

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: P857019

Luminaire Tested: **LX4C15D010 EX4C159827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857019
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 EX4C159827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

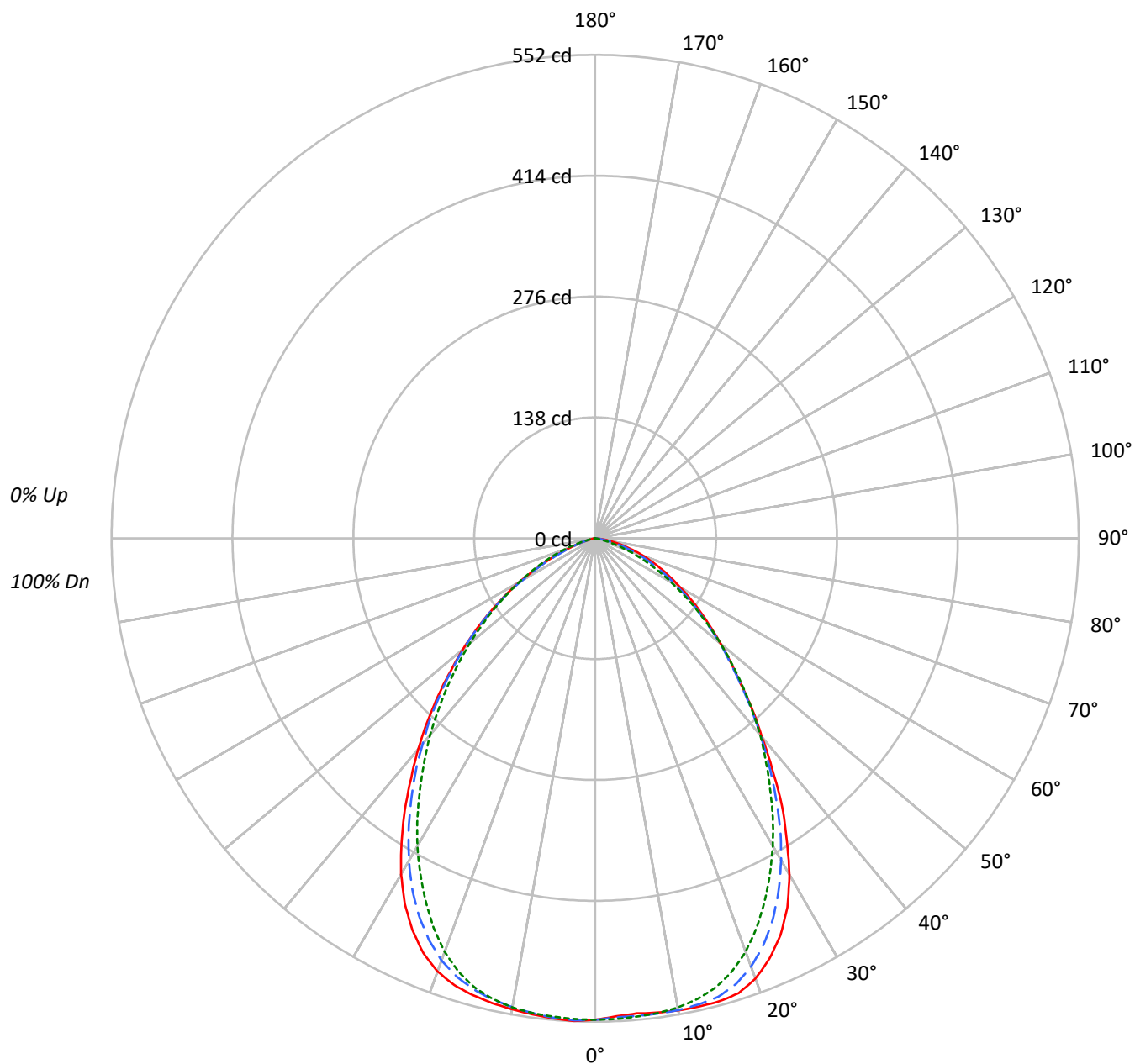
Lumens per Lamp: N/A
Luminaire Lumens: 1054.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67545	67545	67545
5°	67162	67618	67877
10°	68287	67863	68125
15°	69622	67562	68681
20°	69958	65670	68794
25°	67818	62016	66882
30°	62929	57552	62815
35°	55731	52192	56781
40°	47503	47022	50357
45°	40829	41281	43870
50°	35645	35702	37594
55°	31486	30158	31164
60°	27593	24595	24497
65°	24418	19070	16977
70°	20869	13147	10094
75°	16851	7073	4604
80°	11532	1769	1203
85°	3524	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	5.0
10°-20°	151.3	14.4
20°-30°	218.6	20.7
30°-40°	225.9	21.4
40°-50°	186.7	17.7
50°-60°	128.8	12.2
60°-70°	67.5	6.4
70°-80°	21.2	2.0
80°-90°	1.8	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°	422.1	40.0
0°-40°	648.0	61.5
0°-60°	963.5	91.4
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	550	550	550	550	550	
5°	545	547	548	549	550	52
15°	547	542	531	534	540	154
25°	500	480	458	476	493	228
35°	372	359	348	366	379	231
45°	235	234	238	248	252	183
55°	147	142	141	145	146	132
65°	84	76	66	54	58	83
75°	36	28	15	10	10	38
85°	2	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	546.3	546.5	546.5	546.9	546.9	546.9	547.1	547.1	547.4	547.5	547.7
5°	544.6	544.6	545.0	545.2	545.7	545.8	546.3	546.5	546.9	547.1	547.4
7.5°	546.3	546.3	546.5	546.7	546.7	546.9	546.9	547.1	547.4	547.5	547.5
10°	547.4	547.4	547.4	547.4	547.5	547.5	547.5	547.4	547.4	547.4	547.1
12.5°	547.7	547.7	547.5	547.4	547.5	547.4	547.4	546.7	546.3	545.8	545.2
15°	547.4	547.4	547.1	546.9	546.7	546.3	546.1	545.0	544.2	543.0	542.2
17.5°	544.6	544.2	543.8	543.4	542.5	541.9	541.6	539.7	538.3	536.1	533.9
20°	535.1	534.7	534.1	533.1	532.0	531.2	530.0	527.3	525.9	522.7	520.5
22.5°	519.6	519.3	519.4	517.6	515.5	514.3	513.5	511.1	508.7	504.8	502.3
25°	500.3	499.0	499.0	496.1	495.1	494.3	493.2	490.5	486.8	483.3	480.0
27.5°	475.0	473.4	472.5	472.2	469.7	467.8	466.4	464.3	461.2	458.1	453.5
30°	443.6	443.5	442.4	440.6	438.7	437.8	436.2	432.8	429.8	427.6	424.6
32.5°	406.7	406.5	406.5	406.5	405.3	405.0	402.6	400.7	398.4	395.0	393.1
35°	371.6	371.4	371.6	368.6	367.7	367.0	366.9	365.6	362.5	360.9	359.2
37.5°	332.0	332.6	332.2	331.4	332.4	330.6	332.0	329.3	328.1	327.6	325.8
40°	296.2	297.9	296.2	296.5	297.5	295.6	295.6	295.3	294.4	294.0	293.6
42.5°	265.7	263.6	264.8	263.9	264.8	264.2	263.2	263.9	264.0	263.2	263.1
45°	235.0	235.3	235.8	235.2	235.2	234.5	236.2	235.2	235.2	235.3	233.9
47.5°	210.0	209.4	209.7	209.4	209.6	209.1	209.6	209.7	209.4	209.4	208.1
50°	186.5	186.0	187.4	186.2	186.2	186.0	186.2	185.8	185.2	185.2	185.6
52.5°	166.0	165.2	165.0	166.0	164.5	164.5	164.8	164.3	163.5	163.1	162.0
55°	147.0	146.8	147.0	146.2	145.8	145.8	144.7	144.3	144.1	143.0	142.4
57.5°	129.2	128.6	128.9	128.6	127.8	127.6	126.8	126.8	125.9	125.1	124.0
60°	112.3	112.3	112.9	112.1	111.5	111.1	110.7	110.2	108.8	107.4	106.1
62.5°	97.2	97.5	97.2	96.6	96.2	95.8	95.4	94.2	92.9	92.1	90.6
65°	84.0	83.8	83.2	82.8	81.8	81.8	81.0	80.3	78.8	77.7	76.2
67.5°	70.4	70.0	70.0	70.0	68.8	68.6	68.1	66.9	65.6	64.0	62.8
70°	58.1	58.4	57.8	57.2	56.5	56.4	55.7	54.5	53.1	51.4	50.4
72.5°	46.3	46.6	46.0	45.8	44.6	44.1	44.0	43.0	41.3	40.2	38.6
75°	35.5	35.8	35.3	34.9	34.1	33.9	32.8	32.0	30.9	29.3	27.9
77.5°	25.6	25.1	25.1	24.3	23.5	23.5	23.4	22.1	20.7	19.4	18.2
80°	16.3	16.1	15.5	15.1	14.4	14.3	14.0	13.0	11.9	11.1	10.3
82.5°	8.3	8.0	7.8	7.7	7.2	6.8	7.0	6.2	5.8	5.0	4.4
85°	2.5	2.7	2.7	2.5	2.2	2.2	2.2	2.1	1.7	1.4	1.2
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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	547.9	548.2	548.3	548.5	548.5	548.8	549.0	549.1	549.4	549.4	549.6
5°	547.5	547.9	547.9	548.2	548.2	548.2	548.3	548.3	548.3	548.3	548.5
7.5°	547.7	547.7	547.7	547.5	547.5	547.4	547.4	547.4	546.9	546.9	546.9
10°	546.7	546.5	546.3	545.8	545.7	545.5	545.0	544.6	544.2	544.0	543.6
12.5°	544.6	543.8	543.0	542.2	541.7	541.6	540.7	540.0	539.5	538.9	538.4
15°	540.5	539.2	537.8	536.1	535.8	535.3	533.9	532.6	531.8	531.2	530.1
17.5°	532.3	529.8	528.1	525.6	524.6	524.2	521.9	520.7	519.3	518.8	518.0
20°	517.6	515.3	512.2	509.9	508.7	507.5	505.6	503.9	502.3	502.3	501.2
22.5°	499.2	496.3	492.4	489.5	489.3	486.8	485.2	483.3	482.7	481.5	481.5
25°	476.1	473.6	469.2	466.8	465.6	465.0	462.3	459.8	458.5	457.5	458.4
27.5°	450.5	446.8	443.5	440.3	439.4	438.1	435.6	434.5	432.3	432.1	431.9
30°	421.2	417.4	414.1	412.7	410.6	409.6	407.7	406.5	405.7	405.7	405.3
32.5°	390.4	387.1	385.4	382.4	381.3	379.9	378.6	377.4	377.8	377.4	377.6
35°	357.1	356.3	353.2	351.3	351.3	351.2	349.1	348.3	347.9	348.0	349.1
37.5°	325.6	323.1	321.0	319.8	320.8	319.6	319.4	319.4	320.6	319.8	321.5
40°	292.0	291.7	290.9	291.3	291.5	290.1	290.4	290.7	291.5	293.2	293.4
42.5°	262.6	262.4	262.4	262.4	262.0	261.2	262.0	263.4	263.2	264.5	265.5
45°	234.3	233.9	234.7	234.1	235.3	235.8	235.2	235.6	236.8	237.6	239.3
47.5°	208.5	208.5	208.8	209.1	207.9	208.9	209.4	210.2	210.8	211.2	212.1
50°	184.6	184.6	184.1	184.1	184.1	184.8	184.0	184.9	185.2	186.8	187.9
52.5°	162.5	161.4	162.0	161.7	160.9	160.4	160.9	161.0	162.3	162.7	163.9
55°	141.4	141.4	139.7	139.4	140.0	139.7	139.6	139.6	140.2	140.8	141.9
57.5°	122.9	121.6	120.4	120.1	119.5	119.8	119.8	119.5	119.1	119.3	119.5
60°	105.3	104.4	102.6	102.6	102.4	102.2	101.1	100.9	100.0	100.1	99.3
62.5°	89.2	88.8	86.3	85.4	85.4	84.9	83.8	83.6	82.1	82.1	81.3
65°	74.7	73.5	72.1	70.6	70.6	69.8	69.2	67.3	66.3	65.6	64.4
67.5°	61.5	59.7	58.2	57.0	56.2	55.9	54.5	53.2	51.6	50.6	48.7
70°	48.7	47.3	45.8	44.6	43.8	43.0	41.5	39.7	38.4	36.6	35.3
72.5°	36.7	35.5	34.2	32.6	31.6	30.9	29.5	27.9	25.8	24.6	22.9
75°	26.4	25.0	23.4	21.8	21.2	20.7	19.0	17.7	16.3	14.9	13.2
77.5°	17.1	15.5	14.3	12.6	12.4	11.9	10.3	9.1	8.0	7.2	6.2
80°	9.1	8.3	7.2	6.2	5.8	5.2	4.4	3.7	3.1	2.5	2.1
82.5°	3.9	3.3	2.7	2.2	2.1	1.9	1.4	1.2	1.1	1.1	0.8
85°	1.1	0.8	0.8	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	549.8	550.0	550.2	550.2	550.4	550.7	550.7	550.8	551.0	551.2	551.2
5°	548.8	548.8	548.8	549.0	549.0	549.0	549.0	549.4	549.4	549.6	549.8
7.5°	546.7	546.7	546.7	546.7	546.5	546.7	546.5	546.5	546.9	547.1	547.4
10°	543.4	543.2	543.2	543.0	543.0	543.0	543.2	543.4	543.6	543.8	544.4
12.5°	538.3	538.0	538.0	537.8	537.8	538.0	538.3	538.6	539.5	539.9	540.7
15°	530.0	529.8	530.0	530.1	530.6	531.2	531.8	532.5	533.7	534.7	535.8
17.5°	518.0	518.2	518.4	518.8	519.4	520.2	521.9	523.5	525.0	526.7	528.4
20°	501.5	502.3	502.5	503.9	504.4	506.2	508.1	510.5	512.8	514.9	517.1
22.5°	481.6	482.3	483.1	484.8	485.8	488.2	490.5	493.4	495.9	498.6	501.9
25°	459.2	459.3	461.8	461.8	464.3	466.4	469.1	472.2	475.8	479.4	481.6
27.5°	433.6	434.5	436.4	437.3	439.1	442.4	444.7	448.5	452.1	455.2	457.7
30°	406.7	407.5	410.6	411.1	412.5	415.4	418.5	422.0	424.9	428.4	430.6
32.5°	378.5	380.7	382.6	384.0	384.4	388.7	390.4	392.9	396.2	399.7	402.0
35°	351.0	352.0	354.6	355.5	356.8	359.2	362.5	364.6	366.2	368.6	371.2
37.5°	321.8	325.0	325.6	328.1	328.4	330.7	332.4	334.8	336.9	339.0	339.4
40°	294.8	295.9	298.1	298.7	299.2	302.2	304.4	305.0	306.0	307.8	310.3
42.5°	267.3	268.4	270.9	270.3	272.1	273.6	274.6	277.1	278.1	278.7	278.7
45°	240.3	240.7	242.4	243.2	244.2	245.1	246.9	248.2	248.5	250.4	251.0
47.5°	214.5	214.9	216.2	217.6	217.2	218.2	220.3	220.9	221.2	222.3	222.9
50°	189.1	190.1	191.8	191.4	192.6	193.2	195.1	195.5	195.5	195.7	195.9
52.5°	165.3	166.2	166.6	167.0	167.6	168.6	169.5	169.1	169.9	170.8	170.1
55°	141.9	142.4	143.5	143.9	143.9	144.1	143.7	145.5	144.7	144.6	144.7
57.5°	120.4	119.5	119.3	120.4	120.7	120.6	119.9	120.7	120.7	120.4	119.8
60°	99.5	98.9	98.7	98.9	98.1	97.5	97.8	97.5	96.4	96.0	96.2
62.5°	80.5	79.9	78.2	78.2	77.8	77.7	76.0	76.2	75.4	74.1	74.5
65°	63.0	61.4	60.5	60.3	58.9	57.6	57.2	55.7	54.5	54.3	54.5
67.5°	47.3	45.4	44.0	43.3	42.5	41.5	40.0	38.8	39.2	39.1	39.9
70°	32.8	31.6	30.1	29.1	29.5	28.3	27.5	27.5	27.6	27.9	28.3
72.5°	21.8	20.2	19.6	19.0	18.5	17.7	18.2	18.2	17.9	18.2	17.7
75°	12.4	11.6	11.0	10.7	10.3	10.3	10.3	10.3	10.1	9.9	9.9
77.5°	5.6	5.2	5.0	4.7	4.7	4.7	4.5	4.4	4.4	4.4	4.1
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.8	0.8	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	551.5	551.6	551.6	551.6	551.8	551.8	551.8	551.8
5°	550.0	550.2	550.2	550.2	550.4	550.4	550.4	550.4
7.5°	547.5	547.7	547.7	547.9	547.9	548.2	548.2	548.3
10°	544.6	545.0	545.2	545.5	545.7	545.8	545.8	546.1
12.5°	541.6	541.9	542.2	542.5	543.0	543.2	543.4	543.6
15°	537.0	537.8	538.3	538.4	539.2	539.7	539.9	540.0
17.5°	529.8	531.4	532.0	532.5	533.3	534.1	534.7	535.0
20°	519.4	521.3	522.1	523.2	524.4	525.4	525.9	526.2
22.5°	505.0	507.0	508.3	509.5	510.5	511.6	513.3	512.7
25°	484.3	487.9	489.3	489.9	492.2	493.4	494.3	493.4
27.5°	461.2	463.3	464.5	465.9	467.6	468.9	469.2	470.5
30°	433.4	436.9	436.7	438.1	440.2	441.4	441.8	442.8
32.5°	404.4	406.1	407.3	407.2	408.0	410.2	409.4	411.3
35°	373.6	373.9	376.0	375.8	377.4	377.4	377.4	378.6
37.5°	340.8	343.3	342.3	344.7	343.9	344.6	344.6	345.0
40°	311.0	311.8	311.8	312.6	313.2	312.6	313.0	314.0
42.5°	279.9	280.8	281.0	280.5	281.2	283.0	281.6	282.9
45°	251.0	251.6	252.5	251.9	252.9	252.3	252.9	252.5
47.5°	223.8	223.6	223.4	225.1	223.6	223.8	224.6	223.2
50°	195.9	197.2	196.4	197.0	197.3	197.3	196.7	196.7
52.5°	171.1	170.9	170.3	170.9	170.5	170.8	171.1	170.8
55°	145.5	146.3	146.0	145.8	146.0	146.0	147.2	145.5
57.5°	120.4	119.9	120.6	122.0	120.6	121.6	122.3	122.4
60°	96.4	96.4	97.6	97.0	98.3	99.3	100.1	99.7
62.5°	73.5	74.5	74.9	75.2	76.4	77.2	77.2	77.0
65°	54.5	55.9	55.9	56.8	57.2	57.2	57.6	58.4
67.5°	40.2	40.2	40.5	40.8	40.7	40.7	41.1	41.3
70°	28.1	27.6	28.3	28.1	28.1	27.9	28.1	28.1
72.5°	17.7	17.7	17.9	17.7	17.3	17.6	17.6	17.9
75°	9.5	9.9	9.5	9.5	9.7	9.3	9.5	9.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.7	3.7	3.7
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.7
82.5°	0.8	1.1	0.8	1.1	0.8	0.8	0.8	0.8
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)