

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

Luminaire Tested: **S125DIP-S375D365U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333118
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-S375D365U835-4F0-1E-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: 2925.4 lumens
Efficiency: N/A
Efficacy: 144.1 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: General Diffuse

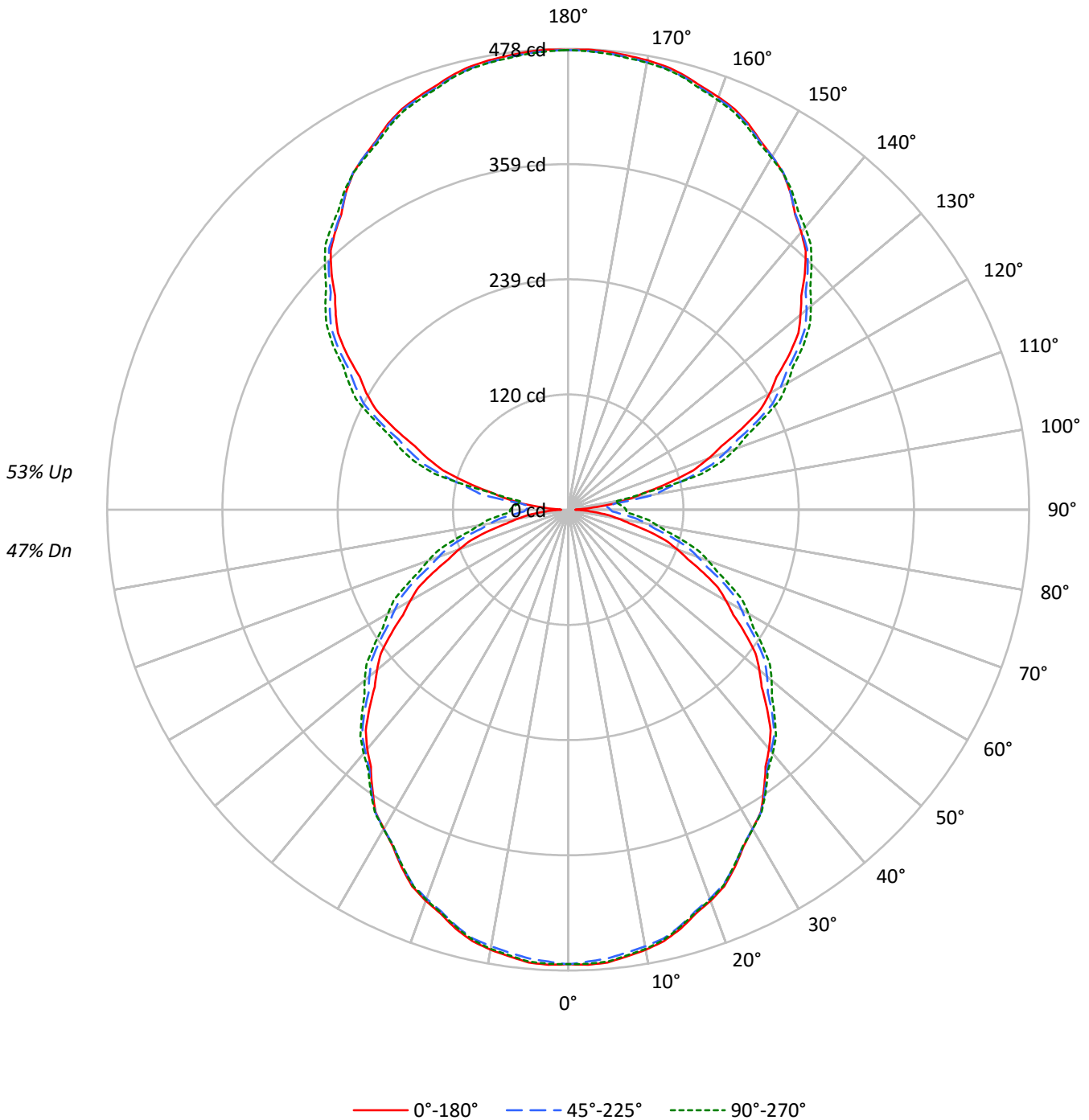
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333118

CATALOG NUMBER: S125DIP-S375D365U835-4F0-1E-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	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°	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	1.5
10°-20°	126.5	4.3
20°-30°	188.2	6.4
30°-40°	222.9	7.6
40°-50°	230.5	7.9
50°-60°	212.3	7.3
60°-70°	171.6	5.9
70°-80°	114.9	3.9
80°-90°	60.6	2.1
90°-100°	50.8	1.7
100°-110°	131.5	4.5
110°-120°	210.2	7.2
120°-130°	258.0	8.8
130°-140°	271.5	9.3
140°-150°	251.8	8.6
150°-160°	203.0	6.9
160°-170°	131.3	4.5
170°-180°	45.3	1.5
0°-30°	359.3	12.3
0°-40°	582.2	19.9
0°-60°	1025.0	35.0
0°-90°	1372.1	46.9
90°-120°	392.5	13.4
90°-150°	1173.7	40.1
90°-180°	1553.0	53.1
0°-180°	2925.4	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°	8	25	44	56	60	6
95°	26	37	39	51	55	30
105°	108	117	131	140	143	115
115°	198	203	215	222	223	196
125°	279	282	291	296	298	249
135°	347	349	351	356	357	267
145°	402	402	402	404	404	251
155°	442	440	440	441	439	203
165°	466	464	464	466	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	



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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°	14.5	17.9	21.3	24.7	28.1	31.6	35.2	38.8	42.5	46.1	48.5
90°	7.7	11.7	15.6	19.5	23.4	27.4	31.4	35.5	39.5	43.6	46.3
92.5°	12.1	14.7	17.3	19.9	22.5	25.8	29.9	34.0	38.0	42.1	44.7
95°	26.2	28.6	31.0	33.5	35.9	37.4	37.9	38.4	38.9	39.4	42.0
97.5°	47.5	50.3	53.2	56.0	58.8	59.0	56.4	53.9	51.4	48.8	48.8
100°	64.1	66.5	68.9	71.3	73.7	76.7	80.3	83.9	87.5	91.1	81.5
102.5°	81.0	83.3	85.6	87.9	90.2	93.0	96.4	99.8	103.2	106.6	106.4
105°	108.1	110.0	112.0	114.0	115.9	118.4	121.5	124.6	127.7	130.8	132.8
107.5°	136.2	137.6	139.0	140.4	141.8	144.1	147.2	150.3	153.4	156.5	158.6
110°	154.5	155.8	157.0	158.2	159.5	161.6	164.6	167.7	170.7	173.7	175.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	172.1	173.2	174.4	175.6	176.8	178.8	181.7	184.6	187.5	190.3	191.9
115°	197.9	199.0	200.1	201.2	202.3	204.3	207.0	209.8	212.5	215.3	216.8
117.5°	224.7	225.1	225.6	226.0	226.5	228.1	230.9	233.8	236.6	239.4	240.8
120°	241.6	241.8	242.1	242.3	242.5	244.0	246.5	249.1	251.7	254.3	255.9
122.5°	256.2	256.7	257.1	257.6	258.0	259.4	261.8	264.2	266.6	269.0	270.5
125°	279.3	279.8	280.2	280.7	281.1	282.4	284.4	286.5	288.5	290.6	291.9
127.5°	301.0	301.3	301.6	301.9	302.2	303.1	304.8	306.4	308.0	309.7	311.0
130°	314.6	314.9	315.2	315.4	315.7	316.6	318.2	319.7	321.2	322.7	323.9
132.5°	327.8	328.2	328.6	329.1	329.5	330.2	331.1	332.1	333.0	333.9	335.3
135°	347.0	347.4	347.7	348.1	348.5	348.9	349.5	350.0	350.6	351.2	352.3
137.5°	364.6	365.0	365.3	365.6	365.9	366.2	366.4	366.6	366.8	367.0	368.3
140°	375.9	376.0	376.2	376.3	376.5	376.6	376.6	376.6	376.7	376.7	378.0
142.5°	386.3	386.3	386.3	386.4	386.4	386.4	386.6	386.7	386.8	387.0	388.0
145°	401.7	401.7	401.8	401.8	401.9	401.9	401.9	401.9	401.9	401.9	402.5
147.5°	414.6	414.6	414.6	414.5	414.5	414.5	414.6	414.7	414.8	414.9	415.2
150°	423.1	423.0	422.8	422.6	422.5	422.5	422.6	422.8	423.0	423.1	423.3
152.5°	431.3	431.0	430.6	430.3	429.9	429.8	430.0	430.2	430.3	430.5	430.6
155°	441.9	441.4	440.9	440.4	440.0	439.8	440.0	440.1	440.3	440.4	440.7
157.5°	450.0	449.7	449.4	449.1	448.9	448.7	448.7	448.8	448.8	448.8	449.0
160°	455.6	455.2	454.7	454.2	453.8	453.6	453.6	453.7	453.8	453.9	454.2
162.5°	460.2	459.7	459.2	458.7	458.3	458.1	458.2	458.2	458.3	458.4	458.8
165°	466.2	465.8	465.3	464.8	464.4	464.2	464.2	464.3	464.4	464.5	464.9
167.5°	470.8	470.3	469.8	469.3	468.8	468.6	468.7	468.8	468.9	468.9	469.5
170°	473.3	472.8	472.2	471.7	471.1	470.9	471.0	471.0	471.1	471.2	471.8
172.5°	475.0	474.5	473.9	473.4	472.8	472.6	472.7	472.9	473.0	473.2	473.7
175°	476.8	476.4	475.9	475.4	475.0	474.8	474.8	474.9	475.0	475.1	475.7
177.5°	477.7	477.3	476.9	476.6	476.2	476.0	476.1	476.2	476.2	476.3	476.7
180°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8



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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°	50.9	53.4	55.8	57.4	58.2	59.0	59.7	60.5
90°	49.1	51.8	54.6	56.4	57.4	58.3	59.3	60.2
92.5°	47.4	50.1	52.8	54.5	55.3	56.2	57.0	57.8
95°	44.7	47.3	50.0	51.7	52.4	53.1	53.8	54.6
97.5°	48.7	48.6	48.6	48.9	49.6	50.3	51.0	51.7
100°	72.0	62.4	52.9	48.3	48.6	48.9	49.2	49.5
102.5°	106.3	106.2	106.0	103.6	98.9	94.1	89.4	84.7
105°	134.9	136.9	139.0	140.3	141.0	141.6	142.2	142.9
107.5°	160.6	162.7	164.7	166.0	166.4	166.8	167.2	167.6
110°	177.2	178.9	180.6	181.8	182.6	183.4	184.2	185.0



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CATALOG NUMBER: S125DIP-S375D365U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	193.5	195.1	196.6	197.7	198.3	198.9	199.5	200.1
115°	218.3	219.9	221.4	222.2	222.4	222.5	222.7	222.8
117.5°	242.1	243.4	244.8	245.7	246.2	246.7	247.2	247.7
120°	257.5	259.1	260.7	261.6	261.8	262.1	262.3	262.5
122.5°	272.0	273.5	275.0	275.8	276.0	276.2	276.3	276.5
125°	293.2	294.6	295.9	296.7	297.0	297.3	297.5	297.8
127.5°	312.4	313.7	315.1	315.7	315.8	315.8	315.8	315.8
130°	325.1	326.3	327.5	328.2	328.3	328.4	328.5	328.7
132.5°	336.7	338.1	339.5	340.2	340.3	340.3	340.3	340.4
135°	353.5	354.7	355.9	356.5	356.5	356.6	356.6	356.7
137.5°	369.5	370.8	372.0	372.6	372.6	372.6	372.6	372.6
140°	379.3	380.5	381.8	382.4	382.4	382.3	382.3	382.2
142.5°	389.0	390.0	391.0	391.4	391.4	391.3	391.2	391.2
145°	403.1	403.7	404.3	404.5	404.5	404.4	404.4	404.3
147.5°	415.4	415.7	416.0	415.9	415.5	415.1	414.7	414.4
150°	423.4	423.6	423.7	423.6	423.0	422.5	422.0	421.5
152.5°	430.8	430.9	431.1	430.9	430.4	429.8	429.3	428.7
155°	440.9	441.1	441.4	441.2	440.6	439.9	439.3	438.7
157.5°	449.3	449.5	449.8	449.6	449.0	448.3	447.7	447.1
160°	454.5	454.8	455.1	455.0	454.3	453.7	453.1	452.5
162.5°	459.3	459.7	460.2	460.0	459.3	458.6	458.0	457.3
165°	465.4	465.9	466.4	466.3	465.7	465.0	464.4	463.8
167.5°	470.1	470.6	471.2	471.1	470.4	469.7	469.0	468.3
170°	472.4	473.1	473.7	473.7	473.0	472.3	471.5	470.8
172.5°	474.3	474.9	475.4	475.4	474.7	473.9	473.2	472.5
175°	476.3	477.0	477.6	477.6	476.8	476.1	475.4	474.7
177.5°	477.2	477.6	478.0	478.0	477.5	477.0	476.5	476.0
180°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8

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