

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: P333118-930

Luminaire Tested: **S125DIP-S375D365U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333118-930  
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-S375D365U930-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2385.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 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: General Diffuse

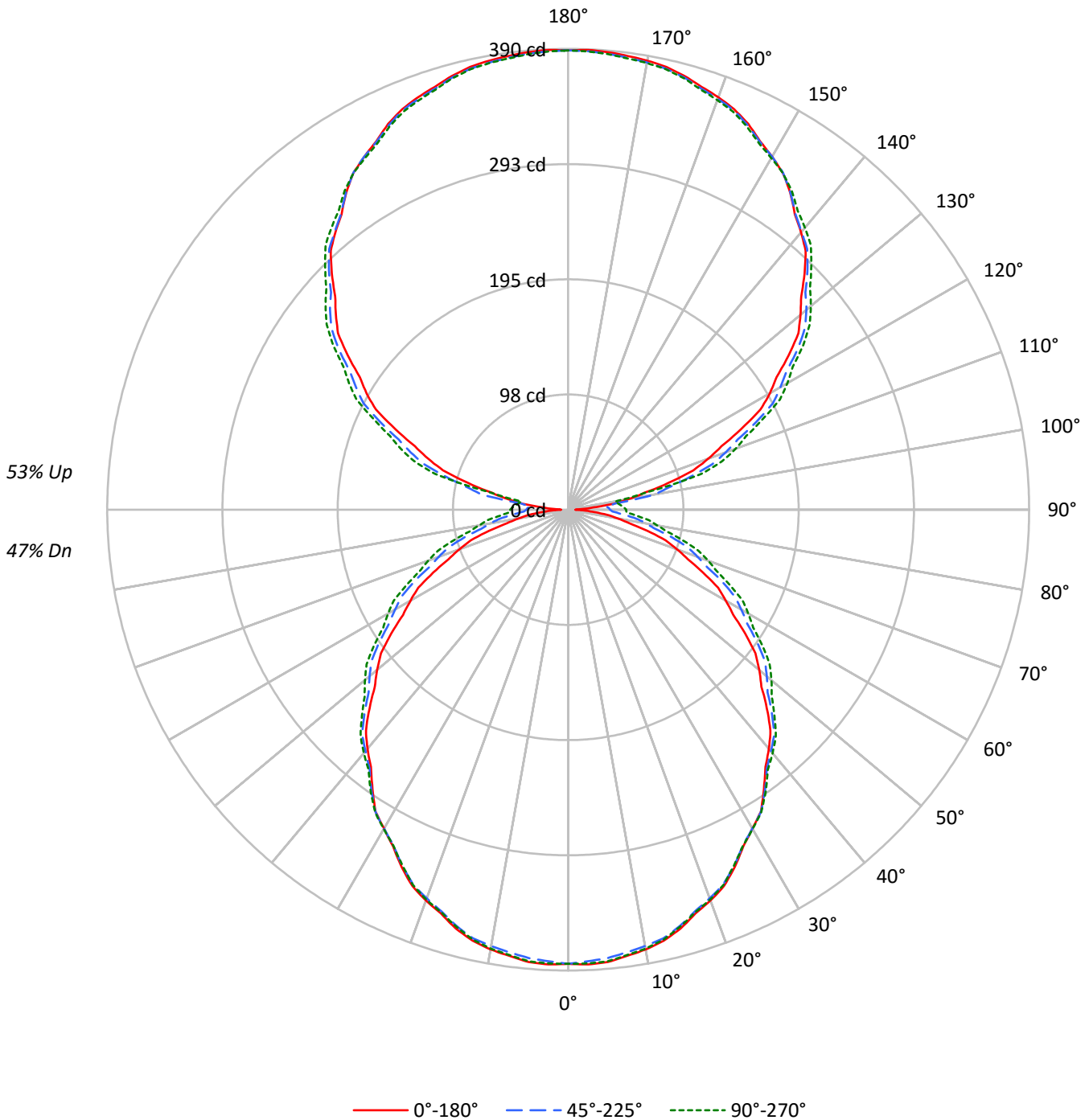
Input Watts (W): 20.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333118-930

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### Luminous Intensity Polar Plot





TEST NUMBER: P333118-930

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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	96	92	88	84	88	84	81	78	70	68	66	58	56	54	46	45	44	38
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	30	26
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23	19
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11

**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	1.5
10°-20°	103.2	4.3
20°-30°	153.4	6.4
30°-40°	181.7	7.6
40°-50°	187.9	7.9
50°-60°	173.1	7.3
60°-70°	139.9	5.9
70°-80°	93.7	3.9
80°-90°	49.4	2.1
90°-100°	41.4	1.7
100°-110°	107.2	4.5
110°-120°	171.4	7.2
120°-130°	210.3	8.8
130°-140°	221.3	9.3
140°-150°	205.3	8.6
150°-160°	165.5	6.9
160°-170°	107.0	4.5
170°-180°	36.9	1.5
0°-30°	292.9	12.3
0°-40°	474.7	19.9
0°-60°	835.7	35.0
0°-90°	1118.7	46.9
90°-120°	320.0	13.4
90°-150°	956.9	40.1
90°-180°	1266.0	53.1
0°-180°	2385.1	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°	6	21	36	45	49	5
95°	21	30	32	42	44	25
105°	88	96	107	114	116	93
115°	161	166	176	181	182	160
125°	228	230	237	242	243	203
135°	283	284	286	290	291	218
145°	328	328	328	330	330	205
155°	360	359	359	360	358	166
165°	380	379	379	380	378	107
175°	389	387	387	389	387	37
180°	389	389	389	389	389	



TEST NUMBER: P333118-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D

**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°	11.8	14.6	17.4	20.1	22.9	25.8	28.7	31.6	34.7	37.6	39.5
90°	6.3	9.5	12.7	15.9	19.1	22.3	25.6	28.9	32.2	35.5	37.7
92.5°	9.9	12.0	14.1	16.2	18.3	21.0	24.4	27.7	31.0	34.3	36.4
95°	21.4	23.3	25.3	27.3	29.3	30.5	30.9	31.3	31.7	32.1	34.2
97.5°	38.7	41.0	43.4	45.7	47.9	48.1	46.0	43.9	41.9	39.8	39.8
100°	52.3	54.2	56.2	58.1	60.1	62.5	65.5	68.4	71.3	74.3	66.4
102.5°	66.0	67.9	69.8	71.7	73.5	75.8	78.6	81.4	84.1	86.9	86.7
105°	88.1	89.7	91.3	92.9	94.5	96.5	99.1	101.6	104.1	106.6	108.3
107.5°	111.0	112.2	113.3	114.5	115.6	117.5	120.0	122.5	125.1	127.6	129.3
110°	126.0	127.0	128.0	129.0	130.0	131.8	134.2	136.7	139.2	141.6	143.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	140.3	141.2	142.2	143.2	144.1	145.8	148.1	150.5	152.9	155.2	156.5
115°	161.3	162.2	163.1	164.0	164.9	166.6	168.8	171.0	173.3	175.5	176.8
117.5°	183.2	183.5	183.9	184.3	184.7	186.0	188.3	190.6	192.9	195.2	196.3
120°	197.0	197.1	197.4	197.5	197.7	198.9	201.0	203.1	205.2	207.3	208.6
122.5°	208.9	209.3	209.6	210.0	210.3	211.5	213.4	215.4	217.4	219.3	220.5
125°	227.7	228.1	228.4	228.9	229.2	230.2	231.9	233.6	235.2	236.9	238.0
127.5°	245.4	245.6	245.9	246.1	246.4	247.1	248.5	249.8	251.1	252.5	253.6
130°	256.5	256.7	257.0	257.1	257.4	258.1	259.4	260.7	261.9	263.1	264.1
132.5°	267.3	267.6	267.9	268.3	268.6	269.2	269.9	270.8	271.5	272.2	273.4
135°	282.9	283.2	283.5	283.8	284.1	284.5	284.9	285.4	285.8	286.3	287.2
137.5°	297.3	297.6	297.8	298.1	298.3	298.6	298.7	298.9	299.1	299.2	300.3
140°	306.5	306.6	306.7	306.8	307.0	307.0	307.0	307.0	307.1	307.1	308.2
142.5°	315.0	315.0	315.0	315.0	315.0	315.0	315.2	315.3	315.4	315.5	316.3
145°	327.5	327.5	327.6	327.6	327.7	327.7	327.7	327.7	327.7	327.7	328.2
147.5°	338.0	338.0	338.0	337.9	337.9	337.9	338.0	338.1	338.2	338.3	338.5
150°	345.0	344.9	344.7	344.5	344.5	344.5	344.5	344.7	344.9	345.0	345.1
152.5°	351.6	351.4	351.1	350.8	350.5	350.4	350.6	350.7	350.8	351.0	351.1
155°	360.3	359.9	359.5	359.1	358.7	358.6	358.7	358.8	359.0	359.1	359.3
157.5°	366.9	366.6	366.4	366.2	366.0	365.8	365.8	365.9	365.9	365.9	366.1
160°	371.5	371.1	370.7	370.3	370.0	369.8	369.8	369.9	370.0	370.1	370.3
162.5°	375.2	374.8	374.4	374.0	373.7	373.5	373.6	373.6	373.7	373.7	374.1
165°	380.1	379.8	379.4	379.0	378.6	378.5	378.5	378.5	378.6	378.7	379.0
167.5°	383.8	383.4	383.0	382.6	382.2	382.0	382.1	382.2	382.3	382.3	382.8
170°	385.9	385.5	385.0	384.6	384.1	383.9	384.0	384.0	384.1	384.2	384.7
172.5°	387.3	386.9	386.4	386.0	385.5	385.3	385.4	385.6	385.6	385.8	386.2
175°	388.7	388.4	388.0	387.6	387.3	387.1	387.1	387.2	387.3	387.3	387.8
177.5°	389.5	389.1	388.8	388.6	388.2	388.1	388.2	388.2	388.2	388.3	388.7
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7



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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°	41.5	43.5	45.5	46.8	47.5	48.1	48.7	49.3
90°	40.0	42.2	44.5	46.0	46.8	47.5	48.3	49.1
92.5°	38.6	40.8	43.0	44.4	45.1	45.8	46.5	47.1
95°	36.4	38.6	40.8	42.2	42.7	43.3	43.9	44.5
97.5°	39.7	39.6	39.6	39.9	40.4	41.0	41.6	42.2
100°	58.7	50.9	43.1	39.4	39.6	39.9	40.1	40.4
102.5°	86.7	86.6	86.4	84.5	80.6	76.7	72.9	69.1
105°	110.0	111.6	113.3	114.4	115.0	115.4	115.9	116.5
107.5°	130.9	132.6	134.3	135.3	135.7	136.0	136.3	136.6
110°	144.5	145.9	147.2	148.2	148.9	149.5	150.2	150.8





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CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	157.8	159.1	160.3	161.2	161.7	162.2	162.7	163.1
115°	178.0	179.3	180.5	181.2	181.3	181.4	181.6	181.6
117.5°	197.4	198.4	199.6	200.3	200.7	201.1	201.5	201.9
120°	209.9	211.2	212.5	213.3	213.4	213.7	213.9	214.0
122.5°	221.8	223.0	224.2	224.9	225.0	225.2	225.3	225.4
125°	239.0	240.2	241.2	241.9	242.1	242.4	242.6	242.8
127.5°	254.7	255.8	256.9	257.4	257.5	257.5	257.5	257.5
130°	265.1	266.0	267.0	267.6	267.7	267.7	267.8	268.0
132.5°	274.5	275.7	276.8	277.4	277.4	277.4	277.4	277.5
135°	288.2	289.2	290.2	290.7	290.7	290.7	290.7	290.8
137.5°	301.3	302.3	303.3	303.8	303.8	303.8	303.8	303.8
140°	309.2	310.2	311.3	311.8	311.8	311.7	311.7	311.6
142.5°	317.2	318.0	318.8	319.1	319.1	319.0	318.9	318.9
145°	328.6	329.1	329.6	329.8	329.8	329.7	329.7	329.6
147.5°	338.7	338.9	339.2	339.1	338.8	338.4	338.1	337.9
150°	345.2	345.4	345.4	345.4	344.9	344.5	344.1	343.6
152.5°	351.2	351.3	351.5	351.3	350.9	350.4	350.0	349.5
155°	359.5	359.6	359.9	359.7	359.2	358.7	358.2	357.7
157.5°	366.3	366.5	366.7	366.6	366.1	365.5	365.0	364.5
160°	370.6	370.8	371.0	371.0	370.4	369.9	369.4	368.9
162.5°	374.5	374.8	375.2	375.0	374.5	373.9	373.4	372.8
165°	379.4	379.8	380.3	380.2	379.7	379.1	378.6	378.1
167.5°	383.3	383.7	384.2	384.1	383.5	382.9	382.4	381.8
170°	385.1	385.7	386.2	386.2	385.6	385.1	384.4	383.8
172.5°	386.7	387.2	387.6	387.6	387.0	386.4	385.8	385.2
175°	388.3	388.9	389.4	389.4	388.7	388.2	387.6	387.0
177.5°	389.1	389.4	389.7	389.7	389.3	388.9	388.5	388.1
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7

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