

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: P684332

Luminaire Tested: **LX6C05D010 EX6C059027 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C05D010 EX6C059027 6LCSWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

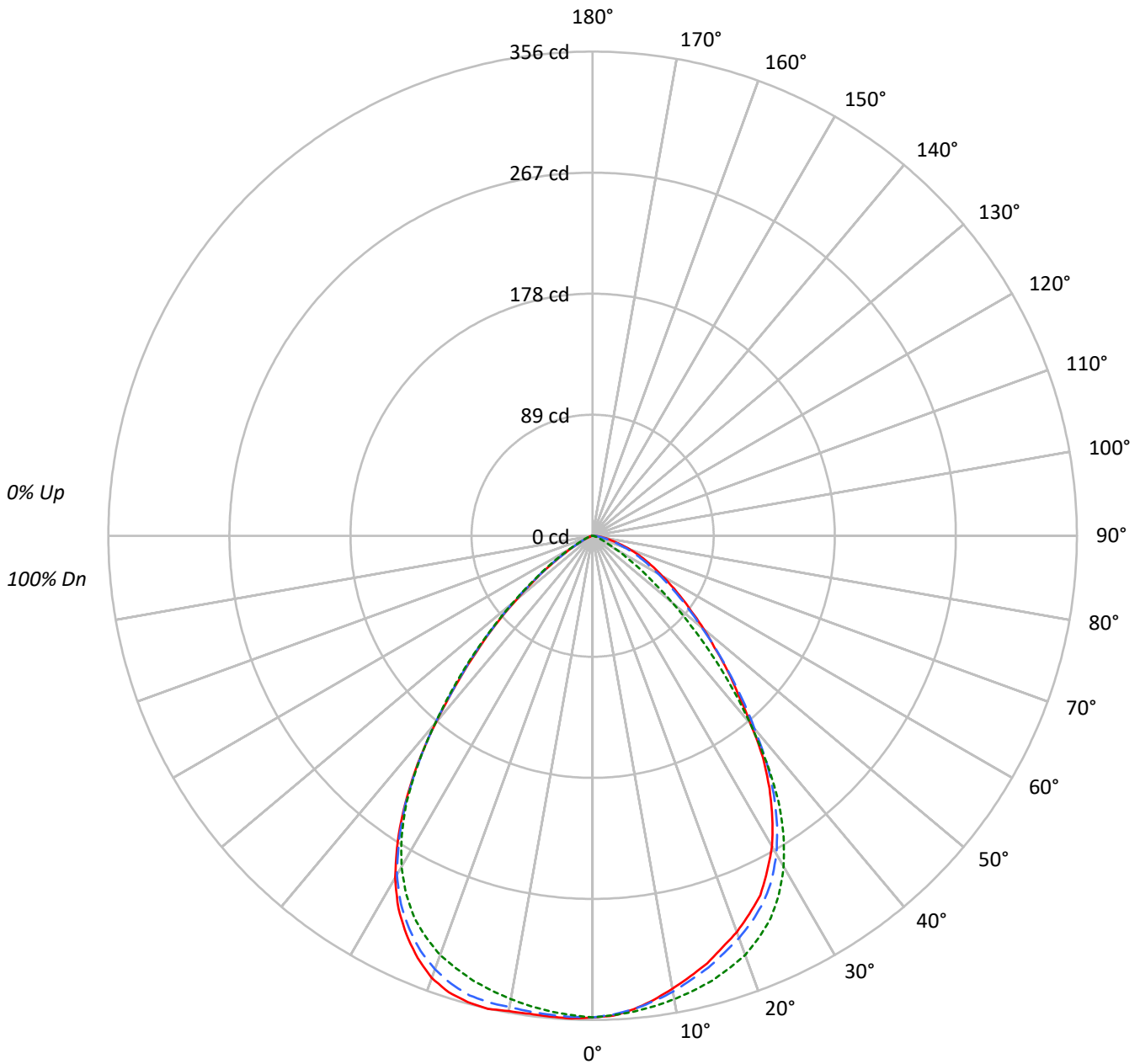
Lumens per Lamp: N/A
Luminaire Lumens: 594.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19412	19412	19412
5°	19227	19321	19530
10°	18826	19255	19756
15°	18468	19223	20142
20°	18085	19135	20179
25°	17638	18751	19580
30°	16699	17781	18376
35°	15165	15941	16082
40°	12946	12881	12824
45°	10877	9644	9350
50°	9083	6524	6200
55°	7646	4005	3641
60°	6469	2105	1831
65°	5604	1116	882
70°	4664	689	481
75°	3452	445	275
80°	2715	284	126
85°	2139	252	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	5.6
10°-20°	95.5	16.1
20°-30°	141.1	23.8
30°-40°	145.4	24.5
40°-50°	100.4	16.9
50°-60°	49.5	8.3
60°-70°	20.1	3.4
70°-80°	7.2	1.2
80°-90°	1.5	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°	270.0	45.5
0°-40°	415.4	69.9
0°-60°	565.3	95.2
0°-90°	594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	354	354	354	354	354	
5°	349	349	351	354	355	33
15°	325	329	339	350	355	92
25°	292	297	310	319	324	133
35°	227	232	238	240	240	140
45°	140	141	124	123	121	108
55°	80	77	42	39	38	72
65°	43	39	9	7	7	43
75°	16	14	2	1	1	18
85°	3	3	0	0	0	4
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°	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1
2.5°	353.2	351.9	352.8	351.1	353.2	351.1	351.5	351.9	351.5	351.9	352.3
5°	349.4	348.1	349.4	347.2	349.4	348.1	348.1	348.5	348.5	348.9	349.4
7.5°	344.2	342.9	344.2	342.1	344.6	343.4	343.4	344.2	343.8	344.2	345.1
10°	338.2	336.5	337.8	336.5	339.1	337.4	338.2	338.2	338.2	339.5	340.4
12.5°	331.8	330.1	331.8	329.7	332.2	331.0	331.4	332.7	333.1	334.0	334.4
15°	325.4	323.3	324.1	322.8	325.4	324.1	324.6	326.3	326.3	327.6	328.8
17.5°	317.3	315.6	317.3	315.6	317.7	316.9	317.7	319.0	319.0	320.3	321.6
20°	310.0	308.3	309.6	308.3	310.9	309.6	310.0	311.7	312.1	313.4	314.7
22.5°	301.0	299.7	300.6	299.3	301.9	301.0	301.5	303.2	303.6	304.5	306.6
25°	291.6	289.1	290.3	289.5	292.1	290.8	291.6	293.3	294.2	295.5	297.2
27.5°	277.9	276.7	277.5	277.5	279.6	278.4	278.8	280.5	281.8	283.1	285.2
30°	263.8	261.7	262.6	263.0	264.7	263.8	264.7	266.4	266.8	268.5	270.2
32.5°	245.9	245.0	246.7	245.9	246.7	246.7	247.2	248.4	249.3	250.2	252.3
35°	226.6	224.9	226.6	225.8	227.9	226.6	227.9	229.2	229.2	230.9	232.2
37.5°	205.7	203.5	204.4	204.4	205.2	204.8	204.8	207.0	207.4	208.7	210.0
40°	180.9	180.0	181.7	181.3	181.7	181.7	182.2	183.4	184.3	184.7	185.2
42.5°	158.6	159.1	159.5	159.5	159.5	159.5	159.5	161.2	160.8	162.1	162.5
45°	140.3	138.5	139.4	139.0	140.3	139.0	140.3	141.5	140.7	142.0	141.1
47.5°	121.4	121.4	121.4	121.0	121.9	121.4	122.3	122.7	122.7	122.7	122.3
50°	106.5	105.2	105.6	105.6	106.0	105.6	106.5	106.9	106.9	106.0	104.3
52.5°	91.9	91.5	91.5	92.4	92.4	91.9	91.9	91.9	91.9	90.7	89.8
55°	80.0	79.1	79.5	79.5	79.5	79.5	80.0	79.5	79.5	78.2	77.0
57.5°	69.3	68.4	68.4	68.4	68.8	68.4	68.4	68.4	68.0	66.7	65.0
60°	59.0	58.6	59.0	59.0	59.4	59.0	59.0	59.0	58.2	56.9	55.2
62.5°	50.5	50.5	50.5	50.9	50.9	50.5	50.5	50.0	49.6	47.9	46.2
65°	43.2	42.8	43.2	43.2	43.6	43.6	43.2	42.8	42.3	40.6	38.9
67.5°	35.9	35.5	35.9	35.9	36.3	35.9	35.9	35.9	34.6	33.8	32.1
70°	29.1	28.7	28.7	28.7	29.1	28.2	28.7	28.7	27.8	26.5	24.8
72.5°	22.2	22.2	22.2	22.2	22.2	22.2	21.8	21.8	21.0	19.7	18.8
75°	16.3	16.3	16.7	16.7	16.3	16.3	16.3	15.8	15.4	14.5	13.7
77.5°	12.0	12.0	12.0	12.0	11.5	11.5	11.5	11.1	10.7	10.3	9.4
80°	8.6	8.6	8.6	8.1	8.6	8.1	8.1	8.1	7.3	6.8	6.4
82.5°	6.0	5.6	5.6	5.6	5.6	5.6	5.6	5.1	5.1	4.7	4.3
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.0	2.6	2.6
87.5°	1.7	2.1	2.1	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.3
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1
2.5°	352.3	352.3	353.2	351.9	354.1	352.8	352.3	354.5	353.2	352.8	353.6
5°	349.4	349.8	350.2	349.4	351.5	350.2	350.2	352.3	351.5	351.1	352.3
7.5°	345.5	345.9	346.8	346.4	348.1	347.2	347.7	349.8	348.9	348.9	350.2
10°	340.8	341.7	342.5	342.5	344.6	343.8	343.8	346.4	345.5	345.9	347.7
12.5°	335.2	336.5	337.8	338.2	340.4	339.1	339.5	342.5	342.1	342.5	344.2
15°	329.3	331.0	332.2	332.2	334.8	333.5	334.8	337.8	337.0	338.7	340.8
17.5°	322.4	324.1	325.8	326.3	328.8	328.0	329.7	332.7	332.7	333.5	336.1
20°	316.0	318.1	319.0	320.3	322.8	322.4	323.3	326.7	326.7	328.0	330.5
22.5°	307.5	309.6	311.3	312.6	314.7	314.7	316.0	319.0	319.0	319.8	322.4
25°	298.0	300.6	301.9	303.2	305.3	304.9	306.2	308.7	309.2	310.0	312.6
27.5°	286.1	288.2	289.9	290.8	293.8	292.1	293.3	296.3	295.9	296.8	298.9
30°	271.1	273.2	275.0	275.0	277.5	277.5	278.8	280.1	280.1	280.9	282.7
32.5°	253.6	256.1	256.1	257.4	259.1	257.4	259.1	260.8	260.0	261.3	262.6
35°	233.5	234.8	235.2	235.2	236.5	236.0	235.6	236.9	236.0	238.2	239.5
37.5°	209.1	210.8	210.0	210.8	210.4	209.1	209.1	211.2	209.5	210.0	211.2
40°	185.6	185.6	185.2	183.0	183.4	182.2	181.7	182.2	180.5	180.0	181.7
42.5°	161.2	160.8	159.5	156.5	156.9	154.8	153.1	153.1	152.2	151.8	152.2
45°	139.4	138.1	136.0	132.6	131.7	130.0	126.6	125.7	124.4	124.4	124.9
47.5°	119.3	117.6	114.2	110.3	108.2	106.0	102.6	101.3	99.2	98.3	99.2
50°	102.6	99.6	95.4	89.8	87.7	85.1	81.7	79.5	77.4	76.5	76.1
52.5°	87.2	83.0	78.7	71.8	70.1	67.6	62.9	60.7	58.6	56.9	56.9
55°	74.0	70.1	64.1	57.7	55.2	52.6	47.9	44.9	42.8	41.9	41.1
57.5°	62.0	57.7	52.2	45.3	42.8	40.2	35.5	32.5	30.4	29.1	28.2
60°	52.2	47.5	41.9	35.9	32.9	30.4	25.7	22.7	20.5	19.2	18.4
62.5°	42.8	38.9	33.4	27.8	25.2	22.7	18.8	15.8	13.7	12.8	11.5
65°	35.9	32.1	26.9	22.2	20.1	17.5	14.1	11.5	9.8	8.6	7.7
67.5°	29.1	26.1	21.8	17.5	15.4	13.7	10.7	8.6	6.8	6.0	5.6
70°	23.1	20.1	16.7	13.2	12.0	10.3	8.1	6.0	5.1	4.3	3.8
72.5°	17.1	15.0	12.4	9.8	8.6	7.7	5.6	4.7	3.4	3.0	2.6
75°	12.4	10.7	9.0	6.8	6.0	5.6	4.3	3.0	2.6	2.1	1.7
77.5°	8.6	7.7	6.0	4.7	4.3	3.8	3.0	2.1	1.7	1.3	1.3
80°	5.6	4.7	3.8	3.0	3.0	2.6	1.7	1.3	1.3	0.9	0.9
82.5°	3.4	3.0	2.6	2.1	1.7	1.7	1.3	0.9	0.9	0.4	0.4
85°	2.1	1.7	1.3	1.3	0.9	0.9	0.9	0.4	0.4	0.4	0.4
87.5°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1
2.5°	353.6	353.6	354.5	353.2	354.1	354.1	354.9	353.2	354.1	354.5	355.3
5°	351.9	352.3	353.2	352.8	353.2	353.2	354.1	351.9	353.6	353.6	354.9
7.5°	350.2	350.2	351.1	350.6	351.5	351.9	352.8	351.1	352.8	352.8	354.1
10°	348.1	348.1	349.4	348.9	350.2	350.6	351.9	350.2	351.9	352.3	353.6
12.5°	345.1	345.5	346.8	346.8	348.1	348.9	350.2	349.4	351.5	351.9	353.6
15°	341.7	342.5	344.2	343.8	345.1	346.4	348.1	346.8	349.8	350.6	352.3
17.5°	337.4	338.2	339.5	339.5	340.8	341.7	343.8	342.9	345.5	345.9	348.1
20°	331.0	332.2	334.0	333.5	334.8	335.7	337.4	336.5	339.1	339.9	342.1
22.5°	323.3	324.1	325.4	325.4	326.7	327.6	329.3	328.0	330.5	331.0	332.7
25°	313.0	313.9	314.7	315.2	316.4	316.9	317.7	316.9	319.0	319.4	321.6
27.5°	299.7	300.2	301.5	301.5	302.3	302.7	304.0	302.3	305.3	305.3	306.6
30°	283.9	283.5	285.2	284.4	285.2	285.2	286.5	285.6	287.8	286.9	288.2
32.5°	263.0	263.8	263.8	263.0	264.7	264.3	264.3	263.4	264.7	265.1	266.0
35°	238.6	239.9	239.9	240.3	240.8	239.5	239.9	237.3	239.5	239.9	240.3
37.5°	212.1	210.8	211.7	210.4	212.5	210.0	210.0	208.3	210.0	210.0	210.4
40°	181.7	181.3	182.2	181.3	180.9	180.5	179.6	178.3	180.0	179.2	180.5
42.5°	153.1	152.6	152.6	151.8	151.4	151.4	150.5	149.7	149.2	149.2	151.4
45°	123.6	124.4	123.6	123.2	124.0	123.2	123.6	121.9	122.7	121.9	122.7
47.5°	98.8	99.2	98.3	97.5	98.8	97.5	97.5	96.2	97.9	97.9	97.1
50°	76.5	76.1	75.3	76.1	75.7	75.7	75.7	74.4	75.3	74.0	74.8
52.5°	56.4	56.0	56.0	55.6	56.0	55.6	55.6	55.2	55.2	54.7	55.2
55°	41.1	40.6	39.8	39.8	39.8	40.2	39.8	39.3	39.3	38.9	39.3
57.5°	27.8	26.9	26.9	26.9	26.9	26.5	26.5	26.1	26.5	26.1	26.5
60°	18.0	18.0	17.1	17.1	17.1	17.1	17.1	16.7	17.1	17.1	17.1
62.5°	11.1	11.1	10.7	10.3	10.7	10.3	10.3	10.3	10.7	10.3	10.7
65°	7.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	5.1	4.7	4.7	4.7	4.7	4.7	4.7	4.3	4.7	4.7	4.7
70°	3.4	3.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P684332

CATALOG NUMBER: LX6C05D010 EX6C059027 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	354.1	354.1	354.1	354.1	354.1	354.1	354.1	354.1
2.5°	354.1	354.5	353.6	354.1	353.2	354.1	354.5	355.3
5°	353.2	353.6	352.8	353.6	352.8	353.6	354.1	354.9
7.5°	352.3	353.2	352.3	353.2	352.3	353.2	353.6	354.5
10°	352.3	353.6	352.8	354.1	352.8	353.6	354.5	354.9
12.5°	352.3	353.6	353.2	354.1	353.6	354.5	355.3	356.2
15°	351.5	352.8	351.9	353.2	352.8	353.2	354.9	354.9
17.5°	346.8	348.1	348.1	348.9	348.9	350.2	351.1	351.9
20°	340.8	342.1	341.7	342.9	342.9	344.2	345.1	345.9
22.5°	331.8	333.5	333.1	334.4	334.0	334.8	336.5	336.1
25°	320.3	322.4	322.0	322.8	322.4	322.4	323.3	323.7
27.5°	306.2	307.5	307.0	307.9	307.0	307.9	308.7	309.2
30°	287.8	288.6	288.2	288.6	288.2	289.1	289.5	290.3
32.5°	265.5	266.8	265.5	266.4	266.0	266.0	267.7	266.8
35°	239.0	239.5	239.9	239.9	239.0	239.5	240.3	240.3
37.5°	209.5	211.7	209.1	210.4	210.0	210.0	210.0	211.2
40°	178.7	179.2	178.3	178.3	178.3	177.9	179.6	179.2
42.5°	149.7	150.1	149.7	148.4	148.8	148.8	150.1	148.4
45°	121.4	122.3	121.9	121.9	121.0	121.0	121.4	120.6
47.5°	96.2	97.1	95.8	96.2	95.4	96.2	95.8	96.6
50°	73.1	74.0	73.6	74.0	74.0	73.1	74.4	72.7
52.5°	54.7	55.2	54.7	54.3	53.9	53.9	54.7	54.3
55°	38.9	38.5	38.5	38.5	38.9	38.9	38.5	38.1
57.5°	26.1	26.1	25.7	25.7	26.1	25.2	25.7	25.2
60°	16.7	16.7	16.7	16.7	16.3	16.7	16.7	16.7
62.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	4.3	4.7	4.7	4.7	4.3	4.3	4.3	4.3
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
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)