

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: P1007707

Luminaire Tested: S124IP-B365UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007707
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-B365UB50-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

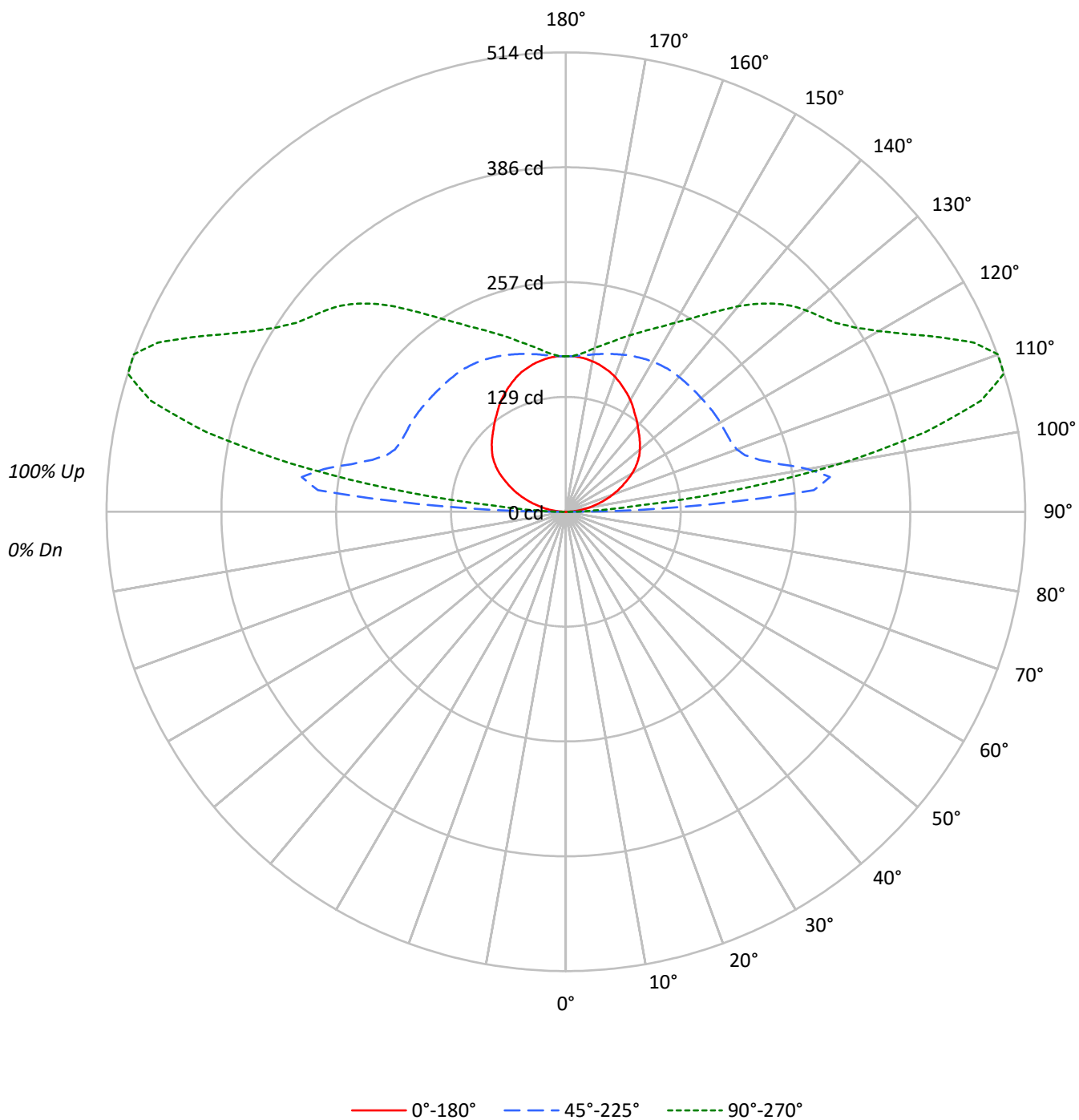
Lumens per Lamp: N/A
Luminaire Lumens: 1268.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
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: 24 FT

TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

Luminous Intensity Polar Plot





TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

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

TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

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°	0.7	0.1
90°-100°	126.1	9.9
100°-110°	263.3	20.8
110°-120°	234.0	18.5
120°-130°	197.0	15.5
130°-140°	164.4	13.0
140°-150°	125.5	9.9
150°-160°	88.2	7.0
160°-170°	51.9	4.1
170°-180°	16.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	623.4	49.2
90°-150°	1110.3	87.6
90°-180°	1267.0	99.9
0°-180°	1268.0	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°	0	3	6	7	7	1
95°	11	36	279	138	83	12
105°	40	58	224	483	481	43
115°	70	88	200	384	462	70
125°	98	117	199	327	368	87
135°	117	139	197	290	330	90
145°	134	154	196	245	269	84
155°	153	165	191	216	225	70
165°	166	172	183	194	197	47
175°	174	174	175	178	177	16
180°	174	174	174	174	174	



TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

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°	0.3	1.0	2.1	2.4	2.7	2.7	4.8	4.8	5.5	6.2	5.8
92.5°	4.8	6.8	10.6	15.7	21.9	30.8	52.0	85.1	117.3	134.0	111.4
95°	11.3	12.3	15.7	20.2	28.4	42.7	72.5	128.5	210.2	278.6	286.5
97.5°	18.8	18.8	21.9	26.0	33.2	45.5	69.1	117.3	201.4	298.1	359.3
100°	26.0	26.0	28.4	32.5	39.0	49.9	70.1	108.7	178.4	274.9	362.4
102.5°	32.8	33.5	35.6	39.3	45.5	55.7	73.5	106.3	163.1	245.8	336.7
105°	40.0	41.0	42.7	46.8	53.0	62.9	79.3	107.7	155.5	224.3	304.6
107.5°	47.9	48.5	50.3	54.7	60.5	70.4	85.5	111.8	153.5	210.2	278.3
110°	55.7	56.4	58.1	62.2	68.4	77.6	92.6	116.6	154.2	203.7	259.5

TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	63.2	63.9	66.0	69.7	75.9	85.1	99.5	121.7	156.2	200.7	248.9
115°	70.4	71.4	73.8	77.3	83.8	93.0	106.7	127.2	159.0	200.0	243.1
117.5°	77.9	79.0	81.0	84.8	90.9	100.5	113.5	132.6	161.7	199.6	240.0
120°	85.5	86.1	88.5	92.3	98.1	107.7	120.7	138.5	164.8	199.6	237.6
122.5°	92.3	93.0	95.4	98.8	105.3	114.5	127.5	143.9	167.9	199.3	234.9
125°	98.1	99.5	101.5	105.3	111.8	121.4	133.7	149.4	170.9	199.0	231.8
127.5°	103.6	104.6	107.0	111.1	117.9	127.5	139.5	154.2	173.3	198.3	227.7
130°	108.0	109.4	112.1	117.3	123.8	133.7	145.3	158.6	176.1	197.9	223.9
132.5°	112.5	113.5	117.3	122.0	129.2	138.5	150.1	163.1	178.4	197.6	220.5
135°	116.6	117.9	121.4	127.2	134.3	143.2	154.5	166.8	180.8	197.3	217.1
137.5°	120.7	122.0	125.8	131.3	138.8	147.3	157.9	169.6	182.2	197.3	214.0
140°	125.1	126.1	129.9	135.7	142.9	151.1	161.4	172.3	183.9	196.9	211.6
142.5°	129.9	130.9	134.3	139.8	146.7	154.5	164.4	174.3	185.3	196.9	209.6
145°	134.3	135.4	138.8	143.6	150.1	157.6	166.5	175.7	185.6	196.2	207.2
147.5°	139.5	139.8	142.9	148.0	153.5	160.3	168.9	177.1	186.0	195.2	205.1
150°	144.3	144.6	147.3	151.4	156.6	163.1	170.6	178.1	186.0	194.2	202.7
152.5°	148.7	148.7	151.4	155.2	159.6	165.5	172.0	178.8	185.3	192.5	200.0
155°	152.8	153.2	155.2	158.6	162.4	167.5	173.3	179.1	184.6	190.8	197.3
157.5°	156.9	156.9	159.0	161.7	165.1	169.2	174.3	179.1	183.9	189.0	194.5
160°	160.7	160.7	162.0	164.4	167.2	170.9	175.0	179.1	182.9	187.0	191.4
162.5°	164.1	163.7	164.8	166.8	169.2	172.0	175.7	179.1	181.9	184.9	188.7
165°	166.5	166.5	167.2	168.9	170.6	172.6	175.7	178.4	180.5	182.9	185.6
167.5°	169.2	168.9	169.2	170.6	171.6	173.3	175.7	177.8	179.1	180.8	182.9
170°	170.9	170.6	170.9	172.0	172.6	173.7	175.4	177.1	177.8	178.8	180.2
172.5°	172.6	172.3	172.3	173.0	173.3	174.0	175.0	176.4	176.4	176.7	177.8
175°	173.7	173.3	173.3	173.7	174.0	174.0	174.7	175.7	175.4	175.4	176.1
177.5°	174.3	174.0	173.7	174.0	174.0	174.0	174.3	175.0	174.3	174.3	174.7
180°	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0

TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

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°	6.2	6.5	6.8	6.8	7.2	7.5	7.2	7.2
92.5°	82.4	61.5	48.5	40.0	34.9	32.5	31.1	31.1
95°	253.3	200.3	154.5	121.4	104.6	94.0	87.9	83.4
97.5°	364.8	338.4	300.8	262.5	239.3	218.8	208.5	200.3
100°	412.3	419.1	402.4	377.1	347.3	326.5	316.2	313.5
102.5°	409.9	450.6	460.8	454.0	438.6	424.9	414.0	411.9
105°	382.9	442.0	475.9	489.9	490.6	487.8	483.0	481.0
107.5°	349.7	413.6	460.8	489.5	504.6	510.7	513.5	513.8
110°	320.3	379.5	429.0	466.6	490.9	505.3	511.4	514.5

TEST NUMBER: P1007707

CATALOG NUMBER: S124IP-B365UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	298.8	349.4	395.5	433.1	461.5	479.6	488.9	494.3
115°	285.8	327.8	367.8	400.7	427.7	448.2	459.1	461.8
117.5°	278.3	313.8	346.3	375.0	398.9	416.7	428.3	430.1
120°	273.5	305.3	332.6	356.9	376.4	391.4	400.3	404.1
122.5°	269.4	299.8	324.1	344.6	360.3	372.6	379.8	383.6
125°	264.6	294.0	317.6	336.4	350.1	360.0	366.5	368.5
127.5°	259.1	287.5	311.1	328.9	342.5	351.4	356.9	358.9
130°	252.3	279.3	302.5	320.7	334.7	343.2	348.7	350.7
132.5°	245.1	270.1	292.6	310.7	324.4	334.3	339.5	341.5
135°	238.6	260.8	281.7	298.8	312.5	322.0	327.5	329.5
137.5°	232.5	251.9	270.1	285.8	298.8	308.7	313.1	315.5
140°	227.3	243.4	258.8	273.1	285.1	292.6	297.4	300.1
142.5°	222.5	236.2	248.9	260.8	271.1	277.9	282.0	283.7
145°	218.1	229.7	240.0	249.6	258.1	263.9	267.3	269.0
147.5°	214.3	223.9	232.5	240.3	246.8	251.9	254.7	255.4
150°	210.9	218.8	225.6	231.8	237.2	241.7	243.7	244.1
152.5°	207.2	213.7	219.8	224.6	229.0	232.5	233.5	233.8
155°	203.4	208.9	214.0	218.1	221.5	224.3	225.3	225.3
157.5°	199.3	204.1	208.5	211.9	214.7	216.7	217.4	217.4
160°	195.5	199.3	203.1	205.8	207.8	209.9	210.2	210.2
162.5°	191.8	194.9	197.6	200.0	201.4	203.4	203.7	203.4
165°	188.4	190.4	192.8	194.5	195.9	197.3	196.9	196.6
167.5°	184.9	186.7	188.7	189.7	190.4	191.4	191.4	191.1
170°	181.9	182.9	184.3	185.3	186.0	186.3	186.0	186.0
172.5°	179.1	179.8	180.5	181.2	181.5	181.9	181.5	180.8
175°	176.7	177.1	177.8	177.8	177.8	178.4	177.8	177.1
177.5°	175.0	175.4	175.4	175.7	175.4	175.7	175.0	174.3
180°	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0

(END OF REPORT)