

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: P334979

Luminaire Tested: **S125IP-S1205U840-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S1205U840-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4373.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

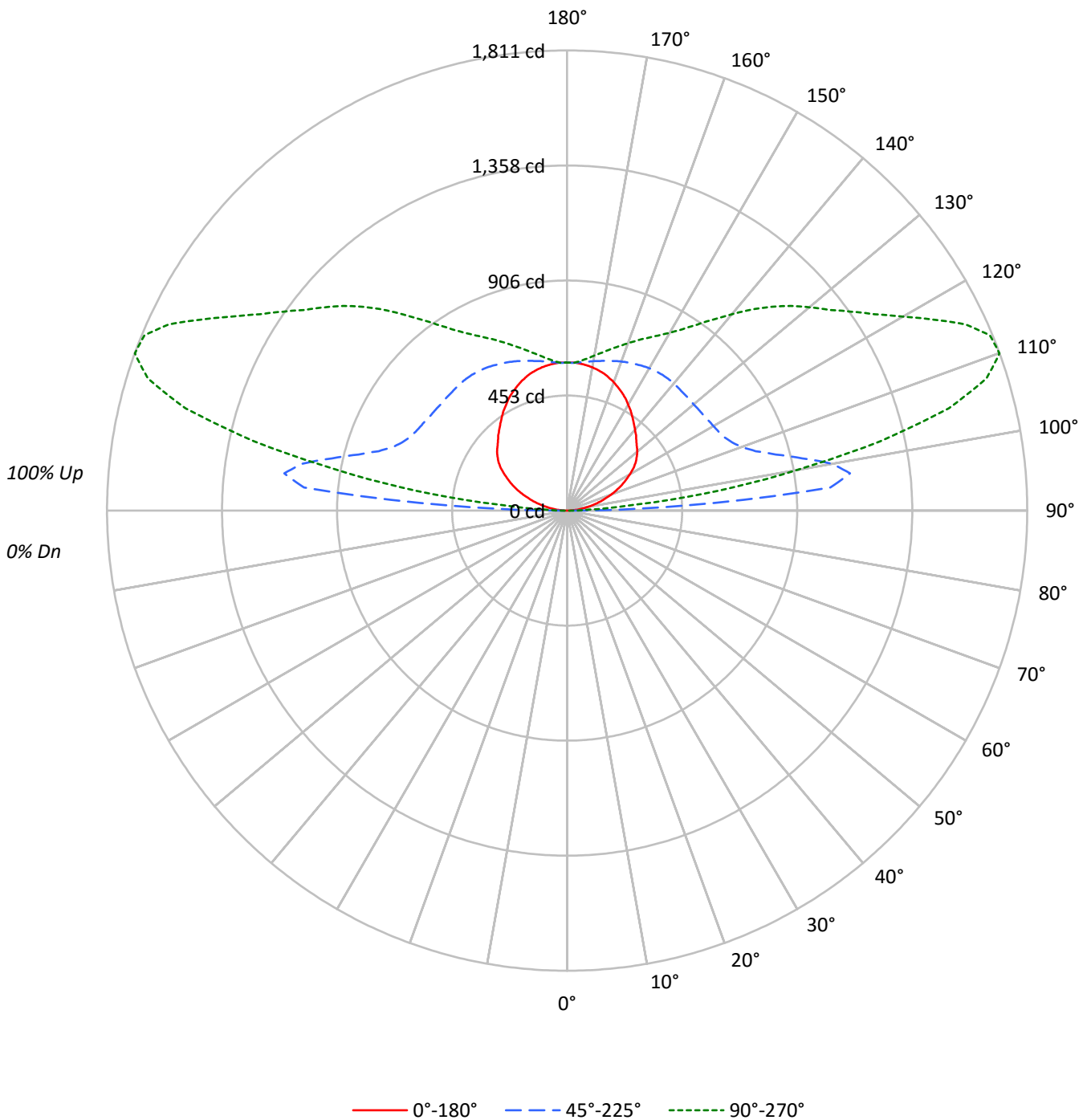
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.3	0.1
90°-100°	423.4	9.7
100°-110°	913.0	20.9
110°-120°	851.1	19.5
120°-130°	689.4	15.8
130°-140°	553.5	12.7
140°-150°	417.5	9.5
150°-160°	294.0	6.7
160°-170°	173.3	4.0
170°-180°	56.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	2187.5	50.0
90°-150°	3847.9	88.0
90°-180°	4372.0	100.0
0°-180°	4373.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	11	19	25	27	3
95°	39	114	1040	472	276	40
105°	133	185	851	1675	1555	140
115°	237	286	683	1472	1732	233
125°	329	385	655	1171	1365	292
135°	385	463	650	982	1134	299
145°	448	513	652	813	894	281
155°	512	550	636	719	750	236
165°	558	574	610	647	657	157
175°	581	581	586	593	590	55
180°	582	582	582	582	582	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.2	2.3	4.7	7.0	9.4	11.7	12.9	15.3	16.4	18.8	19.9
92.5°	17.6	21.1	32.9	50.5	75.1	117.3	197.1	330.9	476.4	468.2	377.8
95°	38.7	39.9	49.3	62.2	88.0	140.8	266.4	524.5	848.4	1039.7	1017.4
97.5°	59.8	61.0	68.1	81.0	104.4	143.2	230.0	428.3	778.0	1123.0	1270.8
100°	82.1	84.5	89.2	102.1	124.4	159.6	227.6	380.2	675.9	1059.6	1353.0
102.5°	106.8	108.0	111.5	125.6	145.5	179.5	238.2	360.2	598.4	948.1	1303.7
105°	132.6	132.6	138.5	150.2	169.0	201.8	253.5	357.9	553.9	850.7	1187.5
107.5°	157.2	159.6	165.5	174.8	194.8	224.1	274.6	366.1	530.4	778.0	1077.2
110°	184.2	186.6	191.3	201.8	219.4	249.9	298.0	379.0	521.0	729.9	985.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	211.2	213.6	217.1	227.6	245.2	274.6	320.3	395.4	521.0	701.7	917.6
115°	237.0	239.4	242.9	253.5	271.1	300.4	343.8	411.9	524.5	682.9	871.9
117.5°	260.5	264.0	267.5	278.1	298.0	326.2	367.3	430.6	530.4	672.4	841.3
120°	284.0	287.5	292.2	302.7	322.7	352.0	393.1	449.4	539.8	665.3	816.7
122.5°	308.6	311.0	314.5	325.0	347.3	376.7	417.7	470.5	548.0	659.5	795.6
125°	328.6	330.9	336.8	347.3	369.6	400.1	438.9	489.3	557.4	654.8	776.8
127.5°	345.0	348.5	355.5	368.5	391.9	422.4	460.0	506.9	567.9	652.4	759.2
130°	360.2	363.8	373.1	388.4	413.0	443.6	479.9	524.5	577.3	650.1	741.6
132.5°	372.0	376.7	388.4	406.0	431.8	462.3	498.7	539.8	587.9	650.1	727.5
135°	384.9	389.6	403.7	422.4	447.1	478.8	515.1	553.9	597.3	650.1	717.0
137.5°	401.3	404.8	417.7	436.5	461.2	494.0	526.9	564.4	606.7	651.2	706.4
140°	415.4	418.9	433.0	451.8	474.1	505.7	539.8	575.0	612.5	652.4	699.4
142.5°	431.8	434.2	447.1	465.8	487.0	516.3	548.0	580.8	616.0	653.6	693.5
145°	448.2	450.6	462.3	478.8	499.9	526.9	557.4	586.7	618.4	652.4	687.6
147.5°	465.8	467.0	477.6	492.8	511.6	536.3	563.2	590.2	619.6	650.1	681.8
150°	481.1	483.4	491.7	506.9	523.3	543.3	569.1	593.8	619.6	646.6	674.7
152.5°	497.5	498.7	505.7	518.7	533.9	551.5	575.0	596.1	618.4	641.9	666.5
155°	511.6	511.6	518.7	530.4	542.1	558.5	578.5	597.3	616.0	636.0	657.1
157.5°	524.5	524.5	530.4	540.9	551.5	564.4	582.0	598.4	613.7	630.1	648.9
160°	537.4	536.3	540.9	549.2	558.5	569.1	584.4	598.4	610.2	624.3	638.3
162.5°	548.0	546.8	551.5	558.5	565.6	573.8	586.7	597.3	606.7	617.2	629.0
165°	558.5	556.2	559.7	565.6	570.3	577.3	586.7	596.1	603.1	610.2	619.6
167.5°	565.6	564.4	566.8	570.3	573.8	578.5	586.7	593.8	597.3	603.1	610.2
170°	572.6	571.5	572.6	575.0	577.3	580.8	586.7	591.4	593.8	597.3	602.0
172.5°	577.3	575.0	576.1	578.5	579.7	580.8	585.5	589.1	589.1	590.2	593.8
175°	580.8	578.5	579.7	580.8	580.8	580.8	584.4	586.7	585.5	585.5	586.7
177.5°	583.2	580.8	580.8	582.0	580.8	580.8	583.2	584.4	582.0	582.0	583.2
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	21.1	22.3	23.5	25.8	25.8	25.8	27.0	27.0
92.5°	254.6	183.1	136.1	113.8	95.0	91.5	89.2	86.8
95°	843.7	665.3	521.0	422.4	339.1	303.9	294.5	275.8
97.5°	1209.8	1067.8	922.3	781.5	711.1	650.1	618.4	604.3
100°	1443.3	1385.8	1264.9	1142.9	1061.9	977.5	934.0	915.3
102.5°	1521.9	1580.6	1538.4	1465.6	1377.6	1323.6	1275.5	1262.6
105°	1469.1	1629.9	1681.5	1668.6	1631.1	1592.3	1568.9	1554.8
107.5°	1361.2	1573.6	1697.9	1749.6	1760.1	1754.3	1742.5	1730.8
110°	1239.1	1462.1	1627.5	1727.3	1780.1	1802.4	1810.6	1810.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1142.9	1351.8	1519.6	1641.6	1724.9	1767.2	1790.6	1801.2
115°	1065.5	1247.3	1408.1	1536.0	1627.5	1683.9	1716.7	1732.0
117.5°	1011.5	1172.2	1313.1	1433.9	1526.6	1585.3	1618.1	1627.5
120°	969.2	1110.1	1239.1	1342.4	1429.2	1485.5	1517.2	1526.6
122.5°	937.6	1065.5	1176.9	1272.0	1347.1	1397.5	1429.2	1437.4
125°	907.1	1026.7	1128.8	1213.3	1279.0	1327.1	1353.0	1364.7
127.5°	875.4	989.2	1085.4	1165.2	1225.1	1268.5	1293.1	1297.8
130°	846.0	949.3	1040.8	1117.1	1175.8	1214.5	1238.0	1245.0
132.5°	816.7	911.7	992.7	1065.5	1124.1	1162.9	1184.0	1192.2
135°	792.1	873.0	948.1	1015.0	1066.6	1105.4	1126.5	1133.5
137.5°	769.8	837.8	902.4	961.0	1008.0	1044.3	1064.3	1072.5
140°	752.2	807.3	861.3	910.6	954.0	984.5	1002.1	1008.0
142.5°	736.9	781.5	826.1	867.2	902.4	927.0	943.4	948.1
145°	724.0	760.4	796.8	828.4	856.6	876.5	889.5	894.1
147.5°	711.1	741.6	770.9	795.6	819.0	835.5	843.7	846.0
150°	700.5	726.3	748.6	769.8	787.4	801.4	806.1	807.3
152.5°	688.8	711.1	731.0	746.3	760.4	770.9	775.6	776.8
155°	677.1	695.8	712.3	725.2	736.9	745.1	748.6	749.8
157.5°	665.3	681.8	694.7	705.2	714.6	721.7	725.2	725.2
160°	653.6	665.3	677.1	685.3	693.5	699.4	701.7	700.5
162.5°	640.7	651.2	660.6	667.7	673.5	678.2	678.2	678.2
165°	629.0	637.2	644.2	650.1	654.8	657.1	657.1	657.1
167.5°	617.2	623.1	629.0	633.6	636.0	638.3	637.2	637.2
170°	607.8	611.4	614.9	617.2	619.6	620.7	620.7	619.6
172.5°	597.3	600.8	603.1	604.3	604.3	606.7	604.3	603.1
175°	590.2	590.2	592.6	592.6	592.6	593.8	591.4	590.2
177.5°	584.4	585.5	585.5	585.5	584.4	585.5	582.0	582.0
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0

(END OF REPORT)