

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: P334995

Luminaire Tested: **S125IP-S365U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334995
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-S365U940-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

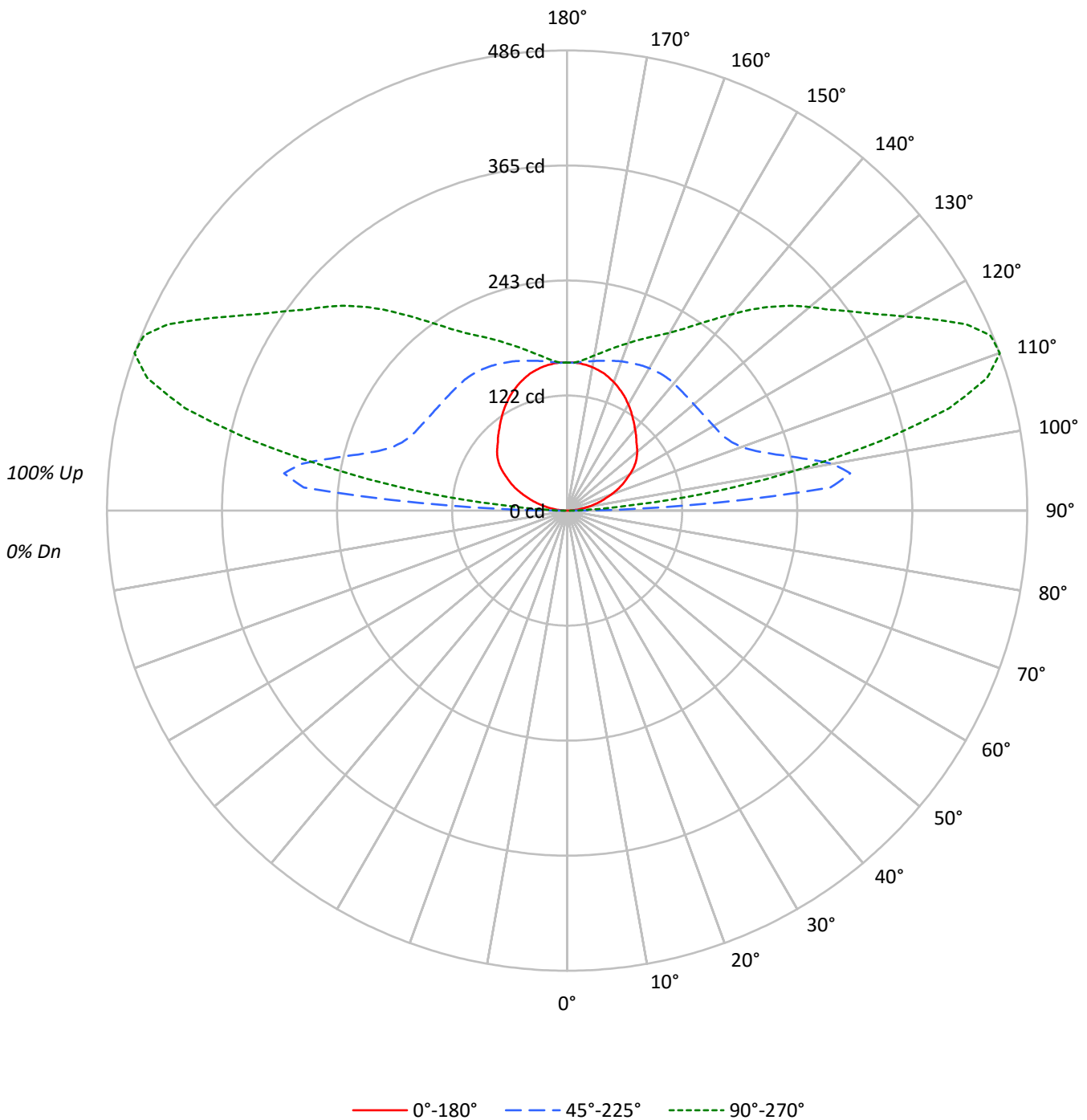
Lumens per Lamp: N/A
Luminaire Lumens: 1174.7 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 11.4
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°	0.6	0.1
90°-100°	113.7	9.7
100°-110°	245.2	20.9
110°-120°	228.6	19.5
120°-130°	185.1	15.8
130°-140°	148.7	12.7
140°-150°	112.1	9.5
150°-160°	79.0	6.7
160°-170°	46.5	4.0
170°-180°	15.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.6	0.1
90°-120°	587.5	50.0
90°-150°	1033.4	88.0
90°-180°	1174.0	99.9
0°-180°	1174.7	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°	0	3	5	7	7	1
95°	10	31	279	127	74	11
105°	36	50	228	450	418	38
115°	64	77	183	395	465	63
125°	88	103	176	315	366	78
135°	103	124	175	264	304	80
145°	120	138	175	218	240	75
155°	137	148	171	193	201	63
165°	150	154	164	174	176	42
175°	156	156	157	159	158	15
180°	156	156	156	156	156	



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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°	0.3	0.6	1.3	1.9	2.5	3.2	3.5	4.1	4.4	5.0	5.4
92.5°	4.7	5.7	8.8	13.6	20.2	31.5	52.9	88.9	127.9	125.7	101.5
95°	10.4	10.7	13.2	16.7	23.6	37.8	71.5	140.9	227.8	279.2	273.2
97.5°	16.1	16.4	18.3	21.7	28.0	38.4	61.8	115.0	208.9	301.6	341.3
100°	22.1	22.7	24.0	27.4	33.4	42.9	61.1	102.1	181.5	284.6	363.4
102.5°	28.7	29.0	29.9	33.7	39.1	48.2	64.0	96.7	160.7	254.6	350.1
105°	35.6	35.6	37.2	40.3	45.4	54.2	68.1	96.1	148.7	228.5	318.9
107.5°	42.2	42.9	44.4	47.0	52.3	60.2	73.7	98.3	142.4	208.9	289.3
110°	49.5	50.1	51.4	54.2	58.9	67.1	80.0	101.8	139.9	196.0	264.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	56.7	57.4	58.3	61.1	65.9	73.7	86.0	106.2	139.9	188.5	246.4
115°	63.7	64.3	65.2	68.1	72.8	80.7	92.3	110.6	140.9	183.4	234.2
117.5°	70.0	70.9	71.9	74.7	80.0	87.6	98.6	115.7	142.4	180.6	226.0
120°	76.3	77.2	78.5	81.3	86.7	94.5	105.6	120.7	145.0	178.7	219.3
122.5°	82.9	83.5	84.5	87.3	93.3	101.2	112.2	126.4	147.2	177.1	213.7
125°	88.2	88.9	90.4	93.3	99.3	107.5	117.9	131.4	149.7	175.8	208.6
127.5°	92.7	93.6	95.5	99.0	105.3	113.5	123.5	136.1	152.5	175.2	203.9
130°	96.7	97.7	100.2	104.3	110.9	119.1	128.9	140.9	155.1	174.6	199.2
132.5°	99.9	101.2	104.3	109.0	116.0	124.2	133.9	145.0	157.9	174.6	195.4
135°	103.4	104.6	108.4	113.5	120.1	128.6	138.3	148.7	160.4	174.6	192.6
137.5°	107.8	108.7	112.2	117.2	123.9	132.7	141.5	151.6	162.9	174.9	189.7
140°	111.6	112.5	116.3	121.3	127.3	135.8	145.0	154.4	164.5	175.2	187.8
142.5°	116.0	116.6	120.1	125.1	130.8	138.7	147.2	156.0	165.5	175.5	186.2
145°	120.4	121.0	124.2	128.6	134.3	141.5	149.7	157.6	166.1	175.2	184.7
147.5°	125.1	125.4	128.3	132.4	137.4	144.0	151.3	158.5	166.4	174.6	183.1
150°	129.2	129.8	132.0	136.1	140.6	145.9	152.8	159.5	166.4	173.6	181.2
152.5°	133.6	133.9	135.8	139.3	143.4	148.1	154.4	160.1	166.1	172.4	179.0
155°	137.4	137.4	139.3	142.4	145.6	150.0	155.4	160.4	165.5	170.8	176.5
157.5°	140.9	140.9	142.4	145.3	148.1	151.6	156.3	160.7	164.8	169.2	174.3
160°	144.3	144.0	145.3	147.5	150.0	152.8	156.9	160.7	163.9	167.7	171.4
162.5°	147.2	146.9	148.1	150.0	151.9	154.1	157.6	160.4	162.9	165.8	168.9
165°	150.0	149.4	150.3	151.9	153.2	155.1	157.6	160.1	162.0	163.9	166.4
167.5°	151.9	151.6	152.2	153.2	154.1	155.4	157.6	159.5	160.4	162.0	163.9
170°	153.8	153.5	153.8	154.4	155.1	156.0	157.6	158.8	159.5	160.4	161.7
172.5°	155.1	154.4	154.7	155.4	155.7	156.0	157.3	158.2	158.2	158.5	159.5
175°	156.0	155.4	155.7	156.0	156.0	156.0	156.9	157.6	157.3	157.3	157.6
177.5°	156.6	156.0	156.0	156.3	156.0	156.0	156.6	156.9	156.3	156.3	156.6
180°	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3



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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°	5.7	6.0	6.3	6.9	6.9	6.9	7.2	7.2
92.5°	68.4	49.2	36.6	30.6	25.5	24.6	24.0	23.3
95°	226.6	178.7	139.9	113.5	91.1	81.6	79.1	74.1
97.5°	324.9	286.8	247.7	209.9	191.0	174.6	166.1	162.3
100°	387.6	372.2	339.7	306.9	285.2	262.5	250.9	245.8
102.5°	408.7	424.5	413.2	393.6	370.0	355.5	342.6	339.1
105°	394.6	437.7	451.6	448.1	438.0	427.6	421.3	417.6
107.5°	365.6	422.6	456.0	469.9	472.7	471.1	468.0	464.8
110°	332.8	392.7	437.1	463.9	478.1	484.1	486.3	486.3



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CATALOG NUMBER: S125IP-S365U940-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	306.9	363.0	408.1	440.9	463.3	474.6	480.9	483.7
115°	286.2	335.0	378.2	412.5	437.1	452.2	461.1	465.2
117.5°	271.7	314.8	352.6	385.1	410.0	425.8	434.6	437.1
120°	260.3	298.1	332.8	360.5	383.8	399.0	407.5	410.0
122.5°	251.8	286.2	316.1	341.6	361.8	375.3	383.8	386.1
125°	243.6	275.8	303.2	325.9	343.5	356.4	363.4	366.5
127.5°	235.1	265.7	291.5	312.9	329.0	340.7	347.3	348.5
130°	227.2	255.0	279.5	300.0	315.8	326.2	332.5	334.4
132.5°	219.3	244.9	266.6	286.2	301.9	312.3	318.0	320.2
135°	212.7	234.5	254.6	272.6	286.5	296.9	302.5	304.4
137.5°	206.7	225.0	242.3	258.1	270.7	280.5	285.8	288.0
140°	202.0	216.8	231.3	244.6	256.2	264.4	269.1	270.7
142.5°	197.9	209.9	221.9	232.9	242.3	249.0	253.4	254.6
145°	194.4	204.2	214.0	222.5	230.1	235.4	238.9	240.1
147.5°	191.0	199.2	207.0	213.7	220.0	224.4	226.6	227.2
150°	188.1	195.1	201.1	206.7	211.5	215.2	216.5	216.8
152.5°	185.0	191.0	196.3	200.4	204.2	207.0	208.3	208.6
155°	181.8	186.9	191.3	194.8	197.9	200.1	201.1	201.4
157.5°	178.7	183.1	186.6	189.4	191.9	193.8	194.8	194.8
160°	175.5	178.7	181.8	184.0	186.2	187.8	188.5	188.1
162.5°	172.1	174.9	177.4	179.3	180.9	182.2	182.2	182.2
165°	168.9	171.1	173.0	174.6	175.8	176.5	176.5	176.5
167.5°	165.8	167.3	168.9	170.2	170.8	171.4	171.1	171.1
170°	163.2	164.2	165.1	165.8	166.4	166.7	166.7	166.4
172.5°	160.4	161.4	162.0	162.3	162.3	162.9	162.3	162.0
175°	158.5	158.5	159.1	159.1	159.1	159.5	158.8	158.5
177.5°	156.9	157.3	157.3	157.3	156.9	157.3	156.3	156.3
180°	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3

(END OF REPORT)