

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: P334473

Luminaire Tested: **S122IP-S925U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S925U940-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 925 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.7 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

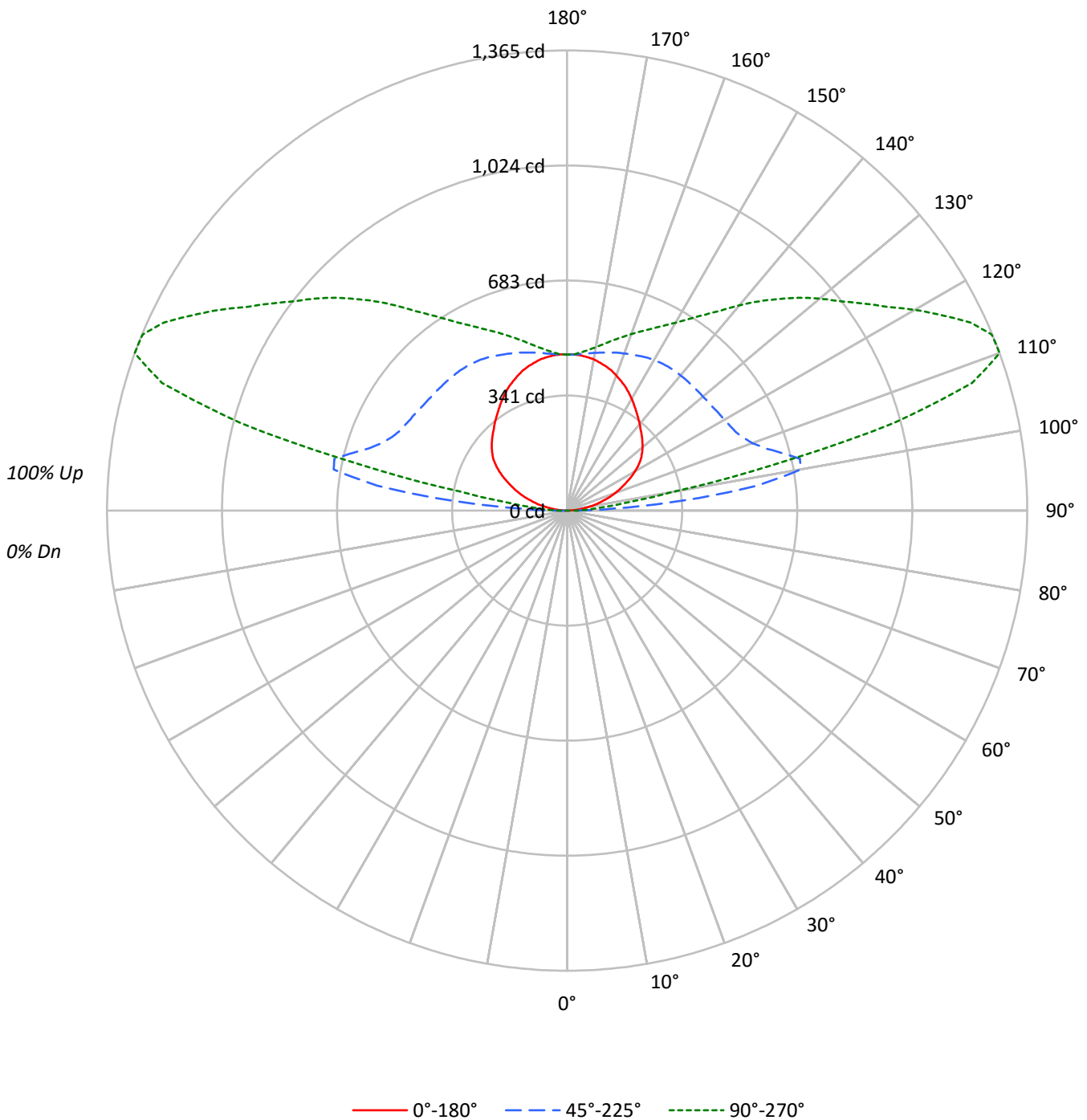
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	180.4	5.6
100°-110°	635.3	19.7
110°-120°	667.2	20.7
120°-130°	548.9	17.0
130°-140°	441.0	13.7
140°-150°	333.1	10.3
150°-160°	234.2	7.3
160°-170°	137.8	4.3
170°-180°	44.8	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	1482.9	46.0
90°-150°	2805.9	87.0
90°-180°	3223.0	99.9
0°-180°	3225.7	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	12	30	29	29	2
95°	31	77	349	132	102	32
105°	109	164	660	1179	1003	115
115°	191	242	552	1139	1320	190
125°	267	316	530	922	1071	237
135°	313	374	524	775	887	242
145°	358	411	522	647	708	224
155°	407	439	506	573	595	187
165°	443	457	485	514	522	125
175°	462	462	466	472	471	44
180°	463	463	463	463	463	



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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°	0.9	3.6	7.1	8.9	10.7	13.3	17.8	24.0	29.4	30.3	29.4
92.5°	13.3	18.7	25.8	30.3	37.4	47.2	71.2	105.0	135.3	137.1	114.8
95°	31.1	34.7	43.6	51.6	65.9	87.2	128.2	205.6	308.8	348.9	305.3
97.5°	46.3	51.6	61.4	73.0	89.0	113.0	165.5	273.2	439.6	568.7	573.1
100°	68.5	71.2	79.2	93.4	111.2	136.2	183.3	291.9	484.1	703.1	831.2
102.5°	89.0	90.8	98.8	113.0	131.7	156.6	199.3	292.8	467.2	707.5	927.3
105°	108.6	112.1	118.4	131.7	151.3	176.2	218.0	297.2	444.1	659.5	896.2
107.5°	129.9	132.6	138.8	151.3	170.9	195.8	236.7	307.0	431.6	615.0	830.3
110°	151.3	154.9	160.2	171.8	190.4	216.3	255.4	319.5	428.1	584.7	768.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	170.9	174.4	180.7	191.3	209.1	235.8	273.2	332.8	429.0	565.1	726.2
115°	191.3	195.8	201.1	211.8	229.6	253.6	291.9	346.2	432.5	551.8	692.4
117.5°	212.7	216.3	221.6	231.4	248.3	273.2	308.8	360.4	437.9	544.7	669.2
120°	232.3	235.8	241.2	249.2	267.0	291.9	326.6	374.7	443.2	538.4	651.4
122.5°	251.0	253.6	259.0	267.9	285.7	311.5	343.5	387.1	449.4	534.9	636.3
125°	267.0	269.7	275.0	285.7	303.5	328.4	360.4	400.5	455.7	530.4	622.1
127.5°	280.3	283.9	291.0	302.6	319.5	345.3	376.4	412.9	461.9	527.7	608.7
130°	291.9	295.5	304.4	316.8	334.6	359.5	390.7	424.5	469.0	526.0	595.4
132.5°	302.6	307.0	316.8	330.2	348.9	373.8	403.1	436.1	476.1	525.1	584.7
135°	313.3	316.8	327.5	340.9	361.3	386.2	414.7	445.9	481.5	524.2	574.9
137.5°	323.1	327.5	338.2	352.4	372.9	396.0	424.5	453.9	486.8	524.2	567.8
140°	334.6	338.2	348.9	363.1	382.7	405.8	432.5	460.1	490.4	523.3	561.6
142.5°	346.2	348.9	358.7	372.9	391.6	412.9	438.7	465.4	493.0	523.3	555.3
145°	357.8	361.3	370.2	383.6	401.4	420.9	445.0	469.9	494.8	521.5	550.0
147.5°	370.2	372.9	381.8	394.2	409.4	427.2	450.3	472.6	495.7	518.8	544.7
150°	382.7	385.3	392.5	404.0	417.4	433.4	453.9	474.3	494.8	516.2	537.5
152.5°	395.1	396.0	403.1	412.9	425.4	439.6	457.4	475.2	493.0	511.7	531.3
155°	406.7	407.6	412.9	422.7	432.5	445.9	461.0	476.1	491.3	506.4	523.3
157.5°	416.5	417.4	421.8	430.7	438.7	450.3	463.7	476.1	487.7	501.0	516.2
160°	426.3	427.2	430.7	437.9	445.0	454.8	465.4	476.1	485.0	495.7	508.2
162.5°	436.1	435.2	438.7	444.1	450.3	457.4	466.3	475.2	482.4	491.3	501.0
165°	443.2	442.3	444.1	449.4	453.9	459.2	467.2	473.5	478.8	485.0	493.0
167.5°	449.4	448.5	450.3	453.9	457.4	461.0	467.2	472.6	475.2	479.7	485.0
170°	455.7	453.9	454.8	457.4	459.2	461.9	466.3	470.8	472.6	475.2	478.8
172.5°	459.2	458.3	457.4	460.1	461.0	462.8	465.4	468.1	469.0	469.9	472.6
175°	461.9	461.0	460.1	461.9	461.9	462.8	464.6	466.3	465.4	466.3	467.2
177.5°	463.7	461.9	461.0	462.8	462.8	462.8	463.7	465.4	463.7	462.8	463.7
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



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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°	28.5	26.7	28.5	29.4	29.4	29.4	29.4	29.4
92.5°	89.9	76.5	66.7	59.6	58.7	55.2	56.1	54.3
95°	233.2	178.9	141.5	121.9	110.4	103.2	100.6	101.5
97.5°	477.0	380.9	291.0	237.6	202.9	185.1	175.3	170.0
100°	812.5	702.2	580.2	472.6	398.7	360.4	334.6	318.6
102.5°	1032.3	1028.8	947.8	832.1	750.2	678.1	644.3	621.2
105°	1081.3	1181.9	1193.4	1164.1	1108.9	1053.7	1015.4	1003.0
107.5°	1028.8	1178.3	1265.5	1301.1	1300.2	1292.2	1280.6	1260.2
110°	956.7	1116.0	1229.9	1302.9	1341.2	1358.1	1366.1	1365.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	890.8	1042.1	1165.8	1252.2	1309.1	1340.3	1357.2	1363.4
115°	839.2	976.3	1092.9	1184.5	1247.7	1288.7	1311.8	1319.8
117.5°	796.5	919.3	1027.9	1115.1	1180.1	1223.7	1247.7	1253.9
120°	766.2	876.6	970.9	1051.9	1114.2	1156.0	1181.9	1190.8
122.5°	742.2	841.0	929.1	1000.3	1054.6	1095.5	1117.8	1124.9
125°	719.1	810.7	889.1	955.8	1007.4	1041.2	1063.5	1070.6
127.5°	695.9	780.5	855.2	917.5	962.9	995.0	1014.5	1019.9
130°	673.7	750.2	820.5	879.3	922.9	953.1	970.9	978.1
132.5°	652.3	721.8	784.9	839.2	881.9	912.2	928.2	934.4
135°	632.8	691.5	750.2	800.1	838.3	867.7	883.7	887.3
137.5°	616.7	667.5	715.5	760.0	796.5	822.3	836.6	841.9
140°	601.6	644.3	685.3	724.4	752.9	776.0	789.4	794.7
142.5°	589.1	623.9	657.7	688.8	715.5	736.0	747.6	747.6
145°	577.6	606.9	634.5	660.3	681.7	696.8	705.7	708.4
147.5°	568.7	592.7	615.0	634.5	653.2	665.7	671.9	673.7
150°	558.9	578.5	597.2	613.2	626.5	637.2	642.5	643.4
152.5°	549.1	566.9	582.0	595.4	605.2	614.1	617.6	617.6
155°	540.2	554.4	567.8	577.6	587.4	593.6	597.2	595.4
157.5°	529.5	542.0	553.6	561.6	568.7	574.0	575.8	575.8
160°	519.7	529.5	539.3	545.5	551.8	556.2	557.1	557.1
162.5°	509.9	518.0	526.0	530.4	536.6	539.3	540.2	539.3
165°	500.2	506.4	512.6	516.2	519.7	523.3	523.3	522.4
167.5°	490.4	495.7	500.2	503.7	505.5	507.3	507.3	506.4
170°	483.2	485.9	489.5	491.3	492.1	494.8	493.9	492.1
172.5°	475.2	477.0	479.7	480.6	481.5	482.4	481.5	480.6
175°	469.9	470.8	471.7	472.6	472.6	473.5	472.6	470.8
177.5°	465.4	465.4	466.3	466.3	466.3	466.3	465.4	463.7
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8

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