

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: P735576

Luminaire Tested: **4APN6-19-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735576
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-CP125-4000K
Description: 4FT 1900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

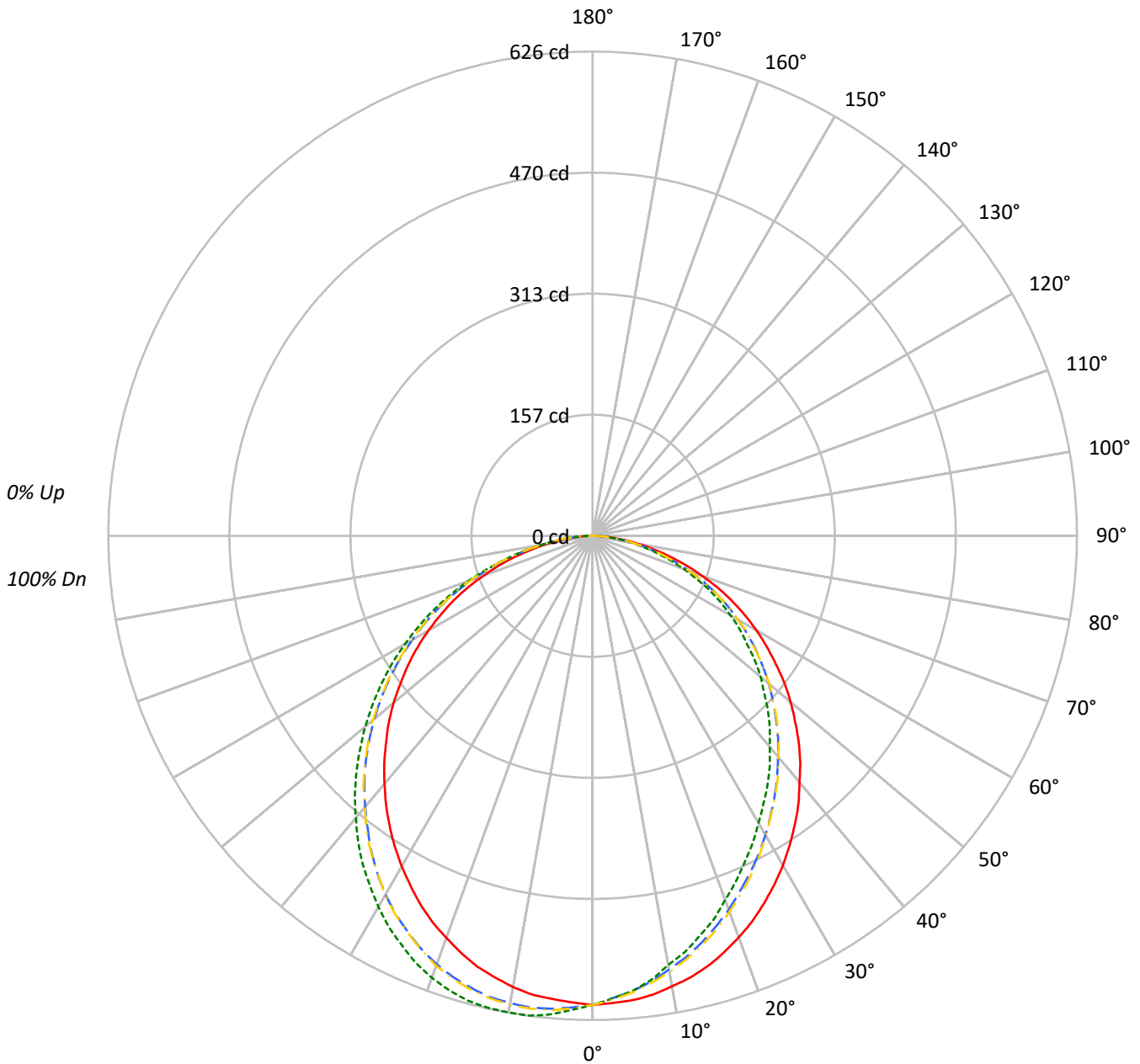
Lumens per Lamp: N/A
Luminaire Lumens: 1627.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	5597	5597	5597	5597
5°	5581	5473	5568	5752
10°	5541	5278	5549	5863
15°	5500	5113	5507	5945
20°	5425	4919	5431	5970
25°	5337	4737	5358	5945
30°	5242	4569	5256	5900
35°	5133	4437	5155	5837
40°	5009	4289	5042	5735
45°	4915	4182	4926	5631
50°	4797	4068	4816	5506
55°	4647	3918	4679	5355
60°	4508	3799	4521	5167
65°	4329	3641	4329	4945
70°	4036	3369	4017	4607
75°	3668	3059	3622	4135
80°	3172	2625	3066	3539
85°	2477	1958	2329	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.5
10°-20°	162.7	10.0
20°-30°	241.9	14.9
30°-40°	285.1	17.5
40°-50°	290.2	17.8
50°-60°	258.6	15.9
60°-70°	194.8	12.0
70°-80°	108.3	6.7
80°-90°	28.2	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°	461.9	28.4
0°-40°	746.9	45.9
0°-60°	1295.7	79.6
0°-90°	1627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	607	607	607	607	607	
5°	603	591	601	621	603	57
15°	576	535	576	622	576	162
25°	524	465	526	584	524	242
35°	456	394	458	518	456	285
45°	377	320	378	432	377	290
55°	289	244	291	333	289	259
65°	198	167	198	226	198	196
75°	103	86	102	116	103	109
85°	23	18	22	28	23	28
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°	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
2.5°	604.6	604.6	605.2	602.6	599.1	597.7	597.1	596.3	597.7	598.4	597.7
5°	602.6	601.2	599.8	596.3	592.3	589.5	588.1	587.4	588.8	590.9	588.8
7.5°	598.4	595.7	592.9	588.1	583.4	579.2	577.1	575.8	577.1	579.2	577.8
10°	591.5	588.1	584.0	578.5	571.7	566.8	564.8	562.8	563.4	563.4	563.4
12.5°	584.7	579.9	575.1	568.2	560.6	555.2	551.7	549.0	550.3	551.1	551.1
15°	575.8	569.6	562.8	555.2	547.6	541.4	537.4	534.6	535.3	535.3	536.0
17.5°	564.8	557.9	551.1	542.2	533.2	526.3	521.6	518.2	519.5	520.2	520.8
20°	552.5	544.9	537.4	527.7	518.2	510.6	505.7	501.6	501.0	501.0	501.6
22.5°	539.4	531.1	522.2	511.9	501.6	493.4	488.6	484.5	483.8	483.8	484.5
25°	524.3	515.4	506.5	496.2	485.1	477.0	470.8	466.7	465.9	465.3	466.7
27.5°	508.5	499.6	490.7	480.4	468.7	460.5	454.3	450.2	448.8	448.1	449.5
30°	492.0	481.7	472.2	461.1	450.8	442.7	436.5	431.6	430.3	428.9	430.3
32.5°	474.2	463.9	453.6	442.7	432.4	424.1	417.9	413.2	411.8	411.0	412.4
35°	455.7	445.4	435.8	424.8	414.5	406.3	400.1	396.0	394.6	393.9	394.6
37.5°	437.1	426.9	417.3	406.3	396.0	387.8	381.5	377.5	376.7	376.1	376.7
40°	415.9	407.0	397.3	387.0	376.7	368.6	363.7	358.9	357.5	356.1	358.3
42.5°	397.3	388.4	378.9	369.2	358.9	350.7	345.2	341.1	339.7	339.0	339.7
45°	376.7	367.2	357.5	348.6	339.0	331.5	326.0	321.8	321.2	320.5	321.2
47.5°	354.8	346.6	338.3	329.4	319.8	312.3	307.4	303.4	302.0	300.6	302.0
50°	334.2	326.0	317.7	309.5	300.6	293.7	288.9	284.8	284.1	283.4	284.1
52.5°	312.3	304.0	296.5	288.2	280.6	273.8	269.0	265.6	264.9	264.2	264.9
55°	288.9	282.0	275.2	268.3	260.8	254.6	250.5	246.3	245.0	243.6	245.0
57.5°	266.9	260.8	253.9	247.1	240.2	234.7	230.6	227.1	226.5	225.7	226.5
60°	244.3	238.8	232.6	226.5	219.6	214.1	210.7	207.9	206.5	205.9	206.5
62.5°	221.7	216.2	211.4	205.2	199.0	194.9	191.4	188.7	187.3	186.7	187.3
65°	198.3	193.6	188.7	183.3	178.4	174.3	170.8	168.1	167.4	166.8	166.8
67.5°	174.3	170.2	166.1	161.3	155.8	151.6	148.2	146.2	145.5	144.8	145.5
70°	149.6	146.2	142.1	137.9	133.8	130.4	128.4	126.3	125.6	124.9	124.9
72.5°	126.3	123.5	120.1	116.7	113.2	109.8	107.8	106.4	105.7	105.0	105.0
75°	102.9	100.2	98.1	95.4	92.0	89.9	87.8	86.4	85.8	85.8	85.8
77.5°	81.0	78.9	76.9	74.1	72.1	70.0	68.6	68.0	67.2	67.2	67.2
80°	59.7	58.3	56.9	55.6	53.5	51.5	50.8	50.1	49.4	49.4	49.4
82.5°	40.5	39.8	38.4	37.1	35.7	35.0	34.3	33.7	33.7	33.7	33.7
85°	23.4	22.6	22.0	21.2	20.6	20.6	19.9	19.2	18.5	18.5	18.5
87.5°	9.6	9.6	9.6	8.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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°	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
2.5°	596.3	597.7	599.1	601.2	603.2	605.2	604.6	603.9	606.6	610.1	610.8
5°	587.4	588.8	590.9	594.3	597.7	600.5	601.2	601.2	606.6	611.5	612.8
7.5°	576.5	578.5	581.2	584.7	589.5	593.6	595.7	598.4	603.9	610.1	612.8
10°	562.8	566.2	570.3	575.1	579.9	584.7	588.8	592.3	599.1	606.0	610.1
12.5°	550.3	553.8	557.9	563.4	569.6	575.8	579.9	584.7	592.9	601.2	606.0
15°	536.6	540.0	544.9	550.3	557.2	564.1	570.3	576.5	584.7	593.6	599.1
17.5°	521.6	525.0	529.8	536.6	544.2	551.7	558.6	565.5	575.1	584.7	590.9
20°	503.0	507.9	514.0	520.8	529.8	538.7	545.6	553.1	563.4	573.7	580.6
22.5°	485.1	490.0	496.8	505.1	514.7	524.3	532.5	540.8	551.7	562.0	569.6
25°	468.0	473.5	480.4	488.6	497.6	507.1	516.8	526.3	537.4	548.3	555.9
27.5°	450.8	455.7	462.5	470.8	481.1	490.7	500.3	509.9	521.6	533.2	541.4
30°	431.6	437.1	443.3	451.6	462.5	473.5	483.1	493.4	505.1	516.8	525.0
32.5°	413.8	418.6	424.8	433.0	444.0	455.0	465.3	476.2	487.3	498.9	507.1
35°	396.0	400.7	407.0	415.2	426.2	437.1	447.4	457.7	468.7	479.7	487.9
37.5°	378.1	382.9	389.1	397.3	407.6	418.6	428.2	438.5	449.5	460.5	468.0
40°	359.6	364.4	369.2	377.5	387.8	398.7	408.3	418.6	429.6	440.5	448.1
42.5°	341.1	345.8	352.1	360.3	369.9	379.5	389.1	398.7	409.0	419.3	426.9
45°	322.6	326.6	332.9	340.4	350.0	358.9	368.6	377.5	387.8	397.3	404.9
47.5°	303.4	307.4	312.3	319.8	329.4	339.0	348.6	357.5	366.4	376.1	382.9
50°	284.8	288.9	294.4	301.2	310.2	319.1	327.4	335.5	344.5	353.4	359.6
52.5°	265.6	269.7	274.5	281.4	288.9	297.1	304.7	312.9	321.2	329.4	335.5
55°	246.3	249.1	253.2	259.4	267.7	275.9	283.4	290.9	298.5	305.4	311.5
57.5°	227.1	230.6	235.4	240.9	247.7	254.6	261.4	268.3	275.2	282.0	287.5
60°	207.9	210.7	214.1	218.9	225.7	232.0	238.8	245.0	251.2	257.4	262.2
62.5°	188.0	190.8	194.2	199.0	204.5	210.0	216.2	221.7	227.1	232.6	237.4
65°	167.4	170.2	173.6	177.7	182.5	187.3	192.8	198.3	202.5	206.5	211.4
67.5°	146.2	148.9	152.4	155.8	159.9	164.7	169.5	174.3	178.4	182.5	186.0
70°	125.6	127.6	131.0	133.8	137.3	140.7	144.8	148.9	151.6	155.1	159.2
72.5°	105.7	107.8	110.5	113.2	115.3	118.1	122.1	125.6	129.0	133.2	135.2
75°	86.4	87.8	89.9	92.0	94.0	96.1	98.9	101.6	104.3	106.4	109.2
77.5°	67.2	68.6	70.7	72.1	73.4	74.8	76.9	78.9	81.0	82.4	85.1
80°	49.4	50.8	52.1	53.5	54.9	56.3	56.9	57.7	60.4	62.4	63.8
82.5°	33.7	34.3	35.0	36.4	37.1	37.7	38.4	38.4	39.8	41.2	43.2
85°	19.2	19.9	20.6	20.6	20.6	20.6	21.2	22.0	22.6	24.0	25.4
87.5°	7.5	7.5	8.3	8.3	8.3	8.3	8.3	8.3	8.9	10.3	10.9
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°	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
2.5°	610.1	610.8	612.1	612.8	613.5	613.5	614.2	614.9	613.5	612.1	611.5
5°	613.5	614.2	616.3	618.3	619.7	621.1	620.4	619.7	618.3	616.3	614.9
7.5°	614.2	616.3	618.3	621.1	623.1	625.8	624.5	623.1	620.4	617.7	615.5
10°	612.1	614.9	618.3	621.8	623.8	625.8	624.5	623.1	620.4	616.9	614.2
12.5°	609.4	612.8	616.9	620.4	622.4	625.2	623.1	621.1	617.7	614.2	610.8
15°	603.2	607.4	612.1	616.3	619.7	622.4	620.4	619.0	614.9	610.1	605.2
17.5°	595.7	601.2	606.0	610.8	613.5	616.3	614.9	613.5	608.7	603.2	597.7
20°	586.8	592.3	597.1	601.8	605.2	608.0	606.0	603.9	599.1	594.3	588.8
22.5°	575.8	581.2	586.8	591.5	595.0	597.7	595.0	591.5	586.8	582.0	576.5
25°	562.0	568.2	574.4	579.2	581.2	584.0	581.2	578.5	573.7	568.9	562.8
27.5°	548.3	554.5	560.6	565.5	567.5	570.3	567.5	564.8	560.0	555.2	549.0
30°	532.5	538.7	544.9	549.7	551.7	553.8	551.1	548.3	544.2	539.4	533.2
32.5°	514.7	520.8	525.7	530.5	533.2	536.0	533.2	531.1	526.3	520.2	514.0
35°	495.4	501.6	507.9	512.6	515.4	518.2	514.7	511.3	507.1	502.3	496.8
37.5°	474.2	481.1	487.9	493.4	495.4	498.2	495.4	492.0	487.9	483.1	477.0
40°	454.3	460.5	466.7	472.2	474.2	476.2	473.5	470.8	465.9	461.1	455.0
42.5°	433.8	439.9	445.4	450.2	452.2	455.0	452.2	448.8	445.4	441.3	435.8
45°	411.8	417.9	422.7	427.5	429.6	431.6	428.9	425.5	422.1	418.6	413.2
47.5°	389.1	394.6	399.4	404.2	405.6	407.6	404.9	402.9	399.4	396.0	391.2
50°	365.8	371.3	376.1	380.2	381.5	383.6	380.9	378.1	375.4	372.6	368.6
52.5°	341.8	346.6	351.4	355.5	356.9	358.3	355.5	352.7	350.0	347.2	343.1
55°	317.1	321.8	326.6	330.1	331.5	332.9	330.1	328.0	325.3	323.2	319.1
57.5°	292.3	297.1	301.2	304.7	306.1	307.4	304.7	302.0	299.9	297.8	294.4
60°	266.9	271.7	275.2	277.9	279.3	280.0	277.2	275.2	273.8	272.5	269.0
62.5°	242.2	245.7	249.1	251.2	252.5	253.2	251.2	249.8	248.5	247.1	244.3
65°	216.2	220.3	223.0	225.1	225.7	226.5	224.4	223.0	221.7	220.3	218.2
67.5°	190.1	193.6	195.6	197.6	198.3	198.3	198.3	197.6	196.2	194.2	192.2
70°	164.0	166.8	168.8	170.2	170.8	170.8	169.5	168.1	168.1	167.4	166.1
72.5°	137.3	139.3	140.7	142.1	142.1	142.1	142.1	142.7	142.1	140.7	138.6
75°	111.8	113.9	115.3	116.0	116.0	116.0	116.0	116.7	116.0	115.3	113.9
77.5°	87.8	89.2	89.9	90.6	90.6	90.6	91.3	92.0	91.3	90.6	89.9
80°	65.2	65.9	66.6	67.2	66.6	66.6	67.2	68.6	68.0	67.2	66.6
82.5°	44.6	45.3	46.0	46.0	46.7	47.4	47.4	47.4	47.4	46.7	46.0
85°	26.8	27.5	27.5	27.5	27.5	27.5	28.1	28.8	28.8	28.1	28.1
87.5°	12.3	13.1	12.3	11.7	10.9	10.9	12.3	13.7	13.7	13.1	13.1
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):

	330°	340°	350°	360°
0°	606.6	606.6	606.6	606.6
2.5°	612.1	611.5	608.0	604.6
5°	614.2	612.1	607.4	602.6
7.5°	614.2	611.5	604.6	598.4
10°	610.8	606.6	599.1	591.5
12.5°	606.6	601.8	592.9	584.7
15°	600.5	595.0	585.4	575.8
17.5°	591.5	584.7	575.1	564.8
20°	582.6	575.1	563.4	552.5
22.5°	570.3	563.4	551.1	539.4
25°	556.6	549.0	536.6	524.3
27.5°	542.2	533.2	520.8	508.5
30°	525.7	516.8	504.4	492.0
32.5°	507.9	499.6	487.3	474.2
35°	490.0	481.1	468.7	455.7
37.5°	470.1	461.9	449.5	437.1
40°	448.8	440.5	428.2	415.9
42.5°	428.9	421.3	409.0	397.3
45°	407.0	399.4	387.8	376.7
47.5°	384.3	376.7	365.8	354.8
50°	362.3	354.8	344.5	334.2
52.5°	337.7	331.5	321.8	312.3
55°	313.7	307.4	297.8	288.9
57.5°	289.6	284.1	275.2	266.9
60°	264.2	258.7	251.9	244.3
62.5°	240.2	235.4	228.5	221.7
65°	214.8	210.7	204.5	198.3
67.5°	188.7	185.3	179.8	174.3
70°	162.7	158.5	154.4	149.6
72.5°	136.6	134.5	130.4	126.3
75°	111.8	109.8	106.4	102.9
77.5°	88.6	86.4	83.7	81.0
80°	65.2	63.8	61.8	59.7
82.5°	45.3	44.0	42.6	40.5
85°	27.5	26.1	24.7	23.4
87.5°	12.3	11.7	10.3	9.6
90°	0.0	0.0	0.0	0.0



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













(END OF REPORT)