

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: P333121-930

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333121-930
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-F
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

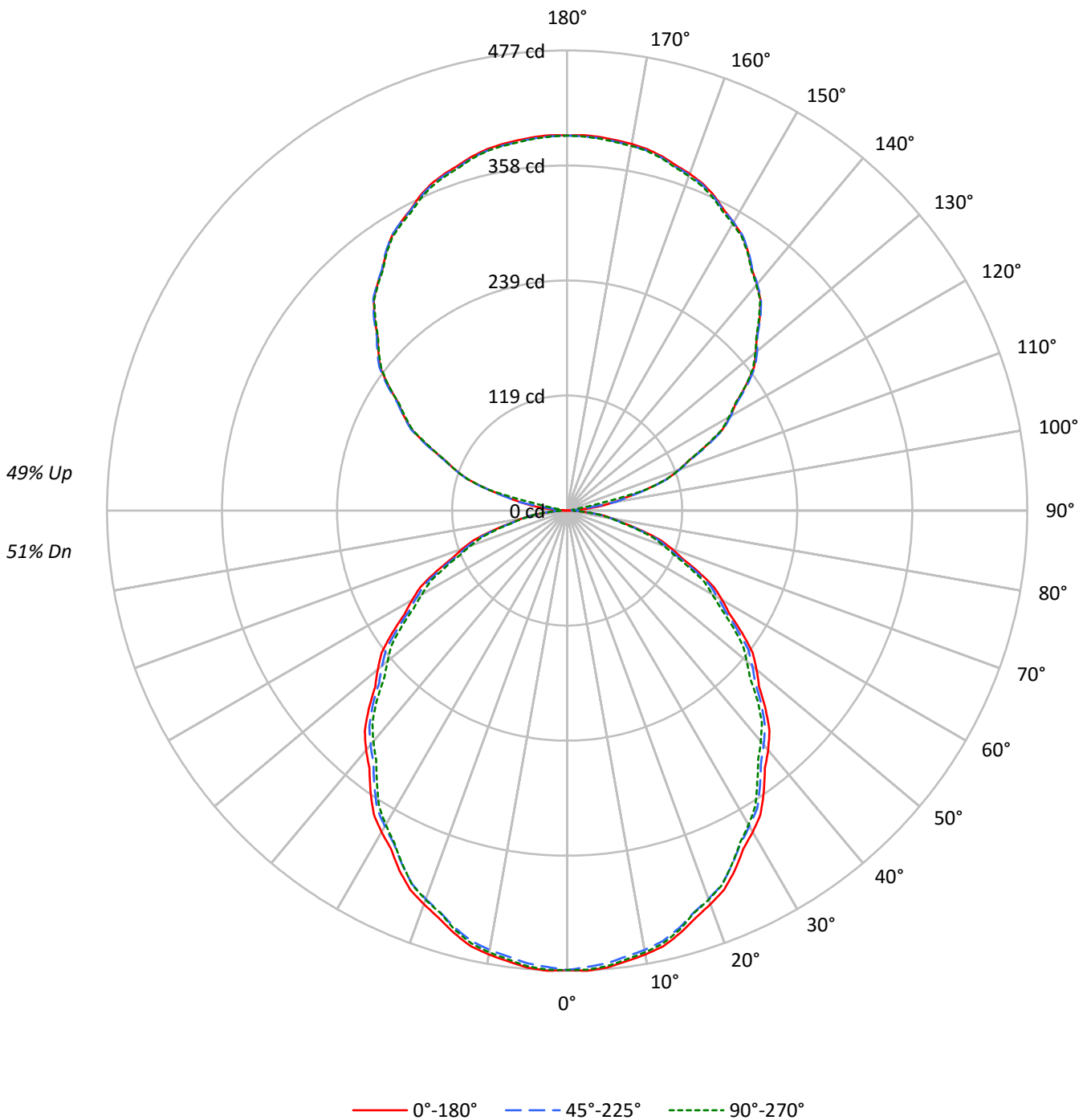
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51						51														
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43						43														
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36						36														
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30						30														
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	30	26						26														
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	23						23														
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20						20														
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20	18						18														
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16						16														
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14						14														
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13						13														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3083	3053	3073
10°	3064	3032	3049
15°	3031	2995	3008
20°	2983	2944	2950
25°	2932	2884	2881
30°	2869	2818	2804
35°	2801	2748	2709
40°	2732	2672	2633
45°	2657	2602	2550
50°	2574	2517	2442
55°	2494	2423	2354
60°	2399	2326	2244
65°	2286	2211	2136
70°	2177	2079	2005
75°	1984	1919	1852
80°	1767	1737	1696
85°	1534	1564	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.8
10°-20°	126.9	5.2
20°-30°	187.3	7.7
30°-40°	218.5	9.0
40°-50°	219.5	9.0
50°-60°	192.7	7.9
60°-70°	143.6	5.9
70°-80°	82.1	3.4
80°-90°	24.7	1.0
90°-100°	14.1	0.6
100°-110°	87.1	3.6
110°-120°	157.9	6.5
120°-130°	202.7	8.3
130°-140°	218.0	9.0
140°-150°	204.6	8.4
150°-160°	165.5	6.8
160°-170°	107.0	4.4
170°-180°	36.9	1.5
0°-30°	359.1	14.8
0°-40°	577.6	23.7
0°-60°	989.8	40.7
0°-90°	1240.1	51.0
90°-120°	259.1	10.6
90°-150°	884.4	36.3
90°-180°	1194.0	49.1
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	475	471	474	474	45
15°	453	452	448	450	450	128
25°	412	409	405	405	404	189
35°	355	354	348	347	344	222
45°	291	289	285	281	279	224
55°	222	220	215	212	209	198
65°	150	149	145	141	140	148
75°	80	79	77	76	74	85
85°	21	21	21	21	20	23
90°	0	3	5	6	7	2
95°	16	15	5	6	6	21
105°	85	86	86	86	86	90
115°	159	160	161	160	158	158
125°	226	228	228	227	226	202
135°	282	284	283	283	281	217
145°	327	328	328	328	326	204
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	477.4	477.3	477.1	476.9	476.7	476.2	475.6	474.9	474.3	473.5	474.3
5°	475.5	475.3	475.2	475.0	474.8	474.3	473.5	472.7	471.8	471.0	471.7
7.5°	471.2	471.0	470.8	470.7	470.5	469.9	469.0	468.1	467.2	466.3	467.0
10°	467.2	467.1	466.9	466.8	466.6	466.0	465.1	464.1	463.3	462.4	463.0
12.5°	462.4	462.1	461.8	461.5	461.2	460.6	459.7	458.9	458.0	457.2	457.7
15°	453.3	453.1	452.8	452.6	452.2	451.7	450.8	449.9	448.9	448.0	448.4
17.5°	442.8	442.5	442.1	441.7	441.3	440.7	439.7	438.8	437.8	436.8	437.4
20°	434.1	433.9	433.7	433.6	433.4	432.8	431.7	430.6	429.5	428.4	429.0
22.5°	425.3	425.0	424.7	424.4	424.1	423.5	422.4	421.4	420.4	419.4	419.8
25°	411.5	411.1	410.6	410.2	409.8	409.0	408.0	406.8	405.8	404.7	404.9
27.5°	395.3	395.0	394.8	394.5	394.3	393.5	392.5	391.3	390.2	389.1	389.1
30°	384.7	384.5	384.2	383.9	383.7	382.9	381.7	380.4	379.2	377.9	377.7
32.5°	373.2	372.8	372.5	372.1	371.7	371.0	369.8	368.7	367.6	366.5	366.2
35°	355.3	355.0	354.7	354.3	354.0	353.2	352.0	350.9	349.7	348.5	348.1
37.5°	336.7	336.3	335.9	335.4	335.0	334.3	333.1	332.1	330.9	329.9	329.2
40°	324.1	323.6	323.2	322.8	322.4	321.6	320.4	319.3	318.0	316.9	316.2
42.5°	310.5	310.1	309.8	309.4	309.1	308.3	307.1	306.0	304.8	303.6	303.0
45°	290.9	290.6	290.2	289.9	289.5	288.9	287.9	286.9	285.8	284.9	283.9
47.5°	269.8	269.8	269.8	269.9	269.9	269.3	268.1	266.8	265.6	264.4	263.4
50°	256.2	256.0	255.8	255.4	255.2	254.6	253.6	252.6	251.6	250.5	249.5
52.5°	242.4	242.1	242.0	241.8	241.7	241.0	239.9	238.9	237.7	236.7	235.8
55°	221.5	221.3	221.0	220.8	220.5	219.8	218.7	217.5	216.3	215.2	214.4
57.5°	199.7	199.5	199.3	199.3	199.1	198.5	197.5	196.6	195.6	194.6	193.6
60°	185.7	185.4	185.1	184.7	184.4	183.8	182.9	182.0	181.0	180.1	179.3
62.5°	171.3	171.0	170.7	170.5	170.2	169.7	168.9	168.1	167.3	166.6	165.7
65°	149.6	149.4	149.3	149.1	149.0	148.4	147.5	146.5	145.6	144.7	143.9
67.5°	128.6	128.2	127.8	127.5	127.2	126.6	126.0	125.2	124.6	123.9	123.3
70°	115.3	114.9	114.5	114.1	113.7	113.0	112.3	111.5	110.8	110.1	109.5
72.5°	100.9	100.5	100.3	100.0	99.7	99.3	98.8	98.3	97.8	97.3	96.8
75°	79.5	79.3	79.2	79.0	78.8	78.5	78.1	77.7	77.3	76.9	76.6
77.5°	59.8	59.8	59.7	59.6	59.6	59.4	59.2	58.9	58.7	58.5	58.3
80°	47.5	47.5	47.5	47.5	47.5	47.4	47.2	47.0	46.9	46.7	46.6
82.5°	36.6	36.5	36.4	36.2	36.1	36.0	36.0	36.0	35.9	35.9	35.7
85°	20.7	20.8	20.9	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.0
87.5°	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.7	8.7	8.8
90°	0.3	0.8	1.3	1.8	2.4	2.9	3.3	3.8	4.2	4.6	4.9
92.5°	4.4	4.1	3.8	3.3	3.0	3.0	3.4	3.8	4.2	4.6	4.9
95°	16.4	16.2	16.1	15.8	15.7	14.3	11.9	9.5	7.0	4.6	4.9
97.5°	34.3	34.7	35.0	35.3	35.7	33.4	28.6	23.8	19.0	14.2	12.4
100°	48.1	48.3	48.5	48.7	48.9	49.1	49.4	49.7	49.9	50.1	40.6
102.5°	62.2	62.5	62.7	62.9	63.2	63.3	63.5	63.7	63.8	64.0	62.2
105°	84.7	85.0	85.3	85.5	85.8	85.9	85.9	85.9	85.9	85.9	85.9
107.5°	108.1	108.1	108.1	108.1	108.1	108.2	108.4	108.4	108.6	108.7	108.7
110°	123.4	123.4	123.4	123.4	123.4	123.4	123.5	123.7	123.8	123.9	123.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.6	137.8	137.9	138.1	138.3	138.4	138.4	138.5	138.6	138.7	138.4
115°	159.1	159.4	159.7	160.0	160.4	160.5	160.6	160.7	160.8	160.8	160.5
117.5°	181.2	181.2	181.2	181.2	181.2	181.3	181.6	181.8	182.1	182.3	182.0
120°	195.1	195.0	195.0	194.9	194.9	194.9	195.1	195.3	195.5	195.7	195.6
122.5°	207.3	207.6	207.8	208.1	208.3	208.5	208.6	208.6	208.7	208.8	208.7
125°	226.2	226.7	227.1	227.6	228.0	228.3	228.3	228.3	228.3	228.3	228.0
127.5°	244.3	244.6	244.9	245.2	245.6	245.7	245.6	245.6	245.6	245.6	245.4
130°	255.4	255.7	256.0	256.3	256.7	256.8	256.9	256.9	257.0	257.1	256.9
132.5°	266.4	266.8	267.2	267.5	267.9	268.0	267.9	267.7	267.6	267.4	267.4
135°	282.2	282.5	282.9	283.3	283.6	283.8	283.6	283.6	283.4	283.3	283.2
137.5°	296.6	296.9	297.3	297.6	297.9	298.1	297.9	297.8	297.7	297.6	297.6
140°	306.1	306.2	306.3	306.5	306.6	306.6	306.6	306.5	306.4	306.4	306.5
142.5°	314.6	314.7	314.8	314.8	314.9	315.0	315.1	315.2	315.3	315.4	315.4
145°	327.1	327.3	327.3	327.5	327.6	327.7	327.7	327.7	327.7	327.7	327.8
147.5°	338.0	338.0	338.0	337.9	337.9	337.9	338.0	338.1	338.2	338.3	338.3
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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	474.9	475.6	476.2	476.5	476.5	476.4	476.4	476.3
5°	472.5	473.3	474.0	474.3	474.3	474.2	474.1	474.0
7.5°	467.7	468.5	469.2	469.5	469.4	469.4	469.3	469.2
10°	463.7	464.3	465.0	465.3	465.2	465.1	465.0	465.0
12.5°	458.3	458.9	459.3	459.6	459.6	459.6	459.6	459.5
15°	448.8	449.2	449.7	449.9	449.9	449.9	449.9	449.9
17.5°	437.9	438.4	439.0	439.0	438.5	438.1	437.7	437.3
20°	429.6	430.2	430.7	430.9	430.4	430.0	429.6	429.2
22.5°	420.1	420.5	420.9	420.9	420.7	420.4	420.1	419.8
25°	405.0	405.2	405.4	405.3	405.0	404.8	404.6	404.3
27.5°	389.1	389.1	389.2	389.1	388.8	388.6	388.3	388.1
30°	377.6	377.4	377.2	377.1	376.8	376.6	376.3	376.0
32.5°	365.9	365.6	365.3	364.9	364.4	363.9	363.5	363.1
35°	347.7	347.3	346.8	346.3	345.7	345.0	344.3	343.6
37.5°	328.6	328.0	327.3	326.9	326.4	326.1	325.7	325.3
40°	315.4	314.6	313.9	313.4	313.2	312.8	312.6	312.3
42.5°	302.2	301.6	300.8	300.4	299.9	299.5	299.2	298.8
45°	282.8	281.8	280.9	280.2	280.0	279.7	279.5	279.2
47.5°	262.4	261.4	260.3	259.5	258.9	258.4	257.8	257.2
50°	248.4	247.3	246.2	245.4	244.8	244.2	243.6	243.0
52.5°	234.8	233.8	232.8	232.1	231.5	230.8	230.2	229.5
55°	213.6	212.9	212.1	211.5	210.9	210.3	209.7	209.1
57.5°	192.7	191.7	190.7	190.0	189.7	189.4	189.1	188.7
60°	178.5	177.6	176.8	176.0	175.5	174.9	174.3	173.7
62.5°	164.8	163.8	162.9	162.2	161.8	161.3	160.9	160.5
65°	143.2	142.4	141.7	141.1	140.8	140.5	140.1	139.8
67.5°	122.6	122.0	121.3	120.9	120.7	120.5	120.3	120.1
70°	109.0	108.5	108.0	107.6	107.3	107.0	106.6	106.2
72.5°	96.2	95.6	95.1	94.7	94.3	94.0	93.6	93.3
75°	76.4	76.1	75.8	75.6	75.3	74.9	74.6	74.2
77.5°	58.2	58.0	57.9	57.7	57.5	57.2	57.0	56.7
80°	46.6	46.5	46.4	46.2	46.1	45.9	45.7	45.6
82.5°	35.5	35.4	35.3	35.1	35.1	35.1	35.1	35.1
85°	21.0	20.9	20.8	20.6	20.5	20.3	20.1	20.0
87.5°	8.9	9.0	9.0	9.0	8.9	8.8	8.7	8.6
90°	5.2	5.5	5.9	6.1	6.4	6.5	6.7	6.9
92.5°	5.2	5.5	5.9	6.1	6.2	6.3	6.4	6.4
95°	5.2	5.5	5.9	6.0	6.0	6.0	6.0	6.0
97.5°	10.6	8.7	6.9	6.0	6.0	6.0	6.0	6.0
100°	31.1	21.5	12.0	7.1	6.8	6.6	6.3	6.0
102.5°	60.3	58.5	56.7	53.6	49.3	45.0	40.6	36.3
105°	85.9	85.9	85.9	85.9	85.8	85.7	85.7	85.6
107.5°	108.8	108.8	108.8	108.7	108.5	108.3	108.1	107.9
110°	123.5	123.4	123.2	123.1	123.2	123.2	123.3	123.4



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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	138.2	137.9	137.7	137.5	137.5	137.4	137.3	137.2
115°	160.3	160.0	159.8	159.5	159.1	158.7	158.3	157.9
117.5°	181.6	181.3	181.0	180.8	180.6	180.4	180.3	180.1
120°	195.4	195.3	195.2	194.9	194.6	194.3	194.0	193.6
122.5°	208.6	208.5	208.3	208.1	207.7	207.3	206.9	206.6
125°	227.7	227.5	227.2	227.0	226.8	226.7	226.4	226.2
127.5°	245.2	245.1	245.0	244.7	244.2	243.7	243.3	242.8
130°	256.7	256.5	256.3	256.0	255.8	255.4	255.1	254.8
132.5°	267.3	267.3	267.3	267.1	266.8	266.4	266.1	265.9
135°	283.1	282.9	282.7	282.5	282.2	281.8	281.4	281.0
137.5°	297.7	297.7	297.7	297.5	297.2	296.9	296.5	296.2
140°	306.6	306.7	306.9	306.7	306.4	306.0	305.6	305.2
142.5°	315.4	315.4	315.4	315.3	314.9	314.5	314.1	313.7
145°	327.8	327.8	327.9	327.8	327.4	327.0	326.6	326.2
147.5°	338.4	338.5	338.6	338.4	337.9	337.5	337.0	336.6
150°	345.2	345.4	345.4	345.3	344.8	344.3	343.7	343.2
152.5°	351.2	351.3	351.5	351.3	350.8	350.4	349.9	349.4
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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