

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: P333281-927

Luminaire Tested: **S125DIP-S1090D1035U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333281-927
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: S125DIP-S1090D1035U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6216.6 lumens
Efficiency: N/A
Efficacy: 102.8 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: General Diffuse

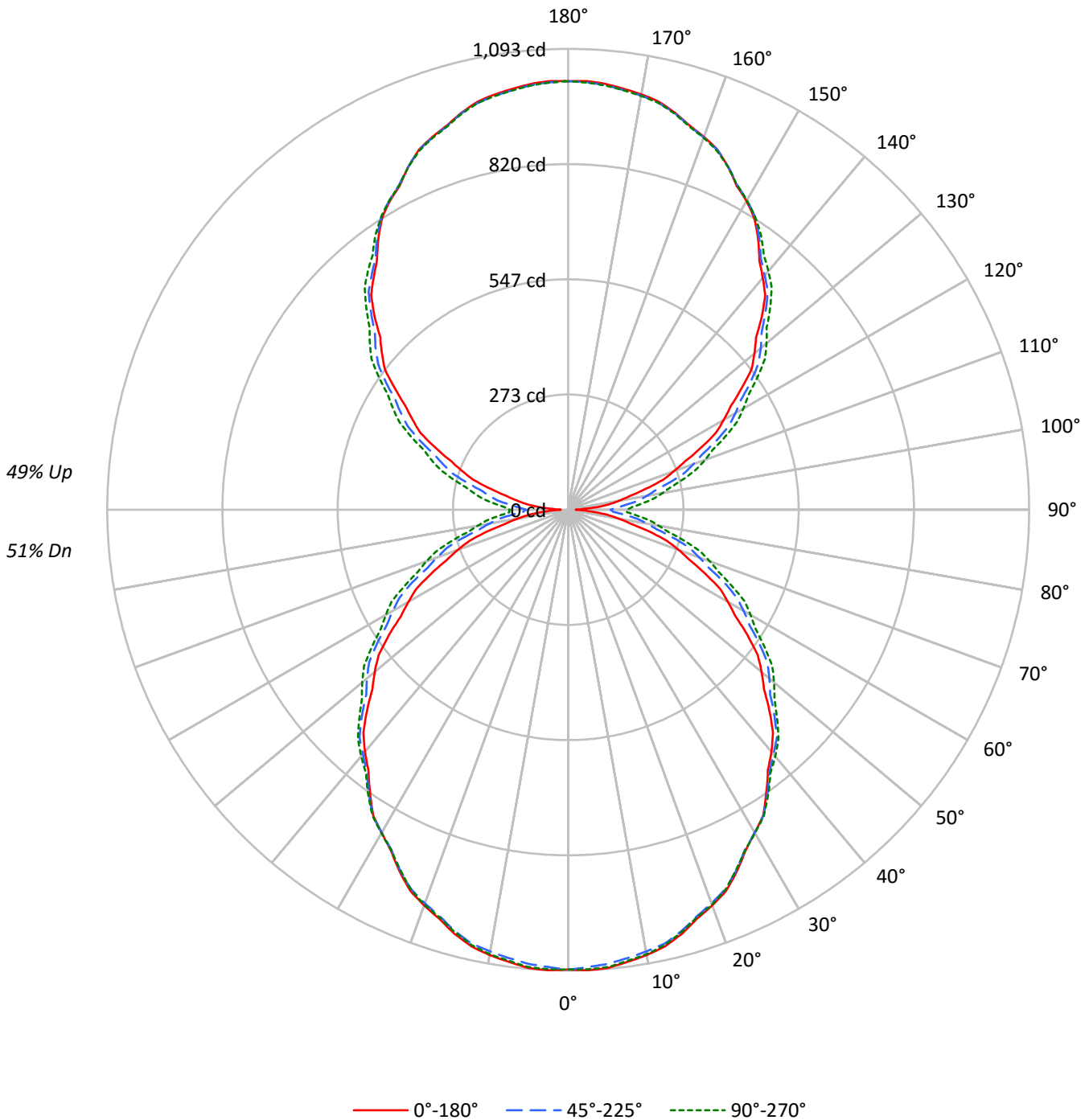
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	97	93	88	85	90	86	82	79	72	70	67		60	58	57		49	48	47	41
2	88	80	74	69	81	74	69	64	63	59	55		53	49	47		43	41	39	34
3	80	70	63	57	74	65	58	53	55	50	46		46	42	39		38	35	33	29
4	73	62	54	48	67	58	50	45	49	43	39		41	37	33		34	31	28	24
5	67	55	47	41	62	51	44	38	44	38	34		37	32	29		30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29		33	29	25		27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26		30	26	22		25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23		28	23	20		23	19	17	14
9	49	37	29	24	46	34	28	23	30	24	20		25	21	18		21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18		23	19	16		20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7045	7045	7045
5°	7059	6915	6937
10°	7008	6791	6781
15°	6926	6644	6583
20°	6814	6461	6385
25°	6679	6266	6141
30°	6517	6050	5920
35°	6366	5853	5717
40°	6211	5644	5513
45°	6037	5466	5331
50°	5872	5272	5172
55°	5671	5090	4983
60°	5453	4881	4791
65°	5225	4664	4575
70°	4967	4366	4353
75°	4557	4080	4079
80°	4018	3734	3783
85°	3519	3499	3689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.7
10°-20°	292.8	4.7
20°-30°	435.5	7.0
30°-40°	515.8	8.3
40°-50°	533.3	8.6
50°-60°	491.3	7.9
60°-70°	397.1	6.4
70°-80°	265.9	4.3
80°-90°	140.1	2.3
90°-100°	145.5	2.3
100°-110°	258.1	4.2
110°-120°	378.7	6.1
120°-130°	469.8	7.6
130°-140°	511.5	8.2
140°-150°	494.0	7.9
150°-160°	413.3	6.6
160°-170°	274.7	4.4
170°-180°	96.1	1.5
0°-30°	831.4	13.4
0°-40°	1347.2	21.7
0°-60°	2371.8	38.2
0°-90°	3174.9	51.1
90°-120°	782.2	12.6
90°-150°	2257.5	36.3
90°-180°	3042.0	48.9
0°-180°	6216.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1091	1088	1081	1089	1089	103
15°	1042	1042	1035	1041	1037	293
25°	946	949	943	947	942	435
35°	819	826	824	826	827	512
45°	675	686	692	699	700	521
55°	519	536	553	564	569	463
65°	357	382	407	423	428	354
75°	197	225	259	279	286	209
85°	59	94	132	154	164	63
90°	18	58	100	128	139	14
95°	65	96	139	167	177	66
105°	190	212	248	273	284	203
115°	347	359	387	405	411	343
125°	502	506	528	542	548	449
135°	649	653	661	674	677	500
145°	785	787	789	794	796	490
155°	897	897	898	900	897	413
165°	975	974	974	977	973	275
175°	1014	1011	1011	1015	1010	96
180°	1016	1016	1016	1016	1016	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1093.4	1093.0	1092.6	1092.3	1091.9	1091.0	1089.6	1088.3	1087.0	1085.7	1087.0
5°	1090.8	1090.4	1089.9	1089.4	1088.9	1087.8	1086.2	1084.5	1082.8	1081.2	1083.1
7.5°	1081.2	1081.0	1080.8	1080.6	1080.5	1079.5	1077.8	1076.0	1074.4	1072.6	1074.3
10°	1072.6	1072.6	1072.6	1072.6	1072.6	1071.7	1069.8	1067.9	1066.0	1064.1	1065.7
12.5°	1060.7	1060.8	1061.0	1061.2	1061.4	1060.7	1059.2	1057.7	1056.2	1054.6	1056.0
15°	1041.6	1041.9	1042.1	1042.4	1042.6	1041.9	1040.2	1038.6	1036.9	1035.2	1036.6
17.5°	1016.8	1017.2	1017.7	1018.2	1018.7	1018.1	1016.4	1014.8	1013.1	1011.5	1012.6
20°	998.9	999.3	999.8	1000.3	1000.8	1000.1	998.5	996.8	995.1	993.5	994.2
22.5°	978.3	979.1	980.0	980.9	981.8	981.2	979.4	977.6	975.7	973.8	974.7
25°	946.4	947.1	947.8	948.6	949.3	949.0	947.5	946.1	944.7	943.3	944.2
27.5°	910.9	912.0	913.0	914.1	915.1	914.8	913.2	911.6	910.0	908.4	909.0
30°	884.4	885.8	887.2	888.7	890.1	890.1	888.7	887.2	885.8	884.4	884.9
32.5°	860.5	861.7	862.9	864.2	865.4	865.5	864.4	863.4	862.4	861.3	861.8
35°	819.2	820.9	822.5	824.2	825.9	826.3	825.6	824.9	824.2	823.5	824.2
37.5°	777.9	779.4	780.9	782.4	783.9	784.7	784.4	784.2	783.9	783.7	784.7
40°	749.6	751.5	753.4	755.3	757.2	758.1	757.9	757.6	757.4	757.2	758.1
42.5°	718.8	721.4	723.8	726.3	728.7	730.2	730.8	731.3	731.8	732.4	733.5
45°	674.8	677.4	680.0	682.6	685.2	687.1	688.3	689.5	690.7	691.9	693.6
47.5°	629.7	632.1	634.5	636.9	639.4	641.6	643.6	645.7	647.8	649.7	652.2
50°	598.9	601.5	604.1	606.7	609.3	612.0	614.6	617.2	619.8	622.4	625.0
52.5°	566.3	569.6	572.7	575.9	579.1	582.3	585.5	588.7	591.8	595.0	597.9
55°	518.6	522.4	526.2	530.0	533.9	537.7	541.5	545.3	549.1	552.9	555.5
57.5°	469.9	474.4	479.0	483.6	488.1	492.7	497.0	501.4	505.7	510.1	513.1
60°	437.4	442.1	446.9	451.6	456.4	461.1	465.9	470.6	475.4	480.1	483.7
62.5°	405.8	410.5	415.3	420.0	424.8	429.7	434.8	440.0	445.1	450.2	454.2
65°	357.2	362.7	368.1	373.6	379.1	384.6	390.3	396.0	401.7	407.4	411.0
67.5°	311.4	316.7	321.9	327.3	332.5	338.0	343.9	349.7	355.5	361.2	365.6
70°	278.1	283.5	289.0	294.5	299.9	305.7	311.9	318.1	324.2	330.4	334.9
72.5°	245.6	251.2	256.8	262.5	268.2	274.3	281.1	287.9	294.6	301.3	306.3
75°	196.8	203.0	209.1	215.3	221.5	228.4	236.0	243.6	251.2	258.8	263.6
77.5°	150.0	157.1	164.2	171.3	178.5	185.7	193.0	200.3	207.6	214.9	220.1
80°	120.8	127.9	135.1	142.2	149.3	156.9	165.0	173.1	181.2	189.3	194.5
82.5°	94.3	101.8	109.3	116.8	124.4	132.2	140.5	148.8	157.1	165.3	170.4
85°	58.8	66.6	74.5	82.3	90.2	98.2	106.5	114.9	123.2	131.5	136.7
87.5°	33.5	41.4	49.3	57.2	65.0	73.2	81.5	89.8	98.2	106.5	112.1
90°	17.9	26.9	35.9	44.9	53.9	63.1	72.4	81.8	91.0	100.4	106.7
92.5°	34.5	42.5	50.5	58.6	66.6	75.5	85.3	95.1	104.9	114.6	121.0
95°	65.3	71.9	78.3	84.9	91.4	99.6	109.5	119.3	129.1	138.9	145.4
97.5°	98.1	103.7	109.4	115.1	120.8	128.8	139.0	149.2	159.5	169.7	175.9
100°	122.5	127.5	132.5	137.4	142.4	149.9	159.8	169.7	179.6	189.4	196.0
102.5°	148.9	154.2	159.5	164.8	170.1	177.1	185.6	194.2	202.7	211.4	217.9
105°	190.0	194.6	199.3	204.0	208.7	215.1	223.3	231.5	239.6	247.9	253.7
107.5°	235.5	239.6	243.7	247.8	251.9	257.8	265.5	273.1	280.7	288.4	293.7
110°	266.9	270.6	274.3	278.1	281.8	287.2	294.5	301.7	308.8	316.0	321.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	299.8	302.5	305.3	308.0	310.8	315.7	322.8	329.9	337.1	344.2	348.8
115°	347.3	349.7	352.0	354.4	356.7	361.2	367.7	374.2	380.8	387.3	391.4
117.5°	394.9	396.3	397.8	399.2	400.6	404.3	410.5	416.7	422.9	429.0	433.2
120°	425.3	426.9	428.5	430.1	431.7	435.3	440.9	446.6	452.2	457.9	461.9
122.5°	457.3	458.0	458.7	459.3	459.9	463.1	468.9	474.6	480.3	486.1	489.8
125°	501.8	502.6	503.4	504.2	505.0	507.9	512.8	517.8	522.7	527.6	531.1
127.5°	548.1	548.5	548.8	549.2	549.5	551.8	555.9	560.0	564.1	568.2	571.6
130°	576.6	577.3	577.9	578.5	579.2	581.3	585.0	588.7	592.3	596.0	599.2
132.5°	604.2	605.6	607.0	608.4	609.8	611.7	614.3	616.7	619.2	621.7	624.9
135°	649.1	649.9	650.7	651.5	652.4	653.7	655.5	657.4	659.2	661.0	664.1
137.5°	691.3	692.1	692.9	693.7	694.6	695.6	696.8	698.0	699.2	700.4	703.4
140°	717.6	718.5	719.4	720.3	721.1	721.9	722.7	723.5	724.2	725.0	727.9
142.5°	744.8	745.4	745.9	746.5	747.0	747.7	748.4	749.1	749.8	750.5	753.0
145°	784.8	785.3	785.8	786.2	786.7	787.2	787.7	788.2	788.8	789.3	790.5
147.5°	820.8	821.2	821.6	822.0	822.3	822.8	823.2	823.6	823.9	824.4	825.2
150°	845.4	845.3	845.1	844.9	844.8	845.0	845.7	846.4	847.1	847.8	847.8
152.5°	865.7	865.9	866.2	866.4	866.6	867.0	867.2	867.5	867.8	868.1	868.5
155°	896.8	896.8	896.8	896.8	896.8	896.9	897.1	897.3	897.5	897.6	898.3
157.5°	924.7	924.3	923.9	923.5	923.1	923.1	923.2	923.4	923.6	923.8	924.5
160°	941.1	940.6	940.1	939.5	939.1	938.9	939.1	939.2	939.4	939.5	940.2
162.5°	955.7	955.3	954.9	954.5	954.2	953.9	954.0	954.0	954.1	954.1	955.0
165°	975.2	974.8	974.5	974.1	973.8	973.7	973.8	974.0	974.1	974.4	975.1
167.5°	991.6	990.9	990.2	989.5	988.8	988.4	988.4	988.4	988.4	988.4	989.5
170°	1000.4	999.7	999.0	998.4	997.7	997.3	997.3	997.3	997.3	997.3	998.4
172.5°	1006.8	1006.1	1005.4	1004.6	1004.0	1003.6	1003.6	1003.6	1003.6	1003.6	1004.6
175°	1013.9	1013.2	1012.5	1011.8	1011.1	1010.7	1010.7	1010.7	1010.7	1010.7	1011.8
177.5°	1017.6	1017.0	1016.4	1015.8	1015.3	1014.9	1014.8	1014.6	1014.5	1014.4	1015.3
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1088.3	1089.6	1091.0	1091.5	1091.4	1091.2	1091.0	1090.8
5°	1085.0	1086.9	1088.8	1089.6	1089.4	1089.2	1088.9	1088.7
7.5°	1075.9	1077.6	1079.3	1080.0	1079.7	1079.5	1079.3	1079.0
10°	1067.4	1069.1	1070.7	1071.4	1071.2	1071.0	1070.7	1070.5
12.5°	1057.2	1058.5	1059.8	1060.1	1059.5	1058.9	1058.3	1057.6
15°	1038.1	1039.5	1040.9	1041.2	1040.2	1039.3	1038.3	1037.4
17.5°	1013.7	1014.7	1015.8	1016.1	1015.5	1014.9	1014.4	1013.8
20°	994.9	995.6	996.3	996.7	996.7	996.7	996.7	996.7
22.5°	975.7	976.5	977.4	977.6	977.0	976.4	975.9	975.3
25°	945.2	946.1	947.1	946.9	945.7	944.5	943.3	942.1
27.5°	909.7	910.4	911.0	911.2	910.7	910.3	909.8	909.4
30°	885.3	885.8	886.3	886.5	886.2	886.0	885.7	885.5
32.5°	862.3	862.8	863.2	863.3	863.1	862.8	862.6	862.4
35°	824.9	825.6	826.3	826.6	826.6	826.6	826.6	826.6
37.5°	785.6	786.6	787.5	787.9	787.8	787.7	787.6	787.5
40°	759.1	760.0	761.0	761.7	762.2	762.6	763.1	763.6
42.5°	734.6	735.8	736.9	737.5	737.6	737.7	737.8	737.9
45°	695.2	696.9	698.5	699.5	699.7	700.0	700.2	700.4
47.5°	654.7	657.0	659.5	660.9	661.5	662.0	662.5	663.1
50°	627.6	630.3	632.9	634.5	635.3	636.0	636.7	637.4
52.5°	600.6	603.4	606.3	607.9	608.4	609.0	609.5	610.0
55°	558.1	560.7	563.3	565.1	566.1	567.0	568.0	568.9
57.5°	516.1	519.1	522.1	523.9	524.7	525.4	526.1	526.8
60°	487.3	490.8	494.4	496.5	497.3	498.0	498.7	499.4
62.5°	458.1	462.1	466.0	468.4	469.4	470.2	471.1	472.1
65°	414.5	418.1	421.7	424.0	424.9	425.9	426.8	427.8
67.5°	369.9	374.2	378.6	381.4	382.5	383.8	385.0	386.3
70°	339.5	344.0	348.5	351.5	352.9	354.3	355.8	357.2
72.5°	311.2	316.1	320.9	323.9	325.0	326.0	327.0	328.1
75°	268.3	273.1	277.8	280.7	281.9	283.1	284.3	285.5
77.5°	225.4	230.6	235.8	238.9	239.9	240.8	241.8	242.7
80°	199.7	204.9	210.2	213.3	214.2	215.2	216.1	217.1
82.5°	175.4	180.5	185.4	188.9	190.6	192.3	194.0	195.7
85°	142.0	147.2	152.4	156.0	157.9	159.8	161.7	163.6
87.5°	117.8	123.4	129.0	132.8	134.5	136.3	138.1	139.8
90°	113.0	119.4	125.7	130.0	132.2	134.4	136.6	138.8
92.5°	127.5	134.0	140.4	144.7	146.7	148.7	150.8	152.8
95°	151.9	158.4	164.8	169.1	171.0	173.1	175.1	177.1
97.5°	182.0	188.1	194.3	198.3	200.1	201.9	203.7	205.6
100°	202.6	209.1	215.7	219.9	221.7	223.5	225.2	227.0
102.5°	224.3	230.9	237.4	241.6	243.6	245.5	247.4	249.3
105°	259.4	265.2	271.1	275.0	277.3	279.5	281.6	283.8
107.5°	298.9	304.1	309.3	312.7	314.1	315.5	317.0	318.5
110°	326.1	331.1	336.2	339.5	341.0	342.4	343.9	345.4



TEST NUMBER: P333281-927

CATALOG NUMBER: S125DIP-S1090D1035U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	353.3	357.9	362.5	365.4	366.8	368.1	369.5	370.8
115°	395.5	399.7	403.7	406.4	407.7	408.9	410.2	411.4
117.5°	437.4	441.6	445.8	448.3	449.2	450.1	451.0	451.9
120°	466.0	470.0	474.0	476.4	477.1	477.8	478.6	479.3
122.5°	493.5	497.2	500.9	503.2	504.1	504.9	505.8	506.7
125°	534.5	538.0	541.4	543.6	544.6	545.7	546.7	547.7
127.5°	574.9	578.3	581.6	583.8	584.8	585.8	586.8	587.9
130°	602.3	605.5	608.6	610.6	611.5	612.3	613.1	613.9
132.5°	628.0	631.1	634.3	636.1	636.7	637.2	637.6	638.2
135°	667.2	670.3	673.4	675.2	675.7	676.1	676.6	677.1
137.5°	706.4	709.4	712.4	714.0	714.1	714.1	714.2	714.2
140°	730.9	733.9	736.9	738.4	738.5	738.6	738.6	738.6
142.5°	755.3	757.8	760.3	761.5	761.6	761.7	761.8	761.8
145°	791.7	792.9	794.1	794.9	795.3	795.7	796.1	796.5
147.5°	826.0	826.8	827.6	827.7	826.9	826.1	825.3	824.6
150°	847.8	847.8	847.8	847.8	847.6	847.6	847.4	847.3
152.5°	868.9	869.3	869.7	869.7	869.1	868.5	867.9	867.4
155°	899.0	899.8	900.5	900.4	899.5	898.6	897.7	896.8
157.5°	925.1	925.8	926.5	926.3	925.2	924.0	922.8	921.7
160°	941.0	941.7	942.4	942.3	941.4	940.6	939.7	938.7
162.5°	955.8	956.6	957.5	957.4	956.4	955.4	954.3	953.3
165°	975.7	976.4	977.2	977.0	976.0	974.9	973.8	972.8
167.5°	990.5	991.6	992.7	992.6	991.6	990.5	989.4	988.2
170°	999.4	1000.4	1001.5	1001.4	1000.2	998.9	997.8	996.5
172.5°	1005.8	1006.8	1007.8	1007.8	1006.7	1005.7	1004.6	1003.5
175°	1012.9	1013.9	1014.9	1014.9	1013.7	1012.4	1011.1	1010.0
177.5°	1016.1	1016.9	1017.7	1017.7	1016.7	1015.7	1014.7	1013.8
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3

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