

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: P1007650

Luminaire Tested: S124IP-B1205UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007650
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-B1205UB27-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

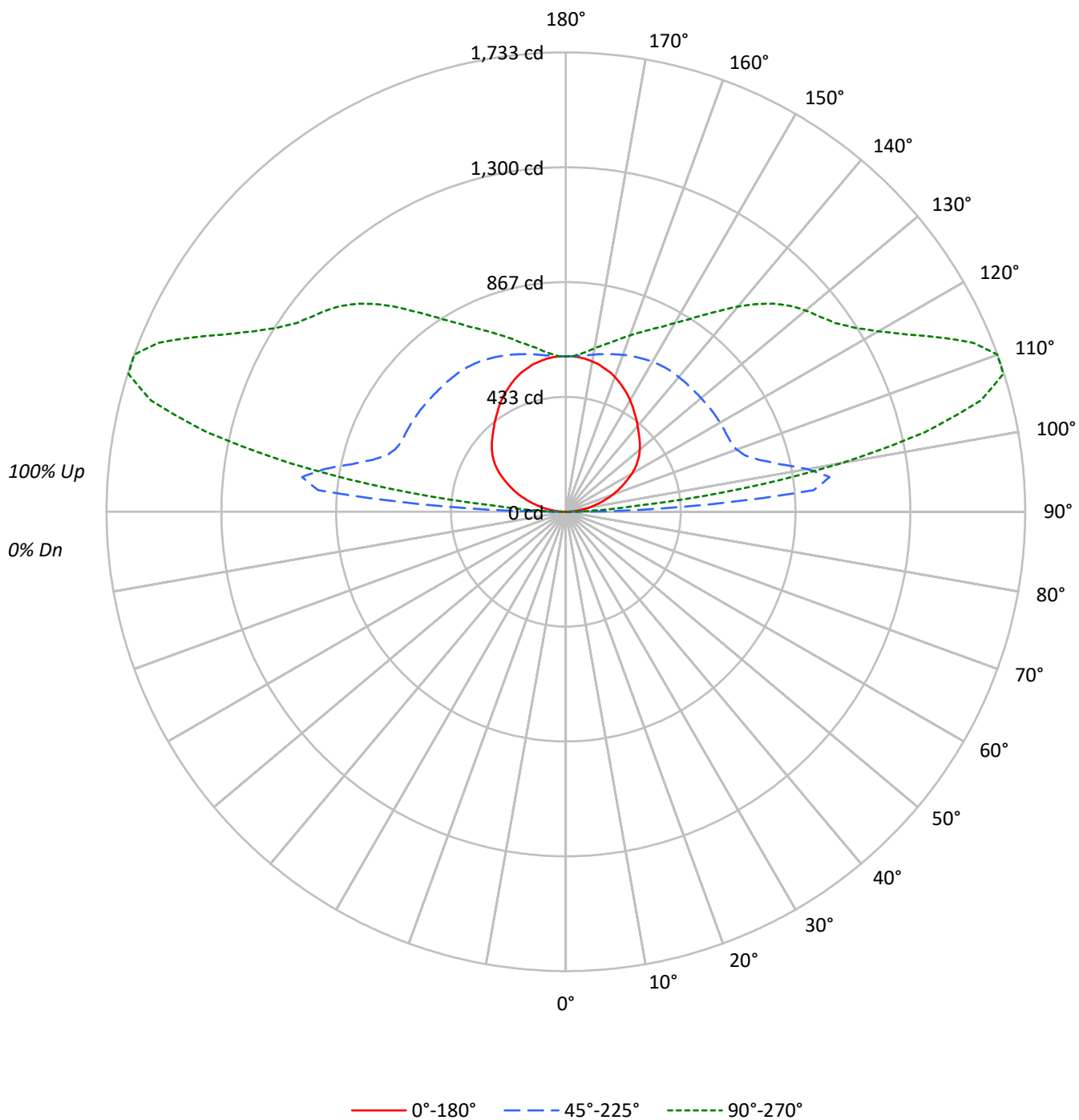
Lumens per Lamp: N/A
Luminaire Lumens: 4270.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.3	0.1
90°-100°	424.7	9.9
100°-110°	886.6	20.8
110°-120°	788.1	18.5
120°-130°	663.4	15.5
130°-140°	553.5	13.0
140°-150°	422.6	9.9
150°-160°	297.1	7.0
160°-170°	174.7	4.1
170°-180°	56.8	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	2099.4	49.2
90°-150°	3739.0	87.6
90°-180°	4268.0	100.0
0°-180°	4270.0	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	21	23	24	3
95°	38	120	938	464	281	42
105°	135	195	755	1626	1620	143
115°	237	298	674	1294	1555	235
125°	330	393	670	1101	1241	294
135°	393	467	664	977	1110	303
145°	452	518	661	824	906	284
155°	515	555	642	728	759	237
165°	561	578	616	652	662	158
175°	585	586	591	599	596	56
180°	586	586	586	586	586	

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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°	1.2	3.5	6.9	8.1	9.2	9.2	16.1	16.1	18.4	20.7	19.6
92.5°	16.1	23.0	35.7	53.0	73.7	103.6	175.0	286.6	394.9	451.3	375.3
95°	38.0	41.4	53.0	67.9	95.5	143.9	244.1	432.9	708.0	938.2	964.7
97.5°	63.3	63.3	73.7	87.5	111.7	153.1	232.5	394.9	678.1	1003.8	1209.9
100°	87.5	87.5	95.5	109.4	131.2	168.1	236.0	366.1	600.9	925.6	1220.3
102.5°	110.5	112.8	119.7	132.4	153.1	187.6	247.5	358.0	549.1	827.7	1133.9
105°	134.7	138.1	143.9	157.7	178.4	211.8	267.1	362.6	523.8	755.2	1025.7
107.5°	161.2	163.5	169.2	184.2	203.8	237.1	287.8	376.4	516.9	708.0	937.1
110°	187.6	189.9	195.7	209.5	230.2	261.3	312.0	392.6	519.2	686.1	873.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	213.0	215.3	222.2	234.8	255.6	286.6	335.0	409.8	526.1	675.8	838.1
115°	237.1	240.6	248.7	260.2	282.0	313.1	359.2	428.2	535.3	673.5	818.5
117.5°	262.5	265.9	272.8	285.5	306.2	338.5	382.2	446.7	544.5	672.3	808.1
120°	287.8	290.1	298.2	310.8	330.4	362.6	406.4	466.2	554.9	672.3	800.1
122.5°	310.8	313.1	321.2	332.7	354.6	385.7	429.4	484.7	565.2	671.1	790.9
125°	330.4	335.0	341.9	354.6	376.4	408.7	450.1	503.1	575.6	670.0	780.5
127.5°	348.8	352.3	360.3	374.1	397.2	429.4	469.7	519.2	583.7	667.7	766.7
130°	363.8	368.4	377.6	394.9	416.7	450.1	489.3	534.2	592.9	666.5	754.0
132.5°	378.7	382.2	394.9	411.0	435.2	466.2	505.4	549.1	600.9	665.4	742.5
135°	392.6	397.2	408.7	428.2	452.4	482.4	520.3	561.8	609.0	664.2	731.0
137.5°	406.4	411.0	423.6	442.1	467.4	496.2	531.9	571.0	613.6	664.2	720.7
140°	421.3	424.8	437.5	457.0	481.2	508.8	543.4	580.2	619.3	663.1	712.6
142.5°	437.5	440.9	452.4	470.8	493.9	520.3	553.7	587.1	623.9	663.1	705.7
145°	452.4	455.9	467.4	483.5	505.4	530.7	560.6	591.7	625.1	660.8	697.6
147.5°	469.7	470.8	481.2	498.5	516.9	539.9	568.7	596.3	626.3	657.3	690.7
150°	485.8	487.0	496.2	510.0	527.2	549.1	574.4	599.8	626.3	653.9	682.7
152.5°	500.8	500.8	510.0	522.6	537.6	557.2	579.1	602.1	623.9	648.1	673.5
155°	514.6	515.7	522.6	534.2	546.8	564.1	583.7	603.2	621.6	642.4	664.2
157.5°	528.4	528.4	535.3	544.5	556.0	569.8	587.1	603.2	619.3	636.6	655.0
160°	541.1	541.1	545.7	553.7	562.9	575.6	589.4	603.2	615.9	629.7	644.7
162.5°	552.6	551.4	554.9	561.8	569.8	579.1	591.7	603.2	612.4	622.8	635.5
165°	560.6	560.6	562.9	568.7	574.4	581.4	591.7	600.9	607.8	615.9	625.1
167.5°	569.8	568.7	569.8	574.4	577.9	583.7	591.7	598.6	603.2	609.0	615.9
170°	575.6	574.4	575.6	579.1	581.4	584.8	590.6	596.3	598.6	602.1	606.7
172.5°	581.4	580.2	580.2	582.5	583.7	586.0	589.4	594.0	594.0	595.2	598.6
175°	584.8	583.7	583.7	584.8	586.0	586.0	588.3	591.7	590.6	590.6	592.9
177.5°	587.1	586.0	584.8	586.0	586.0	586.0	587.1	589.4	587.1	587.1	588.3
180°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0

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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°	20.7	21.9	23.0	23.0	24.2	25.3	24.2	24.2
92.5°	277.4	207.2	163.5	134.7	117.4	109.4	104.8	104.8
95°	853.0	674.6	520.3	408.7	352.3	316.6	295.9	280.9
97.5°	1228.3	1139.7	1013.1	884.1	805.8	736.8	702.2	674.6
100°	1388.3	1411.4	1355.0	1269.8	1169.6	1099.4	1064.9	1055.6
102.5°	1380.3	1517.3	1551.8	1528.8	1477.0	1430.9	1394.1	1387.2
105°	1289.3	1488.5	1602.5	1649.7	1652.0	1642.8	1626.6	1619.7
107.5°	1177.7	1392.9	1551.8	1648.5	1699.2	1719.9	1729.1	1730.3
110°	1078.7	1277.8	1444.8	1571.4	1653.1	1701.5	1722.2	1732.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1006.1	1176.5	1331.9	1458.6	1554.1	1615.1	1646.2	1664.6
115°	962.4	1104.0	1238.7	1349.2	1440.1	1509.2	1546.1	1555.3
117.5°	937.1	1056.8	1166.2	1262.9	1343.4	1403.3	1442.5	1448.2
120°	921.0	1028.0	1120.1	1201.9	1267.5	1318.1	1348.1	1360.7
122.5°	907.1	1009.6	1091.3	1160.4	1213.4	1254.8	1279.0	1291.6
125°	891.0	990.0	1069.5	1132.8	1178.8	1212.2	1234.1	1241.0
127.5°	872.6	968.2	1047.6	1107.5	1153.5	1183.4	1201.9	1208.8
130°	849.6	940.5	1018.8	1079.8	1127.0	1155.8	1174.2	1181.1
132.5°	825.4	909.4	985.4	1046.4	1092.5	1125.9	1143.1	1150.0
135°	803.5	878.4	948.6	1006.1	1052.2	1084.4	1102.8	1109.8
137.5°	782.8	848.4	909.4	962.4	1006.1	1039.5	1054.5	1062.6
140°	765.5	819.7	871.5	919.8	960.1	985.4	1001.5	1010.8
142.5°	749.4	795.5	838.1	878.4	912.9	935.9	949.7	955.5
145°	734.5	773.6	808.1	840.4	869.2	888.7	900.2	906.0
147.5°	721.8	754.0	782.8	809.3	831.2	848.4	857.6	859.9
150°	710.3	736.8	759.8	780.5	798.9	813.9	820.8	822.0
152.5°	697.6	719.5	740.2	756.3	771.3	782.8	786.3	787.4
155°	685.0	703.4	720.7	734.5	746.0	755.2	758.6	758.6
157.5°	671.1	687.3	702.2	713.7	723.0	729.9	732.2	732.2
160°	658.5	671.1	683.8	693.0	699.9	706.8	708.0	708.0
162.5°	645.8	656.2	665.4	673.5	678.1	685.0	686.1	685.0
165°	634.3	641.2	649.3	655.0	659.6	664.2	663.1	661.9
167.5°	622.8	628.6	635.5	638.9	641.2	644.7	644.7	643.5
170°	612.4	615.9	620.5	623.9	626.3	627.4	626.3	626.3
172.5°	603.2	605.5	607.8	610.1	611.3	612.4	611.3	609.0
175°	595.2	596.3	598.6	598.6	598.6	600.9	598.6	596.3
177.5°	589.4	590.6	590.6	591.7	590.6	591.7	589.4	587.1
180°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0

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