

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: P735574

Luminaire Tested: **4APN6-19-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735574
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-CP125-3000K
Description: 4FT 1900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

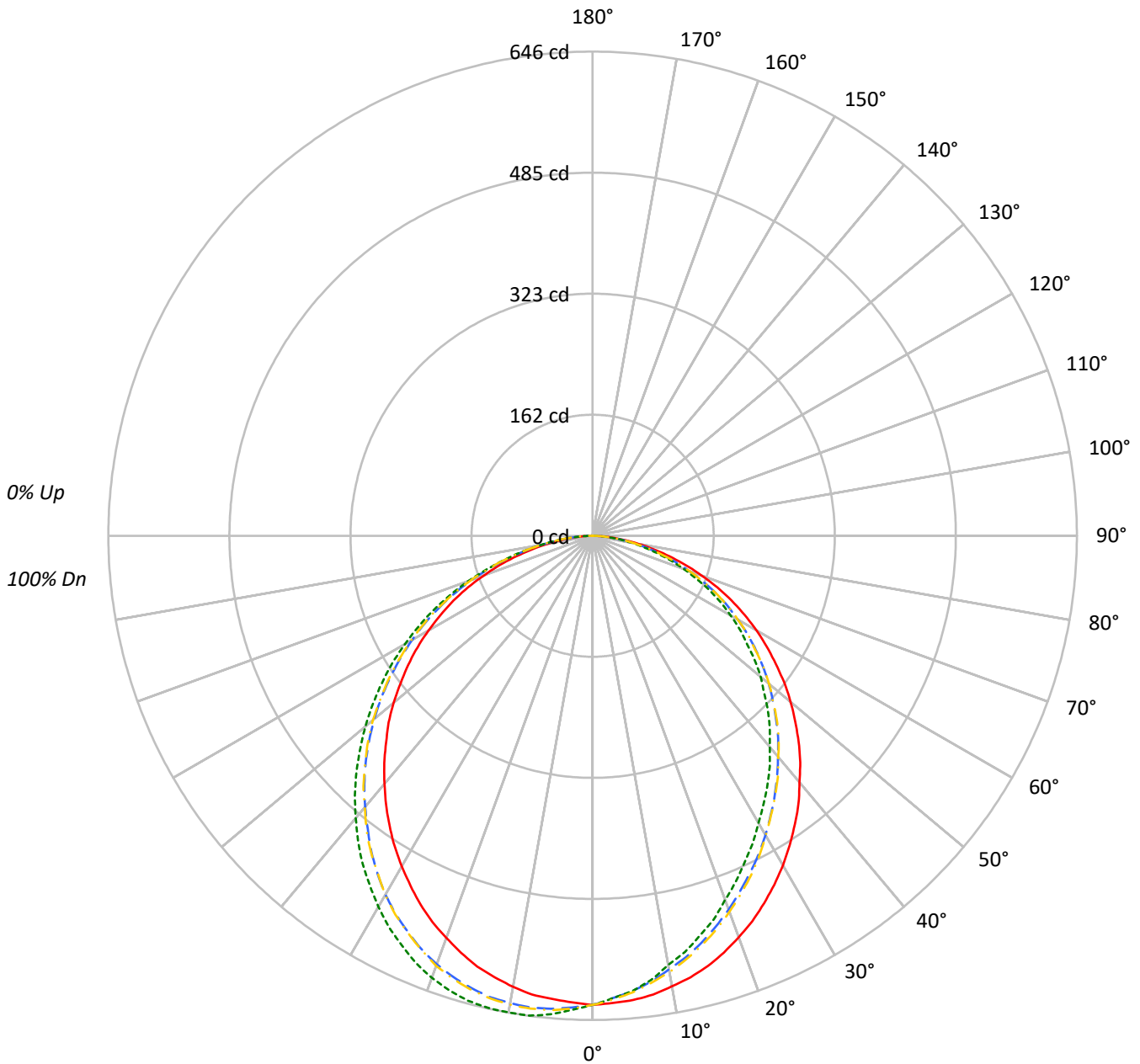
Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

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	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°	5776	5776	5776	5776
5°	5759	5648	5746	5936
10°	5719	5447	5726	6050
15°	5676	5276	5682	6135
20°	5597	5076	5604	6161
25°	5507	4888	5529	6135
30°	5409	4715	5425	6088
35°	5296	4578	5320	6022
40°	5169	4426	5203	5920
45°	5073	4316	5082	5811
50°	4950	4198	4971	5681
55°	4795	4044	4829	5525
60°	4652	3921	4667	5331
65°	4467	3757	4467	5102
70°	4165	3477	4146	4756
75°	3786	3155	3736	4267
80°	3273	2710	3161	3650
85°	2551	2022	2403	2996



TEST NUMBER: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.5
10°-20°	167.9	10.0
20°-30°	249.6	14.9
30°-40°	294.2	17.5
40°-50°	299.5	17.8
50°-60°	266.8	15.9
60°-70°	201.0	12.0
70°-80°	111.8	6.7
80°-90°	29.0	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°	476.6	28.4
0°-40°	770.8	45.9
0°-60°	1337.1	79.6
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	626	626	626	626	626	
5°	622	610	620	641	622	59
15°	594	552	595	642	594	167
25°	541	480	543	603	541	249
35°	470	406	472	535	470	294
45°	389	331	390	445	389	300
55°	298	251	300	344	298	267
65°	205	172	205	234	205	202
75°	106	88	105	120	106	113
85°	24	19	23	28	24	29
90°	0	0	0	0	0	



TEST NUMBER: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	623.9	623.9	624.6	621.8	618.3	616.8	616.2	615.4	616.8	617.5	616.8
5°	621.8	620.4	618.9	615.4	611.2	608.3	606.9	606.2	607.6	609.8	607.6
7.5°	617.5	614.7	611.9	606.9	602.0	597.7	595.6	594.2	595.6	597.7	596.3
10°	610.4	606.9	602.7	597.0	589.9	585.0	582.9	580.7	581.4	581.4	581.4
12.5°	603.3	598.5	593.5	586.4	578.6	572.9	569.4	566.6	567.9	568.7	568.7
15°	594.2	587.8	580.7	572.9	565.1	558.7	554.5	551.7	552.4	552.4	553.1
17.5°	582.9	575.8	568.7	559.5	550.2	543.1	538.3	534.7	536.1	536.8	537.5
20°	570.1	562.3	554.5	544.6	534.7	526.9	521.9	517.7	517.0	517.0	517.7
22.5°	556.6	548.1	538.9	528.3	517.7	509.2	504.2	500.0	499.3	499.3	500.0
25°	541.0	531.8	522.7	512.0	500.7	492.2	485.8	481.6	480.8	480.2	481.6
27.5°	524.8	515.6	506.4	495.8	483.7	475.2	468.8	464.6	463.1	462.5	463.9
30°	507.7	497.1	487.2	475.9	465.2	456.8	450.4	445.4	444.1	442.6	444.1
32.5°	489.4	478.7	468.1	456.8	446.2	437.7	431.3	426.4	424.9	424.2	425.6
35°	470.2	459.6	449.7	438.3	427.7	419.3	412.9	408.7	407.2	406.5	407.2
37.5°	451.1	440.5	430.6	419.3	408.7	400.1	393.7	389.5	388.8	388.1	388.8
40°	429.2	420.0	410.0	399.4	388.8	380.3	375.4	370.4	369.0	367.5	369.7
42.5°	410.0	400.8	391.0	381.0	370.4	361.9	356.2	352.0	350.6	349.8	350.6
45°	388.8	378.9	369.0	359.8	349.8	342.1	336.4	332.1	331.4	330.8	331.4
47.5°	366.2	357.7	349.1	339.9	330.0	322.2	317.3	313.1	311.6	310.2	311.6
50°	344.9	336.4	327.9	319.4	310.2	303.1	298.1	293.9	293.2	292.5	293.2
52.5°	322.2	313.7	306.0	297.5	289.6	282.5	277.6	274.1	273.3	272.7	273.3
55°	298.1	291.0	284.0	276.9	269.1	262.7	258.5	254.2	252.9	251.4	252.9
57.5°	275.5	269.1	262.0	255.0	247.9	242.2	237.9	234.4	233.7	233.0	233.7
60°	252.1	246.4	240.0	233.7	226.6	221.0	217.4	214.6	213.1	212.5	213.1
62.5°	228.7	223.1	218.1	211.7	205.4	201.1	197.5	194.8	193.3	192.7	193.3
65°	204.6	199.7	194.8	189.1	184.1	179.8	176.3	173.5	172.8	172.1	172.1
67.5°	179.8	175.6	171.4	166.4	160.8	156.5	152.9	150.8	150.2	149.4	150.2
70°	154.4	150.8	146.6	142.3	138.1	134.6	132.5	130.3	129.6	128.9	128.9
72.5°	130.3	127.5	123.9	120.4	116.9	113.3	111.2	109.8	109.1	108.3	108.3
75°	106.2	103.4	101.3	98.5	94.9	92.7	90.6	89.2	88.5	88.5	88.5
77.5°	83.6	81.4	79.3	76.5	74.4	72.3	70.8	70.1	69.4	69.4	69.4
80°	61.6	60.2	58.8	57.3	55.2	53.1	52.4	51.7	51.0	51.0	51.0
82.5°	41.8	41.1	39.6	38.3	36.8	36.1	35.4	34.7	34.7	34.7	34.7
85°	24.1	23.4	22.7	21.9	21.2	21.2	20.6	19.8	19.1	19.1	19.1
87.5°	9.9	9.9	9.9	9.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	615.4	616.8	618.3	620.4	622.5	624.6	623.9	623.2	626.0	629.6	630.3
5°	606.2	607.6	609.8	613.3	616.8	619.7	620.4	620.4	626.0	631.0	632.4
7.5°	594.9	597.0	599.8	603.3	608.3	612.6	614.7	617.5	623.2	629.6	632.4
10°	580.7	584.3	588.5	593.5	598.5	603.3	607.6	611.2	618.3	625.3	629.6
12.5°	567.9	571.5	575.8	581.4	587.8	594.2	598.5	603.3	611.9	620.4	625.3
15°	553.8	557.3	562.3	567.9	575.0	582.1	588.5	594.9	603.3	612.6	618.3
17.5°	538.3	541.8	546.7	553.8	561.6	569.4	576.4	583.5	593.5	603.3	609.8
20°	519.1	524.1	530.4	537.5	546.7	556.0	563.0	570.8	581.4	592.0	599.1
22.5°	500.7	505.6	512.7	521.2	531.2	541.0	549.6	558.1	569.4	580.0	587.8
25°	482.9	488.7	495.8	504.2	513.5	523.3	533.3	543.1	554.5	565.8	573.7
27.5°	465.2	470.2	477.3	485.8	496.4	506.4	516.2	526.2	538.3	550.2	558.7
30°	445.4	451.1	457.5	466.0	477.3	488.7	498.5	509.2	521.2	533.3	541.8
32.5°	427.0	432.0	438.3	446.9	458.2	469.5	480.2	491.5	502.8	514.8	523.3
35°	408.7	413.6	420.0	428.5	439.8	451.1	461.7	472.3	483.7	495.0	503.5
37.5°	390.2	395.2	401.6	410.0	420.6	432.0	441.9	452.5	463.9	475.2	482.9
40°	371.1	376.0	381.0	389.5	400.1	411.4	421.4	432.0	443.3	454.6	462.5
42.5°	352.0	356.9	363.3	371.8	381.7	391.6	401.6	411.4	422.1	432.7	440.5
45°	332.9	337.1	343.5	351.2	361.2	370.4	380.3	389.5	400.1	410.0	417.9
47.5°	313.1	317.3	322.2	330.0	339.9	349.8	359.8	369.0	378.1	388.1	395.2
50°	293.9	298.1	303.8	310.9	320.1	329.3	337.8	346.3	355.5	364.7	371.1
52.5°	274.1	278.3	283.3	290.4	298.1	306.6	314.4	322.9	331.4	339.9	346.3
55°	254.2	257.1	261.3	267.7	276.2	284.7	292.5	300.2	308.1	315.2	321.5
57.5°	234.4	237.9	242.9	248.6	255.6	262.7	269.8	276.9	284.0	291.0	296.7
60°	214.6	217.4	221.0	225.9	233.0	239.4	246.4	252.9	259.2	265.6	270.6
62.5°	194.0	196.9	200.4	205.4	211.0	216.7	223.1	228.7	234.4	240.0	245.0
65°	172.8	175.6	179.2	183.4	188.4	193.3	199.0	204.6	208.9	213.1	218.1
67.5°	150.8	153.7	157.2	160.8	165.0	170.0	174.9	179.8	184.1	188.4	191.9
70°	129.6	131.7	135.2	138.1	141.6	145.2	149.4	153.7	156.5	160.0	164.3
72.5°	109.1	111.2	114.0	116.9	119.0	121.8	126.0	129.6	133.1	137.4	139.5
75°	89.2	90.6	92.7	94.9	97.0	99.2	102.0	104.8	107.7	109.8	112.6
77.5°	69.4	70.8	72.9	74.4	75.8	77.2	79.3	81.4	83.6	85.0	87.9
80°	51.0	52.4	53.8	55.2	56.7	58.1	58.8	59.5	62.3	64.4	65.8
82.5°	34.7	35.4	36.1	37.5	38.3	39.0	39.6	39.6	41.1	42.5	44.6
85°	19.8	20.6	21.2	21.2	21.2	21.2	21.9	22.7	23.4	24.8	26.2
87.5°	7.8	7.8	8.5	8.5	8.5	8.5	8.5	8.5	9.2	10.6	11.3
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: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	629.6	630.3	631.7	632.4	633.1	633.1	633.9	634.5	633.1	631.7	631.0
5°	633.1	633.9	636.0	638.1	639.5	640.9	640.2	639.5	638.1	636.0	634.5
7.5°	633.9	636.0	638.1	640.9	643.1	645.8	644.5	643.1	640.2	637.4	635.2
10°	631.7	634.5	638.1	641.6	643.7	645.8	644.5	643.1	640.2	636.6	633.9
12.5°	628.9	632.4	636.6	640.2	642.3	645.2	643.1	640.9	637.4	633.9	630.3
15°	622.5	626.8	631.7	636.0	639.5	642.3	640.2	638.8	634.5	629.6	624.6
17.5°	614.7	620.4	625.3	630.3	633.1	636.0	634.5	633.1	628.1	622.5	616.8
20°	605.5	611.2	616.2	621.0	624.6	627.5	625.3	623.2	618.3	613.3	607.6
22.5°	594.2	599.8	605.5	610.4	614.0	616.8	614.0	610.4	605.5	600.6	594.9
25°	580.0	586.4	592.7	597.7	599.8	602.7	599.8	597.0	592.0	587.1	580.7
27.5°	565.8	572.2	578.6	583.5	585.6	588.5	585.6	582.9	577.9	572.9	566.6
30°	549.6	556.0	562.3	567.3	569.4	571.5	568.7	565.8	561.6	556.6	550.2
32.5°	531.2	537.5	542.5	547.4	550.2	553.1	550.2	548.1	543.1	536.8	530.4
35°	511.3	517.7	524.1	529.0	531.8	534.7	531.2	527.6	523.3	518.4	512.7
37.5°	489.4	496.4	503.5	509.2	511.3	514.1	511.3	507.7	503.5	498.5	492.2
40°	468.8	475.2	481.6	487.2	489.4	491.5	488.7	485.8	480.8	475.9	469.5
42.5°	447.6	453.9	459.6	464.6	466.7	469.5	466.7	463.1	459.6	455.4	449.7
45°	424.9	431.3	436.2	441.2	443.3	445.4	442.6	439.1	435.6	432.0	426.4
47.5°	401.6	407.2	412.2	417.1	418.5	420.6	417.9	415.7	412.2	408.7	403.7
50°	377.5	383.1	388.1	392.3	393.7	395.8	393.1	390.2	387.4	384.6	380.3
52.5°	352.7	357.7	362.6	366.8	368.3	369.7	366.8	364.0	361.2	358.3	354.1
55°	327.2	332.1	337.1	340.6	342.1	343.5	340.6	338.5	335.6	333.5	329.3
57.5°	301.7	306.6	310.9	314.4	315.8	317.3	314.4	311.6	309.5	307.3	303.8
60°	275.5	280.4	284.0	286.8	288.3	288.9	286.1	284.0	282.5	281.2	277.6
62.5°	250.0	253.5	257.1	259.2	260.6	261.3	259.2	257.7	256.4	255.0	252.1
65°	223.1	227.3	230.2	232.3	233.0	233.7	231.6	230.2	228.7	227.3	225.2
67.5°	196.2	199.7	201.8	204.0	204.6	204.6	204.6	204.0	202.5	200.4	198.3
70°	169.2	172.1	174.2	175.6	176.3	176.3	174.9	173.5	173.5	172.8	171.4
72.5°	141.6	143.8	145.2	146.6	146.6	146.6	146.6	147.3	146.6	145.2	143.1
75°	115.4	117.5	119.0	119.7	119.7	119.7	119.7	120.4	119.7	119.0	117.5
77.5°	90.6	92.1	92.7	93.5	93.5	93.5	94.2	94.9	94.2	93.5	92.7
80°	67.3	68.0	68.7	69.4	68.7	68.7	69.4	70.8	70.1	69.4	68.7
82.5°	46.0	46.7	47.5	47.5	48.1	48.9	48.9	48.9	48.9	48.1	47.5
85°	27.7	28.3	28.3	28.3	28.3	28.3	29.0	29.8	29.8	29.0	29.0
87.5°	12.7	13.5	12.7	12.1	11.3	11.3	12.7	14.2	14.2	13.5	13.5
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: P735574

CATALOG NUMBER: 4APN6-19-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	626.0	626.0	626.0	626.0
2.5°	631.7	631.0	627.5	623.9
5°	633.9	631.7	626.8	621.8
7.5°	633.9	631.0	623.9	617.5
10°	630.3	626.0	618.3	610.4
12.5°	626.0	621.0	611.9	603.3
15°	619.7	614.0	604.1	594.2
17.5°	610.4	603.3	593.5	582.9
20°	601.2	593.5	581.4	570.1
22.5°	588.5	581.4	568.7	556.6
25°	574.3	566.6	553.8	541.0
27.5°	559.5	550.2	537.5	524.8
30°	542.5	533.3	520.5	507.7
32.5°	524.1	515.6	502.8	489.4
35°	505.6	496.4	483.7	470.2
37.5°	485.1	476.6	463.9	451.1
40°	463.1	454.6	441.9	429.2
42.5°	442.6	434.8	422.1	410.0
45°	420.0	412.2	400.1	388.8
47.5°	396.6	388.8	377.5	366.2
50°	373.9	366.2	355.5	344.9
52.5°	348.5	342.1	332.1	322.2
55°	323.7	317.3	307.3	298.1
57.5°	298.9	293.2	284.0	275.5
60°	272.7	267.0	259.9	252.1
62.5°	247.9	242.9	235.8	228.7
65°	221.7	217.4	211.0	204.6
67.5°	194.8	191.2	185.6	179.8
70°	167.9	163.6	159.4	154.4
72.5°	141.0	138.8	134.6	130.3
75°	115.4	113.3	109.8	106.2
77.5°	91.4	89.2	86.4	83.6
80°	67.3	65.8	63.7	61.6
82.5°	46.7	45.4	43.9	41.8
85°	28.3	26.9	25.5	24.1
87.5°	12.7	12.1	10.6	9.9
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)