

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: P333136-940

Luminaire Tested: **S125DIP-S375D810U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333136-940
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-S375D810U940-4F0-1E-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: 4192.8 lumens
Efficiency: N/A
Efficacy: 134.4 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

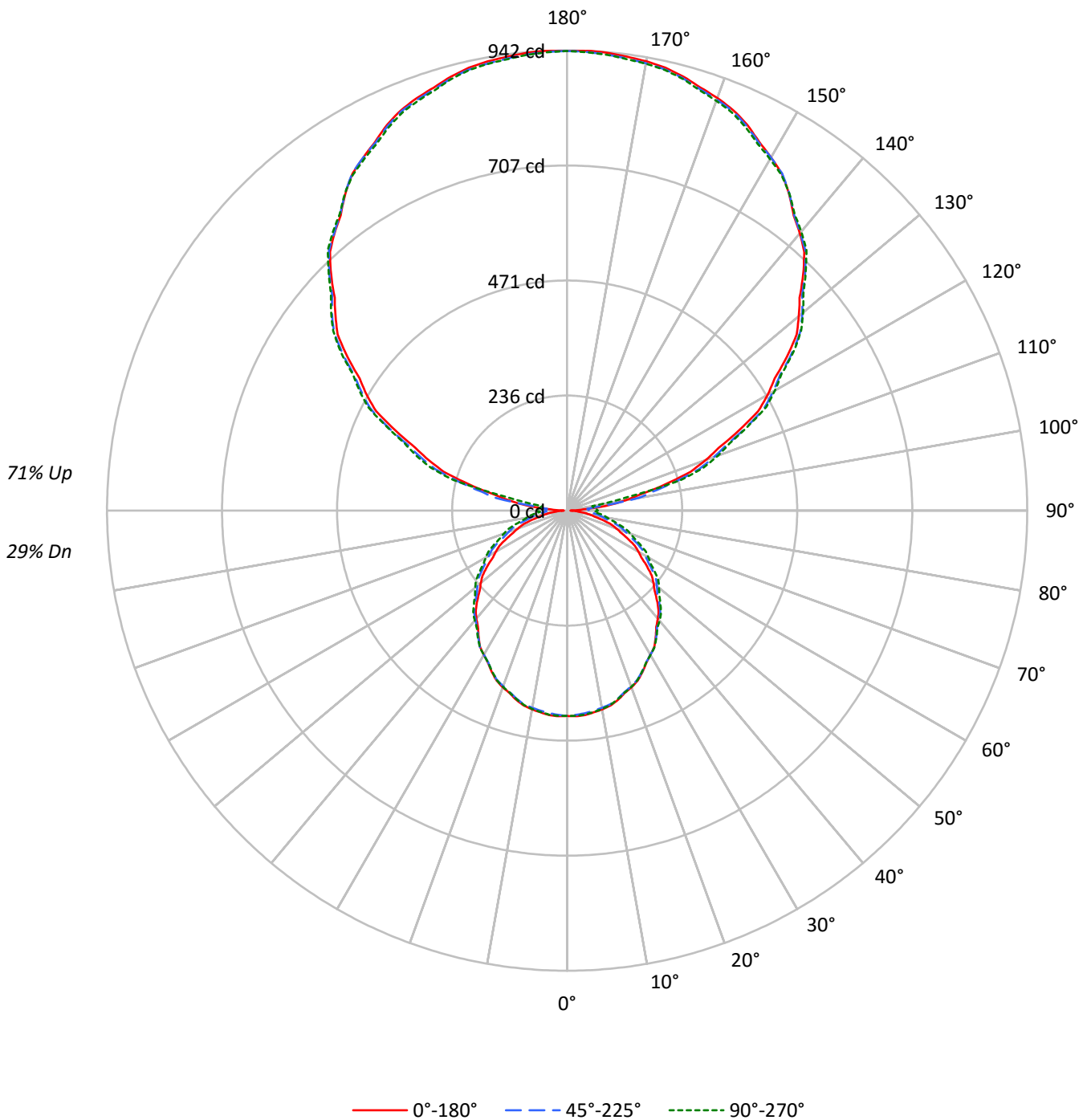
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333136-940

CATALOG NUMBER: S125DIP-S375D810U940-4F0-1E-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	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°	2715	2715	2715
5°	2721	2664	2673
10°	2700	2617	2613
15°	2669	2561	2537
20°	2626	2489	2461
25°	2574	2414	2367
30°	2511	2331	2282
35°	2453	2256	2203
40°	2394	2175	2125
45°	2326	2106	2054
50°	2263	2032	1993
55°	2185	1961	1921
60°	2101	1881	1846
65°	2014	1797	1764
70°	1915	1682	1678
75°	1755	1572	1572
80°	1547	1438	1457
85°	1353	1346	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.9
10°-20°	112.8	2.7
20°-30°	167.8	4.0
30°-40°	198.8	4.7
40°-50°	205.5	4.9
50°-60°	189.3	4.5
60°-70°	153.0	3.6
70°-80°	102.5	2.4
80°-90°	55.1	1.3
90°-100°	64.0	1.5
100°-110°	232.7	5.5
110°-120°	396.9	9.5
120°-130°	498.8	11.9
130°-140°	531.1	12.7
140°-150°	495.8	11.8
150°-160°	400.5	9.6
160°-170°	259.0	6.2
170°-180°	89.3	2.1
0°-30°	320.4	7.6
0°-40°	519.2	12.4
0°-60°	914.0	21.8
0°-90°	1224.6	29.2
90°-120°	693.6	16.5
90°-150°	2219.3	52.9
90°-180°	2968.0	70.8
0°-180°	4192.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	420	419	417	420	420	40
15°	401	402	399	401	400	113
25°	365	366	364	365	363	168
35°	316	318	317	318	318	197
45°	260	264	267	269	270	201
55°	200	206	213	217	219	179
65°	138	147	157	163	165	137
75°	76	87	100	108	110	80
85°	23	36	51	59	63	24
90°	7	26	45	57	63	6
95°	45	53	41	53	57	55
105°	209	218	230	238	241	221
115°	387	394	405	410	408	384
125°	549	554	562	565	566	490
135°	684	687	689	692	691	527
145°	792	793	793	795	793	495
155°	872	868	869	871	865	401
165°	920	916	916	920	915	260
175°	941	937	937	942	937	90
180°	941	941	941	941	941	



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CATALOG NUMBER: S125DIP-S375D810U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	421.3	421.2	421.1	420.9	420.8	420.4	419.9	419.4	418.9	418.4	418.9
5°	420.4	420.2	420.0	419.8	419.6	419.2	418.6	417.9	417.3	416.6	417.4
7.5°	416.6	416.6	416.5	416.4	416.3	416.0	415.4	414.6	414.0	413.3	414.0
10°	413.3	413.3	413.3	413.3	413.3	413.0	412.2	411.5	410.8	410.0	410.7
12.5°	408.8	408.8	408.8	408.9	409.0	408.8	408.2	407.6	407.0	406.4	406.9
15°	401.4	401.4	401.5	401.7	401.8	401.4	400.8	400.2	399.6	399.0	399.5
17.5°	391.8	392.0	392.2	392.4	392.5	392.4	391.7	391.0	390.4	389.8	390.2
20°	385.0	385.1	385.3	385.5	385.7	385.4	384.8	384.1	383.5	382.8	383.2
22.5°	377.0	377.4	377.6	378.0	378.4	378.1	377.4	376.7	375.9	375.2	375.6
25°	364.7	365.0	365.2	365.5	365.8	365.7	365.2	364.6	364.0	363.5	363.8
27.5°	351.1	351.4	351.9	352.2	352.7	352.6	352.0	351.3	350.7	350.1	350.3
30°	340.8	341.3	341.9	342.5	343.0	343.0	342.5	341.9	341.3	340.8	341.0
32.5°	331.6	332.1	332.5	333.1	333.5	333.5	333.1	332.7	332.3	331.9	332.1
35°	315.7	316.3	317.0	317.6	318.3	318.4	318.2	317.9	317.6	317.4	317.6
37.5°	299.8	300.3	301.0	301.5	302.1	302.4	302.3	302.2	302.1	302.0	302.4
40°	288.9	289.6	290.3	291.1	291.9	292.1	292.0	291.9	291.9	291.8	292.1
42.5°	277.1	277.9	278.9	279.9	280.8	281.4	281.6	281.8	282.0	282.2	282.7
45°	260.0	261.1	262.1	263.1	264.0	264.8	265.3	265.7	266.2	266.6	267.2
47.5°	242.6	243.6	244.5	245.5	246.4	247.3	248.1	248.8	249.6	250.4	251.4
50°	230.8	231.8	232.8	233.8	234.8	235.9	236.8	237.8	238.8	239.9	240.9
52.5°	218.3	219.5	220.7	221.9	223.2	224.4	225.6	226.9	228.1	229.3	230.4
55°	199.8	201.3	202.8	204.3	205.7	207.2	208.7	210.1	211.6	213.0	214.1
57.5°	181.1	182.8	184.6	186.4	188.2	189.8	191.5	193.2	194.9	196.5	197.7
60°	168.5	170.4	172.2	174.1	175.8	177.7	179.5	181.4	183.2	185.0	186.4
62.5°	156.3	158.2	160.1	161.8	163.7	165.6	167.6	169.5	171.6	173.5	175.0
65°	137.7	139.7	141.9	143.9	146.1	148.2	150.4	152.7	154.8	157.0	158.4
67.5°	120.0	122.1	124.0	126.1	128.1	130.3	132.5	134.7	137.0	139.2	140.9
70°	107.2	109.2	111.4	113.4	115.6	117.8	120.2	122.6	124.9	127.3	129.1
72.5°	94.6	96.8	99.0	101.1	103.3	105.8	108.3	110.9	113.5	116.1	118.1
75°	75.8	78.2	80.6	82.9	85.3	88.0	91.0	93.9	96.8	99.7	101.6
77.5°	57.8	60.5	63.3	66.0	68.8	71.5	74.4	77.2	80.0	82.8	84.9
80°	46.5	49.3	52.1	54.8	57.5	60.5	63.6	66.7	69.8	72.9	75.0
82.5°	36.4	39.2	42.2	45.0	47.9	51.0	54.1	57.3	60.5	63.7	65.6
85°	22.6	25.7	28.7	31.7	34.8	37.9	41.1	44.3	47.5	50.6	52.7
87.5°	13.0	16.1	19.4	22.6	25.7	29.0	32.3	35.7	39.0	42.3	44.6
90°	7.3	11.5	15.6	19.8	24.0	28.2	32.4	36.6	40.8	44.9	47.8
92.5°	16.7	18.5	20.3	22.2	24.1	27.0	31.2	35.3	39.5	43.6	46.5
95°	45.1	47.0	49.0	50.8	52.8	52.3	49.6	46.8	44.1	41.3	44.1
97.5°	87.8	90.9	93.8	96.8	99.8	96.9	88.3	79.6	71.0	62.3	59.9
100°	121.0	123.4	125.7	128.1	130.5	133.5	137.1	140.6	144.2	147.8	126.5
102.5°	154.7	157.0	159.4	161.8	164.2	166.9	170.1	173.4	176.6	179.9	177.4
105°	208.7	210.8	212.9	215.0	217.0	219.5	222.2	225.0	227.7	230.5	232.3
107.5°	264.8	266.1	267.3	268.6	269.8	272.0	274.9	277.9	280.8	283.7	285.6
110°	301.4	302.5	303.5	304.6	305.8	307.7	310.6	313.5	316.4	319.2	320.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	335.9	337.2	338.4	339.7	341.0	343.0	345.6	348.3	351.0	353.7	354.7
115°	387.4	388.8	390.2	391.6	393.1	395.0	397.6	400.1	402.7	405.2	406.3
117.5°	440.7	441.1	441.5	441.8	442.3	443.9	446.7	449.6	452.4	455.2	456.0
120°	474.2	474.3	474.4	474.6	474.7	476.0	478.6	481.2	483.8	486.2	487.5
122.5°	503.4	504.1	504.9	505.6	506.3	507.7	510.0	512.3	514.5	516.7	517.9
125°	549.1	550.1	551.1	552.1	553.0	554.5	556.2	558.1	560.0	561.8	562.7
127.5°	592.3	593.0	593.7	594.3	595.0	596.1	597.5	598.9	600.3	601.7	602.7
130°	619.1	619.7	620.5	621.2	621.8	622.9	624.3	625.8	627.2	628.7	629.5
132.5°	645.5	646.4	647.3	648.2	649.1	649.8	650.5	651.1	651.8	652.5	653.6
135°	683.5	684.4	685.2	686.1	686.9	687.5	687.8	688.1	688.5	688.8	689.6
137.5°	718.5	719.2	720.0	720.7	721.4	721.8	721.8	721.8	721.8	721.9	723.1
140°	741.0	741.3	741.6	741.9	742.3	742.3	742.3	742.3	742.2	742.1	743.4
142.5°	761.6	761.8	761.9	762.0	762.1	762.2	762.5	762.8	762.9	763.2	764.1
145°	791.9	792.1	792.4	792.6	792.8	792.9	792.9	792.9	792.9	792.9	793.5
147.5°	818.0	818.0	817.9	817.8	817.8	817.8	818.0	818.1	818.4	818.6	818.9
150°	834.7	834.5	834.1	833.8	833.5	833.5	833.8	834.1	834.5	834.7	835.1
152.5°	851.0	850.2	849.5	848.9	848.2	848.0	848.3	848.6	848.9	849.3	849.5
155°	871.7	870.8	869.9	868.9	868.0	867.6	868.0	868.3	868.6	868.9	869.3
157.5°	887.7	887.2	886.6	886.1	885.5	885.2	885.3	885.3	885.3	885.4	885.8
160°	898.9	898.0	897.1	896.1	895.2	894.8	894.9	895.1	895.3	895.4	896.0
162.5°	907.9	906.9	906.0	905.0	904.1	903.7	903.8	904.0	904.2	904.4	905.2
165°	919.8	918.9	917.9	917.0	916.1	915.7	915.9	916.1	916.1	916.3	917.3
167.5°	928.7	927.8	926.8	925.9	924.9	924.5	924.6	924.8	925.0	925.1	926.2
170°	933.8	932.6	931.6	930.5	929.4	929.0	929.1	929.3	929.4	929.6	930.9
172.5°	937.1	936.0	935.0	933.9	932.7	932.4	932.6	932.9	933.2	933.4	934.6
175°	940.8	939.8	938.9	938.0	937.0	936.7	936.7	936.9	937.1	937.3	938.5
177.5°	942.4	941.6	940.9	940.2	939.4	939.1	939.2	939.3	939.5	939.6	940.5
180°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	419.4	419.9	420.4	420.6	420.5	420.5	420.4	420.4
5°	418.1	418.8	419.5	419.9	419.8	419.7	419.6	419.5
7.5°	414.6	415.3	415.9	416.2	416.1	416.0	415.9	415.8
10°	411.3	412.0	412.6	412.9	412.8	412.7	412.6	412.5
12.5°	407.4	407.9	408.4	408.5	408.3	408.0	407.8	407.6
15°	400.0	400.6	401.1	401.2	400.8	400.5	400.1	399.8
17.5°	390.7	391.0	391.5	391.6	391.4	391.1	390.9	390.7
20°	383.4	383.7	384.0	384.1	384.1	384.1	384.1	384.1
22.5°	375.9	376.3	376.7	376.7	376.5	376.3	376.0	375.9
25°	364.2	364.6	365.0	364.9	364.4	364.0	363.6	363.1
27.5°	350.5	350.8	351.1	351.2	351.0	350.8	350.6	350.4
30°	341.2	341.3	341.5	341.6	341.5	341.4	341.3	341.3
32.5°	332.3	332.4	332.6	332.7	332.6	332.5	332.4	332.3
35°	317.9	318.2	318.4	318.5	318.5	318.5	318.5	318.5
37.5°	302.7	303.1	303.4	303.6	303.6	303.5	303.5	303.4
40°	292.5	292.8	293.3	293.6	293.7	293.9	294.1	294.3
42.5°	283.1	283.6	284.0	284.2	284.3	284.3	284.3	284.4
45°	268.0	268.6	269.2	269.6	269.7	269.7	269.8	269.9
47.5°	252.3	253.2	254.1	254.7	254.9	255.1	255.3	255.5
50°	241.8	242.9	243.9	244.5	244.8	245.0	245.3	245.6
52.5°	231.5	232.6	233.6	234.3	234.4	234.7	234.9	235.1
55°	215.1	216.1	217.1	217.8	218.1	218.5	218.9	219.3
57.5°	198.9	200.0	201.2	201.9	202.2	202.4	202.8	203.0
60°	187.8	189.1	190.6	191.4	191.6	191.9	192.2	192.4
62.5°	176.6	178.1	179.6	180.5	180.8	181.2	181.6	181.9
65°	159.8	161.1	162.5	163.4	163.7	164.1	164.5	164.9
67.5°	142.6	144.2	145.9	147.0	147.4	147.9	148.4	148.8
70°	130.8	132.6	134.3	135.5	136.0	136.5	137.1	137.7
72.5°	119.9	121.8	123.7	124.8	125.2	125.6	126.0	126.4
75°	103.4	105.2	107.1	108.2	108.7	109.1	109.6	110.0
77.5°	86.9	88.9	90.9	92.1	92.5	92.8	93.2	93.5
80°	77.0	79.0	81.0	82.2	82.6	82.9	83.3	83.6
82.5°	67.6	69.6	71.5	72.8	73.5	74.1	74.7	75.4
85°	54.8	56.7	58.8	60.1	60.8	61.6	62.3	63.0
87.5°	46.8	49.0	51.4	52.8	53.6	54.3	55.0	55.7
90°	50.7	53.6	56.4	58.5	59.6	60.7	61.8	62.9
92.5°	49.2	52.1	54.8	56.7	57.5	58.4	59.3	60.1
95°	46.8	49.6	52.4	54.1	54.8	55.4	56.0	56.7
97.5°	57.4	55.0	52.5	51.6	52.3	52.9	53.5	54.1
100°	105.4	84.2	63.0	52.4	52.3	52.3	52.3	52.2
102.5°	174.9	172.3	169.8	163.5	153.6	143.6	133.6	123.6
105°	234.2	235.9	237.8	239.0	239.4	240.0	240.4	240.9
107.5°	287.4	289.3	291.1	292.1	292.2	292.3	292.4	292.5
110°	321.8	323.1	324.3	325.4	326.2	327.0	327.8	328.6



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CATALOG NUMBER: S125DIP-S375D810U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	355.8	356.9	357.9	358.6	359.1	359.5	360.0	360.3
115°	407.2	408.3	409.3	409.7	409.3	408.8	408.5	408.1
117.5°	456.7	457.5	458.3	458.7	459.0	459.1	459.4	459.6
120°	488.7	490.0	491.2	491.8	491.5	491.3	491.1	490.9
122.5°	519.2	520.3	521.5	521.8	521.6	521.2	520.8	520.5
125°	563.5	564.4	565.2	565.6	565.6	565.6	565.5	565.5
127.5°	603.8	604.8	605.8	606.0	605.4	604.8	604.1	603.5
130°	630.3	631.1	631.9	632.1	631.9	631.5	631.2	630.9
132.5°	654.8	656.0	657.2	657.5	657.2	656.8	656.4	656.0
135°	690.5	691.4	692.3	692.5	692.1	691.6	691.1	690.6
137.5°	724.2	725.3	726.5	726.8	726.4	725.9	725.5	725.1
140°	744.8	746.1	747.3	747.8	747.2	746.6	746.1	745.5
142.5°	765.1	766.0	766.9	767.0	766.5	766.0	765.4	764.8
145°	794.2	794.7	795.3	795.4	794.8	794.2	793.7	793.1
147.5°	819.2	819.6	819.9	819.6	818.6	817.7	816.7	815.7
150°	835.4	835.7	836.0	835.5	834.4	833.3	832.1	831.0
152.5°	849.9	850.2	850.5	850.1	849.0	847.9	846.8	845.7
155°	869.9	870.3	870.8	870.4	869.2	867.9	866.7	865.4
157.5°	886.4	886.9	887.3	887.0	885.7	884.5	883.2	882.0
160°	896.6	897.2	897.9	897.6	896.3	895.1	893.9	892.6
162.5°	906.1	907.0	907.8	907.6	906.2	904.8	903.5	902.1
165°	918.2	919.1	920.1	919.9	918.6	917.4	916.1	914.9
167.5°	927.4	928.4	929.6	929.4	928.0	926.7	925.2	923.9
170°	932.0	933.3	934.5	934.4	933.1	931.7	930.2	928.9
172.5°	935.7	936.8	938.0	937.8	936.4	935.0	933.6	932.2
175°	939.7	940.9	942.2	942.1	940.8	939.3	938.0	936.6
177.5°	941.4	942.2	943.1	943.1	942.0	941.0	940.0	939.1
180°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8

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