

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: P333192

Luminaire Tested: **S125DIP-S610D1035U835-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333192
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-S610D1035U835-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 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: 6116.3 lumens
Efficiency: N/A
Efficacy: 137.4 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

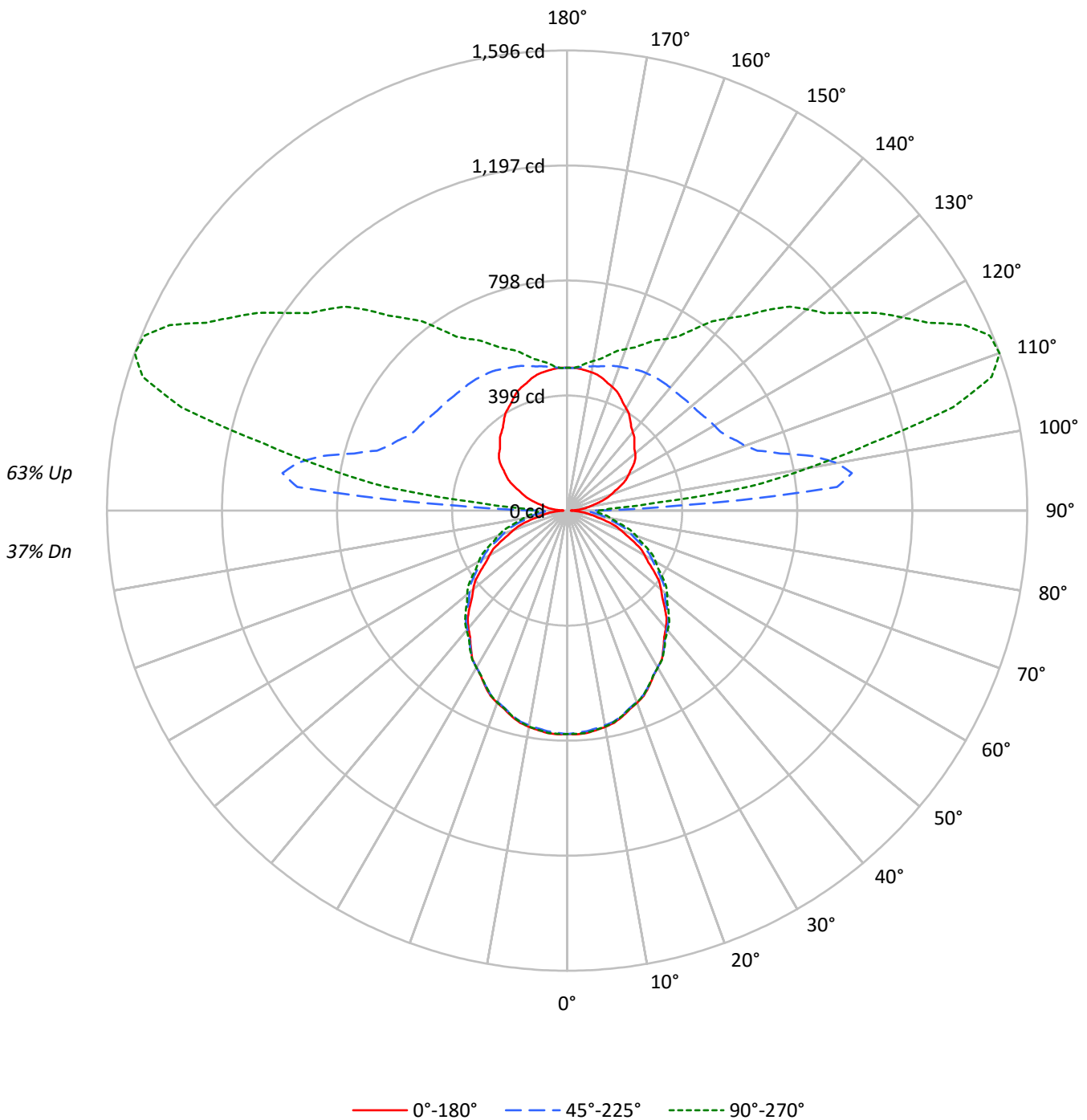
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36	30
2	86	78	72	67	77	71	66	61	57	53	50	45	42	40	33	31	30	25
3	78	68	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	21
4	71	60	52	46	64	55	48	43	45	39	35	35	31	28	26	24	22	18
5	65	54	46	40	59	49	42	36	40	34	30	31	27	24	23	21	19	15
6	60	48	40	34	54	44	37	31	36	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	26	22	19	19	17	14	12
8	51	39	31	26	46	36	29	24	29	24	20	23	19	17	18	15	13	10
9	48	36	28	23	43	33	26	21	27	22	18	21	18	15	16	14	12	9
10	44	33	25	21	40	30	23	19	25	20	16	20	16	13	15	12	11	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5005	5005	5005
5°	5015	4912	4928
10°	4980	4825	4817
15°	4920	4720	4677
20°	4840	4590	4536
25°	4745	4451	4363
30°	4630	4298	4206
35°	4523	4158	4062
40°	4413	4010	3916
45°	4289	3884	3788
50°	4172	3746	3674
55°	4029	3616	3540
60°	3875	3468	3404
65°	3713	3314	3250
70°	3527	3103	3093
75°	3237	2899	2899
80°	2857	2653	2687
85°	2502	2488	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.2
10°-20°	208.0	3.4
20°-30°	309.4	5.1
30°-40°	366.5	6.0
40°-50°	378.9	6.2
50°-60°	349.0	5.7
60°-70°	282.1	4.6
70°-80°	189.0	3.1
80°-90°	100.7	1.6
90°-100°	413.9	6.8
100°-110°	812.1	13.3
110°-120°	751.2	12.3
120°-130°	602.2	9.8
130°-140°	477.7	7.8
140°-150°	356.7	5.8
150°-160°	250.2	4.1
160°-170°	147.4	2.4
170°-180°	48.0	0.8
0°-30°	590.7	9.7
0°-40°	957.1	15.6
0°-60°	1685.1	27.6
0°-90°	2256.9	36.9
90°-120°	1977.2	32.3
90°-150°	3413.8	55.8
90°-180°	3859.0	63.1
0°-180°	6116.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	773	768	774	774	73
15°	740	740	736	740	737	208
25°	672	674	670	673	669	309
35°	582	587	585	587	587	364
45°	479	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	300	304	252
75°	140	160	184	198	203	148
85°	42	67	94	110	116	45
90°	13	46	78	100	108	10
95°	43	127	940	473	312	43
105°	120	177	766	1481	1385	126
115°	206	254	611	1295	1521	203
125°	283	331	574	1025	1194	251
135°	329	395	559	851	984	255
145°	382	437	555	695	768	239
155°	435	468	541	611	638	200
165°	475	488	519	551	559	134
175°	494	494	498	504	502	47
180°	495	495	495	495	495	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	776.8	776.5	776.3	776.0	775.7	775.1	774.2	773.2	772.3	771.3	772.3
5°	775.0	774.6	774.3	774.0	773.6	772.9	771.7	770.5	769.3	768.1	769.5
7.5°	768.1	768.0	767.9	767.7	767.6	766.9	765.7	764.5	763.3	762.1	763.2
10°	762.1	762.1	762.1	762.1	762.1	761.4	760.0	758.7	757.3	756.0	757.2
12.5°	753.6	753.7	753.8	754.0	754.1	753.6	752.5	751.5	750.4	749.3	750.2
15°	740.0	740.2	740.4	740.5	740.7	740.2	739.0	737.8	736.7	735.5	736.5
17.5°	722.4	722.7	723.1	723.4	723.8	723.3	722.2	721.0	719.8	718.6	719.4
20°	709.6	710.0	710.3	710.7	711.0	710.6	709.4	708.2	707.0	705.8	706.3
22.5°	695.1	695.7	696.3	696.9	697.5	697.1	695.8	694.5	693.2	691.9	692.5
25°	672.4	672.9	673.4	673.9	674.4	674.2	673.2	672.2	671.1	670.1	670.8
27.5°	647.2	647.9	648.7	649.4	650.2	650.0	648.8	647.7	646.5	645.4	645.8
30°	628.3	629.4	630.4	631.4	632.4	632.4	631.4	630.4	629.4	628.3	628.7
32.5°	611.3	612.2	613.1	614.0	614.8	614.9	614.2	613.4	612.7	611.9	612.3
35°	582.0	583.2	584.4	585.5	586.7	587.1	586.6	586.0	585.5	585.0	585.5
37.5°	552.7	553.8	554.8	555.9	557.0	557.4	557.3	557.1	556.9	556.8	557.4
40°	532.6	534.0	535.3	536.7	538.0	538.6	538.4	538.3	538.1	537.9	538.6
42.5°	510.7	512.5	514.2	516.0	517.8	518.8	519.2	519.6	519.9	520.3	521.1
45°	479.4	481.3	483.1	485.0	486.9	488.2	489.1	489.9	490.7	491.6	492.8
47.5°	447.4	449.1	450.8	452.5	454.3	455.8	457.3	458.7	460.2	461.6	463.4
50°	425.5	427.3	429.2	431.1	432.9	434.8	436.6	438.5	440.3	442.2	444.1
52.5°	402.4	404.6	406.9	409.2	411.4	413.7	416.0	418.2	420.5	422.7	424.7
55°	368.5	371.2	373.9	376.6	379.3	382.0	384.7	387.4	390.1	392.8	394.7
57.5°	333.9	337.1	340.3	343.6	346.8	350.0	353.1	356.2	359.3	362.4	364.5
60°	310.8	314.1	317.5	320.9	324.3	327.6	331.0	334.4	337.8	341.1	343.7
62.5°	288.3	291.6	295.0	298.4	301.8	305.3	308.9	312.6	316.2	319.9	322.7
65°	253.8	257.7	261.5	265.4	269.3	273.3	277.3	281.4	285.4	289.5	292.0
67.5°	221.3	225.0	228.7	232.5	236.2	240.2	244.3	248.4	252.5	256.7	259.7
70°	197.5	201.4	205.3	209.2	213.1	217.2	221.6	226.0	230.4	234.8	238.0
72.5°	174.4	178.5	182.5	186.5	190.5	194.9	199.7	204.5	209.3	214.1	217.6
75°	139.8	144.2	148.6	153.0	157.4	162.3	167.7	173.1	178.5	183.9	187.2
77.5°	106.5	111.6	116.7	121.7	126.8	131.9	137.1	142.3	147.5	152.7	156.4
80°	85.9	90.9	96.0	101.1	106.1	111.5	117.3	123.0	128.7	134.5	138.2
82.5°	67.0	72.3	77.7	83.0	88.4	94.0	99.8	105.7	111.6	117.5	121.0
85°	41.8	47.4	52.9	58.5	64.1	69.8	75.7	81.6	87.5	93.5	97.2
87.5°	23.9	29.5	35.3	41.1	46.9	52.9	58.8	65.0	70.9	77.0	81.1
90°	13.2	19.6	27.0	34.4	41.8	49.3	56.1	63.8	70.5	78.3	83.2
92.5°	23.1	30.7	44.1	61.5	83.6	118.2	178.6	275.9	381.0	381.7	324.2
95°	42.8	48.2	60.6	76.0	102.3	152.3	264.9	490.2	771.5	939.9	924.7
97.5°	63.7	68.8	78.4	93.3	117.0	154.1	230.3	396.8	690.6	996.2	1150.3
100°	78.2	83.8	91.3	105.8	128.4	162.8	226.1	361.3	618.2	950.1	1203.2
102.5°	94.4	98.9	105.3	120.4	141.0	174.5	231.2	345.5	563.2	871.8	1167.1
105°	119.6	122.3	130.0	142.7	161.4	193.2	242.2	336.1	507.9	765.5	1055.4
107.5°	144.3	148.6	155.7	166.1	185.0	213.8	261.1	342.1	482.9	691.8	942.3
110°	162.0	166.1	172.1	183.1	200.1	229.4	275.1	348.7	474.2	656.6	877.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.4	184.0	188.8	199.5	216.0	244.3	288.2	357.7	471.9	635.0	828.6
115°	206.2	209.4	213.6	223.7	239.9	267.6	309.0	371.2	471.5	610.6	774.4
117.5°	229.4	233.2	237.2	246.9	264.7	291.3	330.4	387.2	474.6	596.8	740.4
120°	245.4	248.9	253.4	262.9	280.4	307.5	346.3	398.1	478.9	589.6	721.2
122.5°	261.5	264.0	267.4	276.6	295.4	322.4	361.1	410.3	482.2	583.2	704.3
125°	282.6	284.4	289.2	298.0	316.8	344.4	380.7	427.0	488.3	574.5	681.0
127.5°	298.4	301.2	307.4	318.6	338.6	365.9	400.4	442.7	496.0	568.6	659.4
130°	308.7	311.6	319.4	332.2	353.0	380.0	413.4	453.7	500.9	565.2	645.4
132.5°	316.1	319.9	329.4	344.0	365.7	392.6	425.3	462.7	506.2	562.8	633.4
135°	329.0	332.8	344.6	360.4	381.2	408.6	440.8	474.9	513.0	559.1	618.2
137.5°	345.2	348.0	359.1	374.9	395.3	423.3	452.0	484.2	519.9	557.6	605.1
140°	354.1	357.1	369.1	385.1	404.1	431.1	460.2	490.3	522.4	556.6	598.3
142.5°	365.3	367.4	378.4	394.3	412.3	437.6	465.0	493.4	523.8	556.1	592.9
145°	382.1	383.9	393.7	407.5	425.3	448.2	474.2	499.1	526.1	555.0	585.8
147.5°	398.9	400.1	408.7	421.7	437.2	457.4	480.2	502.7	527.1	552.4	579.1
150°	409.3	411.3	418.3	431.3	445.2	462.2	484.2	505.1	527.1	550.0	574.0
152.5°	420.5	421.7	427.9	439.2	452.4	467.8	488.2	506.7	526.3	546.9	568.4
155°	435.2	435.2	441.2	451.2	461.2	475.2	492.1	508.1	524.1	541.1	559.0
157.5°	448.4	448.2	453.0	461.6	470.4	481.0	495.5	509.1	521.5	535.1	550.2
160°	457.2	456.2	460.2	467.2	475.2	484.2	497.1	509.1	519.1	531.1	543.1
162.5°	464.4	463.4	467.4	473.6	480.0	487.4	498.7	508.3	516.7	526.3	536.7
165°	475.2	473.2	476.2	481.2	485.2	491.2	499.1	507.1	513.1	519.1	527.1
167.5°	482.4	481.4	483.2	486.0	488.8	492.5	499.1	504.7	507.5	512.1	517.7
170°	487.2	486.2	487.2	489.2	491.2	494.1	499.1	503.1	505.1	508.1	512.1
172.5°	490.4	488.6	489.6	491.5	492.7	494.1	498.3	501.5	501.9	503.3	506.5
175°	494.1	492.1	493.1	494.1	494.1	494.1	497.1	499.1	498.1	498.1	499.1
177.5°	495.9	494.3	494.3	495.1	494.3	494.3	495.9	496.7	495.1	495.1	495.9
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	773.2	774.2	775.1	775.5	775.4	775.3	775.1	775.0
5°	770.8	772.2	773.5	774.1	774.0	773.8	773.6	773.5
7.5°	764.4	765.6	766.8	767.3	767.1	767.0	766.8	766.6
10°	758.4	759.5	760.7	761.2	761.1	760.9	760.7	760.5
12.5°	751.1	752.0	753.0	753.2	752.7	752.3	751.9	751.4
15°	737.5	738.5	739.5	739.7	739.0	738.3	737.7	737.0
17.5°	720.2	720.9	721.7	721.9	721.5	721.1	720.7	720.3
20°	706.9	707.4	707.9	708.1	708.1	708.1	708.1	708.1
22.5°	693.1	693.8	694.4	694.5	694.1	693.7	693.3	692.9
25°	671.5	672.2	672.8	672.8	671.9	671.1	670.2	669.4
27.5°	646.3	646.8	647.3	647.3	647.0	646.7	646.4	646.1
30°	629.0	629.4	629.7	629.8	629.6	629.4	629.3	629.1
32.5°	612.6	612.9	613.3	613.4	613.2	613.0	612.9	612.7
35°	586.0	586.6	587.1	587.3	587.3	587.3	587.3	587.3
37.5°	558.1	558.8	559.5	559.8	559.7	559.6	559.6	559.5
40°	539.3	540.0	540.6	541.1	541.5	541.8	542.2	542.5
42.5°	521.9	522.7	523.5	524.0	524.1	524.1	524.2	524.3
45°	493.9	495.1	496.3	497.0	497.2	497.3	497.5	497.7
47.5°	465.1	466.8	468.5	469.6	470.0	470.3	470.7	471.1
50°	445.9	447.8	449.6	450.8	451.3	451.8	452.3	452.8
52.5°	426.7	428.7	430.7	431.9	432.3	432.6	433.0	433.4
55°	396.5	398.4	400.2	401.5	402.2	402.9	403.5	404.2
57.5°	366.7	368.8	370.9	372.2	372.8	373.3	373.8	374.3
60°	346.2	348.7	351.3	352.8	353.3	353.8	354.3	354.8
62.5°	325.5	328.3	331.1	332.8	333.4	334.1	334.7	335.4
65°	294.5	297.1	299.6	301.2	301.9	302.6	303.2	303.9
67.5°	262.8	265.9	268.9	270.9	271.8	272.7	273.6	274.4
70°	241.2	244.4	247.6	249.7	250.7	251.7	252.8	253.8
72.5°	221.1	224.5	228.0	230.1	230.9	231.6	232.4	233.1
75°	190.6	194.0	197.4	199.5	200.3	201.2	202.0	202.9
77.5°	160.1	163.9	167.6	169.8	170.4	171.1	171.8	172.5
80°	141.9	145.6	149.3	151.5	152.2	152.9	153.6	154.2
82.5°	124.6	128.2	131.8	134.2	135.4	136.6	137.8	139.0
85°	100.9	104.6	108.3	110.8	112.2	113.5	114.9	116.2
87.5°	85.2	89.3	93.4	96.3	97.5	98.7	100.1	101.2
90°	88.0	92.9	97.8	102.3	103.5	104.7	106.9	108.1
92.5°	244.3	199.5	171.5	159.2	147.6	146.4	146.2	145.7
95°	780.7	632.6	513.6	432.1	362.5	333.7	326.9	312.1
97.5°	1127.7	1024.8	908.8	794.5	734.0	679.2	651.4	639.8
100°	1283.6	1238.2	1138.9	1037.4	969.5	898.7	862.8	847.8
102.5°	1334.4	1368.0	1322.1	1254.0	1181.3	1131.2	1092.1	1081.1
105°	1298.4	1438.5	1485.8	1477.1	1446.4	1414.6	1395.8	1385.0
107.5°	1182.1	1367.9	1484.0	1538.3	1555.6	1556.4	1550.9	1543.9
110°	1096.3	1289.2	1433.1	1520.2	1566.3	1586.4	1594.6	1595.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1028.1	1211.3	1356.7	1458.9	1525.7	1559.5	1578.0	1586.4
115°	942.1	1099.9	1239.7	1350.6	1429.4	1478.4	1507.3	1521.3
117.5°	885.0	1021.3	1142.0	1243.8	1322.8	1373.5	1402.4	1411.5
120°	853.9	976.5	1089.2	1179.0	1253.9	1302.8	1330.8	1339.8
122.5°	829.6	943.3	1043.9	1128.0	1194.9	1239.9	1267.8	1276.0
125°	794.5	899.1	988.6	1062.3	1119.0	1160.8	1183.6	1194.4
127.5°	758.7	856.2	939.8	1008.8	1060.5	1097.6	1119.4	1124.7
130°	736.6	826.9	907.1	973.6	1024.3	1058.1	1078.9	1085.8
132.5°	714.2	798.9	871.9	935.9	986.6	1020.2	1039.3	1046.8
135°	684.3	755.4	821.5	879.9	924.7	958.4	977.3	984.1
137.5°	659.2	716.9	772.0	821.6	861.7	892.3	909.5	916.8
140°	645.1	693.9	741.7	784.9	822.5	849.1	864.8	870.4
142.5°	633.0	674.3	715.4	752.9	784.9	807.6	822.4	827.3
145°	617.6	649.4	681.2	708.9	733.6	751.2	762.9	767.5
147.5°	603.7	629.1	653.2	673.8	693.1	707.0	713.6	715.7
150°	596.0	617.9	636.9	655.0	670.1	682.2	686.4	687.6
152.5°	588.0	607.5	624.9	638.9	651.5	661.1	665.2	666.2
155°	576.0	592.0	606.0	616.9	626.9	633.9	636.9	637.9
157.5°	564.0	577.2	588.0	596.6	604.4	610.1	612.9	612.7
160°	556.0	566.0	576.0	583.0	590.0	595.0	597.0	596.0
162.5°	547.3	556.4	564.8	571.0	576.4	580.6	581.0	580.8
165°	535.1	542.1	548.1	553.0	557.0	559.0	559.0	559.0
167.5°	523.5	528.1	532.7	536.3	538.3	540.1	539.3	539.1
170°	517.1	520.1	523.1	525.1	527.1	528.1	528.1	527.1
172.5°	509.9	512.9	515.1	516.3	516.7	518.5	516.9	515.9
175°	502.1	502.1	504.1	504.1	504.1	505.1	503.1	502.1
177.5°	496.7	497.5	497.5	497.5	496.7	497.5	495.1	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1

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