

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: P333136-930

Luminaire Tested: **S125DIP-S375D810U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333136-930
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: S125DIP-S375D810U930-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.5 lumens
Efficiency: N/A
Efficacy: 122.9 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

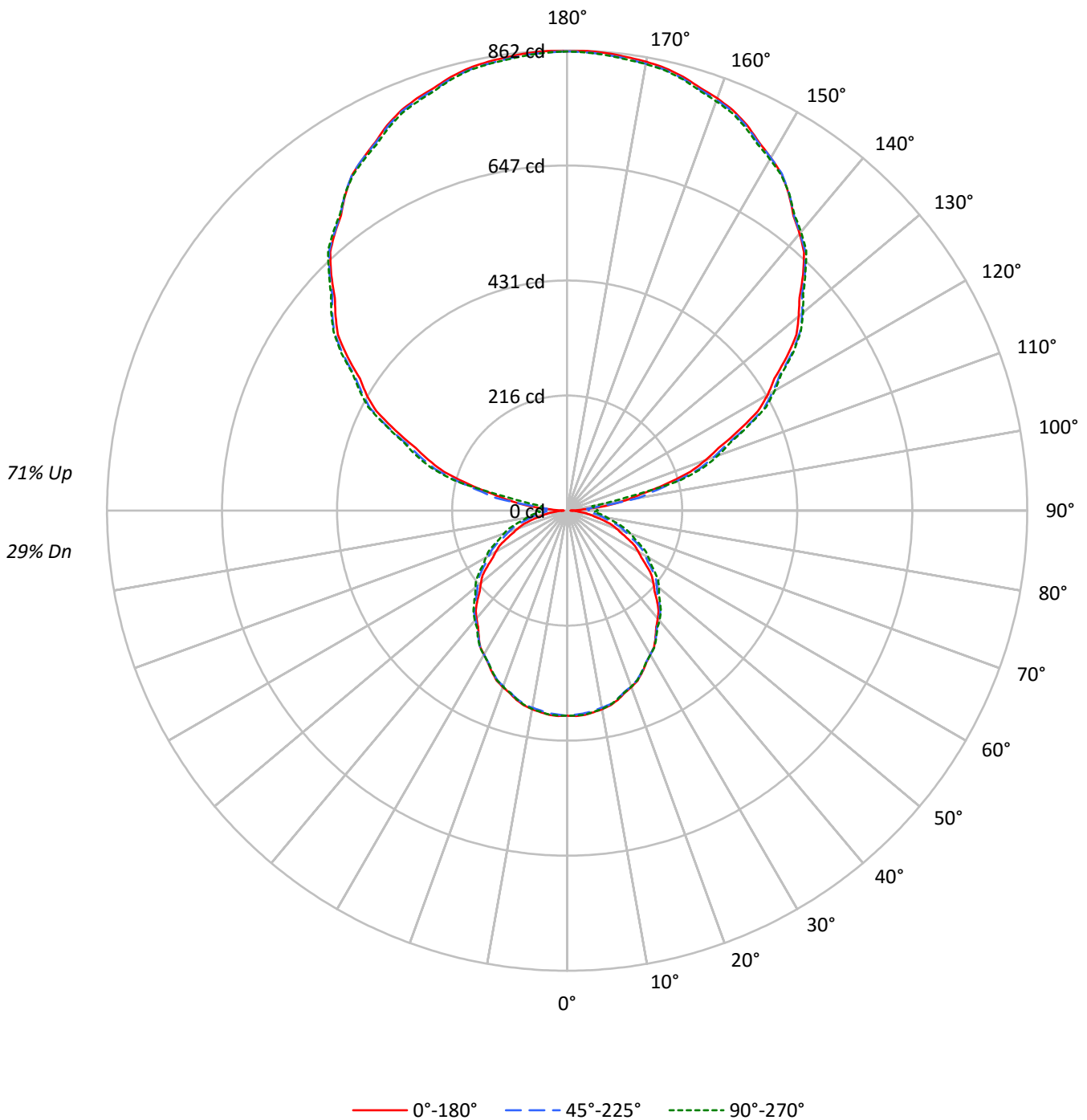
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333136-930

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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	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30	24
2	84	77	71	66	75	69	64	59	54	51	47	40	38	36	28	26	25	19
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21	16
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18	14
5	64	53	45	39	57	47	41	35	37	33	29	28	25	22	20	17	16	12
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14	10
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12	9
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	13	11	8
9	47	35	28	23	42	31	25	21	25	20	17	19	16	13	14	11	10	7
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	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	0.9
10°-20°	103.2	2.7
20°-30°	153.4	4.0
30°-40°	181.7	4.7
40°-50°	187.9	4.9
50°-60°	173.1	4.5
60°-70°	139.9	3.6
70°-80°	93.7	2.4
80°-90°	50.4	1.3
90°-100°	58.5	1.5
100°-110°	212.7	5.5
110°-120°	362.9	9.5
120°-130°	456.0	11.9
130°-140°	485.6	12.7
140°-150°	453.4	11.8
150°-160°	366.2	9.6
160°-170°	236.8	6.2
170°-180°	81.7	2.1
0°-30°	292.9	7.6
0°-40°	474.7	12.4
0°-60°	835.7	21.8
0°-90°	1119.7	29.2
90°-120°	634.1	16.5
90°-150°	2029.1	52.9
90°-180°	2714.0	70.8
0°-180°	3833.5	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	53	58	6
95°	41	48	38	49	52	50
105°	191	200	211	218	220	202
115°	354	360	370	374	373	351
125°	502	506	514	517	517	448
135°	625	628	630	633	631	482
145°	724	725	725	727	725	453
155°	797	793	794	796	791	367
165°	841	837	838	841	836	237
175°	860	857	857	861	856	82
180°	860	860	860	860	860	



TEST NUMBER: P333136-930

CATALOG NUMBER: S125DIP-S375D810U930-4F0-1E-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	20.6	23.5	26.5	29.5	32.6	35.6	38.6	40.8
90°	6.7	10.5	14.3	18.1	21.9	25.8	29.6	33.4	37.3	41.1	43.7
92.5°	15.2	17.0	18.6	20.3	22.0	24.7	28.5	32.3	36.1	39.9	42.5
95°	41.3	43.0	44.8	46.5	48.3	47.9	45.3	42.8	40.3	37.7	40.3
97.5°	80.3	83.1	85.8	88.5	91.2	88.6	80.7	72.8	64.9	57.0	54.8
100°	110.6	112.8	115.0	117.2	119.4	122.1	125.3	128.6	131.8	135.1	115.7
102.5°	141.5	143.6	145.8	147.9	150.1	152.6	155.6	158.6	161.5	164.4	162.2
105°	190.9	192.7	194.7	196.6	198.4	200.6	203.2	205.7	208.2	210.8	212.4
107.5°	242.1	243.3	244.4	245.6	246.7	248.7	251.4	254.0	256.7	259.4	261.1
110°	275.6	276.5	277.5	278.5	279.6	281.4	284.0	286.7	289.3	291.9	293.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	307.1	308.3	309.4	310.5	311.8	313.6	316.0	318.5	320.9	323.3	324.3
115°	354.2	355.5	356.8	358.1	359.4	361.2	363.5	365.8	368.2	370.5	371.5
117.5°	402.9	403.3	403.7	404.0	404.4	405.9	408.5	411.1	413.6	416.2	416.9
120°	433.6	433.7	433.7	433.9	434.0	435.2	437.6	439.9	442.3	444.6	445.7
122.5°	460.2	460.9	461.6	462.3	462.9	464.2	466.3	468.4	470.4	472.5	473.5
125°	502.1	503.0	503.9	504.8	505.6	507.0	508.6	510.3	512.0	513.6	514.5
127.5°	541.5	542.2	542.8	543.4	544.0	545.0	546.3	547.6	548.9	550.2	551.1
130°	566.1	566.6	567.3	567.9	568.5	569.5	570.8	572.2	573.5	574.8	575.5
132.5°	590.2	591.0	591.8	592.6	593.5	594.1	594.8	595.3	595.9	596.6	597.6
135°	624.9	625.7	626.5	627.3	628.0	628.6	628.8	629.2	629.5	629.7	630.6
137.5°	656.9	657.5	658.3	658.9	659.6	659.9	660.0	660.0	660.0	660.1	661.1
140°	677.5	677.8	678.1	678.3	678.7	678.7	678.7	678.7	678.6	678.5	679.7
142.5°	696.3	696.5	696.6	696.7	696.8	696.9	697.2	697.4	697.6	697.8	698.6
145°	724.1	724.2	724.5	724.6	724.9	725.0	725.0	725.0	725.0	725.0	725.5
147.5°	747.9	747.9	747.8	747.7	747.7	747.7	747.9	748.0	748.3	748.4	748.7
150°	763.2	763.0	762.6	762.4	762.1	762.1	762.4	762.6	763.0	763.2	763.5
152.5°	778.0	777.4	776.7	776.2	775.5	775.3	775.6	775.9	776.2	776.5	776.7
155°	797.0	796.1	795.3	794.4	793.6	793.3	793.6	793.9	794.2	794.4	794.8
157.5°	811.6	811.1	810.7	810.2	809.6	809.3	809.4	809.4	809.4	809.5	809.9
160°	821.9	821.0	820.2	819.3	818.5	818.2	818.2	818.4	818.6	818.6	819.2
162.5°	830.1	829.2	828.3	827.4	826.6	826.3	826.4	826.6	826.7	826.9	827.6
165°	841.0	840.2	839.3	838.5	837.6	837.2	837.4	837.6	837.6	837.8	838.7
167.5°	849.1	848.3	847.4	846.5	845.6	845.3	845.4	845.5	845.7	845.9	846.9
170°	853.8	852.7	851.7	850.8	849.8	849.4	849.5	849.6	849.8	849.9	851.1
172.5°	856.8	855.8	854.8	853.9	852.8	852.5	852.7	853.0	853.2	853.5	854.5
175°	860.1	859.2	858.4	857.6	856.7	856.4	856.5	856.6	856.8	857.0	858.1
177.5°	861.7	861.0	860.3	859.7	858.9	858.7	858.8	858.8	859.0	859.1	859.9
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1



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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°	42.8	44.8	47.0	48.3	49.0	49.7	50.3	51.0
90°	46.4	49.0	51.6	53.5	54.5	55.5	56.5	57.5
92.5°	45.0	47.6	50.1	51.9	52.6	53.4	54.2	55.0
95°	42.8	45.3	47.9	49.5	50.1	50.6	51.2	51.9
97.5°	52.5	50.3	48.0	47.2	47.8	48.3	48.9	49.5
100°	96.4	77.0	57.6	47.9	47.9	47.8	47.8	47.7
102.5°	159.9	157.5	155.2	149.5	140.4	131.3	122.1	113.0
105°	214.1	215.7	217.4	218.5	218.9	219.4	219.8	220.3
107.5°	262.8	264.5	266.2	267.1	267.2	267.3	267.3	267.4
110°	294.2	295.4	296.5	297.5	298.2	299.0	299.7	300.4



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CATALOG NUMBER: S125DIP-S375D810U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	325.3	326.3	327.3	327.9	328.3	328.7	329.1	329.5
115°	372.3	373.3	374.2	374.5	374.2	373.8	373.5	373.2
117.5°	417.6	418.3	419.0	419.4	419.6	419.8	420.0	420.2
120°	446.9	448.0	449.1	449.6	449.4	449.2	449.0	448.8
122.5°	474.7	475.7	476.8	477.1	476.9	476.5	476.2	475.9
125°	515.2	516.0	516.7	517.1	517.1	517.1	517.1	517.1
127.5°	552.0	552.9	553.9	554.1	553.5	552.9	552.4	551.8
130°	576.3	577.0	577.7	578.0	577.7	577.4	577.2	576.8
132.5°	598.7	599.8	600.9	601.2	600.9	600.5	600.1	599.8
135°	631.4	632.2	633.0	633.2	632.8	632.3	631.9	631.4
137.5°	662.1	663.2	664.2	664.6	664.1	663.7	663.3	662.9
140°	680.9	682.2	683.3	683.7	683.1	682.7	682.2	681.6
142.5°	699.5	700.3	701.2	701.3	700.8	700.3	699.8	699.3
145°	726.1	726.6	727.2	727.2	726.7	726.2	725.7	725.1
147.5°	749.0	749.3	749.7	749.3	748.4	747.6	746.7	745.8
150°	763.8	764.1	764.3	763.9	762.9	761.9	760.8	759.8
152.5°	777.1	777.3	777.6	777.2	776.2	775.3	774.2	773.2
155°	795.3	795.7	796.1	795.8	794.7	793.5	792.4	791.2
157.5°	810.4	810.9	811.3	811.0	809.8	808.7	807.6	806.4
160°	819.8	820.4	820.9	820.7	819.5	818.4	817.3	816.1
162.5°	828.4	829.2	830.0	829.8	828.5	827.3	826.1	824.8
165°	839.5	840.3	841.2	841.1	839.9	838.8	837.6	836.5
167.5°	847.9	848.9	849.9	849.8	848.5	847.3	846.0	844.7
170°	852.2	853.3	854.4	854.4	853.1	851.8	850.5	849.3
172.5°	855.5	856.6	857.6	857.5	856.1	854.9	853.6	852.3
175°	859.2	860.3	861.4	861.4	860.1	858.8	857.6	856.3
177.5°	860.7	861.4	862.3	862.3	861.3	860.4	859.5	858.6
180°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1

(END OF REPORT)