

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007659

Luminaire Tested: S124IP-B1205UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B1205UB2750-4F0-XX-W2A-4_3500K
Description: Define 4 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

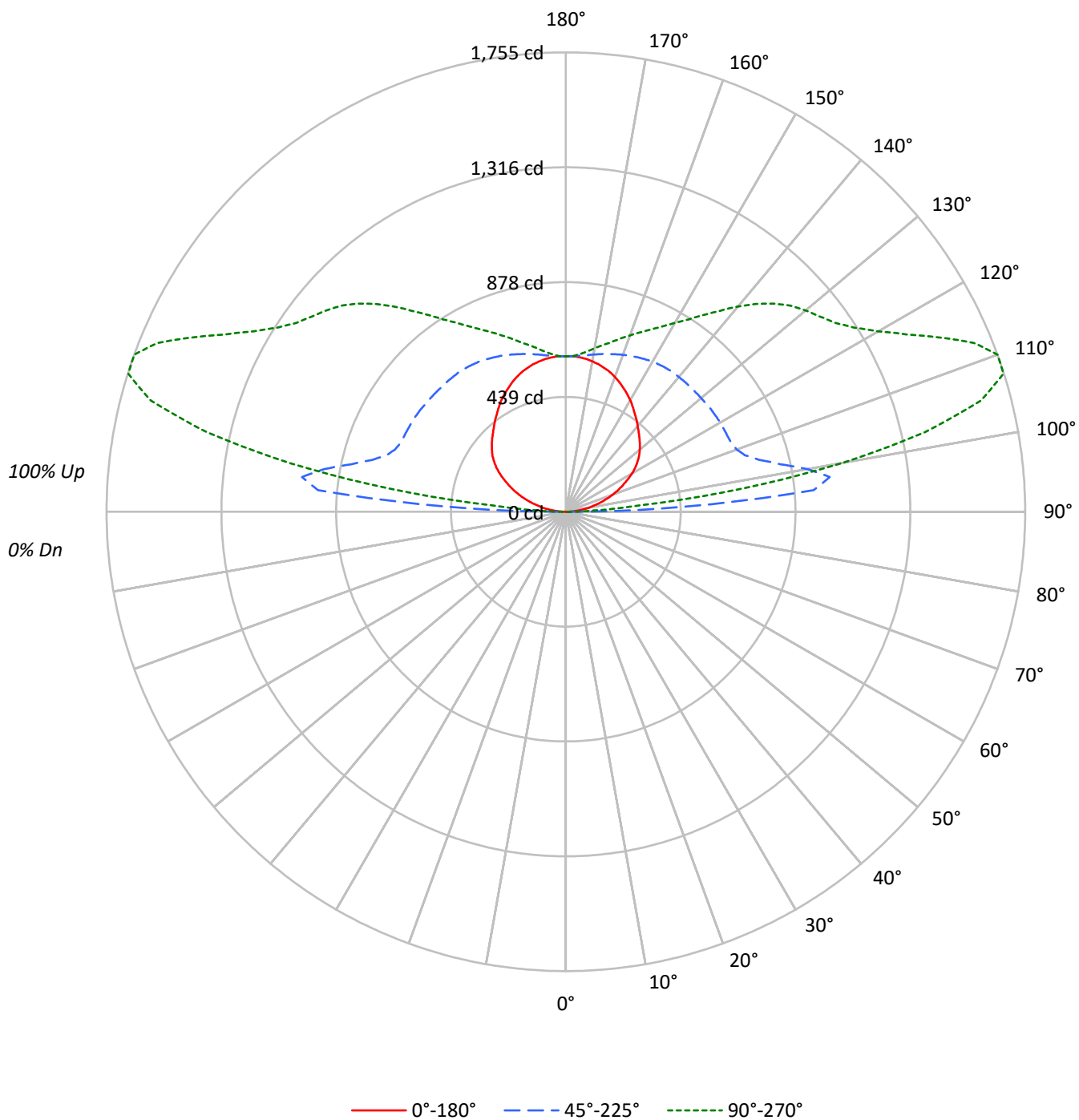
Lumens per Lamp: N/A
Luminaire Lumens: 4326.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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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°	430.2	9.9
100°-110°	898.3	20.8
110°-120°	798.5	18.5
120°-130°	672.1	15.5
130°-140°	560.8	13.0
140°-150°	428.1	9.9
150°-160°	301.0	7.0
160°-170°	177.0	4.1
170°-180°	57.6	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°	2127.0	49.2
90°-150°	3788.0	87.6
90°-180°	4324.0	100.0
0°-180°	4326.0	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	9	21	23	24	3
95°	38	121	950	471	285	42
105°	136	198	765	1647	1641	145
115°	240	301	682	1311	1576	238
125°	335	398	679	1116	1257	298
135°	398	474	673	990	1124	307
145°	458	525	670	835	918	288
155°	521	563	651	737	769	240
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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	3.5	7.0	8.2	9.3	9.3	16.3	16.3	18.7	21.0	19.8
92.5°	16.3	23.3	36.2	53.6	74.6	105.0	177.3	290.4	400.0	457.2	380.2
95°	38.5	42.0	53.6	68.8	96.8	145.8	247.3	438.5	717.3	950.5	977.4
97.5°	64.1	64.1	74.6	88.6	113.1	155.1	235.6	400.0	686.9	1017.0	1225.8
100°	88.6	88.6	96.8	110.8	133.0	170.3	239.1	370.9	608.8	937.7	1236.3
102.5°	112.0	114.3	121.3	134.1	155.1	190.1	250.8	362.7	556.3	838.6	1148.8
105°	136.5	140.0	145.8	159.8	180.8	214.6	270.6	367.4	530.7	765.1	1039.2
107.5°	163.3	165.6	171.4	186.6	206.4	240.3	291.6	381.4	523.7	717.3	949.4
110°	190.1	192.4	198.3	212.3	233.3	264.7	316.1	397.7	526.0	695.1	885.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	215.8	218.1	225.1	237.9	258.9	290.4	339.4	415.2	533.0	684.6	849.1
115°	240.3	243.8	251.9	263.6	285.7	317.2	363.9	433.9	542.3	682.3	829.2
117.5°	265.9	269.4	276.4	289.2	310.2	342.9	387.2	452.5	551.7	681.1	818.7
120°	291.6	293.9	302.1	314.9	334.7	367.4	411.7	472.3	562.2	681.1	810.6
122.5°	314.9	317.2	325.4	337.1	359.2	390.7	435.0	491.0	572.7	680.0	801.2
125°	334.7	339.4	346.4	359.2	381.4	414.0	456.0	509.7	583.1	678.8	790.7
127.5°	353.4	356.9	365.1	379.0	402.4	435.0	475.8	526.0	591.3	676.5	776.8
130°	368.5	373.2	382.5	400.0	422.2	456.0	495.7	541.2	600.6	675.3	763.9
132.5°	383.7	387.2	400.0	416.4	440.9	472.3	512.0	556.3	608.8	674.1	752.3
135°	397.7	402.4	414.0	433.9	458.4	488.7	527.2	569.2	617.0	673.0	740.6
137.5°	411.7	416.4	429.2	447.9	473.5	502.7	538.8	578.5	621.6	673.0	730.1
140°	426.9	430.4	443.2	463.0	487.5	515.5	550.5	587.8	627.5	671.8	721.9
142.5°	443.2	446.7	458.4	477.0	500.3	527.2	561.0	594.8	632.1	671.8	714.9
145°	458.4	461.9	473.5	489.8	512.0	537.7	568.0	599.5	633.3	669.5	706.8
147.5°	475.8	477.0	487.5	505.0	523.7	547.0	576.2	604.1	634.5	666.0	699.8
150°	492.2	493.3	502.7	516.7	534.2	556.3	582.0	607.6	634.5	662.5	691.6
152.5°	507.3	507.3	516.7	529.5	544.7	564.5	586.6	610.0	632.1	656.6	682.3
155°	521.3	522.5	529.5	541.2	554.0	571.5	591.3	611.1	629.8	650.8	673.0
157.5°	535.3	535.3	542.3	551.7	563.3	577.3	594.8	611.1	627.5	645.0	663.6
160°	548.2	548.2	552.8	561.0	570.3	583.1	597.1	611.1	624.0	638.0	653.1
162.5°	559.8	558.7	562.2	569.2	577.3	586.6	599.5	611.1	620.5	631.0	643.8
165°	568.0	568.0	570.3	576.2	582.0	589.0	599.5	608.8	615.8	624.0	633.3
167.5°	577.3	576.2	577.3	582.0	585.5	591.3	599.5	606.5	611.1	617.0	624.0
170°	583.1	582.0	583.1	586.6	589.0	592.5	598.3	604.1	606.5	610.0	614.6
172.5°	589.0	587.8	587.8	590.1	591.3	593.6	597.1	601.8	601.8	603.0	606.5
175°	592.5	591.3	591.3	592.5	593.6	593.6	596.0	599.5	598.3	598.3	600.6
177.5°	594.8	593.6	592.5	593.6	593.6	593.6	594.8	597.1	594.8	594.8	596.0
180°	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6

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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°	21.0	22.2	23.3	23.3	24.5	25.7	24.5	24.5
92.5°	281.1	209.9	165.6	136.5	119.0	110.8	106.1	106.1
95°	864.2	683.4	527.2	414.0	356.9	320.7	299.7	284.6
97.5°	1244.4	1154.6	1026.3	895.7	816.4	746.4	711.4	683.4
100°	1406.6	1429.9	1372.7	1286.4	1185.0	1113.8	1078.8	1069.5
102.5°	1398.4	1537.2	1572.2	1548.8	1496.4	1449.7	1412.4	1405.4
105°	1306.3	1508.0	1623.5	1671.3	1673.6	1664.3	1648.0	1641.0
107.5°	1193.1	1411.2	1572.2	1670.1	1721.5	1742.4	1751.8	1752.9
110°	1092.8	1294.6	1463.7	1592.0	1674.8	1723.8	1744.8	1755.3

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1019.3	1192.0	1349.4	1477.7	1574.5	1636.3	1667.8	1686.5
115°	975.0	1118.5	1254.9	1366.9	1459.0	1529.0	1566.3	1575.7
117.5°	949.4	1070.7	1181.5	1279.4	1361.1	1421.7	1461.4	1467.2
120°	933.0	1041.5	1134.8	1217.6	1284.1	1335.4	1365.7	1378.6
122.5°	919.0	1022.8	1105.6	1175.6	1229.3	1271.3	1295.8	1308.6
125°	902.7	1003.0	1083.5	1147.6	1194.3	1228.1	1250.3	1257.3
127.5°	884.1	980.9	1061.3	1122.0	1168.6	1199.0	1217.6	1224.6
130°	860.7	952.9	1032.2	1094.0	1141.8	1171.0	1189.6	1196.6
132.5°	836.2	921.4	998.3	1060.2	1106.8	1140.6	1158.1	1165.1
135°	814.1	889.9	961.0	1019.3	1066.0	1098.7	1117.3	1124.3
137.5°	793.1	859.6	921.4	975.0	1019.3	1053.2	1068.3	1076.5
140°	775.6	830.4	882.9	931.9	972.7	998.3	1014.7	1024.0
142.5°	759.3	805.9	849.1	889.9	924.9	948.2	962.2	968.0
145°	744.1	783.8	818.7	851.4	880.6	900.4	912.0	917.9
147.5°	731.3	763.9	793.1	819.9	842.1	859.6	868.9	871.2
150°	719.6	746.4	769.8	790.7	809.4	824.6	831.6	832.7
152.5°	706.8	728.9	749.9	766.3	781.4	793.1	796.6	797.7
155°	693.9	712.6	730.1	744.1	755.8	765.1	768.6	768.6
157.5°	680.0	696.3	711.4	723.1	732.4	739.4	741.8	741.8
160°	667.1	680.0	692.8	702.1	709.1	716.1	717.3	717.3
162.5°	654.3	664.8	674.1	682.3	686.9	693.9	695.1	693.9
165°	642.6	649.6	657.8	663.6	668.3	673.0	671.8	670.6
167.5°	631.0	636.8	643.8	647.3	649.6	653.1	653.1	652.0
170°	620.5	624.0	628.6	632.1	634.5	635.6	634.5	634.5
172.5°	611.1	613.5	615.8	618.1	619.3	620.5	619.3	617.0
175°	603.0	604.1	606.5	606.5	606.5	608.8	606.5	604.1
177.5°	597.1	598.3	598.3	599.5	598.3	599.5	597.1	594.8
180°	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)