

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: P1007647

Luminaire Tested: S124IP-B1035UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007647
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-B1035UB50-4F0-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

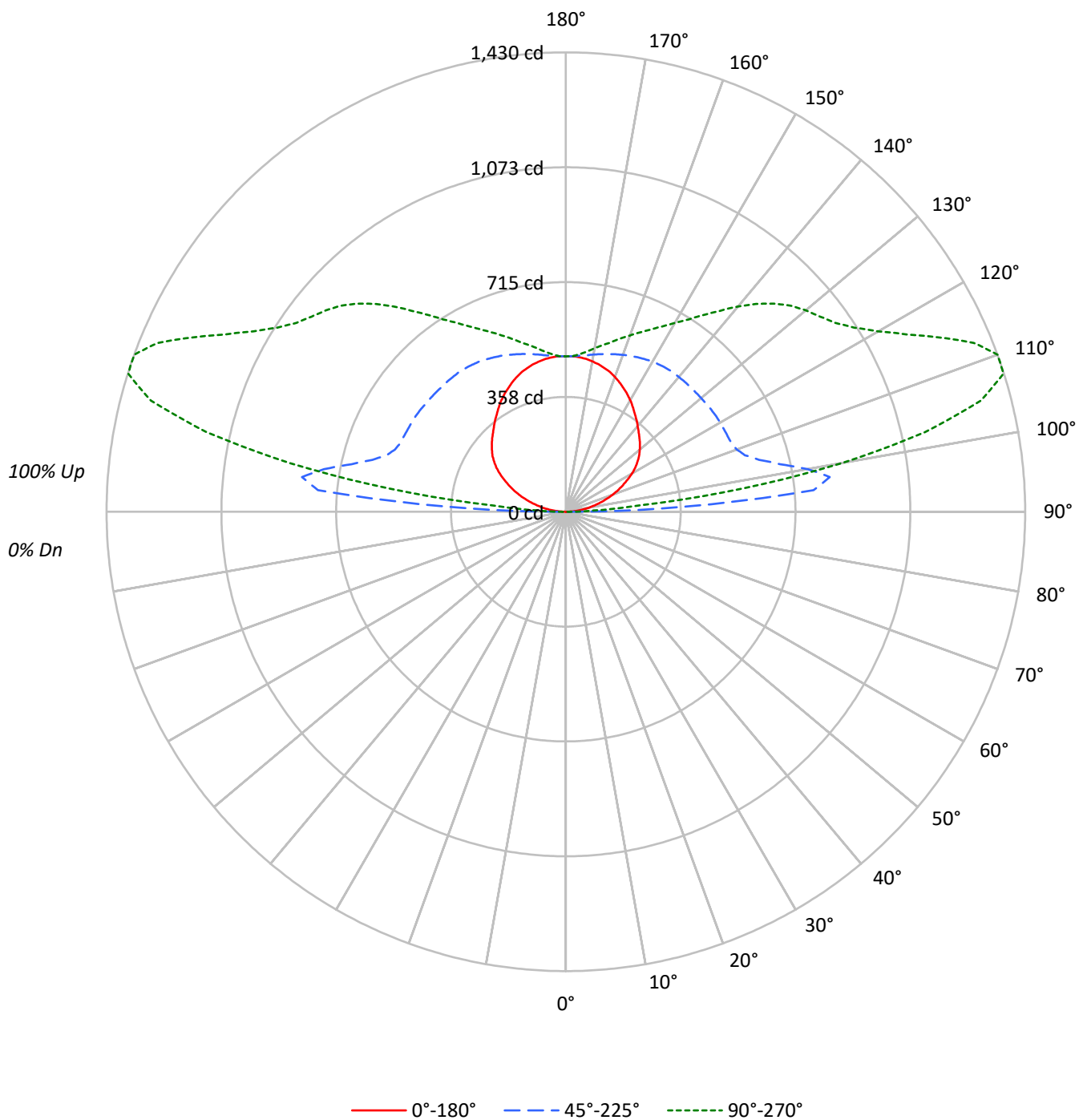
Lumens per Lamp: N/A
Luminaire Lumens: 3525.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
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

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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°	1.9	0.1
90°-100°	350.6	9.9
100°-110°	731.9	20.8
110°-120°	650.6	18.5
120°-130°	547.7	15.5
130°-140°	457.0	13.0
140°-150°	348.9	9.9
150°-160°	245.3	7.0
160°-170°	144.3	4.1
170°-180°	46.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	1733.2	49.2
90°-150°	3086.7	87.6
90°-180°	3523.0	99.9
0°-180°	3525.0	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	8	17	19	20	2
95°	31	99	774	384	232	34
105°	111	161	623	1342	1337	118
115°	196	246	556	1068	1284	194
125°	273	324	553	909	1024	243
135°	324	386	548	807	916	250
145°	374	428	546	680	748	234
155°	425	459	530	601	626	196
165°	463	477	508	538	546	131
175°	483	484	488	494	492	46
180°	484	484	484	484	484	

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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°	1.0	2.9	5.7	6.7	7.6	7.6	13.3	13.3	15.2	17.1	16.2
92.5°	13.3	19.0	29.5	43.7	60.8	85.5	144.5	236.6	326.0	372.5	309.8
95°	31.4	34.2	43.7	56.1	78.9	118.8	201.5	357.3	584.5	774.5	796.4
97.5°	52.3	52.3	60.8	72.2	92.2	126.4	192.0	326.0	559.8	828.7	998.8
100°	72.2	72.2	78.9	90.3	108.3	138.8	194.8	302.2	496.1	764.1	1007.4
102.5°	91.2	93.1	98.8	109.3	126.4	154.9	204.3	295.6	453.3	683.3	936.1
105°	111.2	114.0	118.8	130.2	147.3	174.9	220.5	299.4	432.4	623.4	846.8
107.5°	133.0	134.9	139.7	152.1	168.2	195.8	237.6	310.8	426.7	584.5	773.6
110°	154.9	156.8	161.6	173.0	190.1	215.7	257.5	324.1	428.6	566.4	721.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	175.8	177.7	183.4	193.9	211.0	236.6	276.6	338.3	434.3	557.9	691.9
115°	195.8	198.6	205.3	214.8	232.8	258.5	296.5	353.5	441.9	556.0	675.7
117.5°	216.7	219.5	225.2	235.7	252.8	279.4	315.5	368.7	449.5	555.0	667.1
120°	237.6	239.5	246.1	256.6	272.7	299.4	335.5	384.9	458.1	555.0	660.5
122.5°	256.6	258.5	265.1	274.6	292.7	318.4	354.5	400.1	466.6	554.1	652.9
125°	272.7	276.6	282.3	292.7	310.8	337.4	371.6	415.3	475.2	553.1	644.3
127.5°	288.0	290.8	297.5	308.9	327.9	354.5	387.7	428.6	481.8	551.2	632.9
130°	300.3	304.1	311.7	326.0	344.0	371.6	403.9	441.0	489.4	550.2	622.5
132.5°	312.7	315.5	326.0	339.3	359.2	384.9	417.2	453.3	496.1	549.3	613.0
135°	324.1	327.9	337.4	353.5	373.5	398.2	429.6	463.8	502.7	548.3	603.5
137.5°	335.5	339.3	349.7	364.9	385.8	409.6	439.1	471.4	506.5	548.3	594.9
140°	347.8	350.7	361.1	377.3	397.2	420.1	448.6	479.0	511.3	547.4	588.3
142.5°	361.1	364.0	373.5	388.7	407.7	429.6	457.1	484.7	515.1	547.4	582.6
145°	373.5	376.3	385.8	399.1	417.2	438.1	462.8	488.5	516.0	545.5	575.9
147.5°	387.7	388.7	397.2	411.5	426.7	445.7	469.5	492.3	517.0	542.6	570.2
150°	401.0	402.0	409.6	421.0	435.3	453.3	474.2	495.1	517.0	539.8	563.6
152.5°	413.4	413.4	421.0	431.5	443.8	460.0	478.0	497.0	515.1	535.0	556.0
155°	424.8	425.8	431.5	441.0	451.4	465.7	481.8	498.0	513.2	530.3	548.3
157.5°	436.2	436.2	441.9	449.5	459.0	470.4	484.7	498.0	511.3	525.5	540.7
160°	446.7	446.7	450.5	457.1	464.7	475.2	486.6	498.0	508.4	519.8	532.2
162.5°	456.2	455.2	458.1	463.8	470.4	478.0	488.5	498.0	505.6	514.1	524.6
165°	462.8	462.8	464.7	469.5	474.2	479.9	488.5	496.1	501.8	508.4	516.0
167.5°	470.4	469.5	470.4	474.2	477.1	481.8	488.5	494.2	498.0	502.7	508.4
170°	475.2	474.2	475.2	478.0	479.9	482.8	487.5	492.3	494.2	497.0	500.8
172.5°	479.9	479.0	479.0	480.9	481.8	483.7	486.6	490.4	490.4	491.3	494.2
175°	482.8	481.8	481.8	482.8	483.7	483.7	485.6	488.5	487.5	487.5	489.4
177.5°	484.7	483.7	482.8	483.7	483.7	483.7	484.7	486.6	484.7	484.7	485.6
180°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7

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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°	17.1	18.1	19.0	19.0	20.0	20.9	20.0	20.0
92.5°	229.0	171.1	134.9	111.2	96.9	90.3	86.5	86.5
95°	704.2	556.9	429.6	337.4	290.8	261.3	244.2	231.9
97.5°	1014.0	940.8	836.3	729.9	665.2	608.2	579.7	556.9
100°	1146.1	1165.1	1118.6	1048.2	965.6	907.6	879.1	871.5
102.5°	1139.5	1252.6	1281.1	1262.1	1219.3	1181.3	1150.9	1145.2
105°	1064.4	1228.8	1322.9	1361.8	1363.7	1356.1	1342.8	1337.1
107.5°	972.2	1149.9	1281.1	1360.9	1402.7	1419.8	1427.4	1428.4
110°	890.5	1054.9	1192.7	1297.2	1364.7	1404.6	1421.7	1430.3

TEST NUMBER: P1007647

CATALOG NUMBER: S124IP-B1035UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	830.6	971.3	1099.5	1204.1	1283.0	1333.3	1359.0	1374.2
115°	794.5	911.4	1022.6	1113.8	1188.9	1245.9	1276.3	1283.9
117.5°	773.6	872.4	962.7	1042.5	1109.1	1158.5	1190.8	1195.5
120°	760.3	848.7	924.7	992.2	1046.3	1088.1	1112.9	1123.3
122.5°	748.9	833.5	900.9	957.9	1001.7	1035.9	1055.8	1066.3
125°	735.6	817.3	882.9	935.1	973.2	1000.7	1018.8	1024.5
127.5°	720.4	799.2	864.8	914.2	952.2	977.0	992.2	997.9
130°	701.4	776.4	841.1	891.4	930.4	954.1	969.4	975.1
132.5°	681.4	750.8	813.5	863.9	901.9	929.4	943.7	949.4
135°	663.3	725.1	783.1	830.6	868.6	895.2	910.4	916.1
137.5°	646.2	700.4	750.8	794.5	830.6	858.2	870.5	877.2
140°	632.0	676.6	719.4	759.3	792.6	813.5	826.8	834.4
142.5°	618.7	656.7	691.9	725.1	753.6	772.6	784.0	788.8
145°	606.3	638.6	667.1	693.8	717.5	733.7	743.2	747.9
147.5°	595.9	622.5	646.2	668.1	686.1	700.4	708.0	709.9
150°	586.4	608.2	627.2	644.3	659.5	671.9	677.6	678.5
152.5°	575.9	594.0	611.1	624.4	636.7	646.2	649.1	650.0
155°	565.5	580.7	594.9	606.3	615.8	623.4	626.3	626.3
157.5°	554.1	567.4	579.7	589.2	596.8	602.5	604.4	604.4
160°	543.6	554.1	564.5	572.1	577.8	583.5	584.5	584.5
162.5°	533.1	541.7	549.3	556.0	559.8	565.5	566.4	565.5
165°	523.6	529.3	536.0	540.7	544.5	548.3	547.4	546.4
167.5°	514.1	518.9	524.6	527.4	529.3	532.2	532.2	531.2
170°	505.6	508.4	512.2	515.1	517.0	517.9	517.0	517.0
172.5°	498.0	499.9	501.8	503.7	504.6	505.6	504.6	502.7
175°	491.3	492.3	494.2	494.2	494.2	496.1	494.2	492.3
177.5°	486.6	487.5	487.5	488.5	487.5	488.5	486.6	484.7
180°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7

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