

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: P333154-935

Luminaire Tested: **S125DIP-S375D1205U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333154-935  
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: S125DIP-S375D1205U935-4F0-1E-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: 5405.1 lumens  
Efficiency: N/A  
Efficacy: 128.1 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

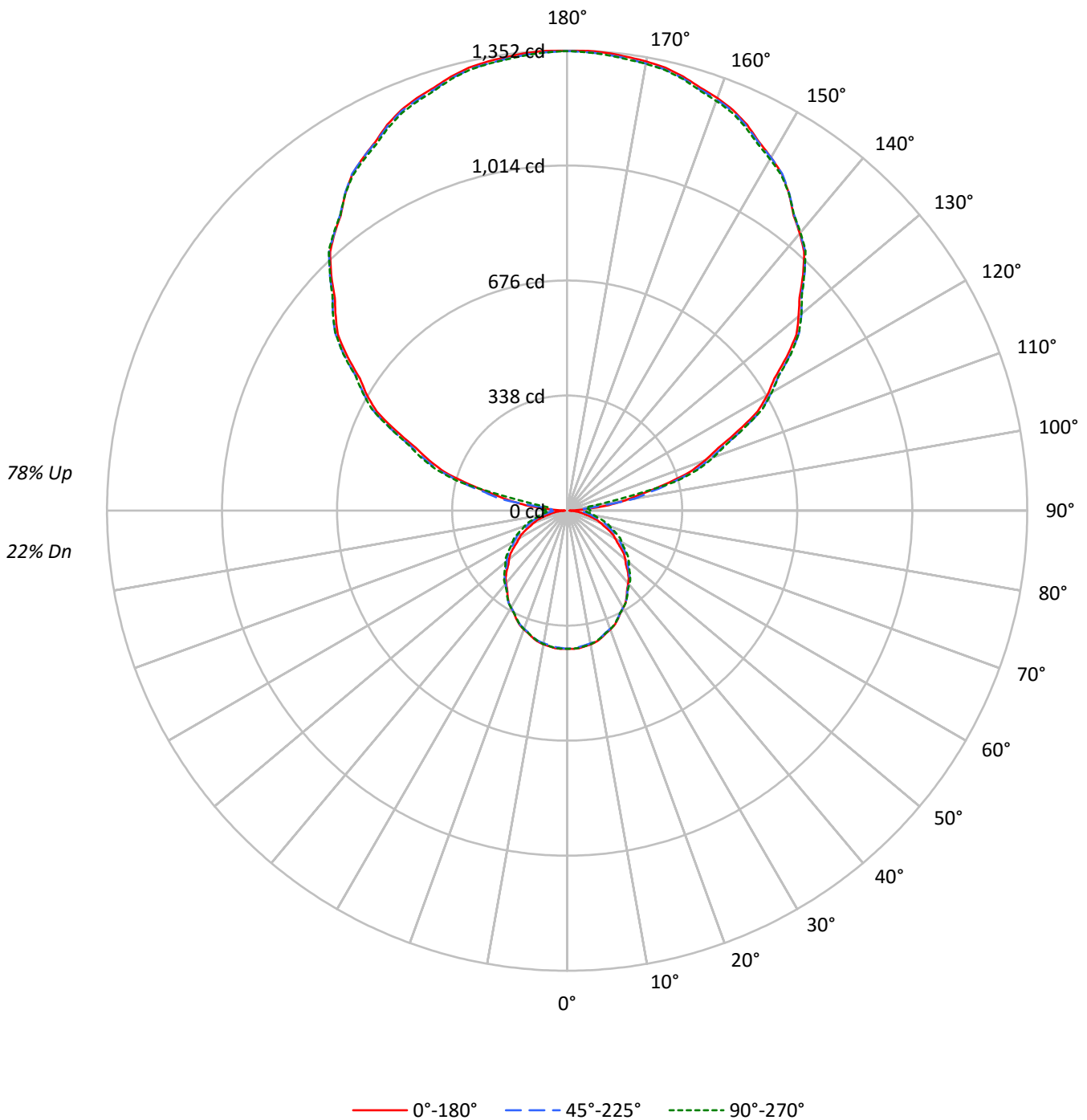
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P333154-935

CATALOG NUMBER: S125DIP-S375D1205U935-4F0-1E-UDD-D

**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°	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	2.0
20°-30°	162.0	3.0
30°-40°	191.9	3.6
40°-50°	198.4	3.7
50°-60°	182.8	3.4
60°-70°	147.8	2.7
70°-80°	99.0	1.8
80°-90°	54.1	1.0
90°-100°	77.8	1.4
100°-110°	323.6	6.0
110°-120°	562.5	10.4
120°-130°	711.8	13.2
130°-140°	760.4	14.1
140°-150°	711.1	13.2
150°-160°	574.7	10.6
160°-170°	371.7	6.9
170°-180°	128.2	2.4
0°-30°	309.4	5.7
0°-40°	501.3	9.3
0°-60°	882.5	16.3
0°-90°	1183.4	21.9
90°-120°	963.9	17.8
90°-150°	3147.2	58.2
90°-180°	4222.0	78.1
0°-180°	5405.1	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°	7	28	49	62	69	7
95°	62	68	45	58	62	77
105°	298	308	320	328	330	316
115°	555	563	574	577	573	550
125°	787	794	802	804	803	703
135°	980	986	987	990	986	755
145°	1136	1138	1138	1140	1136	710
155°	1251	1245	1247	1249	1242	576
165°	1320	1314	1315	1320	1313	373
175°	1350	1344	1345	1352	1344	128
180°	1350	1350	1350	1350	1350	



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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	19.0	22.2	25.4	28.6	31.9	35.2	38.6	41.8	44.2
90°	7.4	12.0	16.6	21.2	25.8	30.4	35.0	39.5	44.1	48.6	51.7
92.5°	21.2	22.5	23.8	25.2	26.6	29.5	34.0	38.5	42.9	47.4	50.5
95°	62.3	63.8	65.4	67.1	68.7	66.8	61.4	56.0	50.5	45.0	48.1
97.5°	123.8	127.1	130.3	133.5	136.8	131.6	117.8	103.9	90.1	76.3	71.9
100°	171.5	174.0	176.5	179.1	181.6	184.7	188.4	192.2	195.9	199.6	168.3
102.5°	220.0	222.6	225.2	227.6	230.2	233.2	236.4	239.8	243.1	246.3	241.9
105°	297.7	300.1	302.4	304.7	306.9	309.4	312.1	314.8	317.5	320.0	321.8
107.5°	378.6	379.8	380.9	382.1	383.3	385.5	388.5	391.4	394.4	397.4	399.2
110°	431.0	432.1	433.2	434.2	435.3	437.3	440.2	443.2	446.1	449.0	450.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	480.7	482.1	483.5	484.8	486.2	488.3	490.9	493.6	496.3	498.9	499.7
115°	554.7	556.5	558.2	559.9	561.6	563.8	566.3	568.9	571.4	573.9	574.5
117.5°	631.4	631.7	632.1	632.5	632.8	634.6	637.6	640.6	643.6	646.6	647.0
120°	679.4	679.5	679.5	679.6	679.6	681.0	683.6	686.4	689.1	691.7	692.8
122.5°	721.5	722.5	723.5	724.4	725.4	727.0	729.3	731.6	733.8	736.2	737.1
125°	787.1	788.6	790.1	791.5	793.0	794.6	796.3	798.1	799.9	801.7	802.2
127.5°	849.4	850.3	851.4	852.4	853.4	854.6	855.9	857.2	858.6	859.9	860.7
130°	887.8	888.8	889.8	890.8	891.8	893.1	894.6	896.0	897.5	899.0	899.5
132.5°	925.8	927.1	928.4	929.7	930.9	931.9	932.3	932.7	933.2	933.7	934.8
135°	980.4	981.6	982.9	984.1	985.4	986.1	986.3	986.4	986.6	986.8	987.5
137.5°	1030.6	1031.7	1032.8	1033.8	1034.9	1035.4	1035.4	1035.2	1035.1	1035.0	1036.1
140°	1063.1	1063.5	1063.9	1064.4	1064.9	1065.0	1064.9	1064.7	1064.6	1064.5	1065.9
142.5°	1092.7	1092.9	1093.1	1093.3	1093.5	1093.7	1094.1	1094.4	1094.8	1095.0	1096.0
145°	1136.1	1136.5	1136.9	1137.2	1137.6	1137.7	1137.7	1137.7	1137.7	1137.7	1138.4
147.5°	1173.7	1173.6	1173.5	1173.5	1173.4	1173.5	1173.7	1174.0	1174.3	1174.6	1174.9
150°	1197.7	1197.3	1196.9	1196.4	1196.0	1196.0	1196.4	1196.9	1197.3	1197.7	1198.2
152.5°	1221.0	1220.0	1219.0	1218.1	1217.0	1216.8	1217.3	1217.7	1218.1	1218.6	1219.0
155°	1250.8	1249.5	1248.1	1246.8	1245.4	1245.0	1245.4	1245.9	1246.4	1246.8	1247.5
157.5°	1273.8	1273.0	1272.2	1271.4	1270.6	1270.2	1270.3	1270.3	1270.4	1270.4	1271.1
160°	1289.9	1288.5	1287.2	1285.8	1284.5	1283.9	1284.2	1284.4	1284.6	1284.8	1285.7
162.5°	1302.6	1301.3	1299.9	1298.6	1297.3	1296.8	1296.9	1297.2	1297.4	1297.6	1298.9
165°	1319.8	1318.5	1317.2	1315.9	1314.5	1314.0	1314.1	1314.4	1314.6	1314.8	1316.2
167.5°	1332.7	1331.3	1329.9	1328.5	1327.1	1326.5	1326.8	1327.0	1327.2	1327.5	1329.0
170°	1339.9	1338.3	1336.7	1335.2	1333.6	1333.0	1333.2	1333.4	1333.6	1333.9	1335.7
172.5°	1344.6	1343.1	1341.5	1340.0	1338.4	1337.8	1338.3	1338.7	1339.0	1339.5	1341.1
175°	1349.9	1348.5	1347.2	1345.8	1344.5	1343.9	1344.2	1344.5	1344.6	1344.9	1346.6
177.5°	1352.3	1351.2	1350.1	1349.1	1348.0	1347.6	1347.7	1347.9	1348.1	1348.2	1349.5
180°	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9



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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°	46.4	48.6	50.9	52.4	53.1	53.9	54.7	55.4
90°	54.9	58.1	61.2	63.5	64.7	66.0	67.3	68.6
92.5°	53.6	56.6	59.7	61.6	62.6	63.5	64.5	65.3
95°	51.1	54.2	57.3	59.2	59.8	60.4	61.0	61.6
97.5°	67.5	63.0	58.6	56.7	57.3	57.9	58.5	59.2
100°	137.0	105.7	74.5	58.6	58.3	57.9	57.6	57.3
102.5°	237.4	232.9	228.4	218.9	204.2	189.7	175.1	160.5
105°	323.6	325.4	327.2	328.2	328.6	329.0	329.4	329.8
107.5°	401.0	402.8	404.6	405.4	405.4	405.2	405.1	404.9
110°	451.0	452.0	453.1	453.9	454.8	455.6	456.5	457.4





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CATALOG NUMBER: S125DIP-S375D1205U935-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	500.5	501.2	502.0	502.6	502.8	503.2	503.4	503.8
115°	575.3	576.0	576.7	576.6	575.8	575.1	574.2	573.4
117.5°	647.3	647.6	648.0	648.2	648.2	648.2	648.2	648.2
120°	693.9	694.9	696.0	696.2	695.7	695.1	694.5	693.9
122.5°	738.1	739.1	740.1	740.2	739.4	738.7	737.9	737.2
125°	802.7	803.2	803.7	803.9	803.7	803.5	803.2	803.0
127.5°	861.5	862.3	863.2	863.0	861.9	860.7	859.6	858.4
130°	900.1	900.7	901.2	901.2	900.5	899.8	899.1	898.5
132.5°	935.9	937.0	938.1	938.3	937.5	936.8	936.1	935.3
135°	988.3	988.9	989.6	989.5	988.7	987.7	986.9	985.9
137.5°	1037.2	1038.4	1039.6	1039.7	1038.9	1038.1	1037.3	1036.5
140°	1067.3	1068.8	1070.1	1070.4	1069.4	1068.4	1067.4	1066.4
142.5°	1096.9	1097.9	1098.7	1098.7	1097.7	1096.7	1095.8	1094.8
145°	1139.0	1139.7	1140.4	1140.2	1139.3	1138.2	1137.3	1136.3
147.5°	1175.4	1175.8	1176.2	1175.7	1174.2	1172.8	1171.3	1169.9
150°	1198.7	1199.1	1199.5	1198.9	1197.2	1195.5	1193.9	1192.1
152.5°	1219.4	1220.0	1220.4	1219.8	1218.2	1216.6	1215.0	1213.5
155°	1248.1	1248.8	1249.5	1248.9	1247.2	1245.4	1243.5	1241.8
157.5°	1271.9	1272.6	1273.2	1272.7	1270.9	1269.2	1267.4	1265.6
160°	1286.6	1287.5	1288.4	1288.0	1286.2	1284.4	1282.6	1280.8
162.5°	1300.1	1301.4	1302.6	1302.3	1300.3	1298.3	1296.4	1294.4
165°	1317.5	1318.9	1320.2	1319.9	1318.2	1316.4	1314.6	1312.9
167.5°	1330.7	1332.2	1333.9	1333.7	1331.6	1329.6	1327.7	1325.7
170°	1337.4	1339.2	1341.0	1340.8	1338.9	1336.9	1334.9	1332.8
172.5°	1342.6	1344.3	1345.8	1345.7	1343.7	1341.7	1339.6	1337.6
175°	1348.4	1350.2	1351.9	1351.9	1349.9	1347.9	1345.8	1343.8
177.5°	1350.7	1352.0	1353.2	1353.1	1351.8	1350.3	1348.8	1347.5
180°	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9

(END OF REPORT)