

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: P333349-930

Luminaire Tested: **S125DIW-S375D770U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333349-930
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: S125DIW-S375D770U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.3 lumens
Efficiency: N/A
Efficacy: 110.6 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

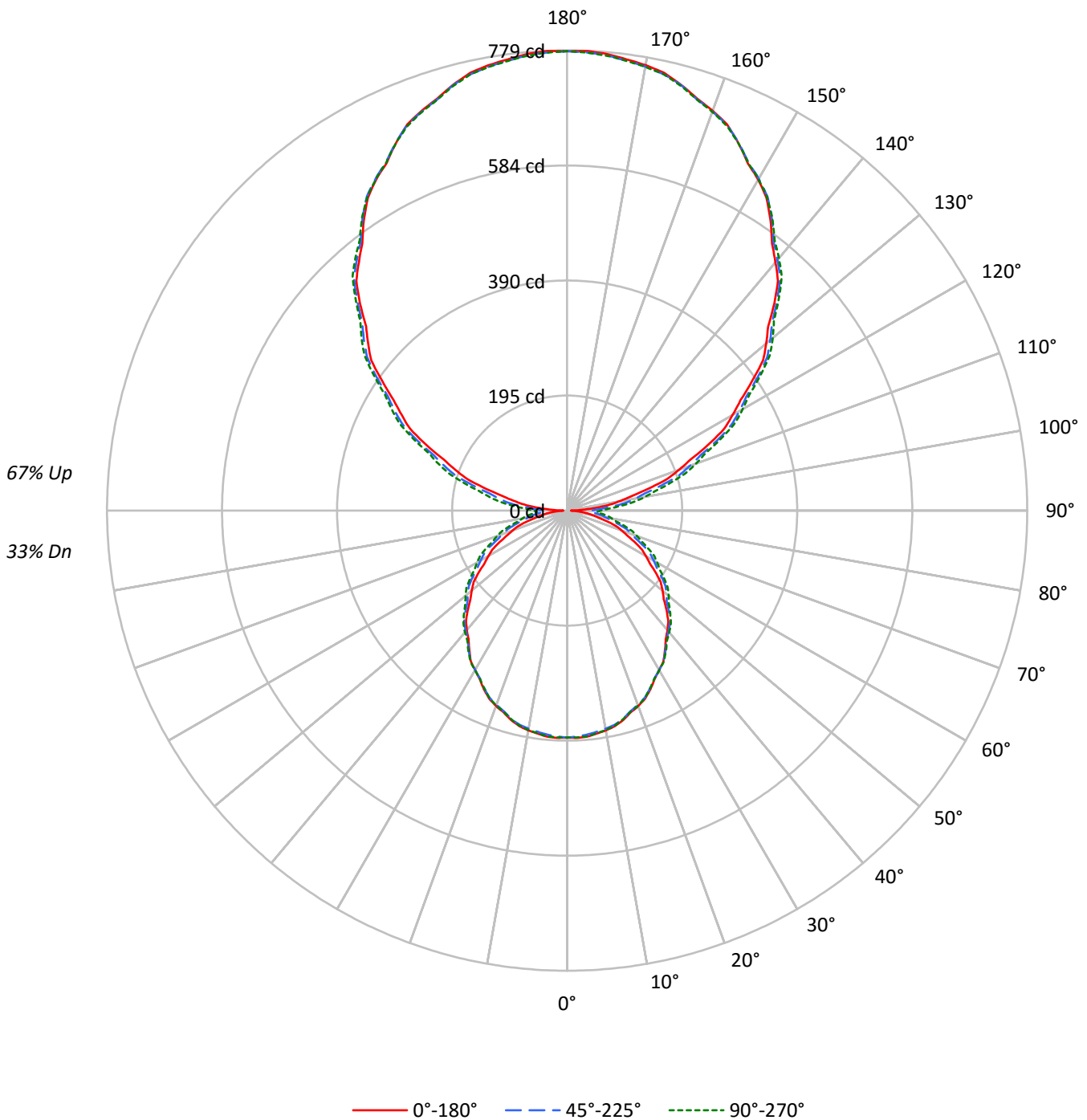
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	89	85	82	84	80	77	74	64	62	60	49	48	46	35	34	33
2	85	77	71	66	76	70	65	60	56	52	49	43	40	38	31	29	28
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	23
4	71	60	52	46	63	54	47	42	43	38	35	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17
6	59	48	40	34	53	43	36	31	35	30	26	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	39	31	26	46	35	28	24	28	23	20	22	19	16	16	14	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	11	10

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	1.1
10°-20°	103.2	3.1
20°-30°	153.4	4.6
30°-40°	181.7	5.4
40°-50°	187.9	5.6
50°-60°	173.1	5.1
60°-70°	139.9	4.2
70°-80°	93.7	2.8
80°-90°	50.3	1.5
90°-100°	79.4	2.4
100°-110°	173.9	5.2
110°-120°	274.0	8.1
120°-130°	350.5	10.4
130°-140°	387.6	11.5
140°-150°	377.2	11.2
150°-160°	316.3	9.4
160°-170°	210.2	6.3
170°-180°	73.6	2.2
0°-30°	292.9	8.7
0°-40°	474.7	14.1
0°-60°	835.7	24.9
0°-90°	1119.6	33.3
90°-120°	527.3	15.7
90°-150°	1642.6	48.9
90°-180°	2243.0	66.7
0°-180°	3362.3	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	6
95°	44	56	74	86	90	46
105°	141	151	165	176	181	151
115°	263	268	279	285	287	260
125°	382	386	394	398	400	342
135°	496	499	502	507	507	382
145°	600	602	604	606	606	375
155°	686	686	687	689	686	316
165°	746	745	746	748	744	210
175°	776	774	774	777	773	74
180°	778	778	778	778	778	



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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	32.5	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	43.2
92.5°	20.1	23.3	26.5	29.8	33.0	36.7	40.7	44.8	48.8	52.9	55.7
95°	44.3	46.7	49.2	51.6	54.1	57.3	61.6	65.7	70.0	74.1	76.9
97.5°	69.8	71.9	73.9	76.0	78.1	81.4	86.0	90.6	95.2	99.8	102.5
100°	88.9	90.7	92.4	94.2	95.9	99.0	103.5	107.9	112.3	116.8	119.7
102.5°	109.4	111.5	113.7	115.9	118.1	120.9	124.4	127.8	131.3	134.9	137.9
105°	141.4	143.4	145.4	147.4	149.4	152.1	155.4	158.7	162.1	165.3	167.9
107.5°	176.8	178.6	180.4	182.2	184.0	186.5	189.5	192.5	195.5	198.5	200.6
110°	201.1	202.8	204.5	206.2	207.9	210.1	212.8	215.6	218.3	221.1	223.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	226.3	227.5	228.6	229.8	231.0	232.9	235.7	238.5	241.2	244.1	245.8
115°	263.1	264.2	265.4	266.5	267.6	269.4	271.8	274.3	276.7	279.2	280.5
117.5°	300.0	300.7	301.3	301.9	302.6	304.0	306.3	308.6	310.9	313.2	314.7
120°	323.3	324.2	325.1	326.0	326.9	328.5	330.5	332.6	334.6	336.7	338.1
122.5°	348.1	348.5	348.9	349.2	349.6	350.8	353.1	355.3	357.5	359.7	360.9
125°	382.2	382.9	383.7	384.3	385.1	386.4	388.2	390.0	391.8	393.6	394.7
127.5°	418.2	418.5	418.9	419.2	419.6	420.6	422.1	423.6	425.2	426.7	427.9
130°	439.9	440.5	441.1	441.7	442.3	443.3	444.7	446.2	447.6	449.1	450.1
132.5°	461.4	462.5	463.6	464.6	465.8	466.8	467.6	468.4	469.3	470.1	471.2
135°	495.9	496.6	497.3	498.0	498.7	499.5	500.2	500.9	501.6	502.3	503.4
137.5°	528.2	528.9	529.6	530.4	531.1	531.7	532.3	532.9	533.5	534.0	535.2
140°	548.7	549.4	550.1	550.7	551.4	552.0	552.4	552.9	553.4	553.9	555.1
142.5°	569.6	570.1	570.5	571.0	571.5	572.0	572.6	573.1	573.6	574.1	575.1
145°	600.1	600.6	601.0	601.5	602.0	602.4	602.8	603.2	603.6	604.1	604.5
147.5°	628.1	628.4	628.7	629.0	629.3	629.6	629.9	630.2	630.6	630.9	631.4
150°	647.0	646.9	646.7	646.6	646.5	646.7	647.2	647.8	648.2	648.8	648.8
152.5°	662.5	662.7	662.8	663.1	663.2	663.4	663.7	663.9	664.1	664.3	664.6
155°	686.3	686.3	686.3	686.3	686.3	686.4	686.6	686.6	686.8	687.0	687.5
157.5°	707.7	707.4	707.0	706.8	706.5	706.4	706.5	706.6	706.8	706.9	707.4
160°	720.2	719.8	719.4	719.0	718.6	718.4	718.6	718.8	718.8	719.0	719.6
162.5°	731.4	731.1	730.8	730.5	730.2	730.0	730.1	730.1	730.1	730.2	730.8
165°	746.2	746.0	745.8	745.4	745.2	745.1	745.3	745.3	745.5	745.7	746.2
167.5°	758.9	758.3	757.7	757.2	756.7	756.4	756.4	756.4	756.4	756.4	757.2
170°	765.6	765.1	764.5	764.0	763.4	763.2	763.2	763.2	763.2	763.2	764.0
172.5°	770.5	769.9	769.4	768.8	768.3	768.0	768.0	768.0	768.0	768.0	768.8
175°	775.9	775.3	774.9	774.3	773.7	773.5	773.5	773.5	773.5	773.5	774.3
177.5°	778.7	778.3	777.8	777.4	777.0	776.7	776.6	776.5	776.4	776.2	776.9
180°	777.7	777.7	777.7	777.7	777.7	777.7	777.7	777.7	777.7	777.7	777.7



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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°	42.7	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	54.8	55.8	56.7
92.5°	58.5	61.1	63.9	65.7	66.6	67.5	68.4	69.3
95°	79.7	82.4	85.3	87.1	87.9	88.8	89.6	90.5
97.5°	105.1	107.8	110.4	112.1	112.8	113.6	114.3	115.0
100°	122.6	125.6	128.6	130.4	131.3	132.0	132.8	133.5
102.5°	140.9	143.9	146.9	148.9	149.8	150.6	151.5	152.4
105°	170.3	172.8	175.3	177.0	178.1	179.0	180.0	181.0
107.5°	202.7	204.7	206.8	208.1	208.6	209.0	209.5	210.0
110°	225.0	227.1	229.0	230.2	230.7	231.1	231.6	232.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	247.5	249.2	250.9	251.9	252.3	252.7	253.0	253.3
115°	281.9	283.3	284.7	285.5	285.9	286.3	286.7	287.0
117.5°	316.3	317.8	319.4	320.1	320.2	320.2	320.2	320.2
120°	339.6	341.0	342.4	343.1	343.1	343.0	343.0	342.9
122.5°	362.2	363.5	364.7	365.3	365.4	365.5	365.6	365.7
125°	395.7	396.8	397.9	398.5	398.8	399.1	399.4	399.7
127.5°	428.9	430.1	431.1	431.8	432.0	432.3	432.4	432.7
130°	451.1	452.2	453.2	453.8	454.0	454.1	454.3	454.4
132.5°	472.2	473.3	474.3	474.7	474.7	474.7	474.7	474.7
135°	504.5	505.6	506.7	507.2	507.0	507.0	506.8	506.7
137.5°	536.3	537.4	538.6	539.0	538.7	538.3	538.0	537.7
140°	556.3	557.5	558.7	559.1	558.8	558.5	558.1	557.7
142.5°	576.1	577.0	578.0	578.3	577.9	577.6	577.2	576.9
145°	604.9	605.3	605.7	605.8	605.8	605.8	605.7	605.6
147.5°	631.8	632.3	632.8	632.6	631.8	631.0	630.3	629.5
150°	648.8	648.8	648.8	648.7	648.6	648.3	648.2	648.0
152.5°	665.0	665.3	665.6	665.5	665.0	664.6	664.1	663.7
155°	688.0	688.5	689.1	689.0	688.4	687.7	687.0	686.3
157.5°	708.0	708.5	709.1	708.9	708.0	707.1	706.2	705.3
160°	720.1	720.6	721.1	721.1	720.4	719.7	719.1	718.4
162.5°	731.5	732.1	732.7	732.7	731.9	731.1	730.3	729.5
165°	746.7	747.3	747.8	747.6	746.9	746.1	745.3	744.4
167.5°	758.1	758.9	759.6	759.6	758.8	758.0	757.2	756.3
170°	764.8	765.6	766.5	766.4	765.4	764.5	763.5	762.6
172.5°	769.6	770.5	771.3	771.3	770.5	769.6	768.7	767.9
175°	775.1	775.9	776.7	776.7	775.7	774.8	773.8	772.9
177.5°	777.6	778.2	778.9	778.8	778.0	777.3	776.6	775.8
180°	777.7	777.7	777.7	777.7	777.7	777.7	777.7	777.7

(END OF REPORT)