

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P334977

Luminaire Tested: **S125IP-S810U840-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S810U840-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2943.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

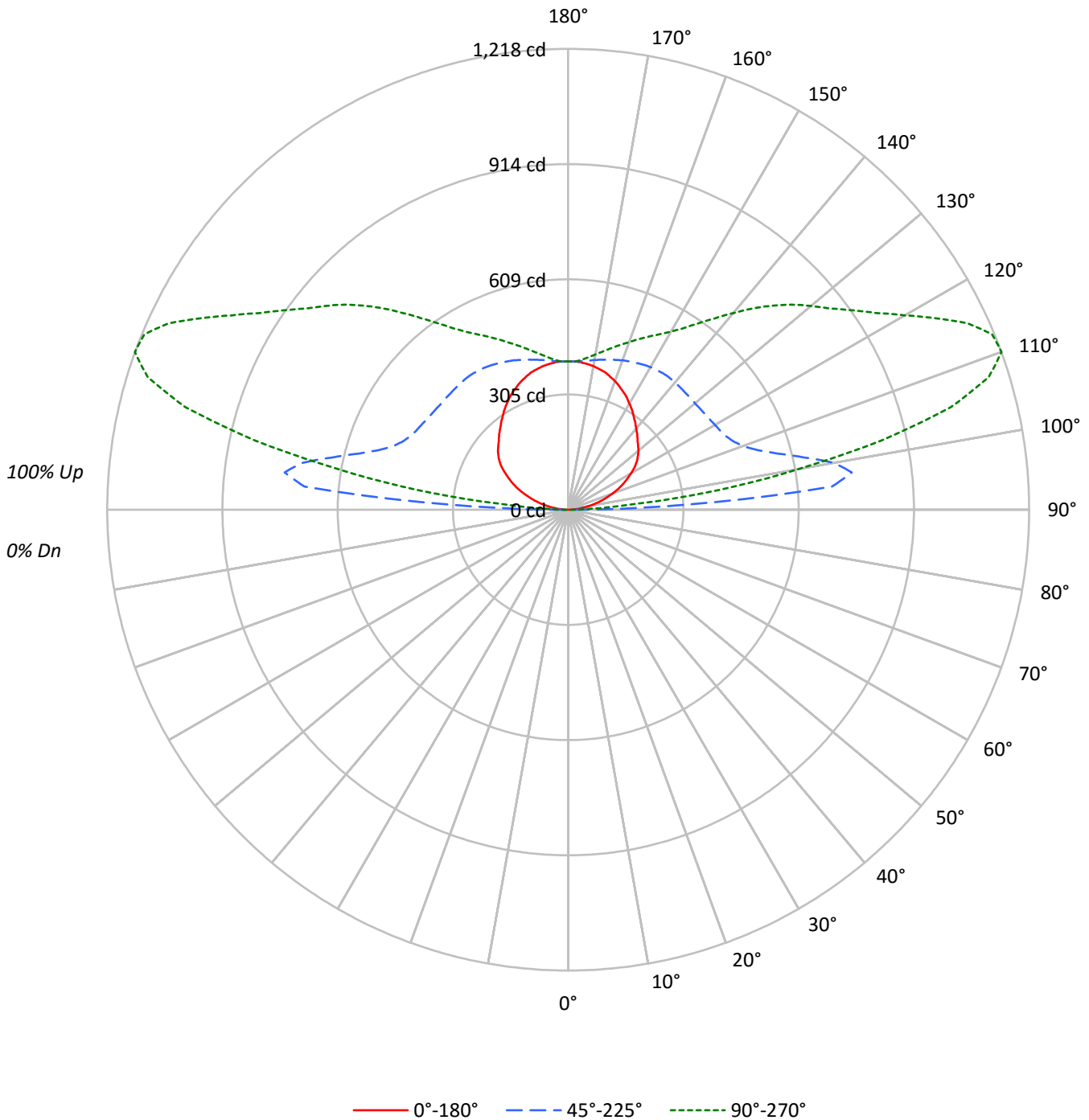
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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



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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°	1.6	0.1
90°-100°	284.9	9.7
100°-110°	614.3	20.9
110°-120°	572.8	19.5
120°-130°	463.9	15.8
130°-140°	372.5	12.7
140°-150°	280.9	9.5
150°-160°	197.8	6.7
160°-170°	116.6	4.0
170°-180°	37.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	1472.0	50.0
90°-150°	2589.3	88.0
90°-180°	2942.0	100.0
0°-180°	2943.2	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	13	17	18	2
95°	26	77	700	317	186	27
105°	89	125	572	1127	1046	94
115°	160	192	460	991	1166	157
125°	221	259	441	788	918	196
135°	259	312	437	660	763	201
145°	302	345	439	547	602	189
155°	344	370	428	484	505	159
165°	376	386	411	435	442	106
175°	391	391	394	399	397	37
180°	392	392	392	392	392	



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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	1.6	3.2	4.7	6.3	7.9	8.7	10.3	11.1	12.6	13.4
92.5°	11.8	14.2	22.1	34.0	50.5	79.0	132.7	222.7	320.6	315.1	254.3
95°	26.1	26.8	33.2	41.8	59.2	94.8	179.2	353.0	570.9	699.6	684.6
97.5°	40.3	41.1	45.8	54.5	70.3	96.3	154.8	288.2	523.5	755.7	855.1
100°	55.3	56.9	60.0	68.7	83.7	107.4	153.2	255.8	454.8	713.0	910.4
102.5°	71.9	72.6	75.0	84.5	97.9	120.8	160.3	242.4	402.7	638.0	877.3
105°	89.2	89.2	93.2	101.1	113.7	135.8	170.6	240.8	372.7	572.5	799.1
107.5°	105.8	107.4	111.3	117.7	131.1	150.8	184.8	246.4	356.9	523.5	724.9
110°	124.0	125.5	128.7	135.8	147.7	168.2	200.6	255.0	350.6	491.1	663.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	142.1	143.7	146.1	153.2	165.0	184.8	215.6	266.1	350.6	472.2	617.5
115°	159.5	161.1	163.4	170.6	182.4	202.1	231.4	277.2	353.0	459.6	586.7
117.5°	175.3	177.7	180.0	187.1	200.6	219.5	247.1	289.8	356.9	452.4	566.1
120°	191.1	193.5	196.6	203.7	217.1	236.9	264.5	302.4	363.2	447.7	549.6
122.5°	207.7	209.2	211.6	218.7	233.7	253.5	281.1	316.6	368.7	443.8	535.4
125°	221.1	222.7	226.6	233.7	248.7	269.3	295.3	329.3	375.1	440.6	522.7
127.5°	232.1	234.5	239.3	247.9	263.7	284.3	309.5	341.1	382.2	439.0	510.9
130°	242.4	244.8	251.1	261.4	277.9	298.5	322.9	353.0	388.5	437.4	499.0
132.5°	250.3	253.5	261.4	273.2	290.6	311.1	335.6	363.2	395.6	437.4	489.6
135°	259.0	262.1	271.6	284.3	300.8	322.2	346.6	372.7	401.9	437.4	482.4
137.5°	270.0	272.4	281.1	293.7	310.3	332.4	354.5	379.8	408.2	438.2	475.3
140°	279.5	281.9	291.4	304.0	319.0	340.3	363.2	386.9	412.2	439.0	470.6
142.5°	290.6	292.2	300.8	313.5	327.7	347.4	368.7	390.9	414.5	439.8	466.7
145°	301.6	303.2	311.1	322.2	336.4	354.5	375.1	394.8	416.1	439.0	462.7
147.5°	313.5	314.3	321.4	331.6	344.3	360.9	379.0	397.2	416.9	437.4	458.8
150°	323.7	325.3	330.8	341.1	352.2	365.6	383.0	399.5	416.9	435.1	454.0
152.5°	334.8	335.6	340.3	349.0	359.3	371.1	386.9	401.1	416.1	431.9	448.5
155°	344.3	344.3	349.0	356.9	364.8	375.9	389.3	401.9	414.5	428.0	442.2
157.5°	353.0	353.0	356.9	364.0	371.1	379.8	391.6	402.7	413.0	424.0	436.7
160°	361.6	360.9	364.0	369.5	375.9	383.0	393.2	402.7	410.6	420.1	429.5
162.5°	368.7	368.0	371.1	375.9	380.6	386.1	394.8	401.9	408.2	415.3	423.2
165°	375.9	374.3	376.6	380.6	383.7	388.5	394.8	401.1	405.9	410.6	416.9
167.5°	380.6	379.8	381.4	383.7	386.1	389.3	394.8	399.5	401.9	405.9	410.6
170°	385.3	384.5	385.3	386.9	388.5	390.9	394.8	398.0	399.5	401.9	405.1
172.5°	388.5	386.9	387.7	389.3	390.1	390.9	394.0	396.4	396.4	397.2	399.5
175°	390.9	389.3	390.1	390.9	390.9	390.9	393.2	394.8	394.0	394.0	394.8
177.5°	392.4	390.9	390.9	391.6	390.9	390.9	392.4	393.2	391.6	391.6	392.4
180°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6



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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°	14.2	15.0	15.8	17.4	17.4	17.4	18.2	18.2
92.5°	171.3	123.2	91.6	76.6	64.0	61.6	60.0	58.4
95°	567.7	447.7	350.6	284.3	228.2	204.5	198.2	185.6
97.5°	814.1	718.5	620.6	525.9	478.5	437.4	416.1	406.6
100°	971.2	932.5	851.2	769.1	714.6	657.7	628.5	615.9
102.5°	1024.1	1063.6	1035.2	986.2	927.0	890.7	858.3	849.6
105°	988.6	1096.8	1131.5	1122.8	1097.6	1071.5	1055.7	1046.2
107.5°	915.9	1058.9	1142.6	1177.3	1184.4	1180.5	1172.6	1164.7
110°	833.8	983.9	1095.2	1162.3	1197.8	1212.8	1218.4	1218.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	769.1	909.6	1022.5	1104.7	1160.7	1189.1	1204.9	1212.0
115°	717.0	839.4	947.5	1033.6	1095.2	1133.1	1155.2	1165.5
117.5°	680.6	788.8	883.6	964.9	1027.3	1066.8	1088.9	1095.2
120°	652.2	747.0	833.8	903.3	961.7	999.6	1021.0	1027.3
122.5°	630.9	717.0	792.0	855.9	906.5	940.4	961.7	967.3
125°	610.4	690.9	759.6	816.5	860.7	893.0	910.4	918.3
127.5°	589.0	665.6	730.4	784.1	824.3	853.6	870.1	873.3
130°	569.3	638.8	700.4	751.7	791.2	817.2	833.0	837.8
132.5°	549.6	613.5	668.0	717.0	756.4	782.5	796.7	802.2
135°	533.0	587.5	638.0	683.0	717.8	743.8	758.0	762.8
137.5°	518.0	563.8	607.2	646.7	678.3	702.8	716.2	721.7
140°	506.1	543.2	579.6	612.7	642.0	662.5	674.3	678.3
142.5°	495.9	525.9	555.9	583.5	607.2	623.8	634.8	638.0
145°	487.2	511.7	536.1	557.5	576.4	589.8	598.5	601.7
147.5°	478.5	499.0	518.8	535.4	551.1	562.2	567.7	569.3
150°	471.4	488.8	503.8	518.0	529.8	539.3	542.5	543.2
152.5°	463.5	478.5	491.9	502.2	511.7	518.8	521.9	522.7
155°	455.6	468.2	479.3	488.0	495.9	501.4	503.8	504.6
157.5°	447.7	458.8	467.4	474.6	480.9	485.6	488.0	488.0
160°	439.8	447.7	455.6	461.1	466.7	470.6	472.2	471.4
162.5°	431.1	438.2	444.5	449.3	453.2	456.4	456.4	456.4
165°	423.2	428.8	433.5	437.4	440.6	442.2	442.2	442.2
167.5°	415.3	419.3	423.2	426.4	428.0	429.5	428.8	428.8
170°	409.0	411.4	413.8	415.3	416.9	417.7	417.7	416.9
172.5°	401.9	404.3	405.9	406.6	406.6	408.2	406.6	405.9
175°	397.2	397.2	398.8	398.8	398.8	399.5	398.0	397.2
177.5°	393.2	394.0	394.0	394.0	393.2	394.0	391.6	391.6
180°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6

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