

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: P1007887

Luminaire Tested: S125IP-B610UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B610UB50-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

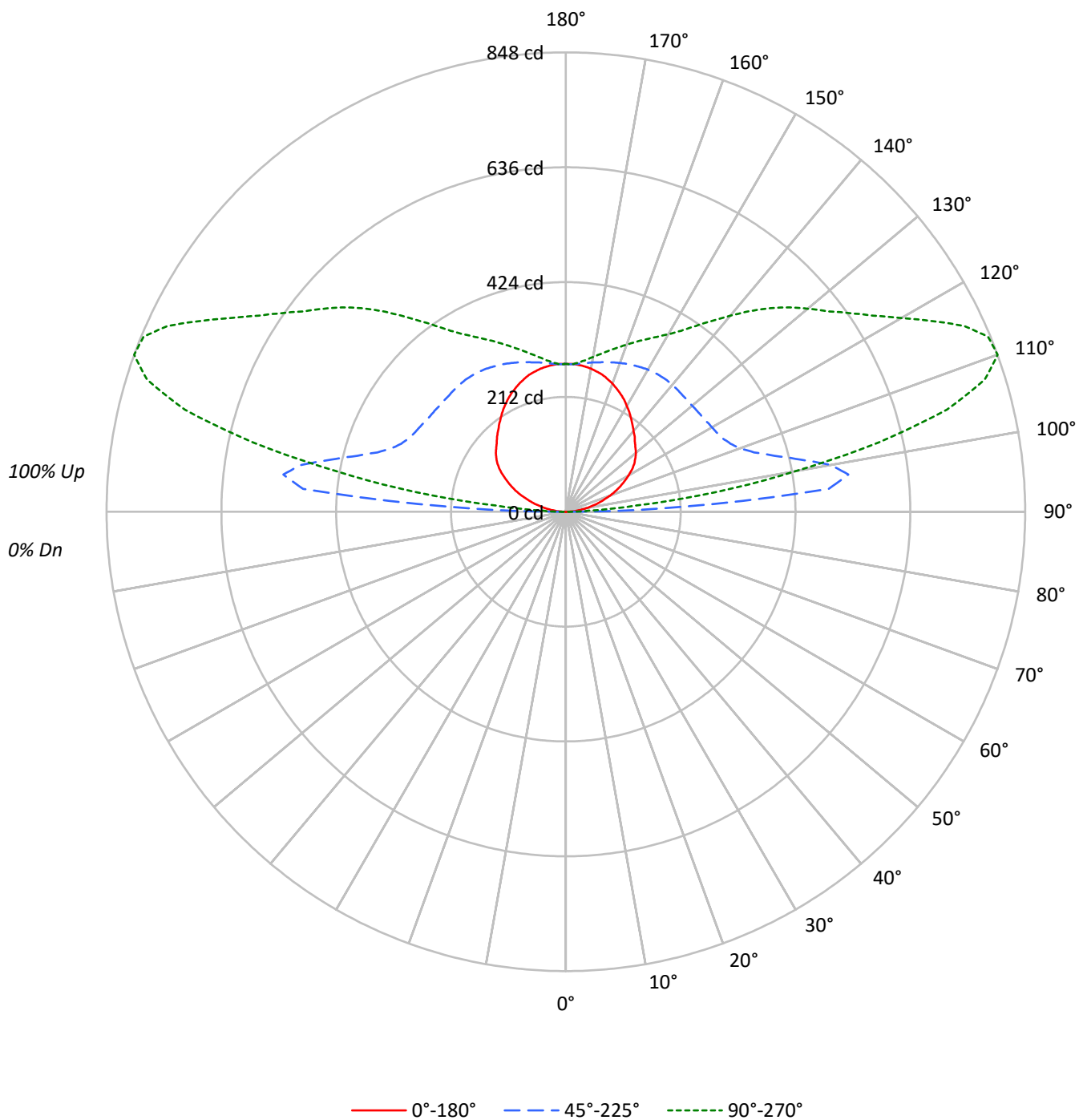
Lumens per Lamp: N/A
Luminaire Lumens: 2049.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
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: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-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: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-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°	1.1	0.1
90°-100°	198.3	9.7
100°-110°	427.7	20.9
110°-120°	398.7	19.5
120°-130°	323.0	15.8
130°-140°	259.3	12.7
140°-150°	195.6	9.5
150°-160°	137.7	6.7
160°-170°	81.2	4.0
170°-180°	26.4	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.1
90°-120°	1024.8	50.0
90°-150°	1802.6	88.0
90°-180°	2048.0	100.0
0°-180°	2049.0	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	5	9	12	13	1
95°	18	54	487	221	129	19
105°	62	87	398	785	728	65
115°	111	134	320	690	811	109
125°	154	180	307	549	639	137
135°	180	217	304	460	531	140
145°	210	240	306	381	419	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

TEST NUMBER: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-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°	0.5	1.1	2.2	3.3	4.4	5.5	6.0	7.1	7.7	8.8	9.3
92.5°	8.2	9.9	15.4	23.6	35.2	55.0	92.4	155.0	223.2	219.3	177.0
95°	18.1	18.7	23.1	29.1	41.2	66.0	124.8	245.7	397.4	487.0	476.6
97.5°	28.0	28.6	31.9	37.9	48.9	67.1	107.7	200.6	364.5	526.1	595.3
100°	38.5	39.6	41.8	47.8	58.3	74.8	106.6	178.1	316.6	496.4	633.8
102.5°	50.0	50.6	52.2	58.8	68.2	84.1	111.6	168.8	280.4	444.2	610.7
105°	62.1	62.1	64.9	70.4	79.2	94.6	118.7	167.7	259.5	398.5	556.3
107.5°	73.7	74.8	77.5	81.9	91.3	105.0	128.6	171.5	248.5	364.5	504.6
110°	86.3	87.4	89.6	94.6	102.8	117.1	139.6	177.6	244.1	341.9	461.8

TEST NUMBER: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.9	100.0	101.7	106.6	114.9	128.6	150.1	185.3	244.1	328.7	429.9
115°	111.0	112.1	113.8	118.7	127.0	140.7	161.1	192.9	245.7	319.9	408.4
117.5°	122.0	123.7	125.3	130.3	139.6	152.8	172.1	201.7	248.5	315.0	394.1
120°	133.0	134.7	136.9	141.8	151.2	164.9	184.2	210.5	252.9	311.7	382.6
122.5°	144.6	145.7	147.3	152.3	162.7	176.5	195.7	220.4	256.7	308.9	372.7
125°	153.9	155.0	157.8	162.7	173.2	187.5	205.6	229.2	261.1	306.7	363.9
127.5°	161.6	163.3	166.6	172.6	183.6	197.9	215.5	237.5	266.1	305.6	355.7
130°	168.8	170.4	174.8	182.0	193.5	207.8	224.8	245.7	270.5	304.5	347.4
132.5°	174.3	176.5	182.0	190.2	202.3	216.6	233.6	252.9	275.4	304.5	340.8
135°	180.3	182.5	189.1	197.9	209.4	224.3	241.3	259.5	279.8	304.5	335.9
137.5°	188.0	189.7	195.7	204.5	216.0	231.4	246.8	264.4	284.2	305.1	330.9
140°	194.6	196.2	202.8	211.6	222.1	236.9	252.9	269.4	286.9	305.6	327.6
142.5°	202.3	203.4	209.4	218.2	228.1	241.9	256.7	272.1	288.6	306.2	324.9
145°	210.0	211.1	216.6	224.3	234.2	246.8	261.1	274.9	289.7	305.6	322.1
147.5°	218.2	218.8	223.7	230.9	239.7	251.2	263.9	276.5	290.2	304.5	319.4
150°	225.4	226.5	230.3	237.5	245.2	254.5	266.6	278.2	290.2	302.9	316.1
152.5°	233.1	233.6	236.9	243.0	250.1	258.4	269.4	279.3	289.7	300.7	312.2
155°	239.7	239.7	243.0	248.5	254.0	261.7	271.0	279.8	288.6	297.9	307.8
157.5°	245.7	245.7	248.5	253.4	258.4	264.4	272.7	280.4	287.5	295.2	304.0
160°	251.8	251.2	253.4	257.3	261.7	266.6	273.8	280.4	285.8	292.4	299.0
162.5°	256.7	256.2	258.4	261.7	265.0	268.8	274.9	279.8	284.2	289.1	294.6
165°	261.7	260.6	262.2	265.0	267.2	270.5	274.9	279.3	282.6	285.8	290.2
167.5°	265.0	264.4	265.5	267.2	268.8	271.0	274.9	278.2	279.8	282.6	285.8
170°	268.3	267.7	268.3	269.4	270.5	272.1	274.9	277.1	278.2	279.8	282.0
172.5°	270.5	269.4	269.9	271.0	271.6	272.1	274.3	276.0	276.0	276.5	278.2
175°	272.1	271.0	271.6	272.1	272.1	272.1	273.8	274.9	274.3	274.3	274.9
177.5°	273.2	272.1	272.1	272.7	272.1	272.1	273.2	273.8	272.7	272.7	273.2
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7

TEST NUMBER: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-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°	9.9	10.4	11.0	12.1	12.1	12.1	12.6	12.6
92.5°	119.3	85.8	63.8	53.3	44.5	42.9	41.8	40.7
95°	395.2	311.7	244.1	197.9	158.9	142.4	138.0	129.2
97.5°	566.8	500.2	432.1	366.1	333.1	304.5	289.7	283.1
100°	676.1	649.2	592.6	535.4	497.5	457.9	437.6	428.8
102.5°	713.0	740.5	720.7	686.6	645.4	620.1	597.5	591.5
105°	688.2	763.5	787.7	781.7	764.1	746.0	735.0	728.4
107.5°	637.7	737.2	795.4	819.6	824.6	821.8	816.3	810.8
110°	580.5	684.9	762.4	809.2	833.9	844.4	848.2	848.2

TEST NUMBER: P1007887

CATALOG NUMBER: S125IP-B610UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	535.4	633.3	711.9	769.0	808.1	827.9	838.9	843.8
115°	499.1	584.3	659.7	719.6	762.4	788.8	804.2	811.4
117.5°	473.9	549.2	615.1	671.7	715.2	742.7	758.1	762.4
120°	454.1	520.0	580.5	628.9	669.5	695.9	710.8	715.2
122.5°	439.2	499.1	551.4	595.9	631.1	654.7	669.5	673.4
125°	424.9	481.0	528.8	568.4	599.2	621.7	633.8	639.3
127.5°	410.1	463.4	508.5	545.9	573.9	594.2	605.8	608.0
130°	396.3	444.7	487.6	523.3	550.8	569.0	579.9	583.2
132.5°	382.6	427.1	465.1	499.1	526.6	544.8	554.7	558.5
135°	371.1	409.0	444.2	475.5	499.7	517.8	527.7	531.0
137.5°	360.6	392.5	422.7	450.2	472.2	489.2	498.6	502.4
140°	352.4	378.2	403.5	426.6	446.9	461.2	469.5	472.2
142.5°	345.2	366.1	387.0	406.2	422.7	434.3	442.0	444.2
145°	339.2	356.2	373.3	388.1	401.3	410.6	416.7	418.9
147.5°	333.1	347.4	361.2	372.7	383.7	391.4	395.2	396.3
150°	328.2	340.3	350.7	360.6	368.9	375.5	377.7	378.2
152.5°	322.7	333.1	342.5	349.6	356.2	361.2	363.4	363.9
155°	317.2	326.0	333.7	339.7	345.2	349.1	350.7	351.3
157.5°	311.7	319.4	325.4	330.4	334.8	338.1	339.7	339.7
160°	306.2	311.7	317.2	321.0	324.9	327.6	328.7	328.2
162.5°	300.1	305.1	309.5	312.8	315.5	317.7	317.7	317.7
165°	294.6	298.5	301.8	304.5	306.7	307.8	307.8	307.8
167.5°	289.1	291.9	294.6	296.8	297.9	299.0	298.5	298.5
170°	284.7	286.4	288.0	289.1	290.2	290.8	290.8	290.2
172.5°	279.8	281.5	282.6	283.1	283.1	284.2	283.1	282.6
175°	276.5	276.5	277.6	277.6	277.6	278.2	277.1	276.5
177.5°	273.8	274.3	274.3	274.3	273.8	274.3	272.7	272.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)