

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: P1007899

Luminaire Tested: S125IP-B850UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007899
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-B850UB2750-4F0-XX-W2A-4_3500K
Description: Define 5 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

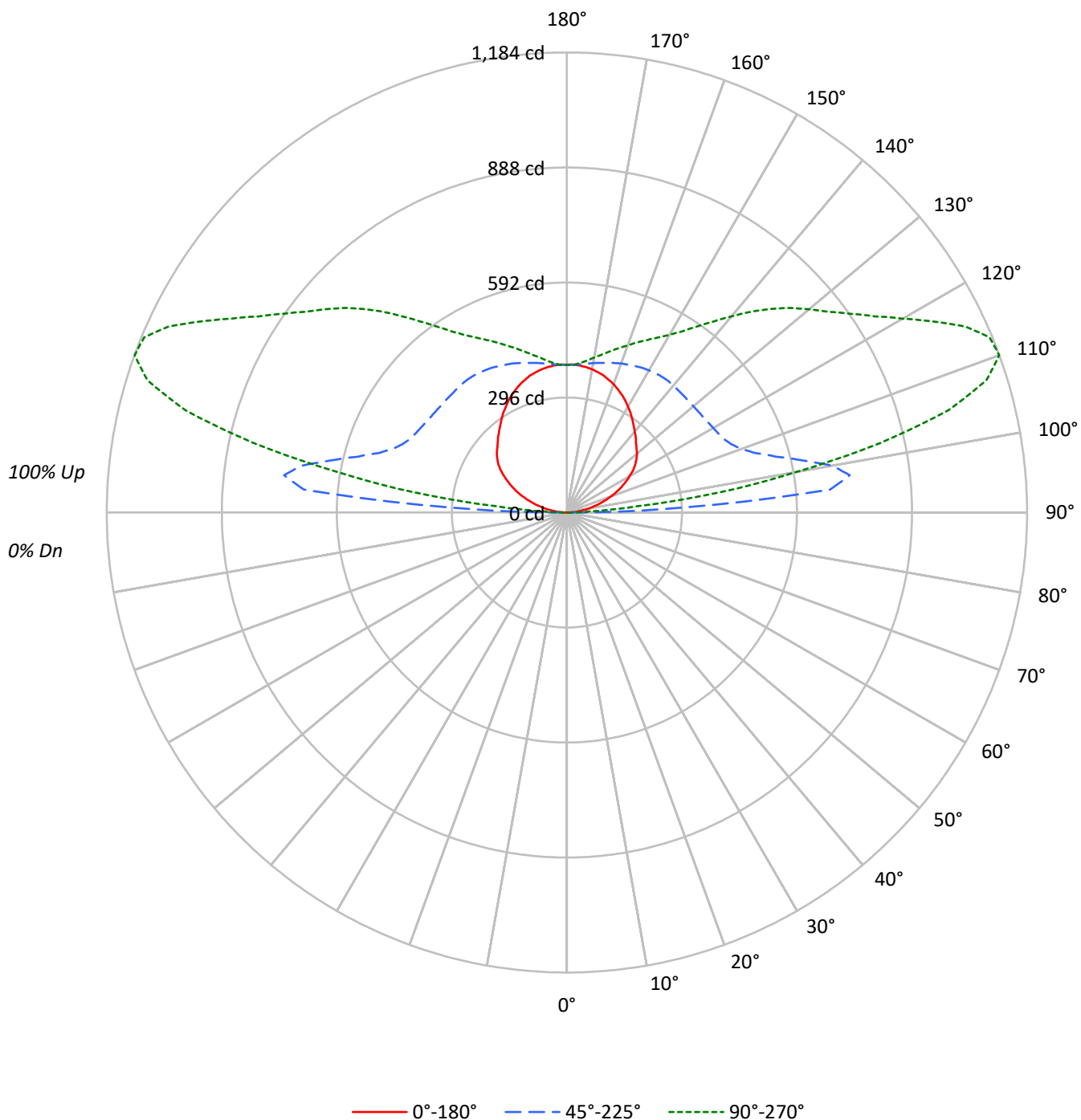
Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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: P1007899

CATALOG NUMBER: S125IP-B850UB2750-4F0-XX-W2A-4_3500K

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°	1.5	0.1
90°-100°	276.7	9.7
100°-110°	596.8	20.9
110°-120°	556.4	19.5
120°-130°	450.6	15.8
130°-140°	361.8	12.7
140°-150°	272.9	9.5
150°-160°	192.2	6.7
160°-170°	113.3	4.0
170°-180°	36.8	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1429.9	50.0
90°-150°	2515.2	88.0
90°-180°	2857.0	99.9
0°-180°	2859.0	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	7	12	16	18	2
95°	25	75	680	308	180	26
105°	87	121	556	1095	1016	91
115°	155	187	446	962	1132	153
125°	215	252	428	766	892	191
135°	252	303	425	642	741	195
145°	293	336	426	531	584	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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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°	0.8	1.5	3.1	4.6	6.1	7.7	8.4	10.0	10.7	12.3	13.0
92.5°	11.5	13.8	21.5	33.0	49.1	76.7	128.9	216.3	311.4	306.0	247.0
95°	25.3	26.1	32.2	40.7	57.5	92.0	174.1	342.9	554.6	679.6	665.0
97.5°	39.1	39.9	44.5	52.9	68.3	93.6	150.3	280.0	508.5	734.0	830.7
100°	53.7	55.2	58.3	66.7	81.3	104.3	148.8	248.5	441.8	692.6	884.4
102.5°	69.8	70.6	72.9	82.1	95.1	117.4	155.7	235.5	391.2	619.8	852.2
105°	86.7	86.7	90.5	98.2	110.5	131.9	165.7	233.9	362.0	556.1	776.2
107.5°	102.8	104.3	108.1	114.3	127.3	146.5	179.5	239.3	346.7	508.5	704.1
110°	120.4	122.0	125.0	131.9	143.4	163.4	194.8	247.7	340.6	477.1	644.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	138.1	139.6	141.9	148.8	160.3	179.5	209.4	258.5	340.6	458.7	599.8
115°	154.9	156.5	158.8	165.7	177.2	196.4	224.7	269.2	342.9	446.4	569.9
117.5°	170.3	172.6	174.9	181.8	194.8	213.2	240.1	281.5	346.7	439.5	550.0
120°	185.6	187.9	191.0	197.9	210.9	230.1	257.0	293.8	352.8	434.9	533.8
122.5°	201.7	203.3	205.6	212.5	227.0	246.2	273.1	307.6	358.2	431.1	520.0
125°	214.8	216.3	220.1	227.0	241.6	261.6	286.9	319.8	364.3	428.0	507.8
127.5°	225.5	227.8	232.4	240.8	256.2	276.1	300.7	331.4	371.2	426.5	496.3
130°	235.5	237.8	243.9	253.9	270.0	289.9	313.7	342.9	377.4	424.9	484.8
132.5°	243.1	246.2	253.9	265.4	282.3	302.2	326.0	352.8	384.3	424.9	475.6
135°	251.6	254.7	263.9	276.1	292.2	312.9	336.7	362.0	390.4	424.9	468.6
137.5°	262.3	264.6	273.1	285.3	301.4	322.9	344.4	368.9	396.5	425.7	461.7
140°	271.5	273.8	283.0	295.3	309.9	330.6	352.8	375.8	400.4	426.5	457.1
142.5°	282.3	283.8	292.2	304.5	318.3	337.5	358.2	379.7	402.7	427.2	453.3
145°	293.0	294.5	302.2	312.9	326.7	344.4	364.3	383.5	404.2	426.5	449.5
147.5°	304.5	305.3	312.2	322.1	334.4	350.5	368.2	385.8	405.0	424.9	445.6
150°	314.5	316.0	321.4	331.4	342.1	355.1	372.0	388.1	405.0	422.6	441.0
152.5°	325.2	326.0	330.6	339.0	349.0	360.5	375.8	389.6	404.2	419.6	435.7
155°	334.4	334.4	339.0	346.7	354.4	365.1	378.1	390.4	402.7	415.7	429.5
157.5°	342.9	342.9	346.7	353.6	360.5	368.9	380.4	391.2	401.2	411.9	424.2
160°	351.3	350.5	353.6	359.0	365.1	372.0	382.0	391.2	398.8	408.1	417.3
162.5°	358.2	357.4	360.5	365.1	369.7	375.1	383.5	390.4	396.5	403.5	411.1
165°	365.1	363.6	365.9	369.7	372.8	377.4	383.5	389.6	394.2	398.8	405.0
167.5°	369.7	368.9	370.5	372.8	375.1	378.1	383.5	388.1	390.4	394.2	398.8
170°	374.3	373.5	374.3	375.8	377.4	379.7	383.5	386.6	388.1	390.4	393.5
172.5°	377.4	375.8	376.6	378.1	378.9	379.7	382.7	385.0	385.0	385.8	388.1
175°	379.7	378.1	378.9	379.7	379.7	379.7	382.0	383.5	382.7	382.7	383.5
177.5°	381.2	379.7	379.7	380.4	379.7	379.7	381.2	382.0	380.4	380.4	381.2
180°	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4

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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°	13.8	14.6	15.3	16.9	16.9	16.9	17.6	17.6
92.5°	166.4	119.7	89.0	74.4	62.1	59.8	58.3	56.8
95°	551.5	434.9	340.6	276.1	221.7	198.7	192.5	180.2
97.5°	790.8	698.0	602.9	510.8	464.8	424.9	404.2	395.0
100°	943.4	905.8	826.8	747.1	694.2	638.9	610.5	598.3
102.5°	994.8	1033.2	1005.6	958.0	900.5	865.2	833.7	825.3
105°	960.3	1065.4	1099.1	1090.7	1066.2	1040.8	1025.5	1016.3
107.5°	889.7	1028.6	1109.9	1143.6	1150.5	1146.7	1139.0	1131.4
110°	810.0	955.7	1063.9	1129.1	1163.6	1178.1	1183.5	1183.5

TEST NUMBER: P1007899

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	747.1	883.6	993.3	1073.1	1127.5	1155.1	1170.5	1177.4
115°	696.5	815.3	920.4	1004.0	1063.9	1100.7	1122.1	1132.1
117.5°	661.2	766.3	858.3	937.3	997.9	1036.2	1057.7	1063.9
120°	633.6	725.6	810.0	877.5	934.2	971.0	991.8	997.9
122.5°	612.8	696.5	769.3	831.4	880.5	913.5	934.2	939.6
125°	592.9	671.1	737.9	793.1	836.1	867.5	884.4	892.0
127.5°	572.2	646.6	709.5	761.6	800.8	829.1	845.3	848.3
130°	553.0	620.5	680.3	730.2	768.6	793.9	809.2	813.8
132.5°	533.8	596.0	648.9	696.5	734.8	760.1	773.9	779.3
135°	517.7	570.7	619.8	663.5	697.2	722.5	736.3	740.9
137.5°	503.2	547.7	589.8	628.2	658.9	682.6	695.7	701.1
140°	491.7	527.7	563.0	595.2	623.6	643.5	655.0	658.9
142.5°	481.7	510.8	540.0	566.8	589.8	605.9	616.7	619.8
145°	473.3	497.0	520.8	541.5	559.9	573.0	581.4	584.5
147.5°	464.8	484.8	503.9	520.0	535.4	546.1	551.5	553.0
150°	457.9	474.8	489.4	503.2	514.7	523.9	526.9	527.7
152.5°	450.2	464.8	477.9	487.8	497.0	503.9	507.0	507.8
155°	442.6	454.8	465.6	474.0	481.7	487.1	489.4	490.1
157.5°	434.9	445.6	454.1	461.0	467.1	471.7	474.0	474.0
160°	427.2	434.9	442.6	447.9	453.3	457.1	458.7	457.9
162.5°	418.8	425.7	431.8	436.4	440.3	443.3	443.3	443.3
165°	411.1	416.5	421.1	424.9	428.0	429.5	429.5	429.5
167.5°	403.5	407.3	411.1	414.2	415.7	417.3	416.5	416.5
170°	397.3	399.6	401.9	403.5	405.0	405.8	405.8	405.0
172.5°	390.4	392.7	394.2	395.0	395.0	396.5	395.0	394.2
175°	385.8	385.8	387.3	387.3	387.3	388.1	386.6	385.8
177.5°	382.0	382.7	382.7	382.7	382.0	382.7	380.4	380.4
180°	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4

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