

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: P333156-927

Luminaire Tested: **S125DIP-S375D1205U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333156-927
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-S375D1205U927-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4583.0 lumens
Efficiency: N/A
Efficacy: 108.6 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: Semi-Indirect

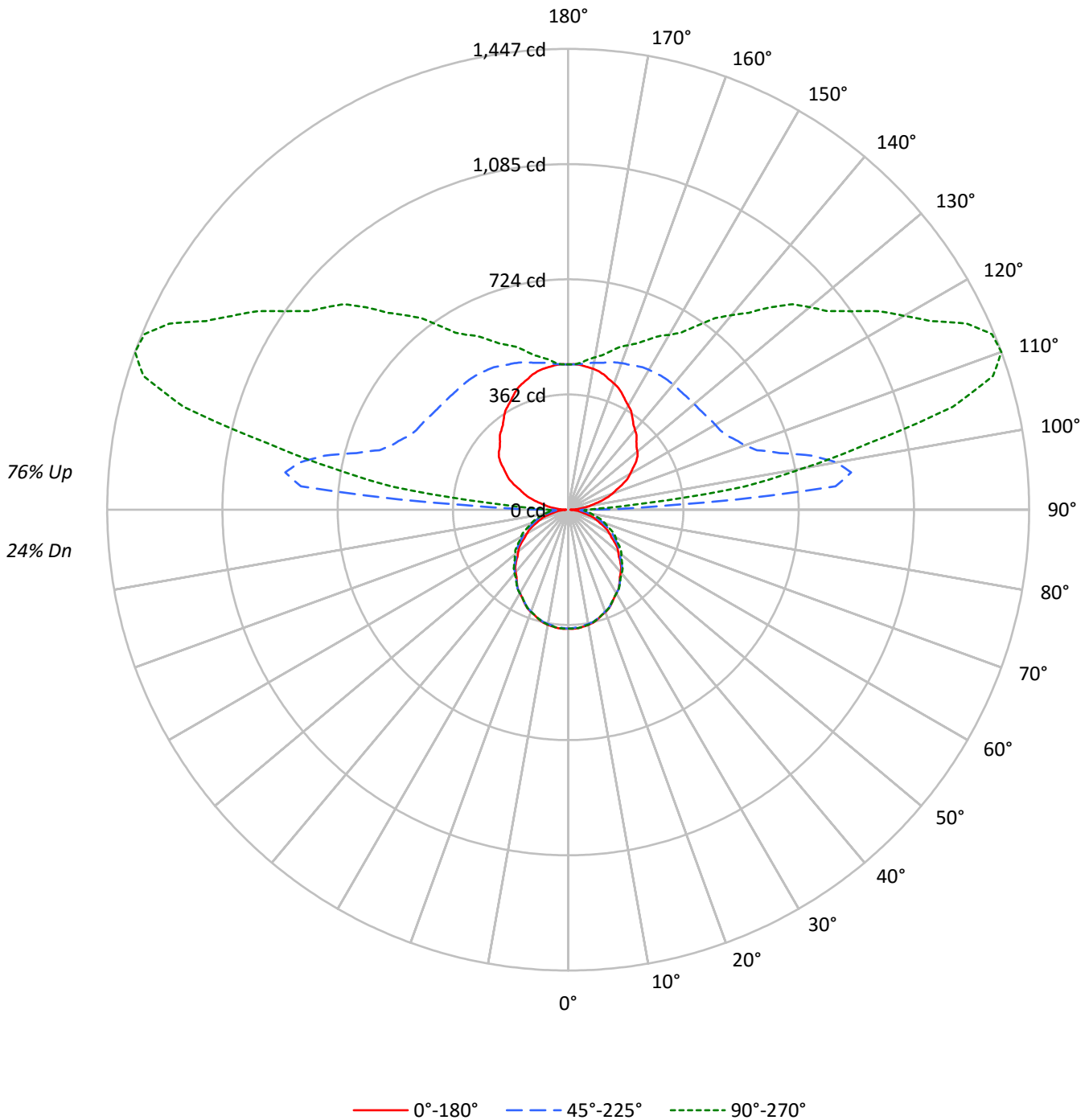
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	87	83	80	81	78	74	71	60	57	55	43	42	40	28	27	26	19
2	83	76	70	65	74	68	63	58	52	48	46	37	35	33	24	23	22	16
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16	11
5	63	52	44	38	56	46	40	35	36	31	28	26	23	20	17	15	14	10
6	58	46	39	33	51	42	35	30	32	27	24	23	20	18	15	13	12	9
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	10	8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.8
10°-20°	100.2	2.2
20°-30°	149.1	3.3
30°-40°	176.6	3.9
40°-50°	182.6	4.0
50°-60°	168.2	3.7
60°-70°	135.9	3.0
70°-80°	91.0	2.0
80°-90°	49.8	1.1
90°-100°	357.4	7.8
100°-110°	730.9	15.9
110°-120°	680.7	14.9
120°-130°	548.5	12.0
130°-140°	437.5	9.5
140°-150°	328.3	7.2
150°-160°	230.7	5.0
160°-170°	136.0	3.0
170°-180°	44.2	1.0
0°-30°	284.6	6.2
0°-40°	461.2	10.1
0°-60°	812.0	17.7
0°-90°	1088.7	23.8
90°-120°	1769.1	38.6
90°-150°	3083.4	67.3
90°-180°	3494.0	76.2
0°-180°	4583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	7	26	45	57	62	6
95°	35	104	842	405	254	36
105°	107	155	688	1341	1250	113
115°	188	229	550	1175	1382	185
125°	259	303	522	933	1087	230
135°	303	364	513	778	899	235
145°	352	403	512	639	705	220
155°	401	432	499	564	588	185
165°	438	450	479	508	516	123
175°	456	456	459	465	463	43
180°	456	456	456	456	456	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.4	17.3	20.4	23.3	26.4	29.3	32.5	35.4	38.5	40.6
90°	6.8	10.3	14.7	19.2	23.6	28.1	31.8	36.4	40.2	44.8	47.5
92.5°	16.5	21.3	31.4	45.2	63.5	93.0	146.1	233.2	327.6	325.6	270.9
95°	35.2	38.2	47.7	59.9	82.2	126.1	227.4	432.6	689.4	842.2	826.6
97.5°	54.7	57.8	64.8	76.8	97.0	129.1	196.9	348.0	616.5	895.9	1036.4
100°	68.4	72.0	77.4	89.2	108.4	138.2	194.2	316.5	551.0	854.6	1086.5
102.5°	83.7	86.3	90.9	103.3	120.9	149.8	199.9	302.9	501.3	783.5	1054.3
105°	107.3	108.6	114.5	125.0	141.1	168.7	211.7	296.0	452.2	687.5	953.3
107.5°	130.5	133.4	138.9	147.6	164.0	188.9	230.4	302.9	430.6	621.2	850.6
110°	147.1	149.9	154.6	163.8	178.6	204.1	244.2	310.0	423.7	589.8	791.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	164.0	166.7	170.4	179.4	194.0	218.7	257.2	319.2	422.6	570.9	748.0
115°	188.1	190.5	193.8	202.7	217.1	241.5	277.7	333.1	423.6	550.0	699.7
117.5°	209.8	213.0	216.3	225.0	241.0	264.4	298.7	349.3	428.0	538.8	670.0
120°	224.6	227.6	231.6	240.0	256.0	280.0	314.1	360.1	432.9	533.3	653.4
122.5°	239.8	241.9	244.9	253.3	270.6	294.5	328.6	372.3	437.0	528.4	638.9
125°	259.2	260.9	265.5	273.7	291.1	315.8	347.8	389.0	444.0	522.0	619.1
127.5°	274.1	276.8	282.6	293.0	311.6	336.1	366.7	404.5	452.4	518.2	600.7
130°	283.7	286.4	293.7	305.5	324.8	349.3	378.9	415.0	457.6	515.8	588.7
132.5°	290.7	294.2	303.1	316.5	336.5	360.9	390.3	424.0	463.3	514.6	578.8
135°	302.6	306.3	317.2	331.8	351.1	376.2	405.3	436.3	470.9	512.9	566.4
137.5°	317.7	320.4	330.6	345.3	364.2	389.8	416.1	445.4	478.2	512.7	555.6
140°	326.2	329.0	340.0	354.7	372.2	397.1	423.9	451.6	481.2	512.5	550.2
142.5°	336.5	338.5	348.7	363.4	380.1	403.5	428.6	454.9	482.8	512.7	545.8
145°	352.0	353.8	362.9	375.7	392.1	413.3	437.2	460.3	485.1	511.7	539.8
147.5°	367.8	368.9	376.8	388.8	403.1	421.8	442.8	463.6	486.0	509.4	533.9
150°	377.4	379.2	385.7	397.7	410.5	426.2	446.4	465.8	486.0	507.2	529.3
152.5°	387.7	388.8	394.5	405.0	417.2	431.3	450.1	467.2	485.3	504.2	524.1
155°	401.3	401.3	406.9	416.1	425.2	438.2	453.8	468.5	483.2	498.9	515.5
157.5°	413.5	413.3	417.7	425.6	433.7	443.5	456.9	469.4	480.9	493.4	507.4
160°	421.6	420.6	424.4	430.8	438.2	446.4	458.4	469.4	478.6	489.7	500.7
162.5°	428.2	427.3	430.9	436.7	442.6	449.4	459.9	468.7	476.4	485.3	494.9
165°	438.2	436.3	439.1	443.7	447.3	452.9	460.3	467.6	473.1	478.6	486.0
167.5°	444.8	443.9	445.5	448.1	450.7	454.2	460.3	465.4	467.9	472.2	477.4
170°	449.2	448.3	449.2	451.1	452.9	455.7	460.3	463.9	465.8	468.5	472.2
172.5°	452.2	450.5	451.4	453.2	454.3	455.7	459.5	462.5	462.8	464.1	467.1
175°	455.7	453.8	454.7	455.7	455.7	455.7	458.4	460.3	459.3	459.3	460.3
177.5°	457.3	455.8	455.8	456.5	455.8	455.8	457.3	458.0	456.5	456.5	457.3
180°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	42.6	44.7	46.7	48.3	48.9	49.5	50.2	50.8
90°	50.3	53.2	55.9	58.9	59.6	60.1	61.6	62.2
92.5°	195.6	152.7	125.2	112.7	101.6	99.9	99.2	98.2
95°	692.1	554.0	442.6	366.5	301.7	274.6	267.8	253.7
97.5°	1014.0	917.6	809.0	702.6	646.3	595.2	569.1	557.9
100°	1159.0	1115.6	1022.5	927.9	864.9	799.1	765.6	751.3
102.5°	1207.0	1236.5	1192.7	1128.9	1061.5	1014.9	978.3	967.8
105°	1175.8	1303.5	1345.7	1336.6	1307.8	1277.9	1260.1	1249.7
107.5°	1070.2	1240.1	1345.7	1394.8	1410.2	1410.6	1405.0	1398.1
110°	992.4	1168.8	1300.1	1379.4	1421.4	1439.5	1446.4	1447.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	930.7	1098.2	1230.9	1324.2	1385.3	1415.9	1432.5	1439.7
115°	853.0	997.1	1124.7	1226.1	1298.3	1343.0	1369.2	1381.7
117.5°	802.1	926.5	1036.5	1129.5	1201.8	1248.1	1274.2	1282.1
120°	774.4	886.3	988.9	1070.9	1139.5	1184.2	1209.5	1217.3
122.5°	753.3	856.9	948.5	1025.2	1086.5	1127.4	1152.8	1159.9
125°	722.5	817.8	899.1	966.2	1018.2	1056.4	1077.1	1086.6
127.5°	691.3	780.1	856.0	918.9	966.1	999.9	1019.5	1024.1
130°	671.8	753.9	826.9	887.5	933.9	964.7	983.5	989.4
132.5°	652.2	729.2	795.5	853.9	900.2	931.0	948.2	954.8
135°	626.4	690.9	750.9	804.1	845.0	875.8	892.8	898.7
137.5°	604.6	657.0	706.9	752.0	788.6	816.6	832.2	838.6
140°	592.6	636.7	679.9	719.2	753.6	777.8	792.0	796.9
142.5°	582.1	619.6	656.7	690.8	720.0	740.6	754.0	758.2
145°	568.8	597.7	626.6	651.9	674.3	690.2	700.7	704.7
147.5°	556.4	579.7	601.7	620.7	638.3	651.0	657.0	658.9
150°	549.5	569.8	587.2	603.9	617.7	628.9	632.6	633.7
152.5°	542.2	560.2	576.2	589.1	600.7	609.6	613.3	614.3
155°	531.1	545.8	558.7	568.9	578.1	584.5	587.2	588.2
157.5°	520.1	532.2	542.2	550.1	557.2	562.6	565.1	565.0
160°	512.7	521.9	531.1	537.6	544.0	548.6	550.5	549.5
162.5°	504.6	513.1	520.8	526.5	531.5	535.4	535.8	535.5
165°	493.4	499.8	505.3	509.9	513.7	515.5	515.5	515.5
167.5°	482.7	487.0	491.2	494.5	496.3	498.0	497.3	497.1
170°	476.8	479.6	482.4	484.2	486.0	487.0	487.0	486.0
172.5°	470.2	472.9	475.0	476.1	476.4	478.1	476.7	475.7
175°	463.0	463.0	464.9	464.9	464.9	465.8	463.9	463.0
177.5°	458.0	458.8	458.8	458.8	458.0	458.8	456.5	456.5
180°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5

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