

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: P1007677

Luminaire Tested: S124IP-B1205UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007677
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-B1205UB50-4F0-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

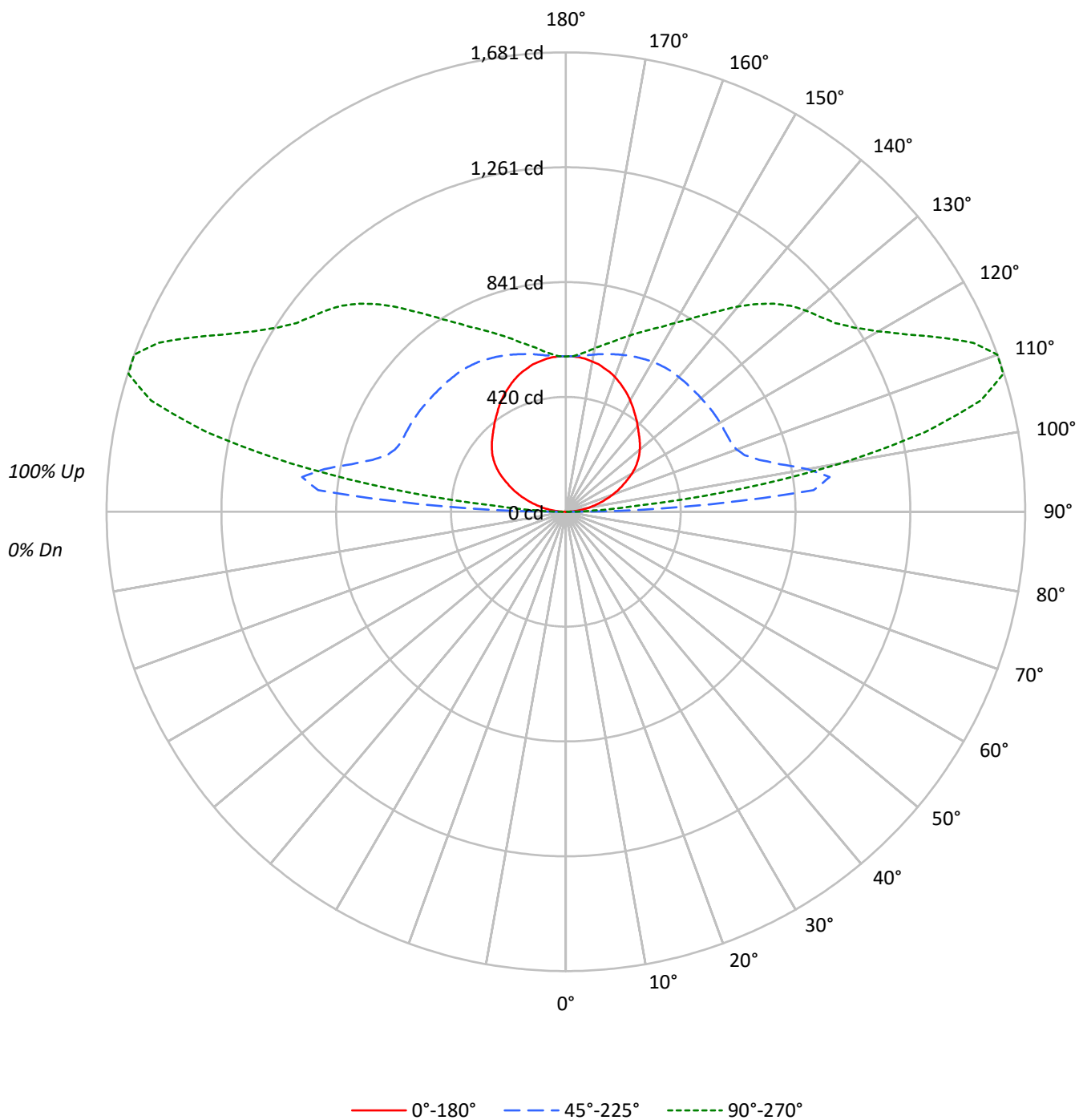
Lumens per Lamp: N/A
Luminaire Lumens: 4142.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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°	2.2	0.1
90°-100°	412.0	9.9
100°-110°	860.0	20.8
110°-120°	764.5	18.5
120°-130°	643.5	15.5
130°-140°	536.9	13.0
140°-150°	409.9	9.9
150°-160°	288.2	7.0
160°-170°	169.5	4.1
170°-180°	55.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	2036.5	49.2
90°-150°	3626.9	87.6
90°-180°	4140.0	100.0
0°-180°	4142.0	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	20	22	24	2
95°	37	116	910	451	272	40
105°	131	189	732	1577	1571	139
115°	230	289	653	1255	1509	228
125°	320	381	650	1068	1204	286
135°	381	453	644	948	1076	294
145°	439	502	641	800	879	275
155°	499	539	623	706	736	230
165°	544	561	597	633	642	154
175°	567	568	573	581	578	54
180°	568	568	568	568	568	

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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°	1.1	3.4	6.7	7.8	8.9	8.9	15.6	15.6	17.9	20.1	19.0
92.5°	15.6	22.3	34.6	51.4	71.5	100.5	169.7	278.1	383.0	437.7	364.0
95°	36.9	40.2	51.4	65.9	92.7	139.6	236.7	419.9	686.8	910.1	935.8
97.5°	61.4	61.4	71.5	84.9	108.3	148.5	225.6	383.0	657.7	973.8	1173.6
100°	84.9	84.9	92.7	106.1	127.3	163.0	228.9	355.1	582.9	897.8	1183.7
102.5°	107.2	109.4	116.1	128.4	148.5	182.0	240.1	347.3	532.7	802.9	1099.9
105°	130.7	134.0	139.6	153.0	173.1	205.5	259.1	351.8	508.1	732.5	995.0
107.5°	156.3	158.6	164.2	178.7	197.7	230.0	279.2	365.2	501.4	686.8	909.0
110°	182.0	184.3	189.8	203.2	223.3	253.5	302.6	380.8	503.6	665.5	847.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	206.6	208.8	215.5	227.8	247.9	278.1	325.0	397.5	510.3	655.5	812.9
115°	230.0	233.4	241.2	252.4	273.6	303.7	348.4	415.4	519.3	653.3	794.0
117.5°	254.6	258.0	264.7	276.9	297.0	328.3	370.7	433.3	528.2	652.1	783.9
120°	279.2	281.4	289.2	301.5	320.5	351.8	394.2	452.3	538.2	652.1	776.1
122.5°	301.5	303.7	311.6	322.7	343.9	374.1	416.5	470.1	548.3	651.0	767.2
125°	320.5	325.0	331.7	343.9	365.2	396.4	436.6	488.0	558.3	649.9	757.1
127.5°	338.4	341.7	349.5	362.9	385.3	416.5	455.6	503.6	566.2	647.7	743.7
130°	352.9	357.3	366.3	383.0	404.2	436.6	474.6	518.1	575.1	646.6	731.4
132.5°	367.4	370.7	383.0	398.7	422.1	452.3	490.2	532.7	582.9	645.4	720.3
135°	380.8	385.3	396.4	415.4	438.9	467.9	504.7	544.9	590.7	644.3	709.1
137.5°	394.2	398.7	410.9	428.8	453.4	481.3	515.9	553.9	595.2	644.3	699.0
140°	408.7	412.1	424.3	443.3	466.8	493.6	527.1	562.8	600.8	643.2	691.2
142.5°	424.3	427.7	438.9	456.7	479.1	504.7	537.1	569.5	605.2	643.2	684.5
145°	438.9	442.2	453.4	469.0	490.2	514.8	543.8	574.0	606.4	641.0	676.7
147.5°	455.6	456.7	466.8	483.5	501.4	523.7	551.6	578.4	607.5	637.6	670.0
150°	471.2	472.4	481.3	494.7	511.4	532.7	557.2	581.8	607.5	634.3	662.2
152.5°	485.8	485.8	494.7	507.0	521.5	540.5	561.7	584.0	605.2	628.7	653.3
155°	499.2	500.3	507.0	518.1	530.4	547.2	566.2	585.1	603.0	623.1	644.3
157.5°	512.6	512.6	519.3	528.2	539.4	552.8	569.5	585.1	600.8	617.5	635.4
160°	524.8	524.8	529.3	537.1	546.1	558.3	571.7	585.1	597.4	610.8	625.3
162.5°	536.0	534.9	538.2	544.9	552.8	561.7	574.0	585.1	594.1	604.1	616.4
165°	543.8	543.8	546.1	551.6	557.2	563.9	574.0	582.9	589.6	597.4	606.4
167.5°	552.8	551.6	552.8	557.2	560.6	566.2	574.0	580.7	585.1	590.7	597.4
170°	558.3	557.2	558.3	561.7	563.9	567.3	572.9	578.4	580.7	584.0	588.5
172.5°	563.9	562.8	562.8	565.0	566.2	568.4	571.7	576.2	576.2	577.3	580.7
175°	567.3	566.2	566.2	567.3	568.4	568.4	570.6	574.0	572.9	572.9	575.1
177.5°	569.5	568.4	567.3	568.4	568.4	568.4	569.5	571.7	569.5	569.5	570.6
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

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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°	20.1	21.2	22.3	22.3	23.5	24.6	23.5	23.5
92.5°	269.1	201.0	158.6	130.7	113.9	106.1	101.6	101.6
95°	827.5	654.4	504.7	396.4	341.7	307.1	287.0	272.5
97.5°	1191.5	1105.5	982.7	857.6	781.7	714.7	681.2	654.4
100°	1346.7	1369.1	1314.3	1231.7	1134.6	1066.4	1032.9	1024.0
102.5°	1338.9	1471.8	1505.3	1483.0	1432.7	1388.0	1352.3	1345.6
105°	1250.7	1443.9	1554.4	1600.2	1602.4	1593.5	1577.9	1571.2
107.5°	1142.4	1351.2	1505.3	1599.1	1648.2	1668.3	1677.3	1678.4
110°	1046.3	1239.5	1401.4	1524.3	1603.6	1650.5	1670.6	1680.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	976.0	1141.3	1292.0	1414.8	1507.5	1566.7	1596.9	1614.7
115°	933.6	1070.9	1201.6	1308.8	1397.0	1464.0	1499.7	1508.6
117.5°	909.0	1025.1	1131.2	1225.0	1303.2	1361.2	1399.2	1404.8
120°	893.4	997.2	1086.5	1165.8	1229.5	1278.6	1307.6	1319.9
122.5°	880.0	979.3	1058.6	1125.6	1177.0	1217.2	1240.6	1252.9
125°	864.3	960.4	1037.4	1098.8	1143.5	1175.9	1197.1	1203.8
127.5°	846.5	939.1	1016.2	1074.3	1118.9	1148.0	1165.8	1172.5
130°	824.1	912.3	988.3	1047.5	1093.2	1121.2	1139.0	1145.7
132.5°	800.7	882.2	955.9	1015.1	1059.7	1092.1	1108.9	1115.6
135°	779.4	852.0	920.2	976.0	1020.7	1051.9	1069.8	1076.5
137.5°	759.3	823.0	882.2	933.6	976.0	1008.4	1022.9	1030.7
140°	742.6	795.1	845.3	892.2	931.3	955.9	971.5	980.5
142.5°	727.0	771.6	812.9	852.0	885.5	907.9	921.3	926.9
145°	712.4	750.4	783.9	815.2	843.1	862.1	873.3	878.8
147.5°	700.2	731.4	759.3	785.0	806.2	823.0	831.9	834.2
150°	689.0	714.7	737.0	757.1	775.0	789.5	796.2	797.3
152.5°	676.7	697.9	718.0	733.7	748.2	759.3	762.7	763.8
155°	664.4	682.3	699.0	712.4	723.6	732.5	735.9	735.9
157.5°	651.0	666.7	681.2	692.3	701.3	708.0	710.2	710.2
160°	638.7	651.0	663.3	672.2	678.9	685.6	686.8	686.8
162.5°	626.5	636.5	645.4	653.3	657.7	664.4	665.5	664.4
165°	615.3	622.0	629.8	635.4	639.9	644.3	643.2	642.1
167.5°	604.1	609.7	616.4	619.8	622.0	625.3	625.3	624.2
170°	594.1	597.4	601.9	605.2	607.5	608.6	607.5	607.5
172.5°	585.1	587.4	589.6	591.8	593.0	594.1	593.0	590.7
175°	577.3	578.4	580.7	580.7	580.7	582.9	580.7	578.4
177.5°	571.7	572.9	572.9	574.0	572.9	574.0	571.7	569.5
180°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4

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