

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: P333118-935

Luminaire Tested: **S125DIP-S375D365U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333118-935
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-S375D365U935-4F0-1E-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: 2518.8 lumens
Efficiency: N/A
Efficacy: 124.1 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

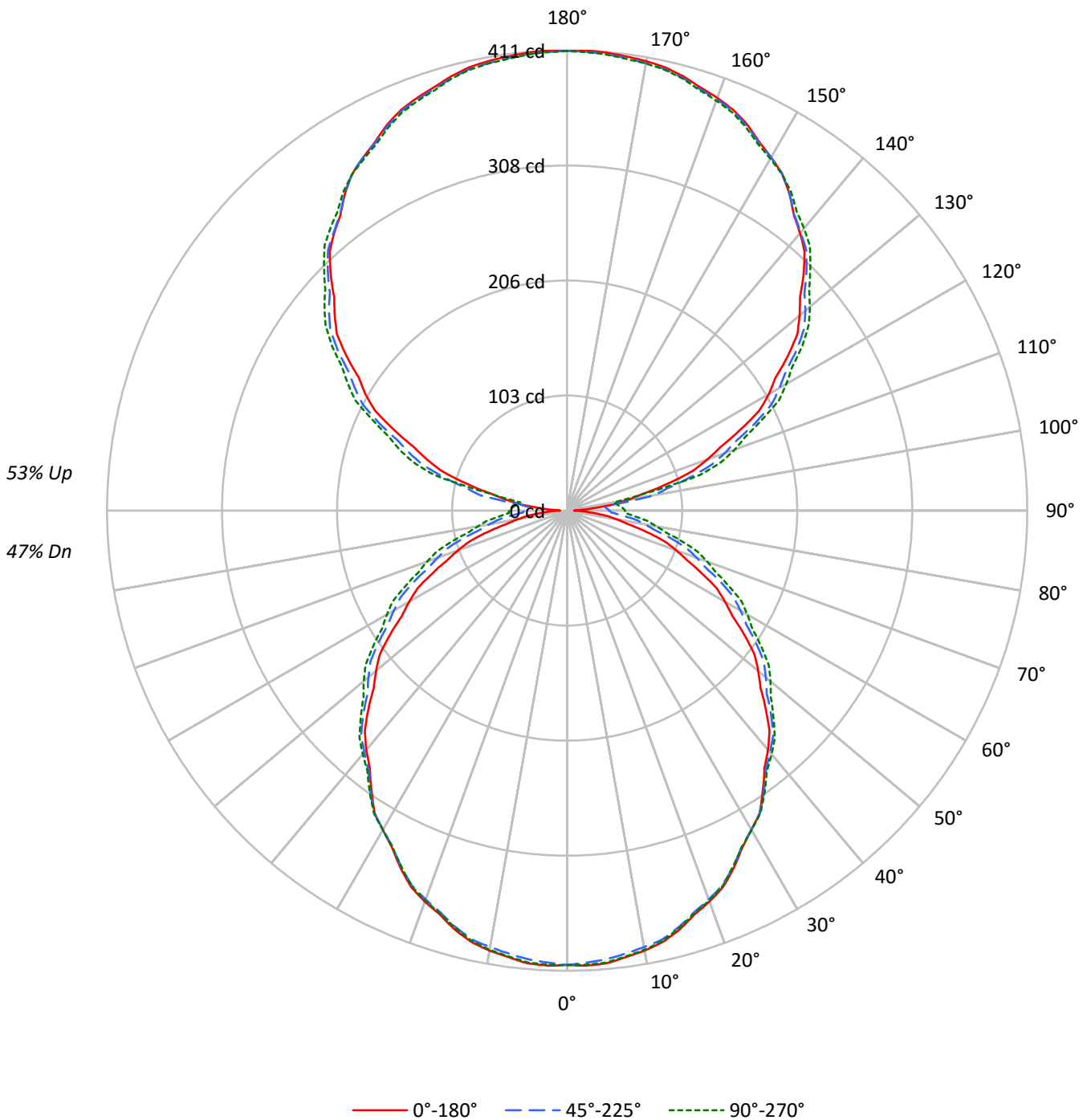
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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	1.5
10°-20°	108.9	4.3
20°-30°	162.0	6.4
30°-40°	191.9	7.6
40°-50°	198.4	7.9
50°-60°	182.8	7.3
60°-70°	147.8	5.9
70°-80°	99.0	3.9
80°-90°	52.2	2.1
90°-100°	43.7	1.7
100°-110°	113.2	4.5
110°-120°	181.0	7.2
120°-130°	222.1	8.8
130°-140°	233.7	9.3
140°-150°	216.8	8.6
150°-160°	174.8	6.9
160°-170°	113.0	4.5
170°-180°	39.0	1.5
0°-30°	309.4	12.3
0°-40°	501.3	19.9
0°-60°	882.5	35.0
0°-90°	1181.4	46.9
90°-120°	337.9	13.4
90°-150°	1010.5	40.1
90°-180°	1337.0	53.1
0°-180°	2518.8	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	22	38	48	52	5
95°	23	32	34	44	47	26
105°	93	101	113	120	123	99
115°	170	175	185	191	192	169
125°	240	243	250	255	256	215
135°	299	300	302	307	307	230
145°	346	346	346	348	348	216
155°	380	379	379	380	378	175
165°	401	400	400	402	399	113
175°	410	409	409	411	409	39
180°	410	410	410	410	410	



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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°	12.5	15.4	18.3	21.3	24.2	27.2	30.3	33.4	36.6	39.7	41.8
90°	6.6	10.1	13.4	16.8	20.1	23.6	27.0	30.6	34.0	37.5	39.9
92.5°	10.4	12.7	14.9	17.1	19.4	22.2	25.7	29.3	32.7	36.2	38.5
95°	22.6	24.6	26.7	28.8	30.9	32.2	32.6	33.1	33.5	33.9	36.2
97.5°	40.9	43.3	45.8	48.2	50.6	50.8	48.6	46.4	44.3	42.0	42.0
100°	55.2	57.3	59.3	61.4	63.5	66.0	69.1	72.2	75.3	78.4	70.2
102.5°	69.7	71.7	73.7	75.7	77.7	80.1	83.0	85.9	88.9	91.8	91.6
105°	93.1	94.7	96.4	98.2	99.8	101.9	104.6	107.3	109.9	112.6	114.3
107.5°	117.3	118.5	119.7	120.9	122.1	124.1	126.7	129.4	132.1	134.7	136.6
110°	133.0	134.1	135.2	136.2	137.3	139.1	141.7	144.4	147.0	149.6	151.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	148.2	149.1	150.2	151.2	152.2	153.9	156.4	158.9	161.4	163.8	165.2
115°	170.4	171.3	172.3	173.2	174.2	175.9	178.2	180.6	183.0	185.4	186.7
117.5°	193.5	193.8	194.2	194.6	195.0	196.4	198.8	201.3	203.7	206.1	207.3
120°	208.0	208.2	208.4	208.6	208.8	210.1	212.2	214.5	216.7	219.0	220.3
122.5°	220.6	221.0	221.4	221.8	222.1	223.3	225.4	227.5	229.5	231.6	232.9
125°	240.5	240.9	241.3	241.7	242.0	243.1	244.9	246.7	248.4	250.2	251.3
127.5°	259.2	259.4	259.7	259.9	260.2	261.0	262.4	263.8	265.2	266.7	267.8
130°	270.9	271.1	271.4	271.6	271.8	272.6	274.0	275.3	276.6	277.8	278.9
132.5°	282.2	282.6	282.9	283.4	283.7	284.3	285.1	285.9	286.7	287.5	288.7
135°	298.8	299.1	299.4	299.7	300.1	300.4	300.9	301.4	301.9	302.4	303.3
137.5°	313.9	314.3	314.5	314.8	315.0	315.3	315.5	315.6	315.8	316.0	317.1
140°	323.6	323.7	323.9	324.0	324.2	324.3	324.3	324.3	324.3	324.3	325.5
142.5°	332.6	332.6	332.6	332.7	332.7	332.7	332.9	332.9	333.0	333.2	334.1
145°	345.9	345.9	345.9	345.9	346.0	346.0	346.0	346.0	346.0	346.0	346.6
147.5°	357.0	357.0	357.0	356.9	356.9	356.9	357.0	357.1	357.1	357.2	357.5
150°	364.3	364.2	364.0	363.9	363.8	363.8	363.9	364.0	364.2	364.3	364.5
152.5°	371.3	371.1	370.7	370.5	370.1	370.1	370.2	370.4	370.5	370.7	370.7
155°	380.5	380.0	379.6	379.2	378.8	378.7	378.8	378.9	379.1	379.2	379.4
157.5°	387.4	387.2	386.9	386.7	386.5	386.3	386.3	386.4	386.4	386.4	386.6
160°	392.3	391.9	391.5	391.1	390.7	390.5	390.5	390.6	390.7	390.8	391.1
162.5°	396.2	395.8	395.4	394.9	394.6	394.4	394.5	394.5	394.6	394.7	395.0
165°	401.4	401.1	400.6	400.2	399.8	399.7	399.7	399.8	399.8	399.9	400.3
167.5°	405.4	404.9	404.5	404.1	403.6	403.5	403.6	403.6	403.7	403.7	404.2
170°	407.5	407.1	406.6	406.1	405.6	405.4	405.5	405.5	405.6	405.7	406.2
172.5°	409.0	408.5	408.0	407.6	407.1	406.9	407.0	407.2	407.3	407.4	407.9
175°	410.5	410.2	409.7	409.3	409.0	408.8	408.8	408.9	409.0	409.1	409.6
177.5°	411.3	411.0	410.6	410.4	410.0	409.8	409.9	410.0	410.0	410.1	410.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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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°	43.8	46.0	48.0	49.4	50.1	50.8	51.4	52.1
90°	42.3	44.6	47.0	48.6	49.4	50.2	51.1	51.8
92.5°	40.8	43.1	45.5	46.9	47.6	48.4	49.1	49.8
95°	38.5	40.7	43.0	44.5	45.1	45.7	46.3	47.0
97.5°	41.9	41.8	41.8	42.1	42.7	43.3	43.9	44.5
100°	62.0	53.7	45.5	41.6	41.8	42.1	42.4	42.6
102.5°	91.5	91.4	91.3	89.2	85.2	81.0	77.0	72.9
105°	116.1	117.9	119.7	120.8	121.4	121.9	122.4	123.0
107.5°	138.3	140.1	141.8	142.9	143.3	143.6	144.0	144.3
110°	152.6	154.0	155.5	156.5	157.2	157.9	158.6	159.3



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CATALOG NUMBER: S125DIP-S375D365U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	166.6	168.0	169.3	170.2	170.7	171.3	171.8	172.3
115°	188.0	189.3	190.6	191.3	191.5	191.6	191.7	191.8
117.5°	208.4	209.6	210.8	211.5	212.0	212.4	212.8	213.3
120°	221.7	223.1	224.5	225.2	225.4	225.7	225.8	226.0
122.5°	234.2	235.5	236.8	237.5	237.6	237.8	237.9	238.1
125°	252.4	253.7	254.8	255.5	255.7	256.0	256.1	256.4
127.5°	269.0	270.1	271.3	271.8	271.9	271.9	271.9	271.9
130°	279.9	280.9	282.0	282.6	282.7	282.8	282.8	283.0
132.5°	289.9	291.1	292.3	292.9	293.0	293.0	293.0	293.1
135°	304.4	305.4	306.4	306.9	306.9	307.0	307.0	307.1
137.5°	318.1	319.3	320.3	320.8	320.8	320.8	320.8	320.8
140°	326.6	327.6	328.7	329.2	329.2	329.2	329.2	329.1
142.5°	334.9	335.8	336.7	337.0	337.0	336.9	336.8	336.8
145°	347.1	347.6	348.1	348.3	348.3	348.2	348.2	348.1
147.5°	357.7	357.9	358.2	358.1	357.7	357.4	357.1	356.8
150°	364.5	364.7	364.8	364.7	364.2	363.8	363.3	362.9
152.5°	370.9	371.0	371.2	371.0	370.6	370.1	369.6	369.1
155°	379.6	379.8	380.0	379.9	379.4	378.8	378.2	377.7
157.5°	386.8	387.0	387.3	387.1	386.6	386.0	385.5	385.0
160°	391.3	391.6	391.8	391.8	391.2	390.6	390.1	389.6
162.5°	395.5	395.8	396.2	396.1	395.5	394.9	394.3	393.7
165°	400.7	401.1	401.6	401.5	401.0	400.4	399.8	399.3
167.5°	404.8	405.2	405.7	405.6	405.0	404.4	403.8	403.2
170°	406.7	407.3	407.9	407.9	407.3	406.7	406.0	405.4
172.5°	408.4	408.9	409.3	409.3	408.7	408.0	407.4	406.8
175°	410.1	410.7	411.2	411.2	410.5	409.9	409.3	408.7
177.5°	410.9	411.2	411.6	411.6	411.1	410.7	410.3	409.8
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)