

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: P333154-930

Luminaire Tested: **S125DIP-S375D1205U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333154-930
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-S375D1205U930-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5118.3 lumens
Efficiency: N/A
Efficacy: 121.3 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

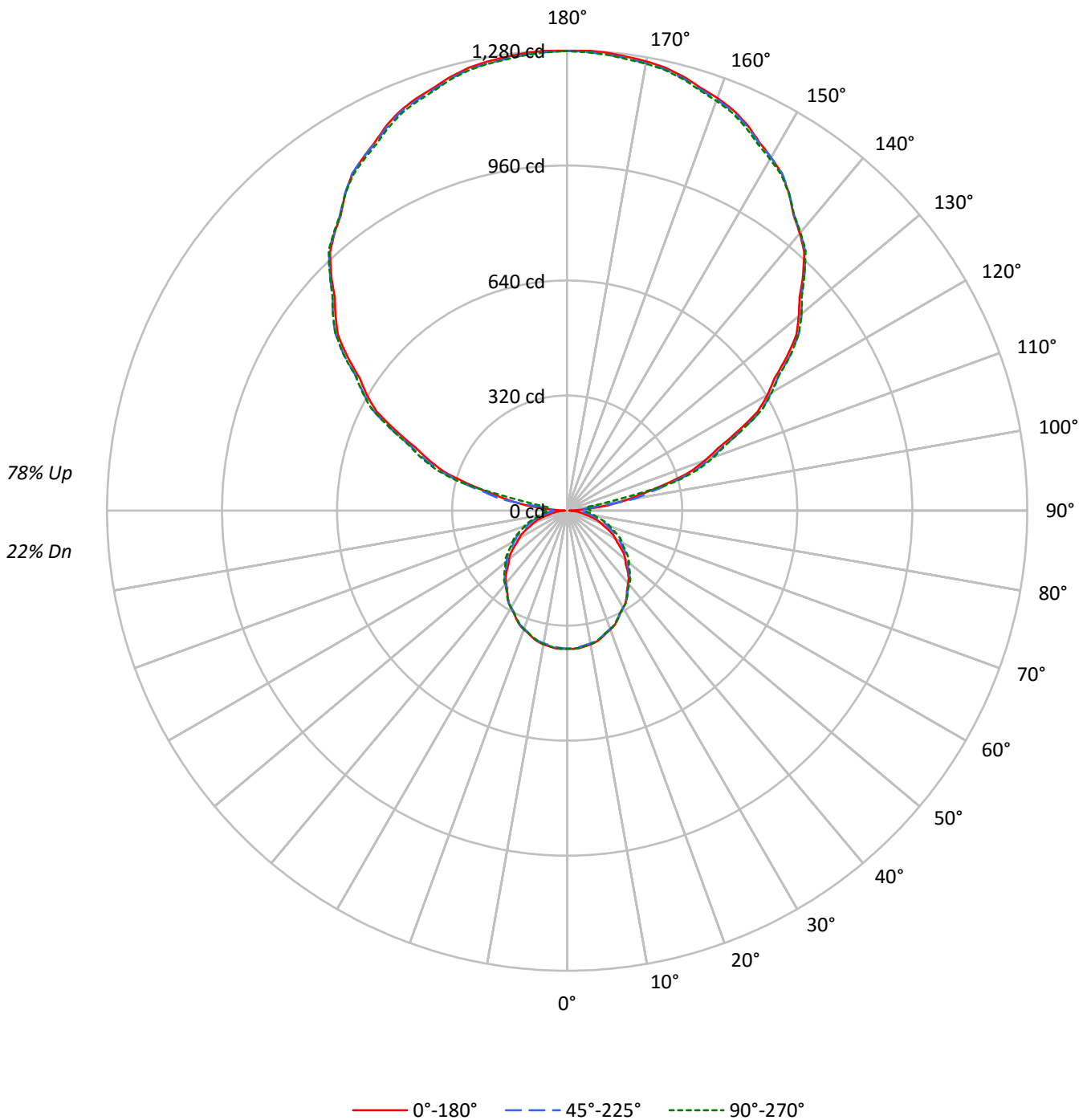
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333154-930

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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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	91	87	83	80	81	77	74	71	59	57	55	42	40	39	26	25	25	18
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	23	22	21	15
3	75	66	59	54	66	59	53	48	45	41	38	32	29	27	20	19	17	12
4	69	58	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15	10
5	63	52	44	38	56	46	39	34	35	31	27	25	22	20	16	14	13	9
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	14	13	11	8
7	53	42	34	29	47	37	31	26	29	24	20	21	17	15	13	11	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

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	0.7
10°-20°	103.2	2.0
20°-30°	153.4	3.0
30°-40°	181.7	3.6
40°-50°	187.9	3.7
50°-60°	173.1	3.4
60°-70°	139.9	2.7
70°-80°	93.7	1.8
80°-90°	51.3	1.0
90°-100°	73.7	1.4
100°-110°	306.4	6.0
110°-120°	532.7	10.4
120°-130°	674.0	13.2
130°-140°	720.0	14.1
140°-150°	673.4	13.2
150°-160°	544.2	10.6
160°-170°	351.9	6.9
170°-180°	121.4	2.4
0°-30°	292.9	5.7
0°-40°	474.7	9.3
0°-60°	835.7	16.3
0°-90°	1120.5	21.9
90°-120°	912.8	17.8
90°-150°	2980.2	58.2
90°-180°	3998.0	78.1
0°-180°	5118.3	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	27	46	59	65	6
95°	59	64	43	55	58	73
105°	282	292	303	310	312	299
115°	525	533	543	546	543	521
125°	745	752	759	761	760	665
135°	928	933	934	937	934	715
145°	1076	1077	1077	1080	1076	672
155°	1184	1179	1181	1183	1176	545
165°	1250	1244	1245	1250	1243	353
175°	1278	1273	1274	1280	1272	122
180°	1278	1278	1278	1278	1278	



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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°	12.0	15.0	18.0	21.0	24.1	27.1	30.2	33.3	36.5	39.6	41.8
90°	7.0	11.3	15.7	20.1	24.5	28.8	33.1	37.4	41.7	46.1	49.0
92.5°	20.1	21.3	22.6	23.9	25.2	28.0	32.2	36.4	40.6	44.8	47.8
95°	58.9	60.4	62.0	63.5	65.1	63.3	58.1	53.0	47.9	42.6	45.6
97.5°	117.2	120.3	123.4	126.5	129.6	124.6	111.5	98.4	85.4	72.2	68.1
100°	162.4	164.8	167.1	169.6	171.9	174.9	178.4	182.0	185.5	189.0	159.4
102.5°	208.3	210.8	213.2	215.6	218.0	220.8	223.9	227.1	230.2	233.3	229.0
105°	281.9	284.1	286.3	288.5	290.7	293.0	295.5	298.1	300.6	303.0	304.8
107.5°	358.5	359.6	360.7	361.8	363.0	365.0	367.9	370.6	373.5	376.3	378.1
110°	408.1	409.2	410.2	411.2	412.2	414.1	416.9	419.6	422.4	425.2	426.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	455.2	456.5	457.8	459.1	460.4	462.4	464.9	467.4	469.9	472.5	473.2
115°	525.3	526.9	528.6	530.2	531.8	533.9	536.2	538.7	541.0	543.4	544.0
117.5°	597.9	598.2	598.6	598.9	599.2	600.9	603.7	606.6	609.4	612.3	612.6
120°	643.4	643.4	643.4	643.5	643.5	644.8	647.3	650.0	652.5	655.0	656.1
122.5°	683.2	684.1	685.1	686.0	686.9	688.4	690.6	692.8	694.9	697.1	698.0
125°	745.3	746.7	748.1	749.5	750.9	752.4	754.1	755.8	757.4	759.1	759.6
127.5°	804.3	805.2	806.2	807.1	808.1	809.3	810.5	811.7	813.0	814.2	815.0
130°	840.7	841.6	842.6	843.5	844.5	845.7	847.1	848.5	849.9	851.3	851.7
132.5°	876.7	877.9	879.1	880.4	881.5	882.4	882.8	883.2	883.7	884.1	885.2
135°	928.4	929.5	930.7	931.9	933.1	933.8	933.9	934.1	934.3	934.4	935.1
137.5°	975.9	976.9	978.0	978.9	980.0	980.5	980.4	980.2	980.2	980.1	981.1
140°	1006.7	1007.1	1007.5	1007.9	1008.4	1008.4	1008.4	1008.2	1008.1	1008.0	1009.3
142.5°	1034.7	1034.9	1035.1	1035.3	1035.4	1035.7	1036.0	1036.3	1036.7	1036.9	1037.8
145°	1075.8	1076.2	1076.5	1076.8	1077.2	1077.3	1077.3	1077.3	1077.3	1077.3	1078.0
147.5°	1111.4	1111.3	1111.3	1111.2	1111.1	1111.2	1111.4	1111.7	1112.0	1112.2	1112.6
150°	1134.2	1133.8	1133.3	1132.9	1132.5	1132.5	1132.9	1133.3	1133.8	1134.2	1134.6
152.5°	1156.2	1155.3	1154.3	1153.4	1152.4	1152.2	1152.7	1153.1	1153.5	1153.9	1154.3
155°	1184.4	1183.2	1181.9	1180.6	1179.3	1178.9	1179.3	1179.7	1180.2	1180.6	1181.3
157.5°	1206.2	1205.4	1204.7	1204.0	1203.1	1202.8	1202.9	1202.9	1203.0	1203.0	1203.6
160°	1221.4	1220.1	1218.9	1217.6	1216.3	1215.8	1216.0	1216.2	1216.4	1216.6	1217.5
162.5°	1233.5	1232.2	1230.9	1229.7	1228.4	1227.9	1228.1	1228.3	1228.6	1228.7	1230.0
165°	1249.8	1248.5	1247.2	1246.0	1244.7	1244.2	1244.4	1244.6	1244.8	1245.0	1246.3
167.5°	1261.9	1260.6	1259.3	1258.0	1256.7	1256.1	1256.4	1256.5	1256.8	1257.0	1258.5
170°	1268.8	1267.3	1265.8	1264.3	1262.8	1262.2	1262.4	1262.7	1262.8	1263.1	1264.8
172.5°	1273.3	1271.8	1270.3	1268.9	1267.4	1266.8	1267.2	1267.6	1268.0	1268.4	1269.9
175°	1278.2	1276.9	1275.7	1274.4	1273.2	1272.6	1272.8	1273.1	1273.3	1273.5	1275.1
177.5°	1280.5	1279.4	1278.5	1277.5	1276.4	1276.0	1276.2	1276.4	1276.5	1276.7	1277.9
180°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2



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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°	43.9	46.1	48.2	49.7	50.3	51.0	51.8	52.5
90°	52.0	55.0	58.0	60.1	61.3	62.5	63.8	65.0
92.5°	50.7	53.6	56.5	58.4	59.3	60.2	61.1	61.9
95°	48.4	51.4	54.2	56.0	56.6	57.2	57.7	58.3
97.5°	63.9	59.7	55.5	53.7	54.3	54.9	55.4	56.0
100°	129.7	100.1	70.5	55.5	55.2	54.9	54.5	54.2
102.5°	224.8	220.5	216.3	207.2	193.4	179.6	165.8	152.0
105°	306.5	308.1	309.8	310.8	311.2	311.5	311.9	312.3
107.5°	379.7	381.4	383.1	383.9	383.8	383.7	383.6	383.4
110°	427.1	428.0	429.0	429.8	430.6	431.5	432.3	433.1



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CATALOG NUMBER: S125DIP-S375D1205U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	473.9	474.6	475.3	475.9	476.1	476.5	476.7	477.0
115°	544.8	545.4	546.1	546.0	545.3	544.5	543.7	543.0
117.5°	612.9	613.3	613.6	613.8	613.8	613.8	613.8	613.8
120°	657.0	658.0	659.1	659.3	658.8	658.2	657.6	657.0
122.5°	699.0	699.9	700.8	700.9	700.2	699.4	698.7	698.1
125°	760.1	760.6	761.1	761.2	761.0	760.8	760.6	760.3
127.5°	815.8	816.5	817.3	817.2	816.1	815.1	814.0	812.9
130°	852.3	852.9	853.4	853.4	852.7	852.1	851.4	850.8
132.5°	886.2	887.3	888.4	888.5	887.8	887.0	886.4	885.7
135°	935.8	936.5	937.1	937.0	936.2	935.3	934.5	933.6
137.5°	982.2	983.3	984.4	984.6	983.7	983.0	982.3	981.5
140°	1010.6	1012.0	1013.3	1013.6	1012.6	1011.7	1010.7	1009.8
142.5°	1038.7	1039.6	1040.4	1040.4	1039.4	1038.5	1037.6	1036.7
145°	1078.6	1079.2	1079.9	1079.7	1078.8	1077.8	1076.9	1076.0
147.5°	1113.0	1113.4	1113.8	1113.3	1111.9	1110.5	1109.1	1107.8
150°	1135.1	1135.5	1135.9	1135.3	1133.7	1132.0	1130.5	1128.9
152.5°	1154.7	1155.2	1155.6	1155.0	1153.6	1152.0	1150.6	1149.1
155°	1181.9	1182.5	1183.2	1182.6	1181.0	1179.2	1177.5	1175.9
157.5°	1204.4	1205.0	1205.7	1205.2	1203.5	1201.8	1200.1	1198.4
160°	1218.3	1219.1	1220.0	1219.6	1217.9	1216.2	1214.6	1212.8
162.5°	1231.1	1232.3	1233.5	1233.1	1231.3	1229.4	1227.6	1225.7
165°	1247.6	1248.9	1250.1	1249.9	1248.2	1246.5	1244.8	1243.2
167.5°	1260.0	1261.5	1263.1	1262.9	1260.9	1259.1	1257.2	1255.3
170°	1266.4	1268.1	1269.8	1269.7	1267.8	1265.9	1264.0	1262.1
172.5°	1271.4	1272.9	1274.4	1274.2	1272.4	1270.5	1268.5	1266.6
175°	1276.8	1278.6	1280.2	1280.1	1278.2	1276.4	1274.4	1272.5
177.5°	1279.0	1280.3	1281.4	1281.3	1280.0	1278.6	1277.2	1275.9
180°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2

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