

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: P735577

Luminaire Tested: **4APN6-19-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735577
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-CP125-5000K
Description: 4FT 1900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

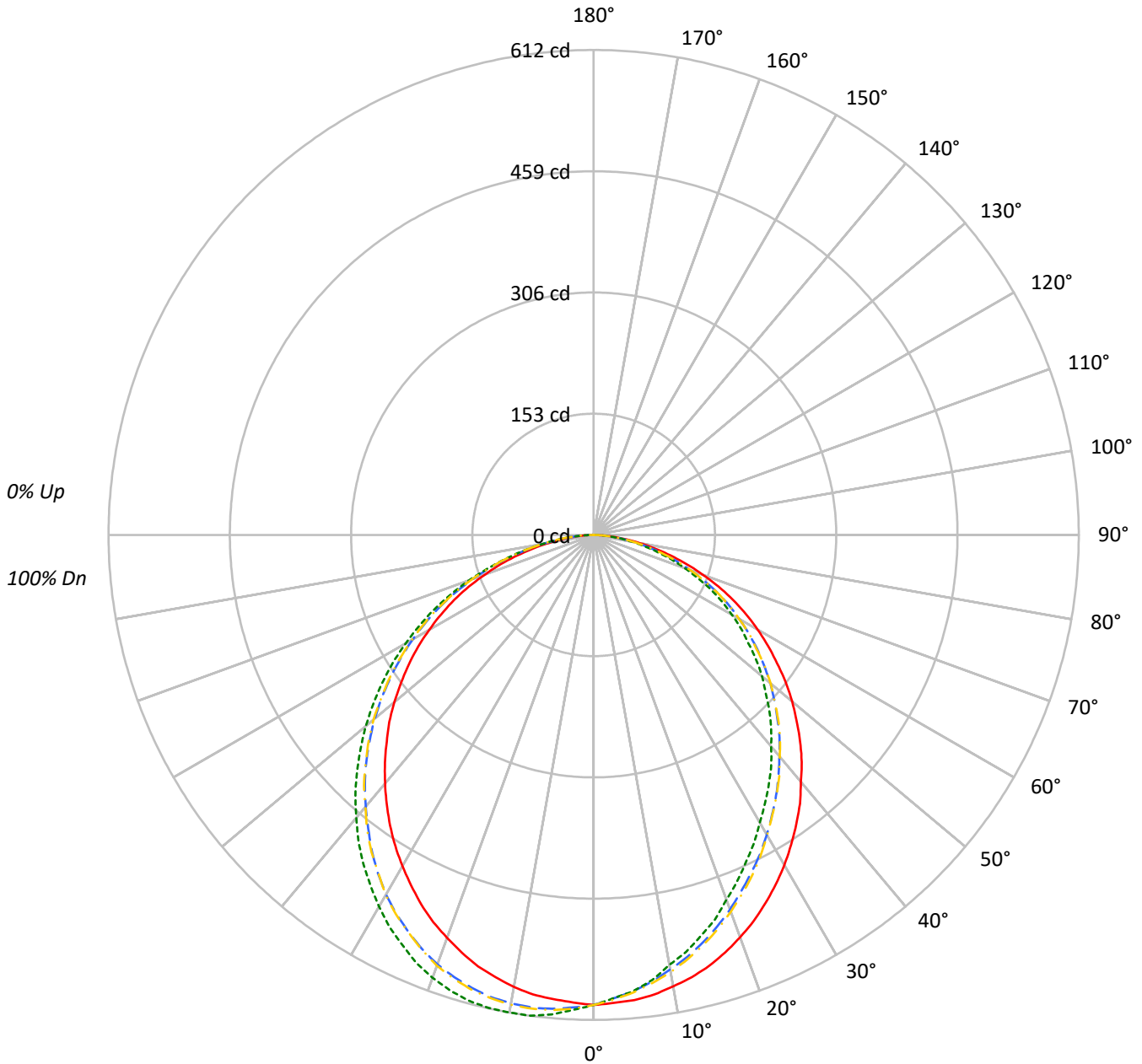
Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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									
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°	5473	5473	5473	5473
5°	5457	5351	5445	5625
10°	5419	5161	5426	5734
15°	5378	5000	5384	5813
20°	5304	4810	5311	5838
25°	5219	4632	5240	5814
30°	5125	4468	5140	5769
35°	5019	4339	5041	5707
40°	4898	4195	4931	5609
45°	4807	4089	4816	5507
50°	4691	3979	4709	5384
55°	4544	3832	4576	5236
60°	4408	3714	4421	5052
65°	4233	3561	4233	4836
70°	3947	3296	3928	4508
75°	3590	2991	3540	4042
80°	3103	2566	2997	3459
85°	2414	1916	2276	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.5
10°-20°	159.1	10.0
20°-30°	236.5	14.9
30°-40°	278.7	17.5
40°-50°	283.8	17.8
50°-60°	252.8	15.9
60°-70°	190.5	12.0
70°-80°	105.9	6.7
80°-90°	27.5	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°	451.6	28.4
0°-40°	730.4	45.9
0°-60°	1267.0	79.6
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	593	593	593	593	593	
5°	589	578	588	607	589	56
15°	563	524	564	609	563	159
25°	513	455	515	571	513	236
35°	446	385	448	507	446	279
45°	368	313	369	422	368	284
55°	282	238	284	326	282	253
65°	194	163	194	222	194	191
75°	101	84	99	113	101	107
85°	23	18	22	27	23	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	591.2	591.2	591.9	589.2	585.9	584.5	583.9	583.1	584.5	585.1	584.5
5°	589.2	587.9	586.5	583.1	579.2	576.4	575.1	574.4	575.8	577.8	575.8
7.5°	585.1	582.5	579.8	575.1	570.4	566.4	564.4	563.0	564.4	566.4	565.0
10°	578.4	575.1	571.1	565.7	559.0	554.3	552.3	550.3	550.9	550.9	550.9
12.5°	571.7	567.1	562.4	555.7	548.2	542.9	539.5	536.9	538.2	538.9	538.9
15°	563.0	557.0	550.3	542.9	535.5	529.5	525.5	522.7	523.5	523.5	524.1
17.5°	552.3	545.6	538.9	530.2	521.4	514.7	510.0	506.7	508.0	508.7	509.3
20°	540.2	532.8	525.5	516.0	506.7	499.3	494.5	490.5	489.9	489.9	490.5
22.5°	527.5	519.4	510.7	500.6	490.5	482.5	477.8	473.8	473.1	473.1	473.8
25°	512.7	504.0	495.3	485.2	474.4	466.4	460.3	456.4	455.6	455.0	456.4
27.5°	497.3	488.6	479.8	469.8	458.4	450.3	444.2	440.2	438.9	438.2	439.6
30°	481.1	471.1	461.7	450.9	440.9	432.9	426.8	422.1	420.8	419.4	420.8
32.5°	463.7	453.6	443.6	432.9	422.8	414.7	408.7	404.0	402.7	401.9	403.3
35°	445.6	435.5	426.2	415.4	405.3	397.3	391.2	387.2	385.9	385.2	385.9
37.5°	427.4	417.4	408.0	397.3	387.2	379.2	373.1	369.1	368.4	367.8	368.4
40°	406.7	398.0	388.5	378.5	368.4	360.4	355.7	351.0	349.6	348.3	350.3
42.5°	388.5	379.8	370.5	361.0	351.0	342.9	337.6	333.6	332.2	331.5	332.2
45°	368.4	359.0	349.6	340.9	331.5	324.1	318.8	314.7	314.1	313.4	314.1
47.5°	347.0	338.9	330.8	322.1	312.7	305.4	300.6	296.6	295.3	293.9	295.3
50°	326.8	318.8	310.7	302.6	293.9	287.2	282.5	278.5	277.8	277.2	277.8
52.5°	305.4	297.3	289.9	281.9	274.4	267.7	263.1	259.7	259.0	258.4	259.0
55°	282.5	275.8	269.1	262.4	255.0	248.9	245.0	240.9	239.6	238.2	239.6
57.5°	261.0	255.0	248.3	241.6	234.9	229.5	225.5	222.1	221.5	220.7	221.5
60°	238.9	233.5	227.5	221.5	214.8	209.4	206.0	203.3	202.0	201.3	202.0
62.5°	216.8	211.4	206.7	200.6	194.6	190.5	187.2	184.6	183.2	182.6	183.2
65°	193.9	189.3	184.6	179.2	174.5	170.4	167.1	164.4	163.7	163.1	163.1
67.5°	170.4	166.4	162.4	157.7	152.4	148.3	144.9	142.9	142.3	141.6	142.3
70°	146.3	142.9	138.9	134.9	130.9	127.5	125.5	123.5	122.8	122.2	122.2
72.5°	123.5	120.8	117.4	114.1	110.7	107.4	105.4	104.0	103.4	102.7	102.7
75°	100.7	97.9	96.0	93.3	90.0	87.9	85.9	84.5	83.9	83.9	83.9
77.5°	79.2	77.2	75.2	72.5	70.5	68.5	67.1	66.5	65.8	65.8	65.8
80°	58.4	57.0	55.7	54.3	52.3	50.3	49.7	49.0	48.3	48.3	48.3
82.5°	39.6	38.9	37.6	36.3	34.9	34.2	33.6	32.9	32.9	32.9	32.9
85°	22.8	22.1	21.5	20.8	20.1	20.1	19.5	18.8	18.1	18.1	18.1
87.5°	9.4	9.4	9.4	8.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	583.1	584.5	585.9	587.9	589.9	591.9	591.2	590.6	593.2	596.6	597.3
5°	574.4	575.8	577.8	581.1	584.5	587.2	587.9	587.9	593.2	597.9	599.3
7.5°	563.7	565.7	568.4	571.7	576.4	580.5	582.5	585.1	590.6	596.6	599.3
10°	550.3	553.7	557.7	562.4	567.1	571.7	575.8	579.2	585.9	592.6	596.6
12.5°	538.2	541.5	545.6	550.9	557.0	563.0	567.1	571.7	579.8	587.9	592.6
15°	524.7	528.1	532.8	538.2	544.9	551.6	557.7	563.7	571.7	580.5	585.9
17.5°	510.0	513.4	518.0	524.7	532.2	539.5	546.2	552.9	562.4	571.7	577.8
20°	491.9	496.6	502.6	509.3	518.0	526.8	533.5	540.9	550.9	561.0	567.7
22.5°	474.4	479.1	485.8	493.9	503.3	512.7	520.7	528.8	539.5	549.6	557.0
25°	457.6	463.1	469.8	477.8	486.6	495.9	505.3	514.7	525.5	536.2	543.6
27.5°	440.9	445.6	452.3	460.3	470.4	479.8	489.2	498.6	510.0	521.4	529.5
30°	422.1	427.4	433.5	441.6	452.3	463.1	472.4	482.5	493.9	505.3	513.4
32.5°	404.7	409.4	415.4	423.4	434.1	444.9	455.0	465.7	476.5	487.8	495.9
35°	387.2	391.9	398.0	406.0	416.7	427.4	437.5	447.6	458.4	469.1	477.1
37.5°	369.7	374.5	380.5	388.5	398.6	409.4	418.7	428.8	439.6	450.3	457.6
40°	351.6	356.3	361.0	369.1	379.2	389.9	399.3	409.4	420.1	430.8	438.2
42.5°	333.6	338.2	344.3	352.3	361.7	371.1	380.5	389.9	399.9	410.0	417.4
45°	315.4	319.4	325.5	332.8	342.3	351.0	360.4	369.1	379.2	388.5	396.0
47.5°	296.6	300.6	305.4	312.7	322.1	331.5	340.9	349.6	358.3	367.8	374.5
50°	278.5	282.5	287.9	294.6	303.4	312.1	320.1	328.1	336.9	345.6	351.6
52.5°	259.7	263.7	268.4	275.2	282.5	290.6	297.9	306.0	314.1	322.1	328.1
55°	240.9	243.6	247.6	253.7	261.7	269.8	277.2	284.5	291.9	298.6	304.6
57.5°	222.1	225.5	230.2	235.5	242.2	248.9	255.7	262.4	269.1	275.8	281.1
60°	203.3	206.0	209.4	214.0	220.7	226.8	233.5	239.6	245.6	251.7	256.4
62.5°	183.8	186.6	189.9	194.6	200.0	205.3	211.4	216.8	222.1	227.5	232.2
65°	163.7	166.4	169.8	173.8	178.5	183.2	188.5	193.9	198.0	202.0	206.7
67.5°	142.9	145.6	149.0	152.4	156.4	161.1	165.8	170.4	174.5	178.5	181.8
70°	122.8	124.8	128.1	130.9	134.2	137.6	141.6	145.6	148.3	151.6	155.7
72.5°	103.4	105.4	108.0	110.7	112.7	115.4	119.4	122.8	126.2	130.2	132.2
75°	84.5	85.9	87.9	90.0	92.0	94.0	96.7	99.3	102.0	104.0	106.7
77.5°	65.8	67.1	69.1	70.5	71.8	73.2	75.2	77.2	79.2	80.5	83.2
80°	48.3	49.7	51.0	52.3	53.7	55.0	55.7	56.4	59.0	61.0	62.4
82.5°	32.9	33.6	34.2	35.6	36.3	36.9	37.6	37.6	38.9	40.3	42.3
85°	18.8	19.5	20.1	20.1	20.1	20.1	20.8	21.5	22.1	23.5	24.8
87.5°	7.4	7.4	8.1	8.1	8.1	8.1	8.1	8.1	8.7	10.1	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	596.6	597.3	598.6	599.3	599.9	599.9	600.6	601.3	599.9	598.6	597.9
5°	599.9	600.6	602.6	604.6	606.0	607.4	606.6	606.0	604.6	602.6	601.3
7.5°	600.6	602.6	604.6	607.4	609.4	612.0	610.7	609.4	606.6	604.0	601.9
10°	598.6	601.3	604.6	608.0	610.0	612.0	610.7	609.4	606.6	603.3	600.6
12.5°	595.9	599.3	603.3	606.6	608.6	611.3	609.4	607.4	604.0	600.6	597.3
15°	589.9	593.9	598.6	602.6	606.0	608.6	606.6	605.3	601.3	596.6	591.9
17.5°	582.5	587.9	592.6	597.3	599.9	602.6	601.3	599.9	595.2	589.9	584.5
20°	573.8	579.2	583.9	588.5	591.9	594.6	592.6	590.6	585.9	581.1	575.8
22.5°	563.0	568.4	573.8	578.4	581.8	584.5	581.8	578.4	573.8	569.1	563.7
25°	549.6	555.7	561.7	566.4	568.4	571.1	568.4	565.7	561.0	556.3	550.3
27.5°	536.2	542.2	548.2	552.9	554.9	557.7	554.9	552.3	547.6	542.9	536.9
30°	520.7	526.8	532.8	537.5	539.5	541.5	538.9	536.2	532.2	527.5	521.4
32.5°	503.3	509.3	514.0	518.8	521.4	524.1	521.4	519.4	514.7	508.7	502.6
35°	484.5	490.5	496.6	501.3	504.0	506.7	503.3	500.0	495.9	491.2	485.8
37.5°	463.7	470.4	477.1	482.5	484.5	487.2	484.5	481.1	477.1	472.4	466.4
40°	444.2	450.3	456.4	461.7	463.7	465.7	463.1	460.3	455.6	450.9	444.9
42.5°	424.2	430.1	435.5	440.2	442.2	444.9	442.2	438.9	435.5	431.5	426.2
45°	402.7	408.7	413.4	418.1	420.1	422.1	419.4	416.1	412.7	409.4	404.0
47.5°	380.5	385.9	390.6	395.2	396.6	398.6	396.0	394.0	390.6	387.2	382.5
50°	357.7	363.0	367.8	371.7	373.1	375.1	372.5	369.7	367.1	364.4	360.4
52.5°	334.2	338.9	343.6	347.6	349.0	350.3	347.6	344.9	342.3	339.5	335.6
55°	310.1	314.7	319.4	322.8	324.1	325.5	322.8	320.8	318.1	316.1	312.1
57.5°	285.9	290.6	294.6	297.9	299.3	300.6	297.9	295.3	293.3	291.2	287.9
60°	261.0	265.7	269.1	271.8	273.2	273.8	271.1	269.1	267.7	266.4	263.1
62.5°	236.9	240.2	243.6	245.6	247.0	247.6	245.6	244.2	243.0	241.6	238.9
65°	211.4	215.4	218.1	220.1	220.7	221.5	219.5	218.1	216.8	215.4	213.4
67.5°	185.9	189.3	191.3	193.3	193.9	193.9	193.9	193.3	191.9	189.9	187.9
70°	160.3	163.1	165.1	166.4	167.1	167.1	165.8	164.4	164.4	163.7	162.4
72.5°	134.2	136.2	137.6	138.9	138.9	138.9	138.9	139.6	138.9	137.6	135.6
75°	109.4	111.4	112.7	113.4	113.4	113.4	113.4	114.1	113.4	112.7	111.4
77.5°	85.9	87.2	87.9	88.6	88.6	88.6	89.2	90.0	89.2	88.6	87.9
80°	63.8	64.4	65.1	65.8	65.1	65.1	65.8	67.1	66.5	65.8	65.1
82.5°	43.6	44.3	45.0	45.0	45.6	46.3	46.3	46.3	46.3	45.6	45.0
85°	26.2	26.8	26.8	26.8	26.8	26.8	27.5	28.2	28.2	27.5	27.5
87.5°	12.1	12.8	12.1	11.4	10.7	10.7	12.1	13.4	13.4	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	593.2	593.2	593.2	593.2
2.5°	598.6	597.9	594.6	591.2
5°	600.6	598.6	593.9	589.2
7.5°	600.6	597.9	591.2	585.1
10°	597.3	593.2	585.9	578.4
12.5°	593.2	588.5	579.8	571.7
15°	587.2	581.8	572.4	563.0
17.5°	578.4	571.7	562.4	552.3
20°	569.7	562.4	550.9	540.2
22.5°	557.7	550.9	538.9	527.5
25°	544.2	536.9	524.7	512.7
27.5°	530.2	521.4	509.3	497.3
30°	514.0	505.3	493.3	481.1
32.5°	496.6	488.6	476.5	463.7
35°	479.1	470.4	458.4	445.6
37.5°	459.7	451.6	439.6	427.4
40°	438.9	430.8	418.7	406.7
42.5°	419.4	412.0	399.9	388.5
45°	398.0	390.6	379.2	368.4
47.5°	375.8	368.4	357.7	347.0
50°	354.3	347.0	336.9	326.8
52.5°	330.2	324.1	314.7	305.4
55°	306.7	300.6	291.2	282.5
57.5°	283.2	277.8	269.1	261.0
60°	258.4	253.0	246.3	238.9
62.5°	234.9	230.2	223.5	216.8
65°	210.0	206.0	200.0	193.9
67.5°	184.6	181.2	175.8	170.4
70°	159.1	155.0	151.0	146.3
72.5°	133.6	131.5	127.5	123.5
75°	109.4	107.4	104.0	100.7
77.5°	86.6	84.5	81.9	79.2
80°	63.8	62.4	60.4	58.4
82.5°	44.3	43.0	41.6	39.6
85°	26.8	25.5	24.1	22.8
87.5°	12.1	11.4	10.1	9.4
90°	0.0	0.0	0.0	0.0



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













(END OF REPORT)