

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: P333146-840

Luminaire Tested: **S125DIP-S375D1035U840-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333146-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D1035U840-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5092.4 lumens
Efficiency: N/A
Efficacy: 136.5 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

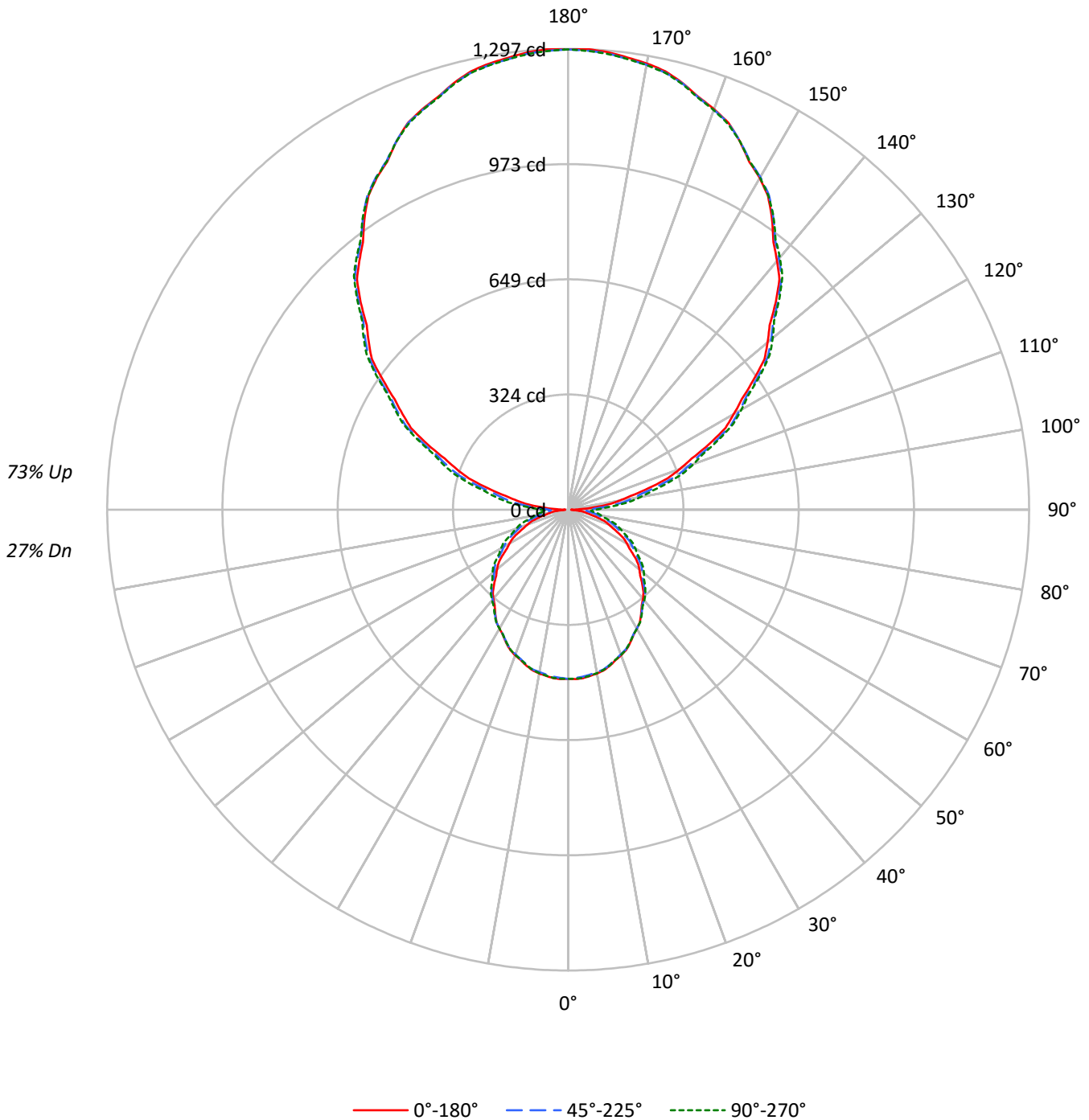
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71	71	71	52	52	52	35	35	35	27
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	30	29	22
2	84	76	70	65	75	68	63	59	53	50	47	39	37	35	27	25	24	18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	22	20	15
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17	13
5	64	52	45	39	57	47	40	35	37	32	28	27	24	22	19	17	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12	9
8	50	38	31	25	45	34	28	23	27	22	19	20	17	15	14	12	10	8
9	46	35	27	22	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	22	18	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3075	3075	3075
5°	3081	3017	3027
10°	3059	2963	2960
15°	3022	2899	2873
20°	2974	2819	2786
25°	2915	2734	2680
30°	2844	2641	2584
35°	2778	2554	2494
40°	2711	2463	2406
45°	2635	2385	2327
50°	2563	2302	2256
55°	2474	2222	2175
60°	2380	2130	2090
65°	2281	2035	1997
70°	2168	1905	1900
75°	1987	1780	1780
80°	1753	1629	1650
85°	1538	1527	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	0.9
10°-20°	127.8	2.5
20°-30°	190.0	3.7
30°-40°	225.1	4.4
40°-50°	232.7	4.6
50°-60°	214.4	4.2
60°-70°	173.3	3.4
70°-80°	116.1	2.3
80°-90°	63.0	1.2
90°-100°	120.5	2.4
100°-110°	281.1	5.5
110°-120°	450.7	8.9
120°-130°	580.7	11.4
130°-140°	644.2	12.6
140°-150°	628.1	12.3
150°-160°	526.9	10.3
160°-170°	350.2	6.9
170°-180°	122.6	2.4
0°-30°	362.8	7.1
0°-40°	587.9	11.5
0°-60°	1035.1	20.3
0°-90°	1387.5	27.2
90°-120°	852.4	16.7
90°-150°	2705.3	53.1
90°-180°	3705.0	72.8
0°-180°	5092.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	475	472	475	475	45
15°	454	455	452	454	453	128
25°	413	414	412	413	411	190
35°	358	360	359	361	361	224
45°	294	299	302	305	306	227
55°	226	234	241	246	248	202
65°	156	167	178	184	187	155
75°	86	98	113	122	125	91
85°	26	41	57	67	71	27
90°	8	31	54	70	76	9
95°	72	86	112	128	134	75
105°	234	247	267	282	288	250
115°	437	445	459	466	468	432
125°	636	642	652	657	659	569
135°	826	831	836	841	840	636
145°	1000	1003	1006	1008	1007	625
155°	1143	1143	1144	1148	1143	526
165°	1243	1241	1242	1246	1240	351
175°	1292	1289	1288	1294	1288	123
180°	1296	1296	1296	1296	1296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	477.2	477.0	476.9	476.7	476.6	476.2	475.5	474.9	474.4	473.8	474.4
5°	476.1	475.8	475.6	475.4	475.2	474.7	474.0	473.3	472.6	471.8	472.7
7.5°	471.8	471.8	471.7	471.6	471.5	471.1	470.4	469.6	468.9	468.1	468.9
10°	468.1	468.1	468.1	468.1	468.1	467.7	466.9	466.1	465.2	464.3	465.1
12.5°	462.9	463.0	463.0	463.1	463.2	462.9	462.3	461.6	460.9	460.3	460.8
15°	454.5	454.6	454.7	454.9	455.0	454.6	453.9	453.2	452.5	451.8	452.4
17.5°	443.7	443.9	444.1	444.3	444.5	444.3	443.6	442.8	442.1	441.4	441.9
20°	436.0	436.2	436.4	436.6	436.8	436.5	435.8	435.0	434.3	433.5	433.9
22.5°	427.0	427.4	427.7	428.1	428.5	428.2	427.4	426.6	425.8	425.0	425.4
25°	413.0	413.3	413.6	413.9	414.2	414.1	413.5	412.9	412.2	411.6	412.0
27.5°	397.6	398.0	398.5	398.9	399.4	399.3	398.6	397.9	397.2	396.5	396.7
30°	386.0	386.6	387.2	387.9	388.5	388.5	387.9	387.2	386.6	386.0	386.2
32.5°	375.6	376.1	376.6	377.2	377.7	377.7	377.3	376.8	376.4	375.9	376.1
35°	357.5	358.2	359.0	359.7	360.4	360.6	360.3	360.0	359.7	359.4	359.7
37.5°	339.5	340.1	340.8	341.4	342.1	342.4	342.3	342.2	342.1	342.0	342.4
40°	327.2	328.0	328.8	329.6	330.5	330.8	330.7	330.6	330.5	330.4	330.8
42.5°	313.8	314.8	315.9	317.0	318.0	318.7	318.9	319.1	319.4	319.6	320.1
45°	294.5	295.7	296.8	297.9	299.0	299.9	300.4	300.9	301.4	301.9	302.7
47.5°	274.8	275.9	276.9	278.0	279.0	280.0	280.9	281.8	282.7	283.6	284.7
50°	261.4	262.5	263.7	264.8	265.9	267.1	268.2	269.3	270.4	271.7	272.8
52.5°	247.2	248.5	249.9	251.4	252.8	254.1	255.5	256.9	258.3	259.6	260.9
55°	226.3	228.0	229.6	231.4	233.0	234.7	236.3	237.9	239.6	241.3	242.5
57.5°	205.1	207.0	209.0	211.1	213.1	215.0	216.9	218.8	220.8	222.6	223.9
60°	190.9	193.0	195.0	197.1	199.1	201.3	203.3	205.4	207.5	209.5	211.1
62.5°	177.0	179.2	181.3	183.3	185.4	187.5	189.8	192.0	194.3	196.5	198.2
65°	155.9	158.2	160.7	163.0	165.4	167.8	170.4	172.9	175.3	177.8	179.4
67.5°	135.9	138.3	140.5	142.8	145.1	147.5	150.1	152.6	155.1	157.6	159.6
70°	121.4	123.7	126.1	128.5	130.9	133.4	136.1	138.9	141.5	144.2	146.2
72.5°	107.1	109.7	112.1	114.5	117.0	119.8	122.7	125.6	128.6	131.5	133.7
75°	85.8	88.6	91.3	93.9	96.6	99.7	103.0	106.3	109.7	112.9	115.0
77.5°	65.4	68.6	71.7	74.7	77.9	81.0	84.2	87.5	90.6	93.8	96.1
80°	52.7	55.8	59.0	62.1	65.1	68.5	72.0	75.5	79.1	82.6	84.9
82.5°	41.2	44.4	47.8	51.0	54.2	57.8	61.3	64.9	68.6	72.1	74.3
85°	25.7	29.1	32.5	36.0	39.4	42.9	46.6	50.2	53.8	57.4	59.7
87.5°	14.7	18.5	22.1	25.8	29.5	33.2	37.1	40.9	44.7	48.6	51.2
90°	8.5	13.6	18.7	23.8	28.9	34.0	39.1	44.2	49.3	54.4	57.9
92.5°	31.1	35.4	39.8	44.1	48.4	53.3	58.9	64.4	70.0	75.5	79.3
95°	71.6	74.7	77.9	81.0	84.2	88.7	94.4	100.2	105.9	111.7	115.5
97.5°	114.4	117.0	119.6	122.2	124.8	129.4	135.8	142.4	148.9	155.3	159.0
100°	146.3	148.5	150.7	152.8	155.0	159.2	165.4	171.7	177.9	184.1	188.3
102.5°	180.6	183.5	186.4	189.3	192.2	196.0	200.8	205.5	210.2	214.9	219.1
105°	234.1	236.8	239.6	242.4	245.2	248.8	253.3	257.7	262.2	266.6	270.0
107.5°	293.2	295.7	298.2	300.7	303.4	306.6	310.6	314.7	318.6	322.7	325.4
110°	334.0	336.3	338.7	341.0	343.5	346.4	349.9	353.6	357.1	360.7	363.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.9	377.5	379.1	380.6	382.2	384.9	388.5	392.1	395.9	399.5	401.7
115°	437.4	439.0	440.6	442.2	443.8	446.2	449.4	452.5	455.7	458.8	460.4
117.5°	499.0	499.9	500.7	501.6	502.5	504.4	507.4	510.3	513.3	516.2	518.2
120°	537.7	539.2	540.6	542.0	543.4	545.4	548.1	550.7	553.3	555.8	557.6
122.5°	579.3	579.8	580.4	580.9	581.5	583.2	586.0	589.0	591.8	594.7	596.2
125°	636.0	637.2	638.5	639.7	641.0	642.8	645.1	647.3	649.6	652.0	653.2
127.5°	696.1	696.7	697.4	698.0	698.7	700.0	702.0	704.0	705.9	707.9	709.2
130°	732.4	733.4	734.4	735.4	736.4	737.9	739.7	741.6	743.6	745.5	746.7
132.5°	768.3	770.1	771.9	773.8	775.6	777.0	778.0	779.0	780.0	781.0	782.3
135°	825.7	826.9	828.1	829.4	830.6	831.7	832.6	833.6	834.6	835.5	836.9
137.5°	879.6	880.8	882.0	883.2	884.4	885.4	886.4	887.2	888.0	888.9	890.4
140°	913.9	915.0	916.1	917.3	918.4	919.3	920.1	920.9	921.6	922.4	924.0
142.5°	948.6	949.5	950.3	951.2	952.0	952.9	953.7	954.6	955.5	956.3	957.7
145°	999.6	1000.4	1001.2	1002.0	1002.8	1003.5	1004.2	1004.8	1005.5	1006.2	1006.7
147.5°	1046.3	1046.8	1047.3	1047.8	1048.2	1048.8	1049.4	1049.9	1050.4	1051.0	1051.7
150°	1077.7	1077.5	1077.3	1077.1	1076.9	1077.2	1078.1	1079.0	1079.8	1080.8	1080.8
152.5°	1103.6	1103.9	1104.2	1104.5	1104.8	1105.2	1105.5	1105.9	1106.2	1106.6	1107.1
155°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.4	1143.7	1143.9	1144.1	1144.3	1145.2
157.5°	1178.8	1178.3	1177.8	1177.3	1176.8	1176.7	1176.9	1177.1	1177.4	1177.6	1178.5
160°	1199.7	1199.1	1198.4	1197.7	1197.1	1196.9	1197.1	1197.3	1197.5	1197.7	1198.6
162.5°	1218.3	1217.8	1217.3	1216.8	1216.4	1216.1	1216.2	1216.2	1216.3	1216.3	1217.4
165°	1243.1	1242.6	1242.2	1241.7	1241.3	1241.2	1241.4	1241.6	1241.8	1242.1	1243.0
167.5°	1264.0	1263.1	1262.3	1261.4	1260.5	1260.0	1260.0	1260.0	1260.0	1260.0	1261.4
170°	1275.4	1274.4	1273.5	1272.7	1271.8	1271.3	1271.3	1271.3	1271.3	1271.3	1272.7
172.5°	1283.4	1282.5	1281.6	1280.7	1279.9	1279.4	1279.4	1279.4	1279.4	1279.4	1280.7
175°	1292.5	1291.6	1290.7	1289.8	1288.9	1288.5	1288.5	1288.5	1288.5	1288.5	1289.8
177.5°	1297.2	1296.5	1295.8	1294.9	1294.2	1293.8	1293.6	1293.4	1293.3	1293.1	1294.2
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	474.9	475.5	476.2	476.4	476.3	476.3	476.2	476.1
5°	473.5	474.3	475.1	475.5	475.4	475.3	475.2	475.1
7.5°	469.6	470.3	471.0	471.3	471.2	471.1	471.0	470.9
10°	465.9	466.6	467.3	467.6	467.5	467.4	467.3	467.2
12.5°	461.4	461.9	462.5	462.6	462.4	462.1	461.8	461.6
15°	453.0	453.6	454.2	454.3	453.9	453.5	453.1	452.7
17.5°	442.4	442.8	443.3	443.4	443.2	442.9	442.7	442.4
20°	434.2	434.5	434.8	434.9	434.9	434.9	434.9	434.9
22.5°	425.8	426.2	426.6	426.7	426.4	426.2	425.9	425.7
25°	412.4	412.9	413.3	413.2	412.7	412.2	411.7	411.2
27.5°	397.0	397.3	397.6	397.7	397.5	397.3	397.1	396.9
30°	386.4	386.6	386.8	386.9	386.8	386.7	386.6	386.5
32.5°	376.3	376.5	376.7	376.8	376.7	376.6	376.5	376.4
35°	360.0	360.3	360.6	360.7	360.7	360.7	360.7	360.7
37.5°	342.8	343.3	343.7	343.9	343.9	343.8	343.8	343.7
40°	331.2	331.6	332.1	332.4	332.6	332.9	333.1	333.3
42.5°	320.6	321.1	321.6	321.8	321.9	321.9	321.9	322.0
45°	303.5	304.2	304.9	305.3	305.4	305.5	305.6	305.7
47.5°	285.7	286.8	287.8	288.4	288.7	288.9	289.1	289.3
50°	273.9	275.1	276.2	276.9	277.2	277.5	277.8	278.1
52.5°	262.2	263.4	264.6	265.3	265.5	265.8	266.0	266.2
55°	243.6	244.7	245.9	246.6	247.0	247.4	247.9	248.3
57.5°	225.2	226.5	227.8	228.6	228.9	229.2	229.6	229.9
60°	212.7	214.2	215.8	216.7	217.0	217.3	217.6	217.9
62.5°	200.0	201.7	203.4	204.4	204.8	205.2	205.6	206.0
65°	181.0	182.5	184.0	185.0	185.4	185.8	186.3	186.7
67.5°	161.5	163.3	165.2	166.4	166.9	167.5	168.0	168.5
70°	148.1	150.2	152.1	153.4	154.0	154.6	155.2	155.9
72.5°	135.8	137.9	140.1	141.4	141.8	142.3	142.7	143.2
75°	117.1	119.2	121.3	122.5	123.1	123.6	124.1	124.6
77.5°	98.4	100.7	102.9	104.3	104.7	105.1	105.5	105.9
80°	87.2	89.5	91.7	93.1	93.5	93.9	94.3	94.7
82.5°	76.5	78.8	81.0	82.4	83.2	83.9	84.6	85.4
85°	62.0	64.2	66.6	68.1	68.9	69.8	70.6	71.4
87.5°	53.8	56.5	59.1	60.8	61.6	62.5	63.3	64.2
90°	61.4	64.9	68.5	70.9	72.3	73.7	75.0	76.4
92.5°	83.0	86.8	90.6	93.1	94.3	95.5	96.7	98.0
95°	119.4	123.2	127.1	129.6	130.8	132.0	133.1	134.3
97.5°	162.7	166.3	170.0	172.3	173.3	174.2	175.2	176.2
100°	192.5	196.7	200.9	203.5	204.6	205.7	206.7	207.8
102.5°	223.5	227.7	232.1	234.8	236.1	237.3	238.5	239.8
105°	273.5	276.9	280.3	282.8	284.1	285.5	286.9	288.3
107.5°	328.1	330.8	333.6	335.3	335.8	336.4	337.0	337.6
110°	366.0	368.6	371.2	372.8	373.3	373.9	374.4	374.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	403.9	406.2	408.3	409.6	409.9	410.2	410.6	410.9
115°	462.1	463.7	465.3	466.4	466.8	467.2	467.6	468.0
117.5°	520.1	522.1	524.0	524.8	524.7	524.5	524.3	524.1
120°	559.4	561.2	562.9	563.7	563.4	563.1	562.8	562.6
122.5°	597.7	599.3	600.7	601.4	601.3	601.3	601.2	601.1
125°	654.4	655.6	656.8	657.5	657.8	658.1	658.4	658.7
127.5°	710.5	711.9	713.2	713.9	714.0	714.2	714.3	714.5
130°	747.9	749.1	750.4	751.0	751.1	751.1	751.2	751.3
132.5°	783.6	784.8	786.0	786.5	786.3	786.1	786.0	785.8
135°	838.2	839.5	840.9	841.4	841.0	840.6	840.2	839.9
137.5°	891.8	893.3	894.8	895.2	894.5	893.8	893.1	892.4
140°	925.6	927.2	928.8	929.2	928.6	927.9	927.2	926.5
142.5°	958.9	960.1	961.3	961.6	960.9	960.2	959.5	958.8
145°	1007.2	1007.7	1008.2	1008.4	1008.1	1007.8	1007.6	1007.3
147.5°	1052.4	1053.1	1053.8	1053.5	1052.1	1050.8	1049.5	1048.1
150°	1080.8	1080.8	1080.8	1080.7	1080.3	1079.9	1079.5	1079.2
152.5°	1107.7	1108.2	1108.7	1108.6	1107.8	1107.0	1106.3	1105.5
155°	1146.1	1147.0	1147.9	1147.8	1146.7	1145.5	1144.4	1143.3
157.5°	1179.3	1180.2	1181.1	1180.8	1179.4	1177.9	1176.4	1175.0
160°	1199.5	1200.4	1201.3	1201.2	1200.1	1199.0	1197.9	1196.7
162.5°	1218.4	1219.5	1220.6	1220.5	1219.2	1217.9	1216.6	1215.3
165°	1243.9	1244.8	1245.7	1245.5	1244.2	1242.7	1241.4	1240.1
167.5°	1262.7	1264.0	1265.5	1265.4	1264.0	1262.6	1261.2	1259.8
170°	1274.0	1275.4	1276.7	1276.6	1275.1	1273.4	1271.9	1270.3
172.5°	1282.1	1283.4	1284.8	1284.8	1283.3	1282.0	1280.6	1279.2
175°	1291.2	1292.5	1293.8	1293.7	1292.2	1290.6	1289.0	1287.5
177.5°	1295.3	1296.4	1297.4	1297.4	1296.1	1294.8	1293.5	1292.3
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6

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