

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: P333147-935

Luminaire Tested: **S125DIP-S375D1035U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333147-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D1035U935-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4456.5 lumens
Efficiency: N/A
Efficacy: 119.5 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: Semi-Indirect

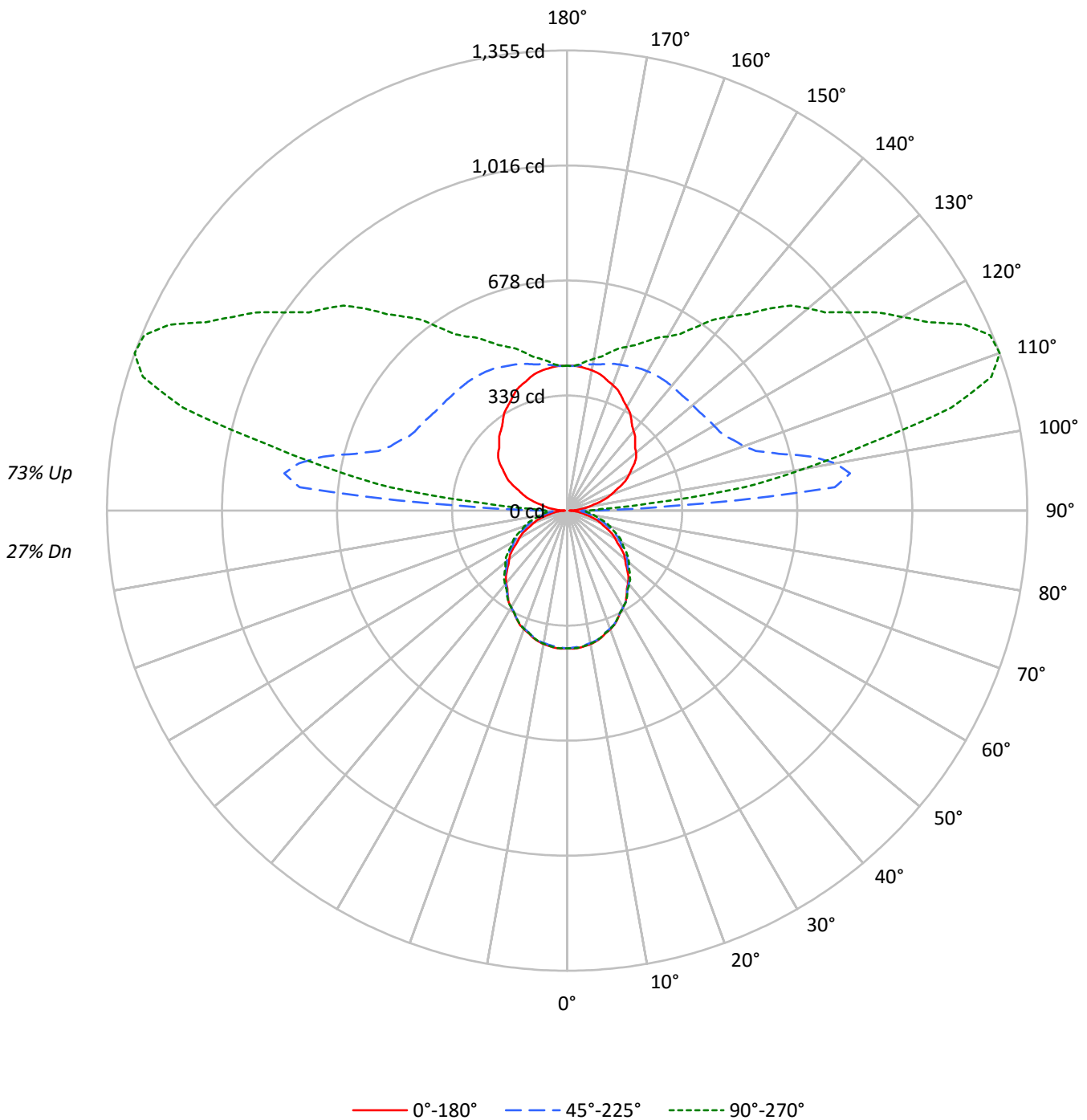
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	92	88	84	80	82	78	75	72	61	59	57	45	43	42	30	29	28	22
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	19	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	19	17	14	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10	7
9	46	35	27	22	41	31	25	20	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	38	28	22	18	23	18	15	17	14	11	12	10	8	6

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	0.9
10°-20°	108.9	2.4
20°-30°	162.0	3.6
30°-40°	191.9	4.3
40°-50°	198.4	4.5
50°-60°	182.8	4.1
60°-70°	147.8	3.3
70°-80°	99.0	2.2
80°-90°	53.7	1.2
90°-100°	337.8	7.6
100°-110°	685.5	15.4
110°-120°	637.7	14.3
120°-130°	513.3	11.5
130°-140°	409.0	9.2
140°-150°	306.7	6.9
150°-160°	215.4	4.8
160°-170°	126.9	2.8
170°-180°	41.3	0.9
0°-30°	309.4	6.9
0°-40°	501.3	11.2
0°-60°	882.5	19.8
0°-90°	1182.9	26.5
90°-120°	1661.0	37.3
90°-150°	2890.0	64.8
90°-180°	3274.0	73.5
0°-180°	4456.5	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	27	46	59	64	6
95°	34	100	791	383	242	34
105°	101	146	645	1257	1172	106
115°	176	215	516	1101	1294	173
125°	242	284	489	873	1017	215
135°	283	340	479	727	841	219
145°	329	376	478	597	658	206
155°	375	403	466	526	549	173
165°	409	420	447	474	481	115
175°	425	425	429	434	432	40
180°	426	426	426	426	426	



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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°	12.6	15.6	18.8	22.0	25.1	28.4	31.5	34.9	38.1	41.4	43.7
90°	7.2	10.9	15.5	20.0	24.5	29.2	33.1	37.8	41.7	46.4	49.2
92.5°	16.2	21.1	30.9	44.2	61.6	89.5	139.6	221.4	309.9	308.5	257.6
95°	33.6	36.7	45.9	57.6	78.9	120.2	215.2	407.3	647.5	790.6	776.2
97.5°	51.8	54.9	61.8	73.3	92.4	122.7	186.5	328.0	579.0	840.3	971.8
100°	64.6	68.1	73.4	84.7	102.9	131.0	183.7	298.3	517.7	801.6	1018.3
102.5°	78.7	81.5	85.8	97.7	114.4	141.7	188.8	285.5	471.1	735.0	988.1
105°	100.7	102.1	107.8	117.9	133.0	159.1	199.6	278.7	424.9	645.1	893.5
107.5°	122.3	125.2	130.4	138.7	154.2	177.7	216.9	284.9	404.6	582.8	797.4
110°	137.8	140.5	145.0	153.8	167.7	191.9	229.6	291.4	397.9	553.3	742.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	153.5	156.1	159.7	168.3	182.0	205.3	241.6	299.9	396.7	535.5	701.1
115°	176.0	178.3	181.6	189.9	203.4	226.4	260.5	312.6	397.4	515.7	655.7
117.5°	196.2	199.2	202.4	210.5	225.6	247.6	279.9	327.4	401.3	505.1	627.8
120°	210.0	212.8	216.5	224.5	239.4	262.1	294.2	337.4	405.7	499.6	612.1
122.5°	224.1	226.1	229.0	236.9	253.0	275.5	307.5	348.7	409.3	495.0	598.3
125°	242.3	243.9	248.1	255.7	272.0	295.2	325.3	364.0	415.7	488.8	579.5
127.5°	256.1	258.6	264.1	273.7	291.0	314.0	342.9	378.3	423.3	484.8	562.1
130°	265.1	267.5	274.3	285.4	303.4	326.3	354.2	388.1	428.0	482.5	550.8
132.5°	271.6	274.8	283.1	295.7	314.4	337.2	364.8	396.3	433.2	481.3	541.3
135°	282.8	286.0	296.3	310.0	328.0	351.4	378.7	407.6	440.1	479.3	529.5
137.5°	296.7	299.2	308.8	322.4	340.1	364.1	388.7	416.1	446.7	479.0	519.2
140°	304.7	307.2	317.5	331.3	347.7	370.9	395.9	421.8	449.4	478.7	514.0
142.5°	314.3	316.1	325.6	339.3	354.9	376.7	400.3	424.7	450.9	478.7	509.8
145°	328.7	330.4	338.9	350.8	366.2	385.9	408.3	429.7	453.0	477.9	504.1
147.5°	343.5	344.5	351.9	363.1	376.4	393.8	413.5	432.8	453.8	475.6	498.5
150°	352.4	354.1	360.2	371.3	383.3	398.0	416.9	434.9	453.8	473.6	494.2
152.5°	362.1	363.1	368.4	378.2	389.5	402.8	420.3	436.3	453.1	470.9	489.4
155°	374.7	374.7	379.9	388.5	397.1	409.1	423.7	437.5	451.3	465.9	481.3
157.5°	386.1	385.9	390.0	397.4	405.0	414.1	426.6	438.3	449.0	460.7	473.7
160°	393.6	392.8	396.2	402.3	409.1	416.9	428.0	438.3	446.9	457.3	467.6
162.5°	399.8	399.0	402.4	407.8	413.3	419.7	429.4	437.6	444.9	453.1	462.1
165°	409.1	407.4	410.0	414.3	417.8	422.9	429.7	436.6	441.8	446.9	453.8
167.5°	415.3	414.5	416.0	418.4	420.9	424.0	429.7	434.5	437.0	440.9	445.7
170°	419.5	418.6	419.5	421.2	422.9	425.4	429.7	433.2	434.9	437.5	440.9
172.5°	422.2	420.7	421.5	423.2	424.2	425.4	429.0	431.8	432.1	433.3	436.1
175°	425.4	423.7	424.6	425.4	425.4	425.4	428.0	429.7	428.9	428.9	429.7
177.5°	427.0	425.6	425.6	426.3	425.6	425.6	427.0	427.7	426.3	426.3	427.0
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3



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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°	45.8	48.0	50.3	51.9	52.5	53.1	54.0	54.6
90°	52.2	55.1	57.9	61.0	61.6	62.3	63.7	64.3
92.5°	187.6	147.7	122.4	111.0	100.6	99.2	98.6	97.8
95°	650.9	522.2	418.4	347.5	287.1	262.0	255.7	242.5
97.5°	951.1	861.3	760.3	661.1	608.6	561.0	536.7	526.3
100°	1086.4	1046.1	959.4	871.2	812.4	751.1	719.9	706.6
102.5°	1131.0	1158.8	1118.1	1058.8	995.8	952.4	918.3	908.6
105°	1101.6	1221.1	1260.7	1252.4	1225.5	1197.7	1181.2	1171.5
107.5°	1002.6	1161.5	1260.4	1306.4	1320.9	1321.2	1316.1	1309.8
110°	929.7	1094.7	1217.5	1291.8	1331.1	1348.0	1354.7	1355.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	871.9	1028.6	1152.8	1240.0	1297.2	1325.8	1341.4	1348.2
115°	799.2	933.9	1053.3	1148.1	1215.6	1257.4	1282.0	1293.7
117.5°	751.3	867.6	970.6	1057.6	1125.2	1168.5	1193.0	1200.4
120°	725.3	829.9	926.0	1002.6	1066.8	1108.5	1132.3	1139.7
122.5°	705.3	802.4	888.0	959.8	1017.1	1055.4	1079.2	1085.9
125°	676.4	765.4	841.6	904.5	953.0	988.8	1008.1	1017.1
127.5°	646.9	730.0	801.1	859.9	904.0	935.7	954.1	958.4
130°	628.5	705.4	773.7	830.4	873.8	902.7	920.2	925.8
132.5°	610.1	682.2	744.2	798.8	842.2	870.9	887.1	893.4
135°	585.7	646.1	702.2	752.1	790.3	819.2	835.0	840.6
137.5°	565.1	614.1	660.9	703.2	737.4	763.5	778.2	784.2
140°	553.7	595.0	635.6	672.4	704.5	727.2	740.5	745.1
142.5°	543.8	578.9	613.7	645.6	673.0	692.2	704.8	708.8
145°	531.2	558.3	585.4	609.0	630.0	644.9	654.7	658.5
147.5°	519.6	541.4	562.0	579.7	596.2	608.0	613.7	615.4
150°	513.2	532.0	548.4	563.9	576.9	587.3	590.8	591.8
152.5°	506.3	523.1	538.0	550.1	560.9	569.2	572.7	573.5
155°	495.9	509.7	521.8	531.2	539.8	545.8	548.4	549.2
157.5°	485.6	497.0	506.3	513.7	520.4	525.3	527.7	527.5
160°	478.7	487.3	495.9	502.0	508.0	512.3	514.0	513.2
162.5°	471.2	479.1	486.3	491.6	496.3	499.9	500.2	500.1
165°	460.7	466.7	471.9	476.1	479.6	481.3	481.3	481.3
167.5°	450.7	454.7	458.7	461.8	463.5	465.0	464.3	464.2
170°	445.2	447.8	450.4	452.1	453.8	454.7	454.7	453.8
172.5°	439.0	441.6	443.5	444.5	444.9	446.4	445.1	444.2
175°	432.3	432.3	434.0	434.0	434.0	434.9	433.2	432.3
177.5°	427.7	428.3	428.3	428.3	427.7	428.3	426.3	426.3
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3

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