

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: P333146-927

Luminaire Tested: **S125DIP-S375D1035U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333146-927
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-S375D1035U927-4F0-1E-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: 3994.7 lumens
Efficiency: N/A
Efficacy: 107.1 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

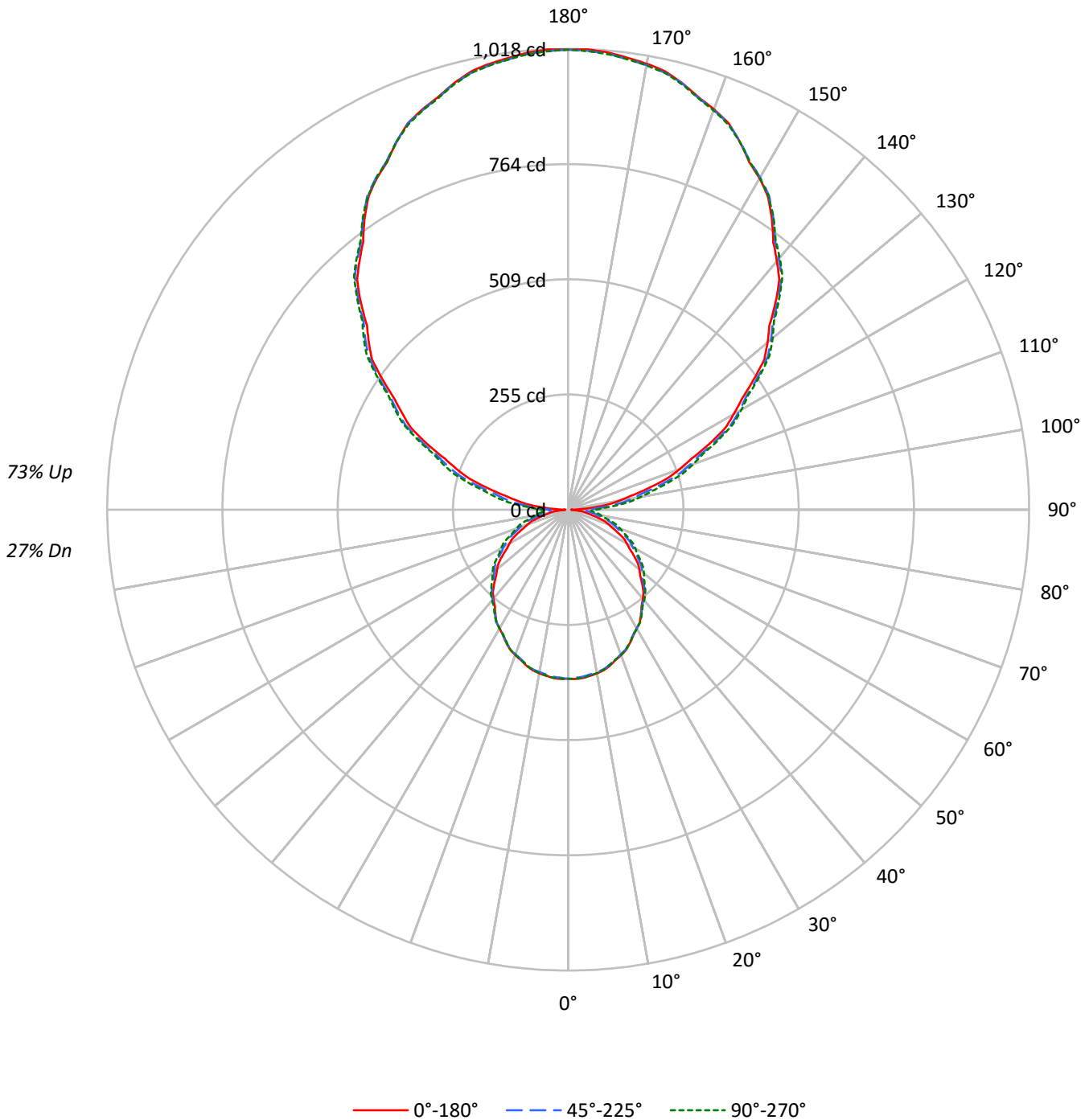
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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	0.9
10°-20°	100.2	2.5
20°-30°	149.1	3.7
30°-40°	176.6	4.4
40°-50°	182.6	4.6
50°-60°	168.2	4.2
60°-70°	135.9	3.4
70°-80°	91.0	2.3
80°-90°	49.4	1.2
90°-100°	94.6	2.4
100°-110°	220.5	5.5
110°-120°	353.6	8.9
120°-130°	455.5	11.4
130°-140°	505.3	12.6
140°-150°	492.7	12.3
150°-160°	413.3	10.3
160°-170°	274.7	6.9
170°-180°	96.1	2.4
0°-30°	284.6	7.1
0°-40°	461.2	11.5
0°-60°	812.0	20.3
0°-90°	1088.4	27.2
90°-120°	668.6	16.7
90°-150°	2122.2	53.1
90°-180°	2906.0	72.7
0°-180°	3994.7	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	25	43	55	60	7
95°	56	68	88	101	105	59
105°	184	194	209	221	226	196
115°	343	349	360	365	367	339
125°	499	504	511	516	517	447
135°	648	652	655	660	659	499
145°	784	787	789	791	790	490
155°	897	897	898	900	897	413
165°	975	974	974	977	973	275
175°	1014	1011	1011	1015	1010	96
180°	1016	1016	1016	1016	1016	



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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	14.5	17.3	20.2	23.1	26.1	29.1	32.1	35.1	38.1	40.2
90°	6.7	10.7	14.7	18.7	22.7	26.7	30.7	34.7	38.7	42.7	45.4
92.5°	24.4	27.8	31.2	34.6	37.9	41.8	46.2	50.5	54.9	59.3	62.2
95°	56.2	58.6	61.1	63.5	66.1	69.6	74.1	78.6	83.1	87.6	90.6
97.5°	89.8	91.8	93.8	95.9	97.9	101.5	106.5	111.7	116.8	121.8	124.7
100°	114.8	116.5	118.2	119.9	121.6	124.8	129.8	134.7	139.6	144.4	147.7
102.5°	141.6	143.9	146.2	148.5	150.8	153.8	157.5	161.2	164.9	168.6	171.9
105°	183.6	185.8	188.0	190.1	192.3	195.2	198.7	202.2	205.7	209.1	211.8
107.5°	230.0	232.0	233.9	235.9	238.0	240.5	243.7	246.8	249.9	253.1	255.2
110°	262.0	263.8	265.7	267.5	269.4	271.7	274.5	277.3	280.1	283.0	285.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	294.9	296.1	297.4	298.6	299.8	301.9	304.8	307.6	310.5	313.4	315.1
115°	343.1	344.4	345.6	346.9	348.2	350.0	352.5	355.0	357.4	359.9	361.2
117.5°	391.4	392.1	392.8	393.5	394.2	395.7	398.0	400.3	402.7	405.0	406.5
120°	421.8	422.9	424.1	425.2	426.3	427.9	429.9	432.0	434.0	436.0	437.4
122.5°	454.4	454.8	455.3	455.7	456.1	457.5	459.7	462.0	464.2	466.5	467.7
125°	498.9	499.9	500.9	501.8	502.8	504.2	506.0	507.8	509.6	511.4	512.4
127.5°	546.1	546.5	547.1	547.6	548.1	549.1	550.6	552.2	553.7	555.3	556.3
130°	574.5	575.3	576.1	576.9	577.7	578.8	580.3	581.8	583.3	584.8	585.7
132.5°	602.7	604.1	605.5	607.0	608.4	609.5	610.3	611.1	611.9	612.7	613.7
135°	647.7	648.6	649.6	650.6	651.6	652.4	653.2	653.9	654.7	655.4	656.5
137.5°	690.0	690.9	691.9	692.8	693.8	694.6	695.3	695.9	696.6	697.3	698.5
140°	716.9	717.8	718.7	719.5	720.4	721.1	721.8	722.4	722.9	723.6	724.8
142.5°	744.1	744.8	745.4	746.2	746.8	747.5	748.1	748.8	749.6	750.2	751.2
145°	784.1	784.7	785.4	786.0	786.6	787.2	787.7	788.2	788.8	789.3	789.7
147.5°	820.8	821.2	821.6	822.0	822.3	822.8	823.2	823.6	823.9	824.4	825.0
150°	845.4	845.3	845.1	844.9	844.8	845.0	845.7	846.4	847.1	847.8	847.8
152.5°	865.7	865.9	866.2	866.4	866.6	867.0	867.2	867.5	867.8	868.1	868.5
155°	896.8	896.8	896.8	896.8	896.8	896.9	897.1	897.3	897.5	897.6	898.3
157.5°	924.7	924.3	923.9	923.5	923.1	923.1	923.2	923.4	923.6	923.8	924.5
160°	941.1	940.6	940.1	939.5	939.1	938.9	939.1	939.2	939.4	939.5	940.2
162.5°	955.7	955.3	954.9	954.5	954.2	953.9	954.0	954.0	954.1	954.1	955.0
165°	975.2	974.8	974.5	974.1	973.8	973.7	973.8	974.0	974.1	974.4	975.1
167.5°	991.6	990.9	990.2	989.5	988.8	988.4	988.4	988.4	988.4	988.4	989.5
170°	1000.4	999.7	999.0	998.4	997.7	997.3	997.3	997.3	997.3	997.3	998.4
172.5°	1006.8	1006.1	1005.4	1004.6	1004.0	1003.6	1003.6	1003.6	1003.6	1003.6	1004.6
175°	1013.9	1013.2	1012.5	1011.8	1011.1	1010.7	1010.7	1010.7	1010.7	1010.7	1011.8
177.5°	1017.6	1017.0	1016.4	1015.8	1015.3	1014.9	1014.8	1014.6	1014.5	1014.4	1015.3
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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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°	42.2	44.3	46.3	47.7	48.3	49.0	49.7	50.4
90°	48.2	50.9	53.7	55.6	56.7	57.8	58.9	60.0
92.5°	65.1	68.1	71.1	73.0	74.0	74.9	75.9	76.8
95°	93.6	96.6	99.7	101.6	102.6	103.5	104.4	105.4
97.5°	127.6	130.5	133.3	135.1	135.9	136.7	137.4	138.2
100°	151.0	154.3	157.6	159.6	160.5	161.4	162.2	163.0
102.5°	175.3	178.6	182.0	184.2	185.2	186.2	187.1	188.1
105°	214.5	217.2	219.9	221.8	222.8	223.9	225.1	226.2
107.5°	257.4	259.5	261.7	263.0	263.4	263.9	264.4	264.8
110°	287.1	289.1	291.2	292.5	292.9	293.3	293.7	294.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	316.9	318.6	320.3	321.3	321.5	321.8	322.1	322.3
115°	362.5	363.8	365.0	365.8	366.1	366.5	366.8	367.1
117.5°	408.0	409.6	411.1	411.7	411.6	411.5	411.3	411.1
120°	438.8	440.2	441.6	442.2	442.0	441.7	441.5	441.3
122.5°	468.9	470.1	471.2	471.7	471.7	471.7	471.6	471.5
125°	513.3	514.3	515.2	515.8	516.0	516.3	516.5	516.7
127.5°	557.4	558.4	559.4	560.0	560.1	560.2	560.3	560.5
130°	586.7	587.6	588.7	589.1	589.2	589.2	589.3	589.4
132.5°	614.7	615.6	616.6	617.0	616.8	616.6	616.6	616.4
135°	657.5	658.5	659.7	660.0	659.7	659.4	659.1	658.9
137.5°	699.6	700.8	702.0	702.3	701.7	701.2	700.6	700.1
140°	726.1	727.3	728.6	728.9	728.4	727.9	727.3	726.7
142.5°	752.2	753.1	754.1	754.3	753.8	753.2	752.7	752.1
145°	790.1	790.5	790.9	791.0	790.8	790.6	790.4	790.2
147.5°	825.5	826.1	826.6	826.4	825.3	824.3	823.2	822.2
150°	847.8	847.8	847.8	847.7	847.4	847.2	846.8	846.6
152.5°	868.9	869.3	869.7	869.7	869.0	868.4	867.8	867.2
155°	899.0	899.8	900.5	900.4	899.5	898.6	897.7	896.8
157.5°	925.1	925.8	926.5	926.3	925.2	924.0	922.8	921.7
160°	941.0	941.7	942.4	942.3	941.4	940.6	939.7	938.7
162.5°	955.8	956.6	957.5	957.4	956.4	955.4	954.3	953.3
165°	975.7	976.4	977.2	977.0	976.0	974.9	973.8	972.8
167.5°	990.5	991.6	992.7	992.6	991.6	990.5	989.4	988.2
170°	999.4	1000.4	1001.5	1001.4	1000.2	998.9	997.8	996.5
172.5°	1005.8	1006.8	1007.8	1007.8	1006.7	1005.7	1004.6	1003.5
175°	1012.9	1013.9	1014.9	1014.9	1013.7	1012.4	1011.1	1010.0
177.5°	1016.1	1016.9	1017.7	1017.7	1016.7	1015.7	1014.7	1013.8
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3

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