

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: P333348-930

Luminaire Tested: **S125DIW-S375D770U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333348-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S375D770U930-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694.6 lumens
Efficiency: N/A
Efficacy: 121.5 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

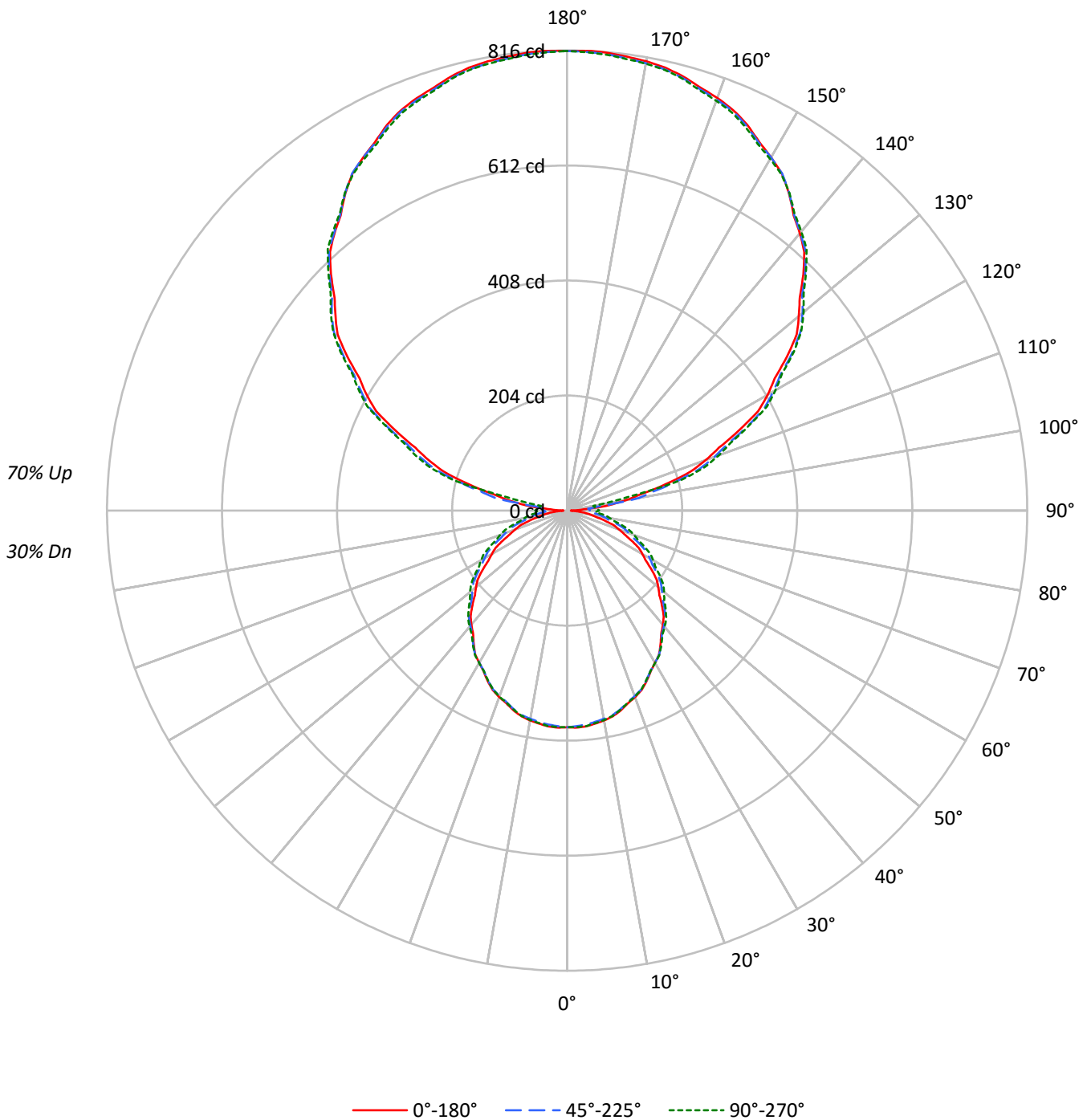
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333348-930

CATALOG NUMBER: S125DIW-S375D770U930-4F0-1E-UDD-D

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	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	93	89	85	81	83	80	76	73	63	60	58	47	46	44	33	32	31	25
2	84	77	71	66	75	69	64	60	55	51	48	41	39	37	29	27	26	20
3	77	67	60	54	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	19	14
5	64	53	45	39	57	48	41	36	38	33	29	29	25	22	20	18	16	12
6	59	47	39	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	54	42	35	29	49	38	32	27	31	26	22	23	20	17	17	14	12	10
8	50	38	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	9
9	47	35	28	23	42	32	25	21	25	21	17	20	16	14	14	12	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.0
10°-20°	103.2	2.8
20°-30°	153.4	4.2
30°-40°	181.7	4.9
40°-50°	187.9	5.1
50°-60°	173.1	4.7
60°-70°	139.9	3.8
70°-80°	93.7	2.5
80°-90°	50.3	1.4
90°-100°	56.9	1.5
100°-110°	202.6	5.5
110°-120°	344.5	9.3
120°-130°	432.5	11.7
130°-140°	460.3	12.5
140°-150°	429.6	11.6
150°-160°	347.0	9.4
160°-170°	224.4	6.1
170°-180°	77.4	2.1
0°-30°	292.9	7.9
0°-40°	474.7	12.8
0°-60°	835.7	22.6
0°-90°	1119.6	30.3
90°-120°	604.0	16.3
90°-150°	1926.3	52.1
90°-180°	2575.0	69.7
0°-180°	3694.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	7	24	41	52	57	5
95°	39	46	37	48	51	48
105°	181	190	201	208	210	192
115°	336	342	352	356	355	333
125°	476	480	487	490	491	425
135°	592	595	597	600	599	456
145°	686	687	687	689	687	429
155°	755	752	753	754	750	348
165°	797	793	794	797	793	225
175°	815	812	812	816	811	78
180°	815	815	815	815	815	



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CATALOG NUMBER: S125DIW-S375D770U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	11.9	14.8	17.7	20.5	23.5	26.4	29.4	32.4	35.5	38.6	40.6
90°	6.6	10.4	14.1	17.9	21.7	25.4	29.2	33.0	36.8	40.6	43.1
92.5°	14.8	16.5	18.2	19.9	21.6	24.4	28.1	31.9	35.6	39.4	41.9
95°	39.3	41.1	42.9	44.7	46.4	46.2	43.9	41.7	39.5	37.2	39.7
97.5°	76.3	79.0	81.7	84.4	87.1	84.7	77.4	70.0	62.7	55.4	53.3
100°	105.0	107.2	109.3	111.5	113.7	116.3	119.6	122.8	126.0	129.2	111.0
102.5°	134.2	136.3	138.5	140.6	142.8	145.3	148.2	151.2	154.1	157.0	154.9
105°	181.0	182.9	184.7	186.6	188.5	190.7	193.2	195.8	198.2	200.7	202.4
107.5°	229.6	230.7	231.9	233.0	234.2	236.0	238.7	241.4	244.1	246.8	248.5
110°	261.2	262.2	263.2	264.2	265.2	267.0	269.6	272.2	274.8	277.4	278.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	291.1	292.3	293.4	294.6	295.6	297.4	299.9	302.3	304.8	307.2	308.2
115°	335.7	337.0	338.3	339.5	340.8	342.5	344.9	347.2	349.4	351.8	352.8
117.5°	381.9	382.2	382.6	382.9	383.3	384.7	387.3	389.9	392.5	395.0	395.7
120°	410.8	411.0	411.1	411.2	411.3	412.5	414.9	417.2	419.6	421.8	423.1
122.5°	436.2	436.8	437.4	438.1	438.7	440.0	442.1	444.1	446.1	448.3	449.3
125°	475.7	476.6	477.4	478.3	479.2	480.5	482.1	483.8	485.4	487.1	488.0
127.5°	513.1	513.7	514.4	514.9	515.5	516.5	517.7	519.0	520.3	521.6	522.6
130°	536.4	537.0	537.5	538.1	538.7	539.6	541.0	542.3	543.6	544.9	545.7
132.5°	559.3	560.0	560.8	561.6	562.3	563.0	563.6	564.2	564.8	565.4	566.6
135°	592.2	592.9	593.6	594.4	595.1	595.6	595.9	596.2	596.6	596.9	597.7
137.5°	622.4	623.1	623.7	624.4	624.9	625.3	625.3	625.3	625.4	625.5	626.5
140°	642.0	642.2	642.5	642.8	643.0	643.1	643.1	643.0	642.9	642.9	644.1
142.5°	659.8	659.9	660.0	660.1	660.2	660.3	660.6	660.7	661.0	661.1	662.0
145°	686.1	686.2	686.4	686.6	686.8	686.9	686.9	686.9	686.9	686.9	687.5
147.5°	708.7	708.6	708.5	708.5	708.4	708.5	708.7	708.7	708.9	709.1	709.4
150°	723.1	722.8	722.6	722.3	722.0	722.0	722.3	722.6	722.8	723.1	723.4
152.5°	737.1	736.5	736.0	735.4	734.7	734.6	734.9	735.2	735.4	735.6	736.0
155°	755.1	754.3	753.5	752.7	752.0	751.6	752.0	752.2	752.4	752.7	753.1
157.5°	769.0	768.6	768.1	767.6	767.1	766.9	766.9	767.0	767.0	767.0	767.4
160°	778.7	777.9	777.1	776.2	775.5	775.1	775.3	775.4	775.5	775.7	776.2
162.5°	786.4	785.6	784.8	784.0	783.2	782.9	783.0	783.2	783.3	783.4	784.2
165°	796.8	796.0	795.2	794.4	793.6	793.3	793.4	793.5	793.7	793.8	794.6
167.5°	804.5	803.7	802.9	802.1	801.2	800.9	801.0	801.1	801.3	801.4	802.3
170°	808.9	808.0	807.0	806.1	805.1	804.7	804.9	805.0	805.1	805.3	806.3
172.5°	811.8	810.9	809.9	808.9	808.0	807.7	808.0	808.2	808.5	808.7	809.6
175°	815.0	814.2	813.3	812.5	811.7	811.4	811.5	811.6	811.8	812.0	813.0
177.5°	816.4	815.7	815.1	814.5	813.8	813.5	813.7	813.8	813.8	814.0	814.7
180°	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	42.6	44.8	46.8	48.2	48.8	49.5	50.1	50.8
90°	45.7	48.3	51.0	52.7	53.7	54.7	55.7	56.7
92.5°	44.4	47.0	49.5	51.1	51.9	52.7	53.5	54.2
95°	42.2	44.7	47.2	48.8	49.3	50.0	50.5	51.1
97.5°	51.3	49.2	47.2	46.5	47.0	47.6	48.2	48.8
100°	92.8	74.5	56.3	47.1	47.0	47.0	47.0	47.0
102.5°	152.9	150.7	148.6	143.2	134.7	126.0	117.4	108.8
105°	204.1	205.8	207.4	208.5	209.0	209.5	209.9	210.3
107.5°	250.1	251.8	253.6	254.5	254.5	254.6	254.8	254.9
110°	279.9	281.0	282.3	283.2	283.9	284.6	285.4	286.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	309.2	310.2	311.3	311.9	312.3	312.7	313.2	313.6
115°	353.8	354.7	355.6	356.0	355.7	355.4	355.1	354.8
117.5°	396.5	397.2	397.9	398.4	398.6	398.8	399.1	399.3
120°	424.2	425.3	426.5	427.0	426.8	426.6	426.5	426.3
122.5°	450.4	451.5	452.6	453.0	452.7	452.4	452.2	451.8
125°	488.7	489.5	490.3	490.7	490.7	490.8	490.8	490.8
127.5°	523.5	524.5	525.4	525.6	525.1	524.6	524.1	523.6
130°	546.4	547.2	548.0	548.2	548.0	547.7	547.5	547.2
132.5°	567.6	568.7	569.8	570.2	569.9	569.6	569.2	568.9
135°	598.5	599.3	600.1	600.4	600.0	599.6	599.2	598.8
137.5°	627.5	628.6	629.7	630.0	629.6	629.2	628.8	628.5
140°	645.3	646.5	647.7	648.0	647.6	647.1	646.6	646.1
142.5°	662.8	663.7	664.6	664.7	664.2	663.7	663.3	662.8
145°	687.9	688.5	689.1	689.1	688.7	688.2	687.7	687.2
147.5°	709.7	710.0	710.3	710.0	709.2	708.4	707.6	706.8
150°	723.7	723.9	724.2	723.8	722.8	721.9	720.9	719.9
152.5°	736.2	736.5	736.8	736.4	735.5	734.5	733.6	732.6
155°	753.5	753.9	754.3	754.0	752.9	751.9	750.8	749.7
157.5°	767.8	768.3	768.7	768.3	767.3	766.2	765.2	764.1
160°	776.7	777.3	777.8	777.6	776.5	775.4	774.4	773.2
162.5°	784.9	785.6	786.4	786.2	785.1	783.8	782.7	781.5
165°	795.4	796.2	797.0	796.9	795.8	794.8	793.7	792.6
167.5°	803.3	804.3	805.3	805.2	804.0	802.7	801.5	800.3
170°	807.4	808.5	809.6	809.5	808.3	807.1	805.8	804.7
172.5°	810.6	811.5	812.5	812.4	811.2	810.0	808.8	807.6
175°	814.1	815.1	816.2	816.1	815.0	813.8	812.5	811.3
177.5°	815.5	816.2	817.0	816.9	816.0	815.2	814.3	813.5
180°	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0

(END OF REPORT)