

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: P333361-830

Luminaire Tested: **S125DIW-S375D1340U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333361-830
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: S125DIW-S375D1340U830-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5763.6 lumens
Efficiency: N/A
Efficacy: 123.7 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

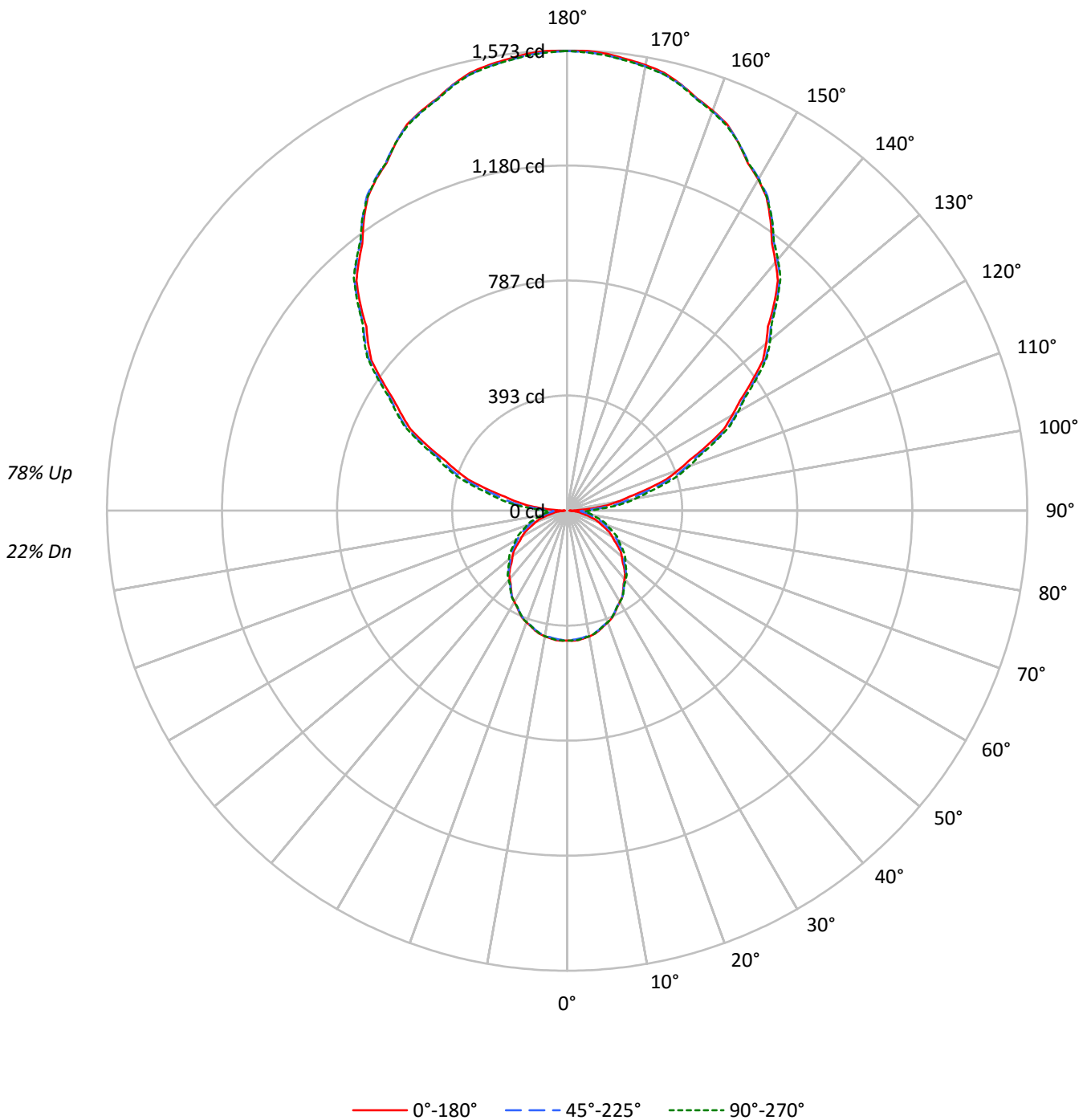
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	22
1	91	87	83	80	81	77	74	71	59	57	55	42	41	40	27	26	25	18
2	83	76	70	65	73	67	62	58	51	48	45	37	35	33	23	22	21	15
3	75	66	59	54	67	59	53	48	45	41	38	32	30	28	20	19	18	13
4	69	58	51	45	61	52	46	41	40	35	32	29	26	23	18	17	15	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	16	15	13	9
6	58	46	39	33	51	41	35	30	32	27	24	23	20	17	15	13	11	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	13	12	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	41	31	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	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2875	2817	2826
10°	2855	2766	2762
15°	2821	2706	2681
20°	2776	2631	2601
25°	2721	2552	2502
30°	2654	2464	2411
35°	2593	2384	2329
40°	2531	2299	2245
45°	2459	2226	2171
50°	2391	2147	2106
55°	2309	2073	2030
60°	2220	1989	1951
65°	2128	1900	1864
70°	2024	1779	1773
75°	1855	1662	1662
80°	1636	1521	1540
85°	1430	1424	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.7
10°-20°	119.3	2.1
20°-30°	177.4	3.1
30°-40°	210.1	3.6
40°-50°	217.2	3.8
50°-60°	200.1	3.5
60°-70°	161.8	2.8
70°-80°	108.3	1.9
80°-90°	59.6	1.0
90°-100°	136.7	2.4
100°-110°	334.0	5.8
110°-120°	541.9	9.4
120°-130°	701.5	12.2
130°-140°	780.0	13.5
140°-150°	761.5	13.2
150°-160°	638.9	11.1
160°-170°	424.7	7.4
170°-180°	148.6	2.6
0°-30°	338.7	5.9
0°-40°	548.8	9.5
0°-60°	966.1	16.8
0°-90°	1295.8	22.5
90°-120°	1012.6	17.6
90°-150°	3255.6	56.5
90°-180°	4468.0	77.5
0°-180°	5763.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	443	440	444	444	42
15°	424	424	422	424	422	119
25°	386	387	384	386	384	177
35°	334	336	336	337	337	209
45°	275	280	282	285	285	212
55°	211	218	225	230	232	189
65°	146	156	166	172	174	144
75°	80	92	105	114	116	85
85°	24	38	54	63	67	26
90°	8	32	55	71	78	9
95°	85	100	126	143	150	89
105°	283	296	316	332	339	302
115°	530	538	551	558	559	524
125°	771	778	788	792	793	690
135°	1001	1008	1012	1017	1015	771
145°	1212	1216	1220	1222	1220	757
155°	1386	1387	1388	1392	1386	638
165°	1508	1505	1506	1510	1504	425
175°	1567	1563	1562	1569	1561	149
180°	1571	1571	1571	1571	1571	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	445.4	445.2	445.1	444.9	444.8	444.4	443.8	443.3	442.8	442.2	442.8
5°	444.3	444.1	443.9	443.7	443.6	443.1	442.4	441.8	441.1	440.4	441.2
7.5°	440.4	440.4	440.3	440.2	440.1	439.7	439.0	438.3	437.6	436.9	437.6
10°	436.9	436.9	436.9	436.9	436.9	436.5	435.7	435.0	434.2	433.4	434.1
12.5°	432.1	432.2	432.2	432.3	432.3	432.1	431.5	430.8	430.2	429.6	430.1
15°	424.2	424.3	424.4	424.6	424.7	424.3	423.7	423.0	422.4	421.7	422.3
17.5°	414.2	414.3	414.5	414.7	414.9	414.7	414.1	413.3	412.6	412.0	412.5
20°	406.9	407.1	407.3	407.5	407.6	407.4	406.7	406.0	405.4	404.6	405.0
22.5°	398.5	398.9	399.2	399.5	399.9	399.6	398.9	398.1	397.4	396.6	397.0
25°	385.5	385.8	386.1	386.3	386.6	386.5	386.0	385.4	384.7	384.2	384.6
27.5°	371.1	371.5	371.9	372.3	372.8	372.7	372.0	371.4	370.7	370.0	370.2
30°	360.2	360.8	361.4	362.0	362.6	362.6	362.0	361.4	360.8	360.2	360.4
32.5°	350.5	351.0	351.5	352.0	352.5	352.5	352.1	351.7	351.3	350.8	351.0
35°	333.7	334.3	335.1	335.7	336.4	336.6	336.3	336.0	335.7	335.5	335.7
37.5°	316.9	317.4	318.1	318.7	319.3	319.6	319.5	319.4	319.3	319.2	319.6
40°	305.4	306.1	306.9	307.6	308.5	308.8	308.7	308.6	308.5	308.4	308.8
42.5°	292.8	293.8	294.8	295.9	296.8	297.5	297.7	297.8	298.1	298.3	298.8
45°	274.8	276.0	277.0	278.1	279.1	279.9	280.4	280.9	281.3	281.8	282.5
47.5°	256.5	257.5	258.4	259.5	260.4	261.4	262.2	263.0	263.8	264.7	265.7
50°	243.9	245.0	246.1	247.1	248.2	249.3	250.3	251.4	252.4	253.5	254.6
52.5°	230.7	232.0	233.3	234.6	235.9	237.1	238.5	239.8	241.1	242.3	243.6
55°	211.2	212.8	214.3	215.9	217.4	219.0	220.6	222.1	223.7	225.2	226.3
57.5°	191.4	193.2	195.1	197.0	198.9	200.7	202.5	204.2	206.0	207.7	209.0
60°	178.1	180.1	182.0	184.0	185.9	187.8	189.7	191.7	193.7	195.6	197.0
62.5°	165.2	167.2	169.2	171.1	173.1	175.0	177.1	179.2	181.3	183.4	185.0
65°	145.5	147.7	150.0	152.1	154.4	156.7	159.0	161.4	163.6	166.0	167.4
67.5°	126.9	129.0	131.1	133.3	135.4	137.7	140.1	142.4	144.8	147.1	148.9
70°	113.3	115.5	117.7	119.9	122.2	124.5	127.1	129.6	132.1	134.6	136.5
72.5°	100.0	102.4	104.6	106.9	109.2	111.8	114.5	117.3	120.0	122.7	124.8
75°	80.1	82.7	85.2	87.7	90.2	93.0	96.1	99.2	102.4	105.4	107.4
77.5°	61.1	64.0	66.9	69.7	72.7	75.6	78.6	81.6	84.5	87.6	89.7
80°	49.2	52.1	55.0	58.0	60.8	63.9	67.2	70.5	73.8	77.1	79.3
82.5°	38.5	41.5	44.6	47.6	50.6	53.9	57.2	60.6	64.0	67.3	69.4
85°	23.9	27.1	30.3	33.6	36.8	40.1	43.5	46.8	50.2	53.5	55.7
87.5°	13.9	17.3	20.9	24.4	28.0	31.6	35.3	38.9	42.6	46.3	48.7
90°	8.2	13.5	18.8	24.0	29.3	34.5	39.7	44.9	50.0	55.3	58.9
92.5°	35.8	40.2	44.7	49.0	53.4	58.4	64.2	69.8	75.6	81.2	85.2
95°	85.1	88.2	91.2	94.3	97.4	101.9	107.9	114.0	119.9	125.9	130.0
97.5°	137.1	139.7	142.1	144.6	147.1	151.8	158.7	165.7	172.6	179.6	183.3
100°	176.0	178.0	180.0	182.1	184.1	188.4	195.0	201.7	208.3	214.9	219.4
102.5°	217.6	220.6	223.6	226.6	229.5	233.4	238.3	243.1	247.9	252.7	257.3
105°	282.7	285.6	288.5	291.4	294.4	298.0	302.6	307.1	311.6	316.1	319.7
107.5°	354.6	357.2	359.9	362.6	365.2	368.6	372.6	376.6	380.7	384.7	387.5
110°	404.1	406.6	409.2	411.6	414.2	417.2	420.7	424.2	427.7	431.3	433.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	455.0	456.6	458.2	459.9	461.5	464.1	467.8	471.5	475.1	478.8	480.9
115°	529.6	531.3	533.1	534.9	536.6	539.0	542.1	545.2	548.2	551.3	552.7
117.5°	604.5	605.4	606.3	607.3	608.2	610.1	612.9	615.9	618.7	621.6	623.4
120°	651.4	653.1	654.7	656.4	658.0	660.1	662.6	665.1	667.6	670.1	671.7
122.5°	701.9	702.6	703.1	703.8	704.4	706.2	709.0	711.9	714.7	717.6	718.9
125°	770.8	772.3	773.8	775.3	776.9	778.8	781.0	783.2	785.4	787.6	788.6
127.5°	843.7	844.5	845.4	846.2	847.0	848.4	850.3	852.2	854.1	856.0	857.1
130°	887.7	889.0	890.2	891.5	892.8	894.4	896.3	898.1	900.0	901.9	903.1
132.5°	931.4	933.6	935.8	938.0	940.2	941.8	942.7	943.7	944.6	945.6	946.6
135°	1001.0	1002.5	1004.1	1005.6	1007.1	1008.3	1009.3	1010.2	1011.2	1012.2	1013.4
137.5°	1066.4	1067.9	1069.4	1070.9	1072.4	1073.7	1074.6	1075.5	1076.4	1077.3	1078.8
140°	1108.1	1109.5	1110.9	1112.2	1113.6	1114.7	1115.6	1116.5	1117.5	1118.3	1119.9
142.5°	1150.2	1151.2	1152.4	1153.4	1154.4	1155.6	1156.6	1157.6	1158.7	1159.7	1160.9
145°	1212.1	1213.1	1214.1	1215.0	1216.1	1216.9	1217.8	1218.5	1219.4	1220.2	1220.7
147.5°	1268.9	1269.4	1270.1	1270.6	1271.2	1271.9	1272.5	1273.2	1273.8	1274.5	1275.3
150°	1307.0	1306.7	1306.5	1306.2	1305.9	1306.3	1307.4	1308.5	1309.6	1310.7	1310.7
152.5°	1338.3	1338.7	1339.1	1339.4	1339.8	1340.2	1340.7	1341.0	1341.5	1342.0	1342.7
155°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.6	1386.9	1387.1	1387.4	1387.7	1388.7
157.5°	1429.5	1428.9	1428.3	1427.7	1427.1	1426.9	1427.2	1427.5	1427.8	1428.0	1429.1
160°	1454.9	1454.2	1453.3	1452.5	1451.7	1451.4	1451.7	1452.0	1452.2	1452.5	1453.6
162.5°	1477.4	1476.9	1476.2	1475.6	1475.1	1474.8	1474.8	1474.9	1474.9	1475.0	1476.3
165°	1507.5	1506.9	1506.4	1505.9	1505.3	1505.2	1505.4	1505.7	1506.0	1506.3	1507.4
167.5°	1533.0	1531.8	1530.8	1529.7	1528.6	1528.0	1528.0	1528.0	1528.0	1528.0	1529.7
170°	1546.6	1545.6	1544.5	1543.4	1542.3	1541.7	1541.7	1541.7	1541.7	1541.7	1543.4
172.5°	1556.4	1555.3	1554.3	1553.1	1552.1	1551.5	1551.5	1551.5	1551.5	1551.5	1553.1
175°	1567.4	1566.3	1565.3	1564.1	1563.1	1562.5	1562.5	1562.5	1562.5	1562.5	1564.1
177.5°	1573.0	1572.2	1571.3	1570.5	1569.5	1569.1	1568.8	1568.6	1568.4	1568.1	1569.4
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	443.3	443.8	444.4	444.6	444.5	444.5	444.4	444.3
5°	442.0	442.7	443.5	443.8	443.7	443.7	443.6	443.5
7.5°	438.3	438.9	439.6	439.9	439.8	439.7	439.6	439.5
10°	434.8	435.5	436.1	436.4	436.3	436.2	436.1	436.0
12.5°	430.6	431.1	431.7	431.8	431.6	431.3	431.0	430.8
15°	422.8	423.4	424.0	424.0	423.7	423.3	422.9	422.5
17.5°	412.9	413.3	413.8	413.9	413.7	413.4	413.2	412.9
20°	405.3	405.6	405.9	406.0	406.0	406.0	406.0	406.0
22.5°	397.4	397.8	398.1	398.2	397.9	397.8	397.5	397.3
25°	384.9	385.4	385.8	385.7	385.2	384.7	384.3	383.8
27.5°	370.5	370.8	371.1	371.2	371.0	370.8	370.6	370.4
30°	360.6	360.8	361.0	361.1	361.0	360.9	360.8	360.7
32.5°	351.2	351.4	351.6	351.7	351.6	351.5	351.4	351.3
35°	336.0	336.3	336.6	336.7	336.7	336.7	336.7	336.7
37.5°	320.0	320.4	320.7	320.9	320.9	320.8	320.8	320.7
40°	309.2	309.5	310.0	310.3	310.5	310.7	310.9	311.0
42.5°	299.3	299.7	300.2	300.4	300.5	300.5	300.5	300.6
45°	283.2	283.9	284.6	284.9	285.0	285.1	285.2	285.3
47.5°	266.6	267.7	268.6	269.2	269.5	269.7	269.8	270.0
50°	255.6	256.7	257.8	258.4	258.7	259.0	259.3	259.6
52.5°	244.7	245.8	246.9	247.6	247.8	248.1	248.3	248.5
55°	227.3	228.4	229.5	230.2	230.5	230.9	231.4	231.8
57.5°	210.2	211.4	212.6	213.4	213.7	214.0	214.3	214.6
60°	198.5	199.9	201.4	202.3	202.6	202.8	203.1	203.4
62.5°	186.6	188.2	189.8	190.8	191.1	191.5	191.9	192.3
65°	168.9	170.3	171.7	172.7	173.1	173.4	173.9	174.3
67.5°	150.7	152.4	154.2	155.3	155.8	156.4	156.8	157.3
70°	138.3	140.2	141.9	143.2	143.7	144.3	144.9	145.5
72.5°	126.8	128.8	130.7	132.0	132.3	132.8	133.2	133.7
75°	109.3	111.2	113.2	114.3	114.9	115.4	115.8	116.3
77.5°	91.8	94.0	96.0	97.4	97.7	98.1	98.5	98.9
80°	81.3	83.5	85.6	86.9	87.3	87.7	88.0	88.4
82.5°	71.4	73.5	75.6	76.9	77.7	78.3	79.0	79.7
85°	57.9	59.9	62.1	63.5	64.3	65.1	65.9	66.6
87.5°	51.3	53.7	56.3	57.9	58.7	59.6	60.4	61.3
90°	62.5	66.1	69.7	72.2	73.6	75.1	76.6	78.1
92.5°	89.2	93.1	97.1	99.6	100.9	102.2	103.5	104.7
95°	134.0	138.1	142.0	144.7	145.9	147.1	148.4	149.6
97.5°	187.2	191.0	194.8	197.2	198.2	199.2	200.2	201.1
100°	223.9	228.4	232.8	235.6	236.8	237.9	239.0	240.2
102.5°	261.9	266.6	271.2	274.1	275.5	276.8	278.1	279.5
105°	323.3	326.9	330.5	333.0	334.4	335.9	337.4	338.9
107.5°	390.2	392.9	395.7	397.3	397.8	398.4	399.0	399.4
110°	436.6	439.2	441.9	443.5	443.8	444.2	444.6	445.1



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CATALOG NUMBER: S125DIW-S375D1340U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	483.1	485.2	487.4	488.5	488.7	488.9	489.1	489.3
115°	554.2	555.7	557.1	558.1	558.4	558.6	559.0	559.3
117.5°	625.3	627.2	629.1	629.7	629.3	628.9	628.5	628.0
120°	673.4	675.0	676.7	677.2	676.7	676.2	675.7	675.1
122.5°	720.3	721.6	722.9	723.5	723.2	722.9	722.6	722.4
125°	789.7	790.6	791.6	792.2	792.5	792.7	792.9	793.1
127.5°	858.4	859.5	860.6	861.3	861.3	861.3	861.3	861.3
130°	904.1	905.2	906.3	906.8	906.7	906.6	906.6	906.5
132.5°	947.7	948.8	949.9	950.3	949.9	949.5	949.1	948.9
135°	1014.6	1016.0	1017.2	1017.5	1016.9	1016.3	1015.7	1015.1
137.5°	1080.2	1081.8	1083.2	1083.5	1082.5	1081.6	1080.5	1079.6
140°	1121.5	1123.2	1124.8	1125.1	1124.2	1123.1	1122.2	1121.2
142.5°	1162.2	1163.4	1164.7	1164.8	1163.9	1162.8	1161.9	1160.9
145°	1221.2	1221.6	1222.1	1222.2	1221.7	1221.3	1220.9	1220.4
147.5°	1276.1	1276.9	1277.7	1277.2	1275.6	1273.9	1272.2	1270.5
150°	1310.7	1310.7	1310.7	1310.4	1309.9	1309.6	1309.1	1308.6
152.5°	1343.2	1343.9	1344.5	1344.4	1343.5	1342.5	1341.5	1340.6
155°	1389.9	1390.9	1392.0	1391.9	1390.5	1389.2	1387.8	1386.5
157.5°	1430.2	1431.3	1432.4	1432.0	1430.2	1428.4	1426.6	1424.8
160°	1454.6	1455.8	1456.8	1456.7	1455.4	1454.0	1452.6	1451.2
162.5°	1477.6	1478.8	1480.2	1480.1	1478.5	1476.9	1475.4	1473.8
165°	1508.4	1509.6	1510.6	1510.3	1508.7	1507.1	1505.4	1503.8
167.5°	1531.3	1533.0	1534.6	1534.6	1532.9	1531.2	1529.5	1527.8
170°	1545.0	1546.6	1548.2	1548.1	1546.2	1544.4	1542.4	1540.5
172.5°	1554.8	1556.4	1558.0	1558.0	1556.3	1554.6	1552.9	1551.2
175°	1565.8	1567.4	1569.1	1568.9	1567.0	1565.1	1563.2	1561.3
177.5°	1570.7	1572.1	1573.4	1573.3	1571.7	1570.2	1568.7	1567.2
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1

(END OF REPORT)