.0	84.2	87.5	90.6	93.8	96.1
80°	52.7	55.8	59.0	62.1	65.1	68.5	72.0	75.5	79.1	82.6	84.9
82.5°	41.2	44.4	47.8	51.0	54.2	57.8	61.3	64.9	68.6	72.1	74.3
85°	25.7	29.1	32.5	36.0	39.4	42.9	46.6	50.2	53.8	57.4	59.7
87.5°	14.8	18.6	22.3	26.1	29.8	33.5	37.5	41.3	45.2	49.1	51.8
90°	8.7	14.0	19.5	24.8	30.3	35.6	41.0	46.4	51.7	57.1	60.7
92.5°	24.8	26.4	28.0	29.6	31.2	34.6	39.9	45.1	50.3	55.5	59.2
95°	73.0	74.8	76.7	78.7	80.6	78.4	72.0	65.6	59.3	52.8	56.5
97.5°	145.2	149.1	152.8	156.6	160.5	154.3	138.1	121.9	105.7	89.5	84.3
100°	201.2	204.1	207.0	210.1	213.0	216.6	221.0	225.4	229.7	234.1	197.4
102.5°	258.0	261.1	264.1	267.0	270.0	273.5	277.3	281.2	285.1	288.9	283.7
105°	349.2	351.9	354.7	357.4	360.0	362.9	366.1	369.2	372.3	375.4	377.5
107.5°	444.0	445.5	446.8	448.2	449.6	452.1	455.7	459.1	462.6	466.2	468.3
110°	505.5	506.9	508.1	509.3	510.6	512.9	516.3	519.8	523.2	526.6	527.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	563.8	565.4	567.0	568.7	570.3	572.7	575.8	579.0	582.1	585.2	586.1
115°	650.7	652.7	654.7	656.7	658.7	661.3	664.2	667.2	670.1	673.1	673.9
117.5°	740.5	740.9	741.4	741.8	742.3	744.3	747.8	751.3	754.9	758.4	758.8
120°	796.9	797.0	797.0	797.1	797.1	798.7	801.8	805.1	808.2	811.3	812.6
122.5°	846.3	847.4	848.6	849.7	850.8	852.7	855.4	858.1	860.7	863.4	864.5
125°	923.2	924.9	926.7	928.4	930.1	932.0	934.0	936.1	938.2	940.3	940.9
127.5°	996.2	997.3	998.6	999.8	1001.0	1002.4	1003.9	1005.4	1007.0	1008.6	1009.5
130°	1041.3	1042.5	1043.7	1044.8	1046.0	1047.5	1049.2	1051.0	1052.7	1054.4	1055.0
132.5°	1085.9	1087.4	1088.9	1090.5	1091.9	1093.0	1093.5	1094.0	1094.6	1095.1	1096.4
135°	1149.9	1151.3	1152.9	1154.3	1155.8	1156.6	1156.8	1157.0	1157.2	1157.4	1158.2
137.5°	1208.8	1210.0	1211.3	1212.5	1213.9	1214.5	1214.4	1214.2	1214.1	1214.0	1215.3
140°	1246.9	1247.4	1247.9	1248.4	1249.0	1249.1	1249.0	1248.8	1248.7	1248.5	1250.2
142.5°	1281.6	1281.8	1282.1	1282.3	1282.5	1282.8	1283.2	1283.6	1284.0	1284.3	1285.5
145°	1332.5	1333.0	1333.4	1333.8	1334.2	1334.4	1334.4	1334.4	1334.4	1334.4	1335.2
147.5°	1376.6	1376.5	1376.4	1376.3	1376.2	1376.3	1376.6	1377.0	1377.4	1377.7	1378.1
150°	1404.8	1404.3	1403.8	1403.3	1402.8	1402.8	1403.3	1403.8	1404.3	1404.8	1405.3
152.5°	1432.1	1431.0	1429.8	1428.7	1427.4	1427.1	1427.7	1428.3	1428.8	1429.3	1429.8
155°	1467.0	1465.5	1463.9	1462.4	1460.8	1460.3	1460.8	1461.3	1461.9	1462.4	1463.2
157.5°	1494.1	1493.1	1492.2	1491.3	1490.3	1489.9	1490.0	1490.0	1490.1	1490.1	1490.9
160°	1512.9	1511.3	1509.7	1508.1	1506.6	1505.9	1506.2	1506.4	1506.7	1506.9	1508.0
162.5°	1527.8	1526.3	1524.7	1523.2	1521.6	1521.0	1521.2	1521.5	1521.8	1522.0	1523.5
165°	1548.0	1546.5	1544.9	1543.4	1541.8	1541.2	1541.4	1541.7	1541.9	1542.2	1543.8
167.5°	1563.1	1561.5	1559.8	1558.2	1556.6	1555.9	1556.2	1556.4	1556.7	1557.0	1558.8
170°	1571.6	1569.7	1567.8	1566.0	1564.2	1563.5	1563.7	1564.0	1564.2	1564.5	1566.6
172.5°	1577.1	1575.3	1573.5	1571.7	1569.8	1569.1	1569.6	1570.1	1570.5	1571.0	1573.0
175°	1583.3	1581.7	1580.1	1578.5	1577.0	1576.3	1576.6	1576.9	1577.1	1577.4	1579.4
177.5°	1586.1	1584.8	1583.6	1582.4	1581.0	1580.5	1580.7	1580.9	1581.1	1581.3	1582.9
180°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	474.9	475.5	476.2	476.4	476.3	476.3	476.2	476.1
5°	473.5	474.3	475.1	475.5	475.4	475.3	475.2	475.1
7.5°	469.6	470.3	471.0	471.3	471.2	471.1	471.0	470.9
10°	465.9	466.6	467.3	467.6	467.5	467.4	467.3	467.2
12.5°	461.4	461.9	462.5	462.6	462.4	462.1	461.8	461.6
15°	453.0	453.6	454.2	454.3	453.9	453.5	453.1	452.7
17.5°	442.4	442.8	443.3	443.4	443.2	442.9	442.7	442.4
20°	434.2	434.5	434.8	434.9	434.9	434.9	434.9	434.9
22.5°	425.8	426.2	426.6	426.7	426.4	426.2	425.9	425.7
25°	412.4	412.9	413.3	413.2	412.7	412.2	411.7	411.2
27.5°	397.0	397.3	397.6	397.7	397.5	397.3	397.1	396.9
30°	386.4	386.6	386.8	386.9	386.8	386.7	386.6	386.5
32.5°	376.3	376.5	376.7	376.8	376.7	376.6	376.5	376.4
35°	360.0	360.3	360.6	360.7	360.7	360.7	360.7	360.7
37.5°	342.8	343.3	343.7	343.9	343.9	343.8	343.8	343.7
40°	331.2	331.6	332.1	332.4	332.6	332.9	333.1	333.3
42.5°	320.6	321.1	321.6	321.8	321.9	321.9	321.9	322.0
45°	303.5	304.2	304.9	305.3	305.4	305.5	305.6	305.7
47.5°	285.7	286.8	287.8	288.4	288.7	288.9	289.1	289.3
50°	273.9	275.1	276.2	276.9	277.2	277.5	277.8	278.1
52.5°	262.2	263.4	264.6	265.3	265.5	265.8	266.0	266.2
55°	243.6	244.7	245.9	246.6	247.0	247.4	247.9	248.3
57.5°	225.2	226.5	227.8	228.6	228.9	229.2	229.6	229.9
60°	212.7	214.2	215.8	216.7	217.0	217.3	217.6	217.9
62.5°	200.0	201.7	203.4	204.4	204.8	205.2	205.6	206.0
65°	181.0	182.5	184.0	185.0	185.4	185.8	186.3	186.7
67.5°	161.5	163.3	165.2	166.4	166.9	167.5	168.0	168.5
70°	148.1	150.2	152.1	153.4	154.0	154.6	155.2	155.9
72.5°	135.8	137.9	140.1	141.4	141.8	142.3	142.7	143.2
75°	117.1	119.2	121.3	122.5	123.1	123.6	124.1	124.6
77.5°	98.4	100.7	102.9	104.3	104.7	105.1	105.5	105.9
80°	87.2	89.5	91.7	93.1	93.5	93.9	94.3	94.7
82.5°	76.5	78.8	81.0	82.4	83.2	83.9	84.6	85.4
85°	62.0	64.2	66.6	68.1	68.9	69.8	70.6	71.4
87.5°	54.4	57.1	59.7	61.5	62.3	63.2	64.1	65.0
90°	64.4	68.2	71.8	74.4	75.9	77.5	79.0	80.5
92.5°	62.8	66.3	70.0	72.3	73.4	74.5	75.6	76.6
95°	60.0	63.6	67.2	69.4	70.1	70.8	71.5	72.2
97.5°	79.2	73.9	68.8	66.6	67.3	68.0	68.7	69.4
100°	160.7	124.0	87.4	68.8	68.4	68.0	67.6	67.2
102.5°	278.4	273.2	267.9	256.7	239.5	222.5	205.4	188.2
105°	379.6	381.6	383.7	385.0	385.5	385.9	386.4	386.9
107.5°	470.3	472.4	474.5	475.5	475.4	475.2	475.1	474.9
110°	529.0	530.2	531.4	532.4	533.4	534.4	535.4	536.4



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CATALOG NUMBER: S125DIP-S375D1205U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	587.0	587.8	588.8	589.5	589.8	590.2	590.5	590.9
115°	674.8	675.6	676.4	676.3	675.4	674.5	673.5	672.6
117.5°	759.2	759.6	760.0	760.2	760.3	760.3	760.3	760.3
120°	813.9	815.1	816.4	816.6	816.0	815.3	814.6	813.9
122.5°	865.8	866.9	868.1	868.2	867.3	866.4	865.5	864.6
125°	941.5	942.1	942.7	942.9	942.6	942.4	942.1	941.8
127.5°	1010.5	1011.4	1012.4	1012.2	1010.9	1009.6	1008.2	1006.8
130°	1055.7	1056.4	1057.0	1057.0	1056.2	1055.4	1054.6	1053.8
132.5°	1097.7	1099.0	1100.3	1100.6	1099.6	1098.7	1097.9	1097.0
135°	1159.1	1159.9	1160.7	1160.6	1159.6	1158.5	1157.5	1156.4
137.5°	1216.6	1217.9	1219.3	1219.5	1218.5	1217.6	1216.7	1215.7
140°	1251.8	1253.5	1255.2	1255.5	1254.3	1253.1	1251.9	1250.8
142.5°	1286.6	1287.7	1288.7	1288.7	1287.5	1286.4	1285.3	1284.0
145°	1336.0	1336.8	1337.6	1337.4	1336.3	1335.0	1333.9	1332.7
147.5°	1378.6	1379.1	1379.6	1379.0	1377.3	1375.5	1373.8	1372.2
150°	1405.9	1406.4	1406.9	1406.2	1404.2	1402.2	1400.3	1398.3
152.5°	1430.3	1430.9	1431.4	1430.7	1428.9	1426.9	1425.1	1423.3
155°	1463.9	1464.7	1465.5	1464.8	1462.8	1460.7	1458.5	1456.5
157.5°	1491.8	1492.6	1493.4	1492.8	1490.7	1488.6	1486.5	1484.4
160°	1509.0	1510.1	1511.2	1510.7	1508.5	1506.4	1504.4	1502.3
162.5°	1524.9	1526.4	1527.8	1527.4	1525.1	1522.8	1520.6	1518.2
165°	1545.3	1546.9	1548.4	1548.1	1546.1	1544.0	1541.9	1539.8
167.5°	1560.7	1562.6	1564.5	1564.3	1561.9	1559.5	1557.2	1554.9
170°	1568.6	1570.7	1572.9	1572.7	1570.3	1568.0	1565.7	1563.3
172.5°	1574.8	1576.7	1578.5	1578.3	1576.0	1573.7	1571.2	1568.9
175°	1581.5	1583.7	1585.7	1585.6	1583.3	1580.9	1578.5	1576.2
177.5°	1584.3	1585.8	1587.2	1587.1	1585.5	1583.8	1582.1	1580.4
180°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3

(END OF REPORT)