

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: FAIL-SAFE

Report Number: P735575

Luminaire Tested: **4APN6-19-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P709119)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN6-19-B2750-W2D-CP125-3500K
Description: 4FT 1900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

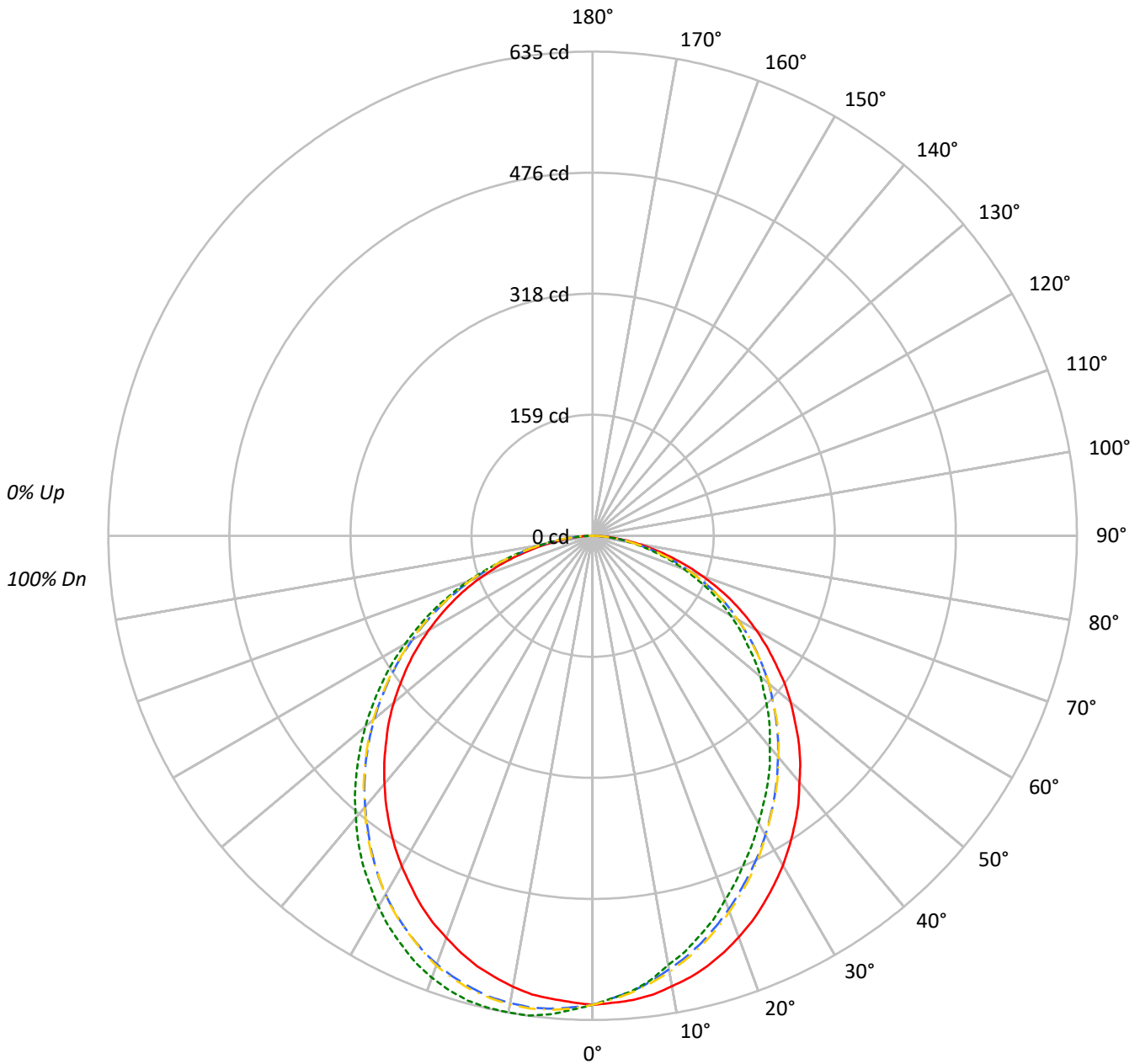
Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
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

TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84																			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38																			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5676	5676	5676	5676
5°	5660	5549	5647	5834
10°	5620	5353	5627	5946
15°	5577	5186	5584	6029
20°	5501	4989	5507	6054
25°	5413	4804	5434	6030
30°	5316	4634	5331	5983
35°	5205	4500	5228	5919
40°	5079	4350	5114	5817
45°	4986	4241	4995	5711
50°	4866	4125	4884	5583
55°	4713	3975	4747	5430
60°	4571	3853	4585	5239
65°	4390	3692	4390	5015
70°	4092	3418	4073	4675
75°	3722	3101	3672	4196
80°	3220	2662	3108	3586
85°	2509	1990	2361	2943



TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.5
10°-20°	165.0	10.0
20°-30°	245.3	14.9
30°-40°	289.1	17.5
40°-50°	294.3	17.8
50°-60°	262.2	15.9
60°-70°	197.6	12.0
70°-80°	109.9	6.7
80°-90°	28.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	468.4	28.4
0°-40°	757.5	45.9
0°-60°	1314.0	79.6
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	615	615	615	615	615	
5°	611	599	610	630	611	58
15°	584	543	585	631	584	165
25°	532	472	534	592	532	245
35°	462	400	464	526	462	289
45°	382	325	383	438	382	294
55°	293	247	295	338	293	262
65°	201	169	201	230	201	198
75°	104	87	103	118	104	111
85°	24	19	22	28	24	29
90°	0	0	0	0	0	



TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	613.1	613.1	613.8	611.1	607.6	606.2	605.5	604.8	606.2	606.8	606.2
5°	611.1	609.7	608.3	604.8	600.6	597.8	596.4	595.7	597.1	599.2	597.1
7.5°	606.8	604.1	601.3	596.4	591.6	587.4	585.3	583.9	585.3	587.4	586.0
10°	599.9	596.4	592.3	586.7	579.7	574.9	572.8	570.7	571.4	571.4	571.4
12.5°	592.9	588.1	583.2	576.3	568.6	563.0	559.5	556.8	558.1	558.9	558.9
15°	583.9	577.7	570.7	563.0	555.4	549.1	544.9	542.1	542.9	542.9	543.5
17.5°	572.8	565.8	558.9	549.8	540.7	533.8	529.0	525.5	526.8	527.5	528.2
20°	560.3	552.6	544.9	535.2	525.5	517.8	512.9	508.7	508.1	508.1	508.7
22.5°	547.0	538.7	529.6	519.2	508.7	500.4	495.5	491.3	490.7	490.7	491.3
25°	531.7	522.7	513.6	503.2	492.0	483.7	477.4	473.3	472.5	471.9	473.3
27.5°	515.7	506.7	497.6	487.2	475.3	467.0	460.7	456.5	455.1	454.5	455.9
30°	499.0	488.5	478.8	467.6	457.2	448.9	442.6	437.7	436.4	435.0	436.4
32.5°	480.9	470.5	460.0	448.9	438.5	430.1	423.8	419.0	417.6	416.9	418.3
35°	462.1	451.7	442.0	430.8	420.3	412.0	405.7	401.6	400.2	399.5	400.2
37.5°	443.3	432.9	423.1	412.0	401.6	393.2	386.9	382.8	382.1	381.4	382.1
40°	421.7	412.7	402.9	392.5	382.1	373.8	368.9	364.0	362.6	361.2	363.3
42.5°	402.9	393.9	384.2	374.4	364.0	355.6	350.1	345.9	344.5	343.8	344.5
45°	382.1	372.4	362.6	353.5	343.8	336.1	330.6	326.4	325.7	325.0	325.7
47.5°	359.8	351.5	343.1	334.1	324.3	316.7	311.8	307.6	306.2	304.8	306.2
50°	339.0	330.6	322.2	313.9	304.8	297.9	293.0	288.8	288.1	287.4	288.1
52.5°	316.7	308.3	300.7	292.3	284.6	277.7	272.8	269.4	268.6	268.0	268.6
55°	293.0	286.0	279.1	272.1	264.5	258.2	254.0	249.8	248.5	247.1	248.5
57.5°	270.7	264.5	257.5	250.6	243.6	238.0	233.8	230.3	229.7	228.9	229.7
60°	247.7	242.2	235.9	229.7	222.7	217.2	213.7	210.9	209.5	208.8	209.5
62.5°	224.8	219.2	214.4	208.1	201.8	197.6	194.1	191.4	190.0	189.3	190.0
65°	201.1	196.3	191.4	185.8	181.0	176.7	173.3	170.5	169.8	169.1	169.1
67.5°	176.7	172.6	168.4	163.6	158.0	153.8	150.3	148.2	147.6	146.8	147.6
70°	151.7	148.2	144.1	139.9	135.7	132.2	130.2	128.1	127.4	126.7	126.7
72.5°	128.1	125.3	121.8	118.3	114.8	111.4	109.3	107.9	107.2	106.5	106.5
75°	104.4	101.6	99.5	96.8	93.3	91.1	89.1	87.7	87.0	87.0	87.0
77.5°	82.1	80.0	78.0	75.2	73.1	71.0	69.6	68.9	68.2	68.2	68.2
80°	60.6	59.2	57.8	56.3	54.3	52.2	51.5	50.8	50.1	50.1	50.1
82.5°	41.1	40.4	38.9	37.6	36.2	35.5	34.8	34.1	34.1	34.1	34.1
85°	23.7	23.0	22.3	21.5	20.9	20.9	20.2	19.5	18.8	18.8	18.8
87.5°	9.8	9.8	9.8	9.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	604.8	606.2	607.6	609.7	611.7	613.8	613.1	612.5	615.2	618.7	619.4
5°	595.7	597.1	599.2	602.7	606.2	609.0	609.7	609.7	615.2	620.1	621.5
7.5°	584.6	586.7	589.4	592.9	597.8	602.0	604.1	606.8	612.5	618.7	621.5
10°	570.7	574.2	578.3	583.2	588.1	592.9	597.1	600.6	607.6	614.5	618.7
12.5°	558.1	561.6	565.8	571.4	577.7	583.9	588.1	592.9	601.3	609.7	614.5
15°	544.2	547.7	552.6	558.1	565.1	572.0	578.3	584.6	592.9	602.0	607.6
17.5°	529.0	532.4	537.2	544.2	551.9	559.5	566.5	573.5	583.2	592.9	599.2
20°	510.1	515.0	521.3	528.2	537.2	546.4	553.3	560.9	571.4	581.8	588.8
22.5°	492.0	496.9	503.9	512.2	522.0	531.7	540.1	548.4	559.5	570.0	577.7
25°	474.6	480.2	487.2	495.5	504.6	514.3	524.1	533.8	544.9	556.1	563.8
27.5°	457.2	462.1	469.1	477.4	487.9	497.6	507.3	517.1	529.0	540.7	549.1
30°	437.7	443.3	449.6	457.9	469.1	480.2	489.9	500.4	512.2	524.1	532.4
32.5°	419.7	424.6	430.8	439.1	450.2	461.4	471.9	483.0	494.2	505.9	514.3
35°	401.6	406.4	412.7	421.1	432.2	443.3	453.7	464.2	475.3	486.5	494.8
37.5°	383.5	388.3	394.6	402.9	413.4	424.6	434.3	444.7	455.9	467.0	474.6
40°	364.7	369.5	374.4	382.8	393.2	404.3	414.1	424.6	435.7	446.8	454.5
42.5°	345.9	350.7	357.0	365.4	375.1	384.9	394.6	404.3	414.8	425.2	432.9
45°	327.1	331.3	337.6	345.2	355.0	364.0	373.8	382.8	393.2	402.9	410.6
47.5°	307.6	311.8	316.7	324.3	334.1	343.8	353.5	362.6	371.6	381.4	388.3
50°	288.8	293.0	298.5	305.5	314.6	323.6	332.0	340.3	349.4	358.4	364.7
52.5°	269.4	273.5	278.4	285.4	293.0	301.3	309.0	317.3	325.7	334.1	340.3
55°	249.8	252.6	256.8	263.1	271.4	279.8	287.4	295.1	302.8	309.7	315.9
57.5°	230.3	233.8	238.7	244.3	251.2	258.2	265.1	272.1	279.1	286.0	291.6
60°	210.9	213.7	217.2	222.0	228.9	235.2	242.2	248.5	254.7	261.0	265.9
62.5°	190.7	193.5	197.0	201.8	207.4	212.9	219.2	224.8	230.3	235.9	240.8
65°	169.8	172.6	176.1	180.2	185.1	190.0	195.5	201.1	205.3	209.5	214.4
67.5°	148.2	151.0	154.5	158.0	162.2	167.0	171.9	176.7	181.0	185.1	188.6
70°	127.4	129.4	132.9	135.7	139.2	142.7	146.8	151.0	153.8	157.3	161.5
72.5°	107.2	109.3	112.0	114.8	116.9	119.7	123.9	127.4	130.8	135.1	137.1
75°	87.7	89.1	91.1	93.3	95.4	97.4	100.3	103.0	105.8	107.9	110.7
77.5°	68.2	69.6	71.7	73.1	74.5	75.9	78.0	80.0	82.1	83.5	86.3
80°	50.1	51.5	52.9	54.3	55.7	57.1	57.8	58.5	61.2	63.3	64.7
82.5°	34.1	34.8	35.5	36.9	37.6	38.3	38.9	38.9	40.4	41.8	43.8
85°	19.5	20.2	20.9	20.9	20.9	20.9	21.5	22.3	23.0	24.4	25.8
87.5°	7.6	7.6	8.4	8.4	8.4	8.4	8.4	8.4	9.0	10.4	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	618.7	619.4	620.8	621.5	622.2	622.2	622.9	623.6	622.2	620.8	620.1
5°	622.2	622.9	625.0	627.1	628.5	629.9	629.1	628.5	627.1	625.0	623.6
7.5°	622.9	625.0	627.1	629.9	631.9	634.7	633.4	631.9	629.1	626.4	624.2
10°	620.8	623.6	627.1	630.5	632.6	634.7	633.4	631.9	629.1	625.7	622.9
12.5°	618.0	621.5	625.7	629.1	631.2	634.0	631.9	629.9	626.4	622.9	619.4
15°	611.7	616.0	620.8	625.0	628.5	631.2	629.1	627.7	623.6	618.7	613.8
17.5°	604.1	609.7	614.5	619.4	622.2	625.0	623.6	622.2	617.3	611.7	606.2
20°	595.1	600.6	605.5	610.3	613.8	616.6	614.5	612.5	607.6	602.7	597.1
22.5°	583.9	589.4	595.1	599.9	603.4	606.2	603.4	599.9	595.1	590.2	584.6
25°	570.0	576.3	582.5	587.4	589.4	592.3	589.4	586.7	581.8	576.9	570.7
27.5°	556.1	562.3	568.6	573.5	575.5	578.3	575.5	572.8	567.9	563.0	556.8
30°	540.1	546.4	552.6	557.5	559.5	561.6	558.9	556.1	551.9	547.0	540.7
32.5°	522.0	528.2	533.1	538.0	540.7	543.5	540.7	538.7	533.8	527.5	521.3
35°	502.4	508.7	515.0	519.8	522.7	525.5	522.0	518.5	514.3	509.4	503.9
37.5°	480.9	487.9	494.8	500.4	502.4	505.3	502.4	499.0	494.8	489.9	483.7
40°	460.7	467.0	473.3	478.8	480.9	483.0	480.2	477.4	472.5	467.6	461.4
42.5°	439.9	446.1	451.7	456.5	458.6	461.4	458.6	455.1	451.7	447.5	442.0
45°	417.6	423.8	428.7	433.6	435.7	437.7	435.0	431.5	428.0	424.6	419.0
47.5°	394.6	400.2	405.1	409.9	411.3	413.4	410.6	408.6	405.1	401.6	396.7
50°	370.9	376.5	381.4	385.5	386.9	389.0	386.3	383.5	380.7	377.9	373.8
52.5°	346.6	351.5	356.4	360.5	361.9	363.3	360.5	357.7	355.0	352.1	348.0
55°	321.6	326.4	331.3	334.7	336.1	337.6	334.7	332.7	329.9	327.8	323.6
57.5°	296.5	301.3	305.5	309.0	310.4	311.8	309.0	306.2	304.2	302.0	298.5
60°	270.7	275.6	279.1	281.9	283.3	283.9	281.1	279.1	277.7	276.3	272.8
62.5°	245.7	249.2	252.6	254.7	256.1	256.8	254.7	253.3	252.0	250.6	247.7
65°	219.2	223.4	226.2	228.3	228.9	229.7	227.6	226.2	224.8	223.4	221.3
67.5°	192.8	196.3	198.4	200.4	201.1	201.1	201.1	200.4	199.0	197.0	194.9
70°	166.3	169.1	171.2	172.6	173.3	173.3	171.9	170.5	170.5	169.8	168.4
72.5°	139.2	141.3	142.7	144.1	144.1	144.1	144.1	144.8	144.1	142.7	140.6
75°	113.4	115.5	116.9	117.7	117.7	117.7	117.7	118.3	117.7	116.9	115.5
77.5°	89.1	90.5	91.1	91.9	91.9	91.9	92.6	93.3	92.6	91.9	91.1
80°	66.1	66.8	67.5	68.2	67.5	67.5	68.2	69.6	68.9	68.2	67.5
82.5°	45.2	45.9	46.6	46.6	47.3	48.1	48.1	48.1	48.1	47.3	46.6
85°	27.2	27.8	27.8	27.8	27.8	27.8	28.5	29.2	29.2	28.5	28.5
87.5°	12.5	13.3	12.5	11.8	11.1	11.1	12.5	13.9	13.9	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P735575

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	615.2	615.2	615.2	615.2
2.5°	620.8	620.1	616.6	613.1
5°	622.9	620.8	616.0	611.1
7.5°	622.9	620.1	613.1	606.8
10°	619.4	615.2	607.6	599.9
12.5°	615.2	610.3	601.3	592.9
15°	609.0	603.4	593.7	583.9
17.5°	599.9	592.9	583.2	572.8
20°	590.9	583.2	571.4	560.3
22.5°	578.3	571.4	558.9	547.0
25°	564.4	556.8	544.2	531.7
27.5°	549.8	540.7	528.2	515.7
30°	533.1	524.1	511.6	499.0
32.5°	515.0	506.7	494.2	480.9
35°	496.9	487.9	475.3	462.1
37.5°	476.8	468.4	455.9	443.3
40°	455.1	446.8	434.3	421.7
42.5°	435.0	427.3	414.8	402.9
45°	412.7	405.1	393.2	382.1
47.5°	389.8	382.1	370.9	359.8
50°	367.5	359.8	349.4	339.0
52.5°	342.4	336.1	326.4	316.7
55°	318.1	311.8	302.0	293.0
57.5°	293.7	288.1	279.1	270.7
60°	268.0	262.4	255.4	247.7
62.5°	243.6	238.7	231.8	224.8
65°	217.8	213.7	207.4	201.1
67.5°	191.4	187.9	182.4	176.7
70°	165.0	160.7	156.6	151.7
72.5°	138.5	136.4	132.2	128.1
75°	113.4	111.4	107.9	104.4
77.5°	89.8	87.7	84.9	82.1
80°	66.1	64.7	62.6	60.6
82.5°	45.9	44.6	43.2	41.1
85°	27.8	26.4	25.0	23.7
87.5°	12.5	11.8	10.4	9.8
90°	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°













(END OF REPORT)