

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: P333156-935

Luminaire Tested: **S125DIP-S375D1205U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333156-935
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-S375D1205U935-4F0-1E-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: 4981.1 lumens
Efficiency: N/A
Efficacy: 118.0 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

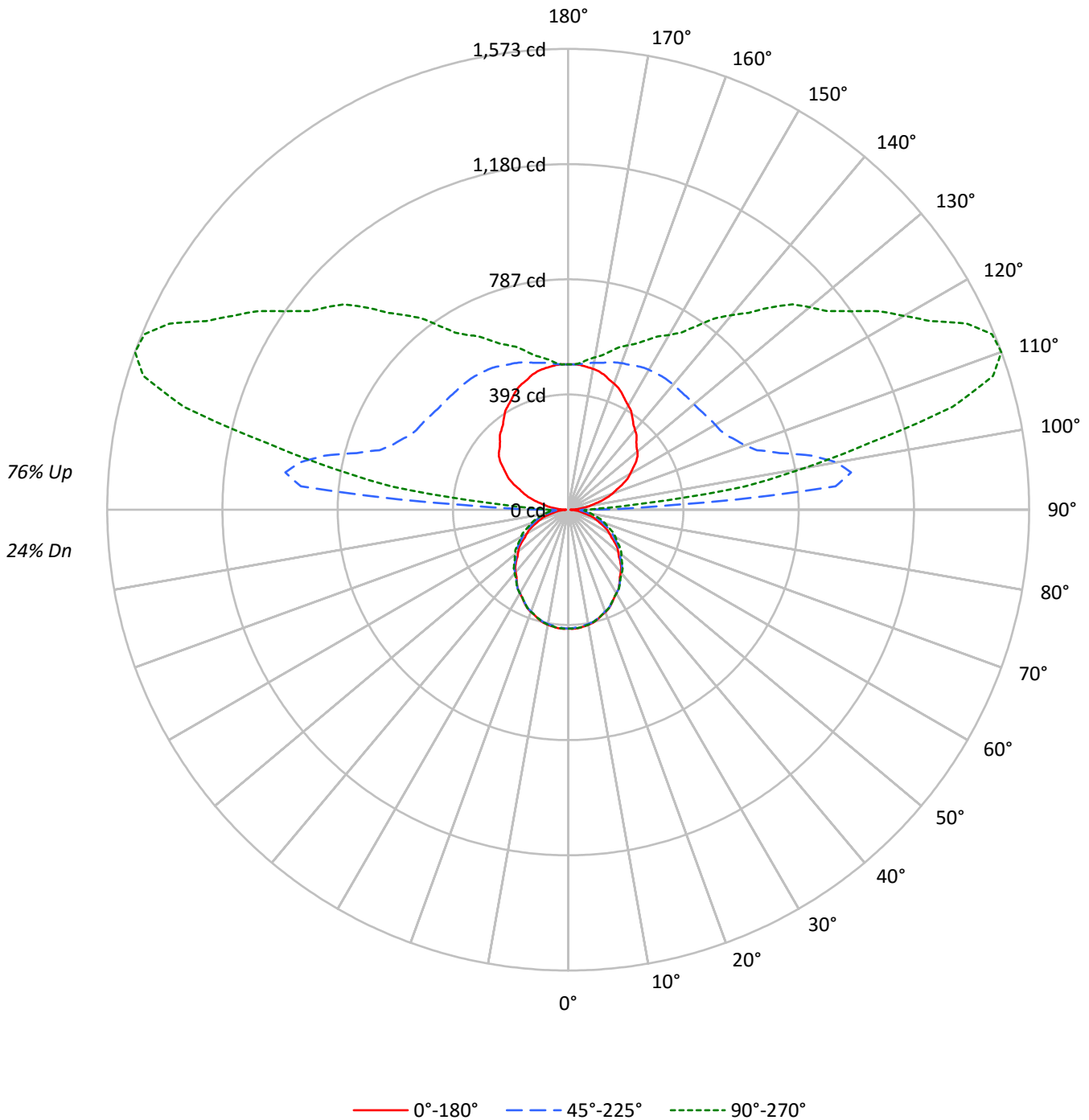
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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	0.8
10°-20°	108.9	2.2
20°-30°	162.0	3.3
30°-40°	191.9	3.9
40°-50°	198.4	4.0
50°-60°	182.8	3.7
60°-70°	147.8	3.0
70°-80°	99.0	2.0
80°-90°	54.1	1.1
90°-100°	388.5	7.8
100°-110°	794.4	15.9
110°-120°	739.9	14.9
120°-130°	596.2	12.0
130°-140°	475.5	9.5
140°-150°	356.9	7.2
150°-160°	250.7	5.0
160°-170°	147.8	3.0
170°-180°	48.1	1.0
0°-30°	309.4	6.2
0°-40°	501.3	10.1
0°-60°	882.5	17.7
0°-90°	1183.3	23.8
90°-120°	1922.8	38.6
90°-150°	3351.3	67.3
90°-180°	3798.0	76.2
0°-180°	4981.1	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	28	49	62	68	6
95°	38	113	915	440	276	39
105°	117	168	747	1458	1358	123
115°	204	249	598	1278	1502	201
125°	282	330	567	1014	1181	250
135°	329	395	557	845	977	255
145°	382	438	556	695	766	240
155°	436	469	542	613	639	201
165°	476	489	520	552	560	134
175°	495	495	499	505	503	47
180°	496	496	496	496	496	



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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°	12.7	15.7	18.9	22.1	25.3	28.7	31.9	35.3	38.5	41.8	44.1
90°	7.4	11.2	16.0	20.8	25.7	30.6	34.6	39.6	43.7	48.6	51.7
92.5°	17.9	23.2	34.2	49.2	69.1	101.1	158.8	253.5	356.0	353.9	294.5
95°	38.2	41.5	51.8	65.1	89.4	137.1	247.1	470.2	749.3	915.4	898.4
97.5°	59.5	62.8	70.4	83.5	105.4	140.3	214.0	378.2	670.0	973.7	1126.4
100°	74.4	78.3	84.1	96.9	117.9	150.2	211.0	344.0	598.9	928.8	1180.9
102.5°	90.9	93.8	98.8	112.3	131.4	162.8	217.2	329.2	544.8	851.5	1145.9
105°	116.7	118.0	124.5	135.9	153.3	183.4	230.1	321.8	491.5	747.2	1036.1
107.5°	141.8	145.0	150.9	160.4	178.2	205.3	250.5	329.2	468.0	675.1	924.5
110°	159.9	162.9	168.0	178.1	194.2	221.9	265.4	336.9	460.5	641.0	860.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	178.2	181.2	185.2	195.0	210.9	237.7	279.6	347.0	459.3	620.5	813.0
115°	204.5	207.1	210.7	220.3	236.0	262.4	301.8	362.1	460.4	597.8	760.4
117.5°	228.1	231.5	235.1	244.5	261.9	287.4	324.6	379.6	465.2	585.7	728.2
120°	244.1	247.4	251.7	260.9	278.2	304.4	341.4	391.4	470.5	579.6	710.2
122.5°	260.6	262.9	266.2	275.3	294.1	320.1	357.1	404.7	474.9	574.3	694.4
125°	281.7	283.6	288.5	297.5	316.4	343.2	378.0	422.8	482.6	567.4	672.9
127.5°	297.9	300.8	307.1	318.5	338.6	365.3	398.6	439.6	491.7	563.2	652.9
130°	308.3	311.3	319.2	332.1	353.0	379.6	411.8	451.1	497.3	560.6	639.9
132.5°	316.0	319.8	329.4	344.0	365.8	392.3	424.2	460.8	503.6	559.3	629.0
135°	328.9	332.9	344.7	360.7	381.6	408.9	440.5	474.2	511.8	557.4	615.6
137.5°	345.3	348.2	359.3	375.3	395.8	423.7	452.3	484.1	519.7	557.2	603.8
140°	354.6	357.6	369.5	385.6	404.6	431.6	460.7	490.9	523.0	557.1	598.1
142.5°	365.8	367.9	379.0	394.9	413.1	438.5	465.9	494.4	524.8	557.2	593.2
145°	382.5	384.5	394.4	408.3	426.2	449.2	475.2	500.2	527.3	556.2	586.7
147.5°	399.8	401.0	409.6	422.6	438.2	458.4	481.2	503.9	528.2	553.6	580.2
150°	410.2	412.2	419.2	432.2	446.2	463.2	485.2	506.3	528.2	551.2	575.2
152.5°	421.4	422.6	428.8	440.2	453.4	468.8	489.2	507.8	527.4	548.0	569.6
155°	436.2	436.2	442.2	452.2	462.2	476.2	493.2	509.2	525.2	542.3	560.3
157.5°	449.4	449.2	454.0	462.6	471.4	482.0	496.6	510.2	522.6	536.2	551.5
160°	458.2	457.2	461.2	468.2	476.2	485.2	498.3	510.2	520.2	532.3	544.2
162.5°	465.4	464.4	468.4	474.6	481.0	488.4	499.8	509.5	517.8	527.4	537.9
165°	476.2	474.2	477.3	482.2	486.2	492.2	500.2	508.2	514.2	520.2	528.2
167.5°	483.5	482.4	484.2	487.0	489.8	493.6	500.2	505.8	508.6	513.2	518.8
170°	488.2	487.2	488.2	490.3	492.2	495.2	500.2	504.2	506.3	509.2	513.2
172.5°	491.5	489.7	490.6	492.6	493.8	495.2	499.4	502.7	503.0	504.5	507.6
175°	495.2	493.2	494.2	495.2	495.2	495.2	498.3	500.2	499.2	499.2	500.2
177.5°	497.1	495.4	495.4	496.2	495.4	495.4	497.1	497.8	496.2	496.2	497.1
180°	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2



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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°	46.3	48.6	50.8	52.5	53.1	53.8	54.6	55.2
90°	54.7	57.8	60.8	64.1	64.7	65.3	67.0	67.6
92.5°	212.6	165.9	136.0	122.5	110.4	108.6	107.8	106.8
95°	752.3	602.1	481.0	398.3	327.9	298.4	291.1	275.7
97.5°	1102.1	997.3	879.3	763.6	702.4	647.0	618.5	606.4
100°	1259.7	1212.5	1111.4	1008.5	940.0	868.5	832.1	816.6
102.5°	1311.9	1343.9	1296.3	1227.0	1153.7	1103.0	1063.3	1051.9
105°	1278.0	1416.8	1462.6	1452.8	1421.4	1389.0	1369.6	1358.2
107.5°	1163.2	1347.8	1462.6	1516.0	1532.8	1533.1	1527.1	1519.6
110°	1078.6	1270.3	1413.1	1499.3	1544.9	1564.5	1572.1	1572.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1011.5	1193.6	1337.8	1439.2	1505.6	1538.9	1556.9	1564.8
115°	927.1	1083.7	1222.4	1332.6	1411.1	1459.7	1488.2	1501.8
117.5°	871.8	1006.9	1126.5	1227.6	1306.2	1356.5	1384.9	1393.5
120°	841.7	963.3	1074.8	1163.9	1238.5	1287.0	1314.6	1323.1
122.5°	818.7	931.3	1030.9	1114.2	1180.9	1225.4	1252.9	1260.7
125°	785.3	888.8	977.2	1050.2	1106.6	1148.1	1170.6	1181.0
127.5°	751.3	847.8	930.4	998.7	1050.1	1086.8	1108.1	1113.0
130°	730.1	819.4	898.7	964.6	1015.0	1048.5	1068.9	1075.4
132.5°	708.9	792.6	864.6	928.1	978.4	1011.8	1030.6	1037.8
135°	680.8	751.0	816.1	874.0	918.4	951.9	970.3	976.8
137.5°	657.1	714.0	768.3	817.3	857.1	887.5	904.5	911.5
140°	644.0	692.0	739.0	781.7	819.1	845.4	860.8	866.2
142.5°	632.7	673.4	713.8	750.8	782.6	804.9	819.5	824.1
145°	618.2	649.6	681.1	708.5	732.9	750.2	761.6	765.9
147.5°	604.8	630.1	654.0	674.6	693.8	707.6	714.1	716.1
150°	597.3	619.3	638.3	656.3	671.4	683.5	687.6	688.7
152.5°	589.3	608.9	626.3	640.3	652.9	662.5	666.6	667.6
155°	577.2	593.2	607.3	618.3	628.3	635.2	638.3	639.3
157.5°	565.2	578.4	589.3	597.9	605.6	611.5	614.2	614.1
160°	557.2	567.2	577.2	584.3	591.2	596.2	598.3	597.3
162.5°	548.5	557.7	566.0	572.2	577.6	581.9	582.3	582.0
165°	536.2	543.2	549.2	554.2	558.3	560.3	560.3	560.3
167.5°	524.6	529.3	533.8	537.4	539.4	541.2	540.4	540.3
170°	518.2	521.2	524.3	526.2	528.2	529.3	529.3	528.2
172.5°	511.0	514.0	516.3	517.5	517.8	519.6	518.1	517.0
175°	503.3	503.3	505.2	505.2	505.2	506.3	504.2	503.3
177.5°	497.8	498.6	498.6	498.6	497.8	498.6	496.2	496.2
180°	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2

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