

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: P735589

Luminaire Tested: **4APN6-24-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735589
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: 4APN6-24-B2750-W2D-CP125-3000K
Description: 4FT 2400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

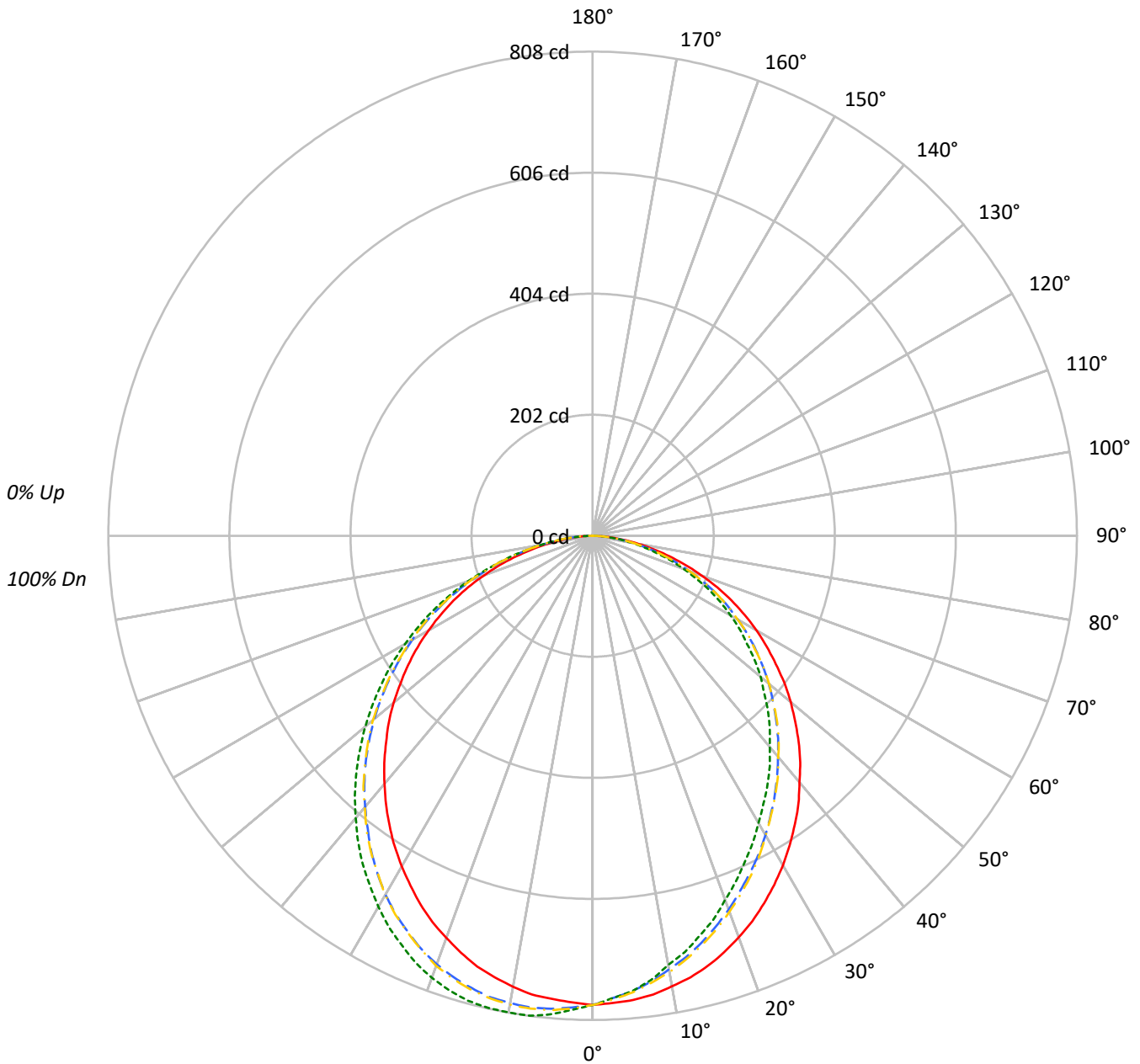
Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.8
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°	7224	7224	7224	7224
5°	7203	7063	7186	7425
10°	7153	6813	7161	7568
15°	7098	6599	7107	7673
20°	7001	6349	7009	7705
25°	6889	6114	6915	7674
30°	6765	5898	6784	7615
35°	6624	5726	6654	7533
40°	6465	5537	6507	7403
45°	6344	5398	6357	7269
50°	6192	5250	6216	7106
55°	5998	5059	6040	6910
60°	5818	4903	5836	6669
65°	5587	4698	5587	6381
70°	5209	4348	5185	5948
75°	4738	3946	4673	5336
80°	4096	3390	3958	4564
85°	3197	2530	3006	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.5
10°-20°	210.0	10.0
20°-30°	312.2	14.9
30°-40°	367.9	17.5
40°-50°	374.6	17.8
50°-60°	333.7	15.9
60°-70°	251.4	12.0
70°-80°	139.8	6.7
80°-90°	36.3	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°	596.1	28.4
0°-40°	964.0	45.9
0°-60°	1672.4	79.6
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	783	783	783	783	783	
5°	778	763	776	802	778	74
15°	743	691	744	803	743	209
25°	677	601	679	754	677	312
35°	588	508	591	669	588	368
45°	486	414	487	557	486	375
55°	373	314	376	430	373	334
65°	256	215	256	292	256	253
75°	133	111	131	150	133	141
85°	30	24	28	35	30	36
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°	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0
2.5°	780.4	780.4	781.2	777.7	773.3	771.5	770.7	769.7	771.5	772.3	771.5
5°	777.7	775.9	774.1	769.7	764.4	760.9	759.1	758.2	760.0	762.6	760.0
7.5°	772.3	768.9	765.3	759.1	752.9	747.6	744.9	743.1	744.9	747.6	745.8
10°	763.5	759.1	753.8	746.7	737.9	731.6	729.0	726.4	727.2	727.2	727.2
12.5°	754.6	748.5	742.3	733.4	723.6	716.6	712.1	708.7	710.3	711.3	711.3
15°	743.1	735.2	726.4	716.6	706.9	698.8	693.6	690.0	690.9	690.9	691.8
17.5°	729.0	720.1	711.3	699.8	688.2	679.3	673.2	668.8	670.5	671.4	672.3
20°	713.1	703.3	693.6	681.1	668.8	659.0	652.8	647.5	646.6	646.6	647.5
22.5°	696.2	685.6	674.1	660.8	647.5	636.8	630.6	625.3	624.5	624.5	625.3
25°	676.7	665.2	653.7	640.4	626.2	615.6	607.6	602.4	601.4	600.6	602.4
27.5°	656.3	644.9	633.4	620.1	605.0	594.3	586.3	581.1	579.3	578.4	580.2
30°	635.0	621.8	609.4	595.2	581.9	571.3	563.3	557.1	555.4	553.6	555.4
32.5°	612.1	598.8	585.5	571.3	558.1	547.4	539.4	533.3	531.5	530.5	532.3
35°	588.1	574.8	562.5	548.3	535.0	524.4	516.4	511.1	509.3	508.4	509.3
37.5°	564.2	551.0	538.6	524.4	511.1	500.5	492.5	487.2	486.2	485.4	486.2
40°	536.8	525.3	512.8	499.5	486.2	475.7	469.5	463.3	461.5	459.7	462.4
42.5°	512.8	501.3	489.0	476.5	463.3	452.6	445.5	440.3	438.5	437.5	438.5
45°	486.2	473.9	461.5	450.0	437.5	427.8	420.8	415.4	414.5	413.7	414.5
47.5°	458.0	447.3	436.7	425.2	412.7	403.0	396.8	391.6	389.8	388.0	389.8
50°	431.4	420.8	410.1	399.5	388.0	379.1	372.9	367.6	366.7	365.8	366.7
52.5°	403.0	392.4	382.7	372.0	362.2	353.4	347.3	342.8	341.9	341.0	341.9
55°	372.9	364.0	355.2	346.3	336.6	328.6	323.3	317.9	316.3	314.5	316.3
57.5°	344.5	336.6	327.8	318.9	310.0	303.0	297.6	293.2	292.3	291.4	292.3
60°	315.3	308.2	300.2	292.3	283.5	276.4	272.0	268.4	266.6	265.7	266.6
62.5°	286.1	279.0	272.8	264.8	256.9	251.5	247.1	243.6	241.8	241.0	241.8
65°	255.9	249.8	243.6	236.5	230.3	224.9	220.5	217.0	216.1	215.2	215.2
67.5°	224.9	219.7	214.4	208.2	201.1	195.7	191.3	188.7	187.8	186.9	187.8
70°	193.1	188.7	183.4	178.0	172.7	168.3	165.7	163.0	162.1	161.2	161.2
72.5°	163.0	159.4	155.0	150.6	146.2	141.7	139.1	137.3	136.5	135.5	135.5
75°	132.9	129.3	126.7	123.2	118.7	116.0	113.4	111.6	110.7	110.7	110.7
77.5°	104.5	101.9	99.2	95.6	93.0	90.4	88.6	87.7	86.8	86.8	86.8
80°	77.1	75.3	73.5	71.7	69.1	66.4	65.6	64.6	63.8	63.8	63.8
82.5°	52.3	51.4	49.6	47.9	46.1	45.1	44.3	43.4	43.4	43.4	43.4
85°	30.2	29.2	28.4	27.4	26.6	26.6	25.7	24.8	23.9	23.9	23.9
87.5°	12.4	12.4	12.4	11.5	10.7	10.7	10.7	10.7	10.7	10.7	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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0
2.5°	769.7	771.5	773.3	775.9	778.6	781.2	780.4	779.5	783.0	787.4	788.4
5°	758.2	760.0	762.6	767.1	771.5	775.1	775.9	775.9	783.0	789.2	791.0
7.5°	744.1	746.7	750.2	754.6	760.9	766.2	768.9	772.3	779.5	787.4	791.0
10°	726.4	730.8	736.1	742.3	748.5	754.6	760.0	764.4	773.3	782.2	787.4
12.5°	710.3	714.8	720.1	727.2	735.2	743.1	748.5	754.6	765.3	775.9	782.2
15°	692.6	697.1	703.3	710.3	719.2	728.1	736.1	744.1	754.6	766.2	773.3
17.5°	673.2	677.6	683.8	692.6	702.4	712.1	721.0	729.8	742.3	754.6	762.6
20°	649.3	655.5	663.4	672.3	683.8	695.4	704.2	713.9	727.2	740.5	749.4
22.5°	626.2	632.4	641.3	651.9	664.4	676.7	687.3	698.0	712.1	725.4	735.2
25°	604.0	611.2	620.1	630.6	642.2	654.6	667.0	679.3	693.6	707.7	717.5
27.5°	581.9	588.1	597.0	607.6	620.9	633.4	645.7	658.1	673.2	688.2	698.8
30°	557.1	564.2	572.2	582.8	597.0	611.2	623.5	636.8	651.9	667.0	677.6
32.5°	534.1	540.3	548.3	558.9	573.0	587.3	600.6	614.7	628.9	643.9	654.6
35°	511.1	517.3	525.3	535.9	550.0	564.2	577.5	590.8	605.0	619.1	629.8
37.5°	488.0	494.3	502.3	512.8	526.1	540.3	552.7	566.0	580.2	594.3	604.0
40°	464.1	470.3	476.5	487.2	500.5	514.6	527.1	540.3	554.5	568.6	578.4
42.5°	440.3	446.4	454.4	465.1	477.4	489.8	502.3	514.6	527.9	541.2	551.0
45°	416.3	421.6	429.6	439.3	451.8	463.3	475.7	487.2	500.5	512.8	522.6
47.5°	391.6	396.8	403.0	412.7	425.2	437.5	450.0	461.5	473.0	485.4	494.3
50°	367.6	372.9	380.0	388.8	400.4	411.9	422.6	433.1	444.7	456.2	464.1
52.5°	342.8	348.1	354.3	363.2	372.9	383.5	393.2	403.9	414.5	425.2	433.1
55°	317.9	321.5	326.8	334.8	345.5	356.1	365.8	375.5	385.3	394.2	402.1
57.5°	293.2	297.6	303.8	310.9	319.7	328.6	337.5	346.3	355.2	364.0	371.1
60°	268.4	272.0	276.4	282.5	291.4	299.4	308.2	316.3	324.2	332.2	338.4
62.5°	242.6	246.2	250.7	256.9	264.0	271.0	279.0	286.1	293.2	300.2	306.4
65°	216.1	219.7	224.1	229.4	235.6	241.8	248.9	255.9	261.3	266.6	272.8
67.5°	188.7	192.2	196.7	201.1	206.4	212.6	218.8	224.9	230.3	235.6	240.0
70°	162.1	164.7	169.1	172.7	177.2	181.6	186.9	192.2	195.7	200.2	205.5
72.5°	136.5	139.1	142.6	146.2	148.8	152.4	157.7	162.1	166.5	171.9	174.5
75°	111.6	113.4	116.0	118.7	121.4	124.0	127.6	131.1	134.7	137.3	140.9
77.5°	86.8	88.6	91.2	93.0	94.8	96.6	99.2	101.9	104.5	106.3	109.9
80°	63.8	65.6	67.3	69.1	70.9	72.7	73.5	74.5	77.9	80.6	82.4
82.5°	43.4	44.3	45.1	46.9	47.9	48.7	49.6	49.6	51.4	53.1	55.8
85°	24.8	25.7	26.6	26.6	26.6	26.6	27.4	28.4	29.2	31.0	32.8
87.5°	9.7	9.7	10.7	10.7	10.7	10.7	10.7	10.7	11.5	13.3	14.1
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0	783.0
2.5°	787.4	788.4	790.1	791.0	791.9	791.9	792.8	793.6	791.9	790.1	789.2
5°	791.9	792.8	795.4	798.1	799.9	801.7	800.7	799.9	798.1	795.4	793.6
7.5°	792.8	795.4	798.1	801.7	804.3	807.8	806.1	804.3	800.7	797.2	794.5
10°	790.1	793.6	798.1	802.5	805.1	807.8	806.1	804.3	800.7	796.3	792.8
12.5°	786.6	791.0	796.3	800.7	803.3	806.9	804.3	801.7	797.2	792.8	788.4
15°	778.6	783.9	790.1	795.4	799.9	803.3	800.7	798.9	793.6	787.4	781.2
17.5°	768.9	775.9	782.2	788.4	791.9	795.4	793.6	791.9	785.6	778.6	771.5
20°	757.4	764.4	770.7	776.8	781.2	784.8	782.2	779.5	773.3	767.1	760.0
22.5°	743.1	750.2	757.4	763.5	767.9	771.5	767.9	763.5	757.4	751.1	744.1
25°	725.4	733.4	741.3	747.6	750.2	753.8	750.2	746.7	740.5	734.3	726.4
27.5°	707.7	715.7	723.6	729.8	732.5	736.1	732.5	729.0	722.8	716.6	708.7
30°	687.3	695.4	703.3	709.5	712.1	714.8	711.3	707.7	702.4	696.2	688.2
32.5°	664.4	672.3	678.5	684.7	688.2	691.8	688.2	685.6	679.3	671.4	663.4
35°	639.5	647.5	655.5	661.6	665.2	668.8	664.4	659.9	654.6	648.3	641.3
37.5°	612.1	620.9	629.8	636.8	639.5	643.1	639.5	635.0	629.8	623.5	615.6
40°	586.3	594.3	602.4	609.4	612.1	614.7	611.2	607.6	601.4	595.2	587.3
42.5°	559.9	567.8	574.8	581.1	583.7	587.3	583.7	579.3	574.8	569.6	562.5
45°	531.5	539.4	545.6	551.8	554.5	557.1	553.6	549.2	544.8	540.3	533.3
47.5°	502.3	509.3	515.6	521.7	523.5	526.1	522.6	520.0	515.6	511.1	504.9
50°	472.1	479.2	485.4	490.7	492.5	495.1	491.6	488.0	484.6	481.0	475.7
52.5°	441.1	447.3	453.6	458.8	460.6	462.4	458.8	455.2	451.8	448.2	442.9
55°	409.3	415.4	421.6	426.0	427.8	429.6	426.0	423.4	419.8	417.2	411.9
57.5°	377.3	383.5	388.8	393.2	395.0	396.8	393.2	389.8	387.1	384.4	380.0
60°	344.5	350.7	355.2	358.8	360.5	361.4	357.8	355.2	353.4	351.7	347.3
62.5°	312.7	317.1	321.5	324.2	326.0	326.8	324.2	322.4	320.7	318.9	315.3
65°	279.0	284.3	287.9	290.5	291.4	292.3	289.7	287.9	286.1	284.3	281.7
67.5°	245.4	249.8	252.5	255.1	255.9	255.9	255.9	255.1	253.3	250.7	248.0
70°	211.6	215.2	217.9	219.7	220.5	220.5	218.8	217.0	217.0	216.1	214.4
72.5°	177.2	179.8	181.6	183.4	183.4	183.4	183.4	184.2	183.4	181.6	179.0
75°	144.4	147.0	148.8	149.7	149.7	149.7	149.7	150.6	149.7	148.8	147.0
77.5°	113.4	115.2	116.0	116.9	116.9	116.9	117.8	118.7	117.8	116.9	116.0
80°	84.2	85.0	85.9	86.8	85.9	85.9	86.8	88.6	87.7	86.8	85.9
82.5°	57.6	58.4	59.4	59.4	60.2	61.2	61.2	61.2	61.2	60.2	59.4
85°	34.6	35.4	35.4	35.4	35.4	35.4	36.3	37.2	37.2	36.3	36.3
87.5°	15.9	16.9	15.9	15.1	14.1	14.1	15.9	17.7	17.7	16.9	16.9
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):

	330°	340°	350°	360°
0°	783.0	783.0	783.0	783.0
2.5°	790.1	789.2	784.8	780.4
5°	792.8	790.1	783.9	777.7
7.5°	792.8	789.2	780.4	772.3
10°	788.4	783.0	773.3	763.5
12.5°	783.0	776.8	765.3	754.6
15°	775.1	767.9	755.6	743.1
17.5°	763.5	754.6	742.3	729.0
20°	752.0	742.3	727.2	713.1
22.5°	736.1	727.2	711.3	696.2
25°	718.4	708.7	692.6	676.7
27.5°	699.8	688.2	672.3	656.3
30°	678.5	667.0	651.1	635.0
32.5°	655.5	644.9	628.9	612.1
35°	632.4	620.9	605.0	588.1
37.5°	606.8	596.1	580.2	564.2
40°	579.3	568.6	552.7	536.8
42.5°	553.6	543.8	527.9	512.8
45°	525.3	515.6	500.5	486.2
47.5°	496.1	486.2	472.1	458.0
50°	467.7	458.0	444.7	431.4
52.5°	435.8	427.8	415.4	403.0
55°	404.8	396.8	384.4	372.9
57.5°	373.8	366.7	355.2	344.5
60°	341.0	334.0	325.1	315.3
62.5°	310.0	303.8	295.0	286.1
65°	277.2	272.0	264.0	255.9
67.5°	243.6	239.2	232.1	224.9
70°	210.0	204.6	199.3	193.1
72.5°	176.3	173.6	168.3	163.0
75°	144.4	141.7	137.3	132.9
77.5°	114.3	111.6	108.1	104.5
80°	84.2	82.4	79.7	77.1
82.5°	58.4	56.7	54.9	52.3
85°	35.4	33.6	31.8	30.2
87.5°	15.9	15.1	13.3	12.4
90°	0.0	0.0	0.0	0.0



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













(END OF REPORT)