

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: P333147-840

Luminaire Tested: **S125DIP-S375D1035U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333147-840
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-S375D1035U840-4F0-1E-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: 5227.0 lumens
Efficiency: N/A
Efficacy: 140.1 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: Semi-Indirect

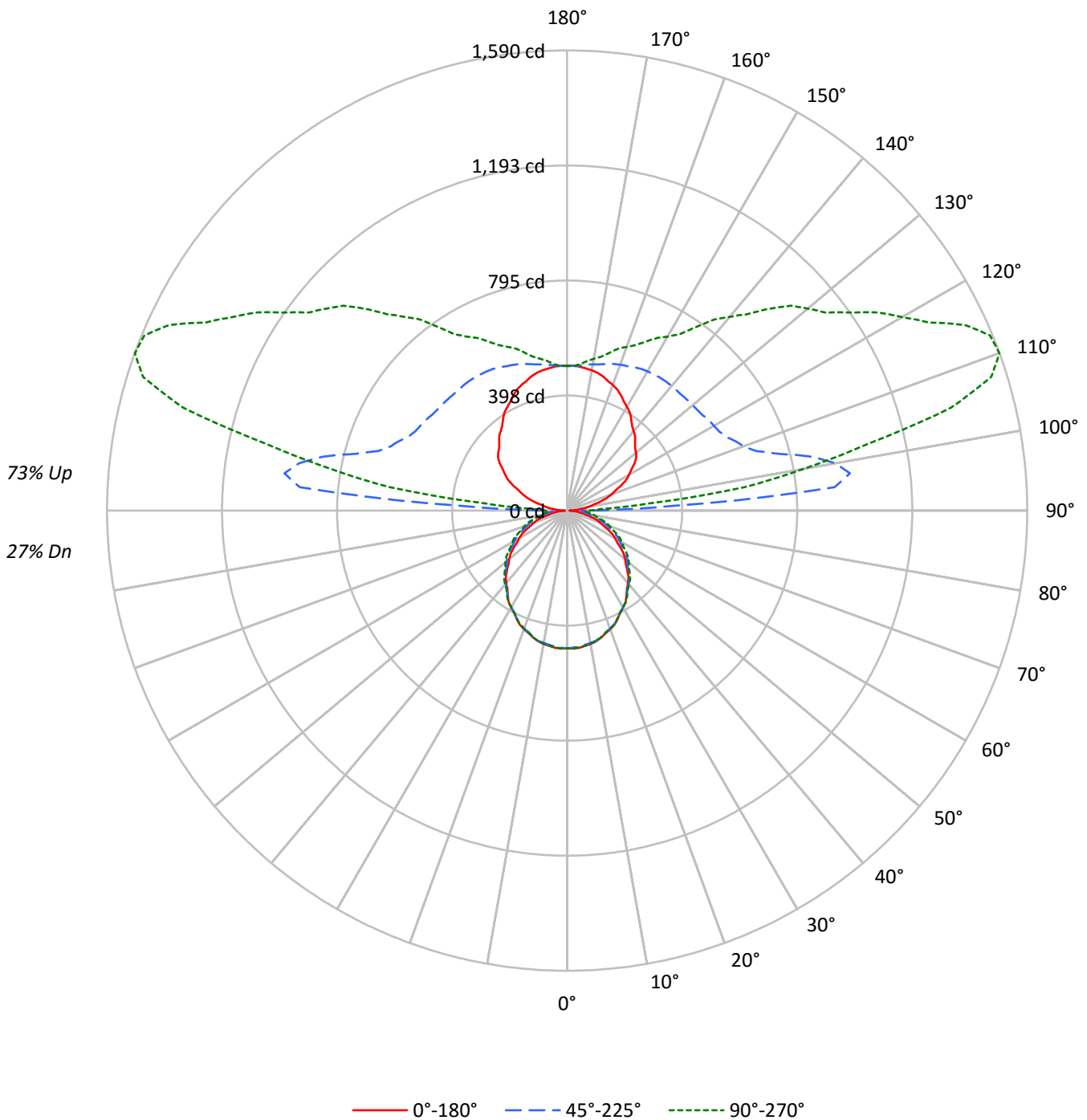
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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	2.4
20°-30°	190.0	3.6
30°-40°	225.1	4.3
40°-50°	232.7	4.5
50°-60°	214.4	4.1
60°-70°	173.3	3.3
70°-80°	116.1	2.2
80°-90°	63.0	1.2
90°-100°	396.2	7.6
100°-110°	804.0	15.4
110°-120°	747.9	14.3
120°-130°	602.1	11.5
130°-140°	479.7	9.2
140°-150°	359.7	6.9
150°-160°	252.6	4.8
160°-170°	148.9	2.8
170°-180°	48.4	0.9
0°-30°	362.8	6.9
0°-40°	587.9	11.2
0°-60°	1035.1	19.8
0°-90°	1387.4	26.5
90°-120°	1948.2	37.3
90°-150°	3389.6	64.8
90°-180°	3840.0	73.5
0°-180°	5227.0	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	32	54	70	75	7
95°	39	117	927	449	284	40
105°	118	171	757	1474	1374	125
115°	206	252	605	1291	1517	203
125°	284	333	573	1024	1193	252
135°	332	398	562	853	986	257
145°	386	441	560	700	772	241
155°	440	473	546	618	644	202
165°	480	493	524	556	564	135
175°	499	499	503	509	507	47
180°	500	500	500	500	500	



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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	18.3	22.0	25.8	29.5	33.3	37.0	40.9	44.6	48.6	51.2
90°	8.5	12.8	18.2	23.4	28.8	34.2	38.8	44.3	48.9	54.4	57.8
92.5°	19.0	24.7	36.3	51.8	72.2	105.0	163.7	259.6	363.5	361.8	302.2
95°	39.4	43.0	53.8	67.6	92.5	141.0	252.4	477.7	759.4	927.3	910.4
97.5°	60.8	64.4	72.5	85.9	108.4	143.9	218.7	384.7	679.1	985.6	1139.8
100°	75.7	79.9	86.1	99.4	120.7	153.7	215.5	349.8	607.2	940.2	1194.4
102.5°	92.3	95.5	100.7	114.6	134.2	166.2	221.5	334.9	552.6	862.1	1158.9
105°	118.2	119.8	126.4	138.3	156.0	186.6	234.1	326.9	498.4	756.6	1047.9
107.5°	143.4	146.8	153.0	162.7	180.9	208.4	254.4	334.2	474.5	683.6	935.2
110°	161.6	164.8	170.1	180.4	196.7	225.1	269.3	341.7	466.7	648.9	870.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.1	183.1	187.3	197.4	213.5	240.9	283.4	351.7	465.2	628.1	822.3
115°	206.4	209.1	213.0	222.8	238.5	265.5	305.5	366.7	466.2	604.9	769.1
117.5°	230.1	233.7	237.4	246.9	264.6	290.4	328.3	384.1	470.7	592.4	736.3
120°	246.3	249.6	254.0	263.4	280.8	307.4	345.1	395.8	475.8	586.0	717.9
122.5°	262.9	265.2	268.6	277.8	296.7	323.2	360.7	409.0	480.1	580.6	701.8
125°	284.2	286.1	290.9	299.9	319.0	346.2	381.5	427.0	487.6	573.3	679.7
127.5°	300.4	303.4	309.7	321.0	341.3	368.3	402.1	443.7	496.4	568.7	659.3
130°	310.9	313.8	321.7	334.8	355.9	382.7	415.5	455.1	502.0	565.9	646.0
132.5°	318.6	322.3	332.0	346.8	368.7	395.5	427.9	464.8	508.1	564.5	634.9
135°	331.6	335.5	347.5	363.6	384.7	412.1	444.1	478.1	516.1	562.2	621.1
137.5°	348.0	350.9	362.1	378.2	398.9	427.1	455.9	488.1	523.9	561.8	608.9
140°	357.4	360.3	372.4	388.6	407.8	435.0	464.3	494.7	527.0	561.5	602.9
142.5°	368.6	370.7	381.9	398.0	416.3	441.8	469.5	498.2	528.9	561.5	597.9
145°	385.6	387.5	397.5	411.4	429.5	452.6	478.9	504.0	531.3	560.5	591.3
147.5°	402.8	404.0	412.7	425.9	441.5	461.9	484.9	507.7	532.3	557.8	584.7
150°	413.3	415.4	422.4	435.6	449.6	466.8	489.0	510.1	532.3	555.4	579.7
152.5°	424.6	425.9	432.1	443.5	456.9	472.4	493.0	511.7	531.5	552.3	574.0
155°	439.5	439.5	445.6	455.7	465.7	479.9	497.0	513.1	529.3	546.4	564.5
157.5°	452.8	452.6	457.5	466.2	475.0	485.7	500.4	514.1	526.6	540.4	555.6
160°	461.7	460.7	464.7	471.8	479.9	489.0	502.0	514.1	524.2	536.3	548.5
162.5°	469.0	468.0	472.0	478.3	484.7	492.2	503.6	513.3	521.8	531.5	542.0
165°	479.9	477.9	480.9	485.9	490.0	496.0	504.0	512.1	518.2	524.2	532.3
167.5°	487.2	486.1	488.0	490.8	493.6	497.4	504.0	509.7	512.5	517.2	522.8
170°	492.0	491.0	492.0	494.0	496.0	499.0	504.0	508.1	510.1	513.1	517.2
172.5°	495.2	493.4	494.4	496.3	497.6	499.0	503.2	506.4	506.9	508.3	511.5
175°	499.0	497.0	498.0	499.0	499.0	499.0	502.0	504.0	503.0	503.0	504.0
177.5°	500.8	499.2	499.2	500.0	499.2	499.2	500.8	501.6	500.0	500.0	500.8
180°	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0



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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°	53.7	56.4	59.0	60.9	61.6	62.3	63.3	64.0
90°	61.2	64.6	68.0	71.5	72.3	73.0	74.7	75.4
92.5°	220.0	173.3	143.6	130.2	118.0	116.3	115.6	114.7
95°	763.5	612.5	490.8	407.6	336.8	307.3	299.9	284.5
97.5°	1115.6	1010.3	891.7	775.4	713.8	658.0	629.5	617.3
100°	1274.2	1227.0	1125.3	1021.9	952.9	881.0	844.3	828.8
102.5°	1326.6	1359.2	1311.4	1241.8	1168.0	1117.0	1077.1	1065.7
105°	1292.0	1432.2	1478.6	1468.9	1437.3	1404.8	1385.4	1374.0
107.5°	1176.0	1362.3	1478.3	1532.3	1549.2	1549.6	1543.7	1536.2
110°	1090.5	1283.9	1428.1	1515.1	1561.3	1581.0	1588.9	1589.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1022.7	1206.4	1352.1	1454.4	1521.5	1555.0	1573.3	1581.2
115°	937.4	1095.4	1235.4	1346.6	1425.8	1474.8	1503.7	1517.4
117.5°	881.2	1017.6	1138.4	1240.4	1319.8	1370.5	1399.3	1408.0
120°	850.7	973.4	1086.1	1176.0	1251.2	1300.2	1328.1	1336.8
122.5°	827.3	941.1	1041.6	1125.8	1193.0	1237.9	1265.8	1273.6
125°	793.3	897.8	987.1	1060.9	1117.8	1159.7	1182.3	1193.0
127.5°	758.7	856.2	939.6	1008.6	1060.4	1097.5	1119.0	1124.1
130°	737.2	827.4	907.5	974.0	1024.9	1058.7	1079.3	1085.9
132.5°	715.6	800.1	872.9	937.0	987.8	1021.5	1040.5	1047.8
135°	686.9	757.8	823.6	882.1	927.0	960.8	979.4	985.9
137.5°	662.8	720.2	775.2	824.8	864.8	895.5	912.7	919.8
140°	649.4	697.9	745.5	788.6	826.3	852.9	868.5	873.9
142.5°	637.8	678.9	719.8	757.2	789.3	811.9	826.7	831.3
145°	623.1	654.8	686.6	714.3	738.9	756.4	767.9	772.3
147.5°	609.5	635.0	659.1	679.9	699.2	713.2	719.8	721.8
150°	601.9	624.0	643.2	661.4	676.6	688.8	693.0	694.1
152.5°	593.8	613.5	631.1	645.2	657.9	667.6	671.7	672.7
155°	581.7	597.8	612.0	623.0	633.1	640.2	643.2	644.2
157.5°	569.6	582.9	593.8	602.5	610.4	616.1	618.9	618.7
160°	561.5	571.6	581.7	588.8	595.8	600.9	602.9	601.9
162.5°	552.7	561.9	570.4	576.6	582.1	586.3	586.7	586.5
165°	540.4	547.4	553.5	558.5	562.5	564.5	564.5	564.5
167.5°	528.7	533.3	538.0	541.6	543.6	545.4	544.6	544.4
170°	522.2	525.2	528.3	530.3	532.3	533.3	533.3	532.3
172.5°	514.9	518.0	520.2	521.4	521.8	523.6	522.0	521.0
175°	507.1	507.1	509.1	509.1	509.1	510.1	508.1	507.1
177.5°	501.6	502.4	502.4	502.4	501.6	502.4	500.0	500.0
180°	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0

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