

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: P333154-927

Luminaire Tested: **S125DIP-S375D1205U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333154-927
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-S375D1205U927-4F0-1E-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: 4973.1 lumens
Efficiency: N/A
Efficacy: 117.8 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

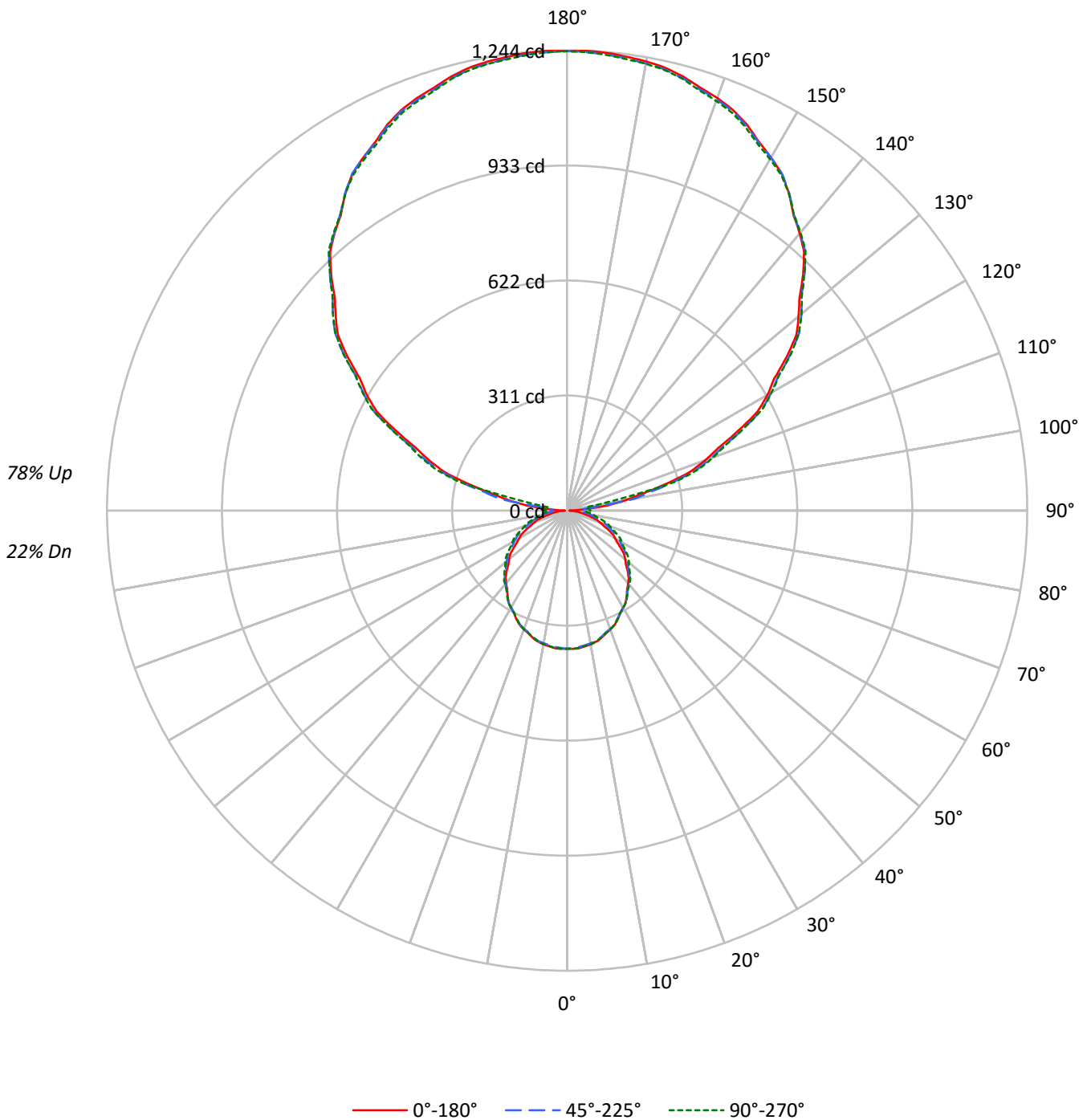
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.7
10°-20°	100.2	2.0
20°-30°	149.1	3.0
30°-40°	176.6	3.6
40°-50°	182.6	3.7
50°-60°	168.2	3.4
60°-70°	135.9	2.7
70°-80°	91.0	1.8
80°-90°	49.8	1.0
90°-100°	71.6	1.4
100°-110°	297.7	6.0
110°-120°	517.6	10.4
120°-130°	654.9	13.2
130°-140°	699.6	14.1
140°-150°	654.3	13.2
150°-160°	528.8	10.6
160°-170°	342.0	6.9
170°-180°	117.9	2.4
0°-30°	284.6	5.7
0°-40°	461.2	9.3
0°-60°	812.0	16.3
0°-90°	1088.8	21.9
90°-120°	886.9	17.8
90°-150°	2895.7	58.2
90°-180°	3884.0	78.1
0°-180°	4973.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	7	26	45	57	63	6
95°	57	62	41	54	57	71
105°	274	284	294	302	304	290
115°	510	518	528	531	528	506
125°	724	730	738	740	739	647
135°	902	907	908	910	907	695
145°	1045	1047	1047	1049	1045	653
155°	1151	1146	1147	1149	1143	530
165°	1214	1209	1210	1215	1208	343
175°	1242	1237	1237	1244	1236	118
180°	1242	1242	1242	1242	1242	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.6	17.5	20.4	23.4	26.3	29.4	32.4	35.5	38.5	40.6
90°	6.8	11.0	15.3	19.5	23.8	28.0	32.2	36.4	40.6	44.8	47.6
92.5°	19.5	20.7	21.9	23.2	24.5	27.2	31.3	35.4	39.5	43.6	46.4
95°	57.3	58.7	60.2	61.7	63.2	61.5	56.5	51.5	46.5	41.4	44.3
97.5°	113.9	116.9	119.9	122.9	125.9	121.0	108.4	95.6	82.9	70.2	66.1
100°	157.8	160.1	162.4	164.8	167.1	169.9	173.3	176.8	180.2	183.6	154.9
102.5°	202.4	204.8	207.2	209.5	211.8	214.5	217.5	220.6	223.6	226.6	222.5
105°	273.9	276.1	278.2	280.4	282.4	284.7	287.2	289.6	292.1	294.5	296.1
107.5°	348.3	349.4	350.5	351.6	352.7	354.7	357.4	360.1	362.9	365.7	367.3
110°	396.6	397.6	398.5	399.5	400.5	402.3	405.0	407.7	410.4	413.1	414.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	442.3	443.5	444.8	446.1	447.3	449.2	451.7	454.2	456.6	459.1	459.8
115°	510.4	512.0	513.6	515.2	516.7	518.7	521.0	523.4	525.7	528.0	528.6
117.5°	580.9	581.2	581.6	581.9	582.3	583.8	586.6	589.4	592.2	594.9	595.2
120°	625.1	625.2	625.2	625.3	625.3	626.5	629.0	631.5	634.0	636.4	637.5
122.5°	663.8	664.7	665.7	666.5	667.4	668.9	671.0	673.1	675.2	677.3	678.2
125°	724.2	725.6	726.9	728.3	729.6	731.1	732.7	734.4	735.9	737.6	738.1
127.5°	781.5	782.4	783.3	784.3	785.2	786.3	787.5	788.7	790.0	791.2	791.9
130°	816.8	817.8	818.7	819.6	820.5	821.7	823.1	824.4	825.8	827.1	827.6
132.5°	851.8	853.0	854.2	855.4	856.5	857.4	857.8	858.2	858.6	859.0	860.1
135°	902.1	903.2	904.4	905.5	906.7	907.3	907.4	907.6	907.8	907.9	908.6
137.5°	948.2	949.2	950.2	951.2	952.2	952.7	952.6	952.4	952.4	952.3	953.3
140°	978.1	978.5	978.9	979.3	979.8	979.9	979.8	979.6	979.5	979.4	980.7
142.5°	1005.4	1005.5	1005.8	1005.9	1006.1	1006.3	1006.6	1006.9	1007.3	1007.5	1008.4
145°	1045.3	1045.7	1046.0	1046.3	1046.6	1046.8	1046.8	1046.8	1046.8	1046.8	1047.4
147.5°	1079.9	1079.8	1079.7	1079.7	1079.6	1079.7	1079.9	1080.1	1080.5	1080.7	1081.0
150°	1102.0	1101.6	1101.2	1100.8	1100.4	1100.4	1100.8	1101.2	1101.6	1102.0	1102.4
152.5°	1123.4	1122.5	1121.6	1120.7	1119.7	1119.5	1120.0	1120.4	1120.8	1121.2	1121.6
155°	1150.8	1149.6	1148.3	1147.2	1145.9	1145.5	1145.9	1146.3	1146.8	1147.2	1147.8
157.5°	1172.0	1171.2	1170.5	1169.8	1169.0	1168.7	1168.8	1168.8	1168.9	1168.9	1169.5
160°	1186.8	1185.5	1184.3	1183.0	1181.9	1181.3	1181.5	1181.7	1181.9	1182.1	1183.0
162.5°	1198.5	1197.3	1196.0	1194.8	1193.6	1193.1	1193.3	1193.5	1193.7	1193.9	1195.1
165°	1214.3	1213.1	1211.9	1210.7	1209.4	1208.9	1209.1	1209.3	1209.5	1209.7	1211.0
167.5°	1226.1	1224.9	1223.6	1222.3	1221.1	1220.5	1220.8	1220.9	1221.1	1221.4	1222.8
170°	1232.8	1231.4	1229.9	1228.4	1227.0	1226.5	1226.6	1226.9	1227.0	1227.2	1228.9
172.5°	1237.2	1235.7	1234.3	1232.9	1231.4	1230.9	1231.3	1231.7	1232.0	1232.4	1233.9
175°	1242.0	1240.7	1239.5	1238.3	1237.1	1236.5	1236.8	1237.0	1237.2	1237.4	1239.0
177.5°	1244.2	1243.2	1242.2	1241.3	1240.2	1239.8	1240.0	1240.2	1240.3	1240.5	1241.7
180°	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	42.7	44.8	46.8	48.2	48.9	49.6	50.3	51.0
90°	50.5	53.5	56.3	58.4	59.6	60.8	61.9	63.1
92.5°	49.3	52.0	54.9	56.7	57.6	58.5	59.3	60.1
95°	47.1	49.9	52.7	54.4	55.0	55.5	56.1	56.6
97.5°	62.1	58.0	53.9	52.2	52.8	53.3	53.9	54.4
100°	126.0	97.3	68.5	53.9	53.6	53.3	53.0	52.7
102.5°	218.4	214.3	210.2	201.4	187.9	174.5	161.1	147.7
105°	297.8	299.4	301.0	302.0	302.4	302.7	303.1	303.5
107.5°	368.9	370.6	372.2	373.0	373.0	372.8	372.7	372.6
110°	414.9	415.9	416.8	417.6	418.4	419.2	420.0	420.8



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CATALOG NUMBER: S125DIP-S375D1205U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	460.5	461.1	461.8	462.4	462.6	463.0	463.2	463.5
115°	529.3	530.0	530.6	530.5	529.8	529.1	528.3	527.6
117.5°	595.6	595.9	596.2	596.4	596.4	596.4	596.4	596.4
120°	638.4	639.4	640.4	640.6	640.1	639.5	639.0	638.4
122.5°	679.1	680.0	681.0	681.0	680.3	679.6	678.9	678.3
125°	738.6	739.0	739.5	739.7	739.4	739.3	739.0	738.8
127.5°	792.7	793.4	794.2	794.0	793.0	791.9	790.9	789.8
130°	828.1	828.7	829.2	829.2	828.5	827.9	827.3	826.6
132.5°	861.1	862.1	863.2	863.3	862.6	861.9	861.3	860.5
135°	909.3	909.9	910.5	910.5	909.7	908.8	908.0	907.1
137.5°	954.3	955.4	956.5	956.6	955.8	955.1	954.4	953.6
140°	982.0	983.3	984.6	984.8	983.9	983.0	982.1	981.2
142.5°	1009.2	1010.1	1010.9	1010.9	1010.0	1009.1	1008.2	1007.3
145°	1048.0	1048.6	1049.2	1049.1	1048.2	1047.3	1046.4	1045.4
147.5°	1081.4	1081.8	1082.2	1081.7	1080.4	1079.0	1077.7	1076.4
150°	1102.9	1103.3	1103.7	1103.1	1101.5	1099.9	1098.4	1096.9
152.5°	1122.0	1122.4	1122.8	1122.3	1120.9	1119.4	1117.9	1116.5
155°	1148.3	1149.0	1149.6	1149.1	1147.5	1145.8	1144.1	1142.6
157.5°	1170.2	1170.8	1171.5	1171.0	1169.3	1167.8	1166.1	1164.4
160°	1183.8	1184.6	1185.4	1185.0	1183.4	1181.7	1180.1	1178.5
162.5°	1196.2	1197.4	1198.5	1198.2	1196.4	1194.5	1192.8	1191.0
165°	1212.2	1213.5	1214.7	1214.4	1212.8	1211.2	1209.5	1207.9
167.5°	1224.3	1225.7	1227.2	1227.1	1225.2	1223.4	1221.5	1219.7
170°	1230.5	1232.2	1233.8	1233.7	1231.8	1230.0	1228.2	1226.3
172.5°	1235.3	1236.8	1238.3	1238.1	1236.3	1234.5	1232.6	1230.7
175°	1240.6	1242.3	1243.9	1243.8	1242.0	1240.2	1238.3	1236.4
177.5°	1242.8	1244.0	1245.1	1245.0	1243.7	1242.4	1241.0	1239.8
180°	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0	1242.0

(END OF REPORT)