

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: PORTFOLIO

Report Number: P857058

Luminaire Tested: **LX4C15D010 EX4C159840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C15D010 EX4C159840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

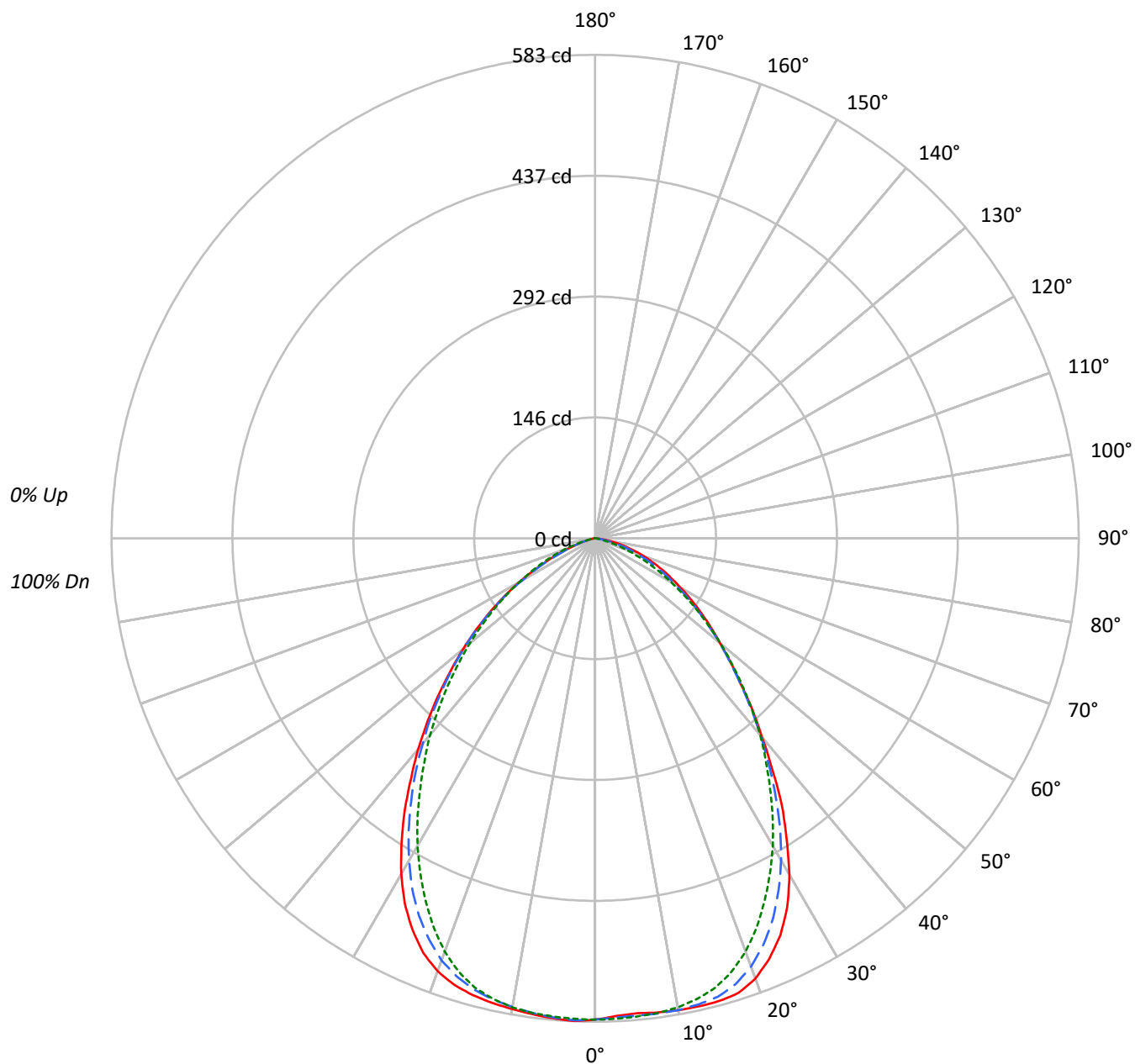
Lumens per Lamp: N/A
Luminaire Lumens: 1112.9 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	71316	71316	71316
5°	70911	71392	71663
10°	72080	71656	71930
15°	73489	71339	72535
20°	73867	69330	72638
25°	71600	65486	70624
30°	66447	60758	66319
35°	58851	55116	59961
40°	50165	49636	53164
45°	43105	43592	46319
50°	37614	37709	39716
55°	33242	31850	32899
60°	29141	25996	25873
65°	25785	20145	17936
70°	22019	13865	10632
75°	17800	7452	4889
80°	12169	1839	1273
85°	3665	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	5.0
10°-20°	159.7	14.4
20°-30°	230.8	20.7
30°-40°	238.6	21.4
40°-50°	197.1	17.7
50°-60°	136.0	12.2
60°-70°	71.2	6.4
70°-80°	22.4	2.0
80°-90°	1.9	0.2
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°	445.6	40.0
0°-40°	684.2	61.5
0°-60°	1017.4	91.4
0°-90°	1112.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	580	580	580	580	580	
5°	575	578	579	580	581	55
15°	578	572	561	564	570	163
25°	528	507	483	502	521	241
35°	392	379	368	387	400	244
45°	248	247	251	262	267	193
55°	155	150	149	153	154	139
65°	89	80	69	58	62	88
75°	38	29	16	11	10	40
85°	3	1	0	0	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	576.8	577.0	577.0	577.4	577.4	577.4	577.7	577.7	577.8	578.1	578.3
5°	575.0	575.0	575.4	575.7	576.2	576.3	576.8	577.0	577.4	577.7	577.8
7.5°	576.8	576.8	577.0	577.2	577.2	577.4	577.4	577.7	577.8	578.1	578.1
10°	577.8	577.8	577.8	577.8	578.1	578.1	578.1	577.8	577.8	577.8	577.7
12.5°	578.3	578.3	578.1	577.8	578.1	577.8	577.8	577.2	576.8	576.3	575.7
15°	577.8	577.8	577.7	577.4	577.2	576.8	576.6	575.4	574.6	573.3	572.4
17.5°	575.0	574.6	574.2	573.7	572.9	572.2	571.8	569.8	568.3	566.1	563.7
20°	565.0	564.6	563.9	562.9	561.7	560.9	559.6	556.7	555.2	551.9	549.5
22.5°	548.7	548.2	548.4	546.5	544.3	543.0	542.1	539.7	537.1	533.0	530.3
25°	528.2	526.8	526.8	523.8	522.7	521.8	520.8	517.9	514.0	510.3	506.8
27.5°	501.6	499.8	498.9	498.5	495.9	493.9	492.4	490.3	487.0	483.7	478.9
30°	468.4	468.3	467.1	465.1	463.2	462.4	460.6	456.9	453.8	451.4	448.4
32.5°	429.5	429.2	429.2	429.2	427.9	427.7	425.1	423.1	420.7	417.0	415.0
35°	392.4	392.2	392.4	389.1	388.3	387.6	387.4	386.0	382.7	381.0	379.3
37.5°	350.5	351.2	350.7	349.8	351.0	349.0	350.5	347.7	346.4	345.9	343.9
40°	312.8	314.5	312.8	313.0	314.1	312.1	312.1	311.8	310.9	310.4	310.0
42.5°	280.5	278.4	279.7	278.6	279.7	279.0	278.0	278.6	278.8	278.0	277.7
45°	248.1	248.5	249.0	248.3	248.3	247.6	249.3	248.3	248.3	248.5	247.0
47.5°	221.7	221.1	221.5	221.1	221.2	220.8	221.2	221.5	221.1	221.1	219.7
50°	196.8	196.4	198.0	196.6	196.6	196.4	196.6	196.2	195.6	195.6	196.0
52.5°	175.2	174.4	174.2	175.2	173.7	173.7	174.0	173.5	172.6	172.2	171.1
55°	155.2	155.0	155.2	154.4	153.9	153.9	152.8	152.4	152.1	151.1	150.4
57.5°	136.4	135.8	136.0	135.8	134.9	134.7	133.9	133.9	133.0	132.1	131.0
60°	118.6	118.6	119.2	118.3	117.7	117.3	116.8	116.4	114.9	113.3	112.0
62.5°	102.6	102.9	102.6	102.0	101.6	101.1	100.7	99.4	98.1	97.2	95.7
65°	88.7	88.5	87.8	87.4	86.3	86.3	85.4	84.8	83.3	82.0	80.4
67.5°	74.4	73.9	73.9	73.9	72.6	72.4	72.0	70.6	69.3	67.6	66.3
70°	61.3	61.7	61.0	60.4	59.7	59.5	58.9	57.5	56.0	54.3	53.1
72.5°	48.9	49.2	48.6	48.4	47.1	46.6	46.5	45.3	43.6	42.5	40.8
75°	37.5	37.7	37.3	36.8	35.9	35.8	34.7	33.8	32.7	30.9	29.4
77.5°	27.0	26.6	26.6	25.7	24.9	24.9	24.6	23.4	21.8	20.5	19.2
80°	17.2	17.0	16.3	15.9	15.2	15.1	14.8	13.7	12.7	11.8	10.9
82.5°	8.7	8.5	8.3	8.0	7.7	7.2	7.4	6.5	6.1	5.3	4.5
85°	2.6	2.9	2.9	2.6	2.4	2.4	2.4	2.1	1.8	1.5	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	578.6	578.7	578.9	579.2	579.2	579.4	579.6	579.8	580.1	580.1	580.3
5°	578.1	578.6	578.6	578.7	578.7	578.7	578.9	578.9	578.9	578.9	579.2
7.5°	578.3	578.3	578.3	578.1	578.1	577.8	577.8	577.8	577.4	577.4	577.4
10°	577.2	577.0	576.8	576.3	576.2	575.9	575.4	575.0	574.6	574.4	573.9
12.5°	575.0	574.2	573.3	572.4	572.0	571.8	570.9	570.3	569.6	568.9	568.5
15°	570.7	569.4	567.9	566.1	565.6	565.2	563.7	562.4	561.5	560.9	559.7
17.5°	562.0	559.3	557.6	555.0	553.9	553.4	551.1	549.8	548.2	547.8	546.9
20°	546.5	544.1	540.8	538.4	537.1	535.8	533.8	532.1	530.3	530.3	529.2
22.5°	527.1	524.0	519.9	516.9	516.6	514.0	512.2	510.3	509.6	508.3	508.3
25°	502.7	500.1	495.5	492.9	491.5	490.9	488.1	485.5	484.1	483.1	483.9
27.5°	475.7	471.7	468.3	465.0	463.9	462.5	460.0	458.9	456.5	456.2	456.0
30°	444.7	440.8	437.3	435.7	433.6	432.5	430.5	429.2	428.3	428.3	427.9
32.5°	412.2	408.7	407.0	403.7	402.6	401.1	399.8	398.4	398.9	398.4	398.7
35°	377.1	376.2	372.9	371.0	371.0	370.8	368.6	367.8	367.3	367.5	368.6
37.5°	343.8	341.2	339.0	337.6	338.8	337.4	337.3	337.3	338.5	337.6	339.4
40°	308.2	308.0	307.1	307.6	307.8	306.2	306.7	306.9	307.8	309.5	309.8
42.5°	277.2	277.1	277.1	277.1	276.6	275.7	276.6	278.1	278.0	279.2	280.4
45°	247.4	247.0	247.8	247.2	248.5	249.0	248.3	248.7	250.0	250.9	252.6
47.5°	220.2	220.2	220.3	220.8	219.5	220.6	221.1	221.9	222.6	223.0	223.8
50°	194.8	194.8	194.4	194.4	194.4	195.1	194.2	195.3	195.6	197.3	198.3
52.5°	171.6	170.5	171.1	170.7	169.8	169.3	169.8	170.1	171.3	171.7	173.1
55°	149.3	149.3	147.6	147.1	147.8	147.6	147.3	147.3	148.0	148.7	149.7
57.5°	129.7	128.4	127.1	126.9	126.2	126.4	126.4	126.2	125.7	126.0	126.2
60°	111.2	110.3	108.3	108.3	108.1	107.9	106.8	106.6	105.5	105.8	104.9
62.5°	94.2	93.7	91.1	90.2	90.2	89.6	88.5	88.3	86.8	86.8	85.9
65°	78.9	77.6	76.1	74.5	74.5	73.7	73.0	71.1	70.0	69.3	68.0
67.5°	64.9	63.0	61.4	60.2	59.3	59.0	57.5	56.3	54.5	53.4	51.5
70°	51.5	49.9	48.4	47.1	46.2	45.3	43.8	41.8	40.6	38.6	37.3
72.5°	38.8	37.5	36.2	34.4	33.4	32.7	31.2	29.4	27.3	25.9	24.2
75°	27.9	26.4	24.6	23.1	22.5	21.8	20.1	18.7	17.2	15.7	13.9
77.5°	18.1	16.3	15.1	13.3	13.1	12.7	10.9	9.6	8.5	7.7	6.5
80°	9.6	8.7	7.7	6.5	6.1	5.4	4.5	3.9	3.3	2.6	2.1
82.5°	4.1	3.5	2.9	2.4	2.1	2.0	1.5	1.3	1.1	1.1	0.9
85°	1.1	0.9	0.9	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	580.5	580.7	580.9	580.9	581.1	581.3	581.3	581.6	581.8	582.0	582.0
5°	579.4	579.4	579.4	579.6	579.6	579.6	579.6	580.1	580.1	580.3	580.5
7.5°	577.2	577.2	577.2	577.2	577.0	577.2	577.0	577.0	577.4	577.7	577.8
10°	573.7	573.5	573.5	573.3	573.3	573.3	573.5	573.7	573.9	574.2	574.8
12.5°	568.3	568.0	568.0	567.9	567.9	568.0	568.3	568.8	569.6	570.0	570.9
15°	559.6	559.3	559.6	559.7	560.2	560.9	561.5	562.2	563.5	564.6	565.6
17.5°	546.9	547.2	547.4	547.8	548.4	549.3	551.1	552.8	554.3	556.1	557.8
20°	529.5	530.3	530.6	532.1	532.5	534.5	536.5	539.1	541.5	543.6	546.0
22.5°	508.6	509.2	510.1	511.9	512.9	515.5	517.9	521.0	523.6	526.4	529.9
25°	484.8	485.0	487.6	487.6	490.3	492.4	495.3	498.5	502.4	506.2	508.6
27.5°	457.7	458.9	460.9	461.7	463.6	467.1	469.5	473.4	477.3	480.6	483.2
30°	429.5	430.3	433.6	434.0	435.5	438.6	441.9	445.5	448.6	452.3	454.7
32.5°	399.6	402.0	404.0	405.5	405.9	410.5	412.2	414.8	418.3	422.0	424.4
35°	370.6	371.7	374.5	375.3	376.7	379.3	382.7	385.0	386.7	389.1	391.9
37.5°	339.8	343.1	343.8	346.4	346.8	349.2	351.0	353.6	355.7	357.9	358.4
40°	311.3	312.4	314.8	315.4	315.9	319.2	321.3	321.9	323.1	325.0	327.6
42.5°	282.3	283.4	286.0	285.4	287.3	288.8	289.9	292.5	293.7	294.3	294.3
45°	253.7	254.1	255.9	256.8	257.9	258.8	260.7	262.0	262.4	264.4	265.0
47.5°	226.5	226.9	228.2	229.7	229.4	230.4	232.6	233.3	233.5	234.8	235.4
50°	199.7	200.7	202.5	202.1	203.4	204.0	206.0	206.4	206.4	206.6	206.9
52.5°	174.6	175.5	175.9	176.4	177.0	178.1	179.0	178.5	179.4	180.3	179.6
55°	149.7	150.4	151.5	152.0	152.0	152.1	151.7	153.6	152.8	152.6	152.8
57.5°	127.1	126.2	126.0	127.1	127.5	127.3	126.6	127.5	127.5	127.1	126.4
60°	105.0	104.4	104.2	104.4	103.5	102.9	103.4	102.9	101.8	101.4	101.6
62.5°	85.0	84.4	82.6	82.6	82.2	82.0	80.3	80.4	79.5	78.3	78.7
65°	66.5	64.7	63.8	63.7	62.2	60.8	60.4	58.9	57.5	57.3	57.5
67.5°	49.9	48.0	46.5	45.7	44.9	43.8	42.3	41.0	41.4	41.2	42.1
70°	34.7	33.4	31.8	30.8	31.2	29.9	29.0	29.0	29.2	29.4	29.9
72.5°	23.1	21.4	20.7	20.1	19.6	18.7	19.2	19.2	19.0	19.2	18.7
75°	13.1	12.2	11.6	11.3	10.9	10.9	10.9	10.9	10.7	10.4	10.4
77.5°	5.9	5.4	5.3	5.0	5.0	5.0	4.8	4.5	4.5	4.5	4.4
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.9	0.9	1.1	1.1	1.1	0.9	1.1	1.1	0.9	0.9	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	582.2	582.5	582.5	582.5	582.7	582.7	582.7	582.7
5°	580.7	580.9	580.9	580.9	581.1	581.1	581.1	581.1
7.5°	578.1	578.3	578.3	578.6	578.6	578.7	578.7	578.9
10°	575.0	575.4	575.7	575.9	576.2	576.3	576.3	576.6
12.5°	571.8	572.2	572.4	572.9	573.3	573.5	573.7	573.9
15°	567.0	567.9	568.3	568.5	569.4	569.8	570.0	570.3
17.5°	559.3	561.1	561.7	562.2	563.0	563.9	564.6	564.8
20°	548.4	550.4	551.3	552.3	553.7	554.8	555.2	555.6
22.5°	533.2	535.4	536.7	538.0	539.1	540.1	541.9	541.3
25°	511.4	515.1	516.6	517.3	519.7	521.0	521.8	521.0
27.5°	487.0	489.1	490.5	492.0	493.8	495.0	495.5	496.8
30°	457.6	461.2	461.0	462.5	464.8	466.0	466.5	467.5
32.5°	427.1	428.7	430.1	429.8	430.7	433.1	432.2	434.2
35°	394.5	394.8	396.9	396.7	398.4	398.4	398.4	399.8
37.5°	359.9	362.5	361.4	364.0	363.1	363.8	363.8	364.3
40°	328.3	329.1	329.1	330.0	330.7	330.0	330.5	331.5
42.5°	295.6	296.4	296.7	296.2	296.9	298.8	297.3	298.6
45°	265.0	265.7	266.6	265.9	267.0	266.4	267.0	266.6
47.5°	236.3	236.0	235.9	237.6	236.0	236.3	237.2	235.6
50°	206.9	208.1	207.3	208.0	208.4	208.4	207.8	207.8
52.5°	180.7	180.5	179.9	180.5	180.0	180.3	180.7	180.3
55°	153.6	154.5	154.1	153.9	154.1	154.1	155.4	153.6
57.5°	127.1	126.6	127.3	128.9	127.3	128.4	129.0	129.3
60°	101.8	101.8	103.1	102.5	103.8	104.9	105.8	105.3
62.5°	77.6	78.7	79.1	79.4	80.6	81.5	81.5	81.3
65°	57.5	59.0	59.0	59.9	60.4	60.4	60.8	61.7
67.5°	42.5	42.5	42.7	43.2	43.0	43.0	43.3	43.6
70°	29.6	29.2	29.9	29.6	29.6	29.4	29.6	29.6
72.5°	18.7	18.7	19.0	18.7	18.3	18.5	18.5	19.0
75°	10.0	10.4	10.0	10.0	10.3	9.8	10.0	10.3
77.5°	4.1	4.1	4.1	4.1	4.1	3.9	3.9	3.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.8
82.5°	0.9	1.1	0.9	1.1	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)