

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: P333145-930

Luminaire Tested: **S125DIP-S375D1035U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333145-930  
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-S375D1035U930-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4564.9 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

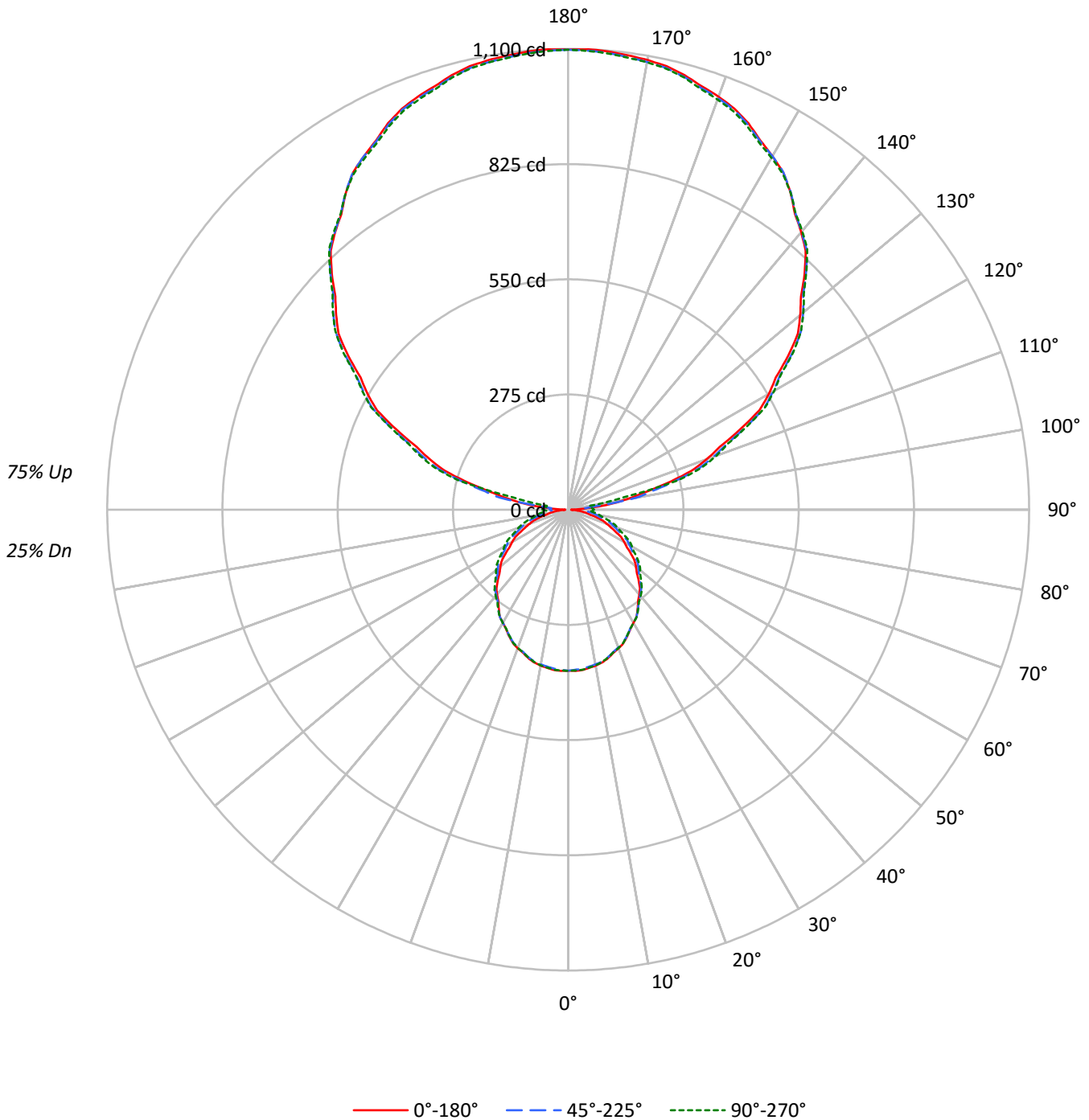
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	28	27	20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	59	53	49	46	42	38	33	31	28	22	20	19	14
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	19	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	0.8
10°-20°	103.2	2.3
20°-30°	153.4	3.4
30°-40°	181.7	4.0
40°-50°	187.9	4.1
50°-60°	173.1	3.8
60°-70°	139.9	3.1
70°-80°	93.7	2.1
80°-90°	50.9	1.1
90°-100°	67.2	1.5
100°-110°	266.1	5.8
110°-120°	459.5	10.1
120°-130°	580.1	12.7
130°-140°	619.1	13.6
140°-150°	578.6	12.7
150°-160°	467.5	10.2
160°-170°	302.4	6.6
170°-180°	104.3	2.3
0°-30°	292.9	6.4
0°-40°	474.7	10.4
0°-60°	835.7	18.3
0°-90°	1120.2	24.5
90°-120°	792.8	17.4
90°-150°	2570.6	56.3
90°-180°	3445.0	75.5
0°-180°	4564.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	7	25	44	56	62	6
95°	51	57	40	52	56	63
105°	243	252	263	271	273	257
115°	452	458	469	472	470	448
125°	640	646	653	656	656	572
135°	798	802	803	806	804	615
145°	924	926	926	928	925	578
155°	1018	1013	1014	1016	1010	469
165°	1074	1069	1070	1074	1068	303
175°	1098	1094	1094	1100	1093	105
180°	1098	1098	1098	1098	1098	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	11.9	14.9	17.9	20.8	23.8	26.8	29.9	33.0	36.1	39.2	41.3
90°	6.8	11.0	15.1	19.2	23.3	27.5	31.6	35.7	39.8	43.9	46.7
92.5°	17.9	19.4	20.9	22.3	23.8	26.6	30.6	34.7	38.6	42.7	45.5
95°	51.3	52.9	54.5	56.2	57.8	56.7	52.6	48.6	44.6	40.5	43.3
97.5°	101.3	104.3	107.2	110.1	113.1	109.1	98.2	87.4	76.6	65.7	62.4
100°	140.1	142.4	144.7	147.0	149.3	152.1	155.6	159.0	162.3	165.8	140.6
102.5°	179.5	181.8	184.2	186.5	188.7	191.4	194.4	197.5	200.6	203.7	200.2
105°	242.7	244.8	246.9	248.9	250.9	253.2	255.8	258.3	260.8	263.3	265.0
107.5°	308.3	309.5	310.6	311.8	312.9	314.9	317.6	320.4	323.2	326.0	327.7
110°	351.1	352.0	353.0	354.1	355.1	356.9	359.6	362.3	365.0	367.8	368.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	391.4	392.6	393.9	395.2	396.4	398.3	400.7	403.2	405.7	408.2	409.0
115°	451.6	453.1	454.6	456.1	457.5	459.5	461.9	464.2	466.6	469.0	469.7
117.5°	513.9	514.3	514.6	514.9	515.4	516.9	519.6	522.4	525.1	527.8	528.3
120°	553.0	553.1	553.1	553.2	553.3	554.6	557.0	559.5	562.0	564.4	565.5
122.5°	587.2	588.0	588.8	589.6	590.4	591.9	594.0	596.1	598.2	600.3	601.4
125°	640.5	641.7	642.9	644.1	645.2	646.7	648.4	650.0	651.8	653.4	654.0
127.5°	691.1	691.9	692.8	693.6	694.4	695.5	696.7	698.0	699.2	700.5	701.3
130°	722.4	723.2	724.0	724.8	725.7	726.8	728.1	729.4	730.8	732.1	732.8
132.5°	753.3	754.4	755.4	756.4	757.5	758.2	758.7	759.3	759.8	760.3	761.3
135°	797.7	798.7	799.7	800.7	801.7	802.3	802.6	802.7	803.0	803.2	804.0
137.5°	838.5	839.4	840.2	841.1	842.0	842.4	842.4	842.4	842.3	842.3	843.3
140°	864.9	865.3	865.6	866.0	866.3	866.5	866.4	866.3	866.2	866.1	867.4
142.5°	889.0	889.2	889.3	889.4	889.6	889.8	890.1	890.3	890.6	890.9	891.8
145°	924.3	924.6	924.9	925.1	925.4	925.6	925.6	925.6	925.6	925.6	926.2
147.5°	954.9	954.8	954.7	954.6	954.6	954.6	954.9	955.1	955.3	955.5	955.9
150°	974.4	974.0	973.7	973.3	973.0	973.0	973.3	973.7	974.0	974.4	974.8
152.5°	993.3	992.5	991.7	990.9	990.1	989.9	990.3	990.6	991.0	991.3	991.7
155°	1017.6	1016.5	1015.4	1014.3	1013.3	1012.8	1013.3	1013.6	1013.9	1014.3	1014.9
157.5°	1036.2	1035.6	1035.0	1034.4	1033.7	1033.4	1033.4	1033.5	1033.5	1033.6	1034.1
160°	1049.3	1048.2	1047.2	1046.0	1045.0	1044.5	1044.7	1044.9	1045.1	1045.2	1045.9
162.5°	1059.7	1058.7	1057.5	1056.5	1055.4	1054.9	1055.1	1055.3	1055.5	1055.6	1056.7
165°	1073.7	1072.6	1071.5	1070.5	1069.4	1068.9	1069.1	1069.3	1069.5	1069.7	1070.7
167.5°	1084.2	1083.0	1081.9	1080.8	1079.7	1079.2	1079.4	1079.5	1079.7	1079.9	1081.2
170°	1090.0	1088.8	1087.4	1086.2	1084.9	1084.4	1084.6	1084.8	1084.9	1085.2	1086.5
172.5°	1093.9	1092.7	1091.4	1090.1	1088.8	1088.4	1088.7	1089.0	1089.3	1089.6	1091.0
175°	1098.1	1097.1	1096.0	1094.9	1093.8	1093.4	1093.6	1093.7	1093.9	1094.1	1095.5
177.5°	1100.1	1099.3	1098.4	1097.5	1096.7	1096.3	1096.4	1096.6	1096.7	1096.8	1097.9
180°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	43.5	45.6	47.7	49.1	49.7	50.5	51.1	51.9
90°	49.6	52.4	55.3	57.2	58.4	59.5	60.6	61.7
92.5°	48.3	51.0	53.8	55.6	56.4	57.2	58.0	58.9
95°	46.1	48.8	51.5	53.2	53.8	54.4	55.0	55.5
97.5°	59.0	55.7	52.3	50.9	51.4	52.0	52.6	53.2
100°	115.4	90.2	65.0	52.3	52.0	51.9	51.6	51.4
102.5°	196.8	193.4	190.0	182.4	170.6	158.8	147.0	135.2
105°	266.7	268.3	270.0	271.1	271.5	271.8	272.2	272.6
107.5°	329.4	331.1	332.7	333.6	333.5	333.5	333.5	333.5
110°	369.8	370.9	371.9	372.8	373.7	374.4	375.1	375.9





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CATALOG NUMBER: S125DIP-S375D1035U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	409.9	410.7	411.6	412.1	412.5	412.8	413.2	413.5
115°	470.5	471.3	472.1	472.1	471.6	471.0	470.4	469.9
117.5°	528.8	529.3	529.8	530.1	530.2	530.3	530.4	530.4
120°	566.6	567.6	568.7	569.0	568.6	568.2	567.8	567.4
122.5°	602.3	603.3	604.3	604.5	604.0	603.5	602.9	602.3
125°	654.6	655.3	655.8	656.1	656.0	655.8	655.7	655.6
127.5°	702.2	703.0	703.8	703.8	703.0	702.1	701.3	700.4
130°	733.4	734.0	734.7	734.7	734.3	733.8	733.3	732.8
132.5°	762.4	763.4	764.5	764.8	764.2	763.7	763.1	762.5
135°	804.7	805.4	806.2	806.2	805.5	804.9	804.1	803.5
137.5°	844.4	845.5	846.5	846.7	846.1	845.5	844.9	844.3
140°	868.6	869.9	871.2	871.5	870.7	870.0	869.3	868.5
142.5°	892.6	893.5	894.3	894.4	893.6	892.8	892.1	891.4
145°	926.8	927.4	928.0	927.9	927.2	926.4	925.6	924.9
147.5°	956.3	956.6	956.9	956.5	955.4	954.2	953.1	951.9
150°	975.2	975.5	975.8	975.3	974.0	972.7	971.3	969.9
152.5°	992.1	992.5	992.8	992.3	991.1	989.8	988.5	987.2
155°	1015.4	1015.9	1016.5	1016.0	1014.6	1013.1	1011.7	1010.2
157.5°	1034.7	1035.3	1035.8	1035.4	1034.0	1032.5	1031.0	1029.6
160°	1046.7	1047.4	1048.1	1047.7	1046.4	1044.9	1043.4	1042.0
162.5°	1057.7	1058.7	1059.7	1059.4	1057.9	1056.2	1054.7	1053.0
165°	1071.8	1072.9	1074.0	1073.8	1072.4	1070.9	1069.5	1068.0
167.5°	1082.6	1083.9	1085.2	1085.0	1083.4	1081.7	1080.1	1078.5
170°	1088.0	1089.5	1091.0	1090.8	1089.2	1087.6	1086.0	1084.3
172.5°	1092.3	1093.6	1094.9	1094.7	1093.1	1091.4	1089.8	1088.3
175°	1097.0	1098.5	1099.8	1099.8	1098.1	1096.5	1094.9	1093.2
177.5°	1098.9	1099.9	1100.9	1100.8	1099.7	1098.5	1097.4	1096.2
180°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1

(END OF REPORT)