

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: P685055

Luminaire Tested: **LX6C05D010 EX6059040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C05D010 EX6059040 6LCSWLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

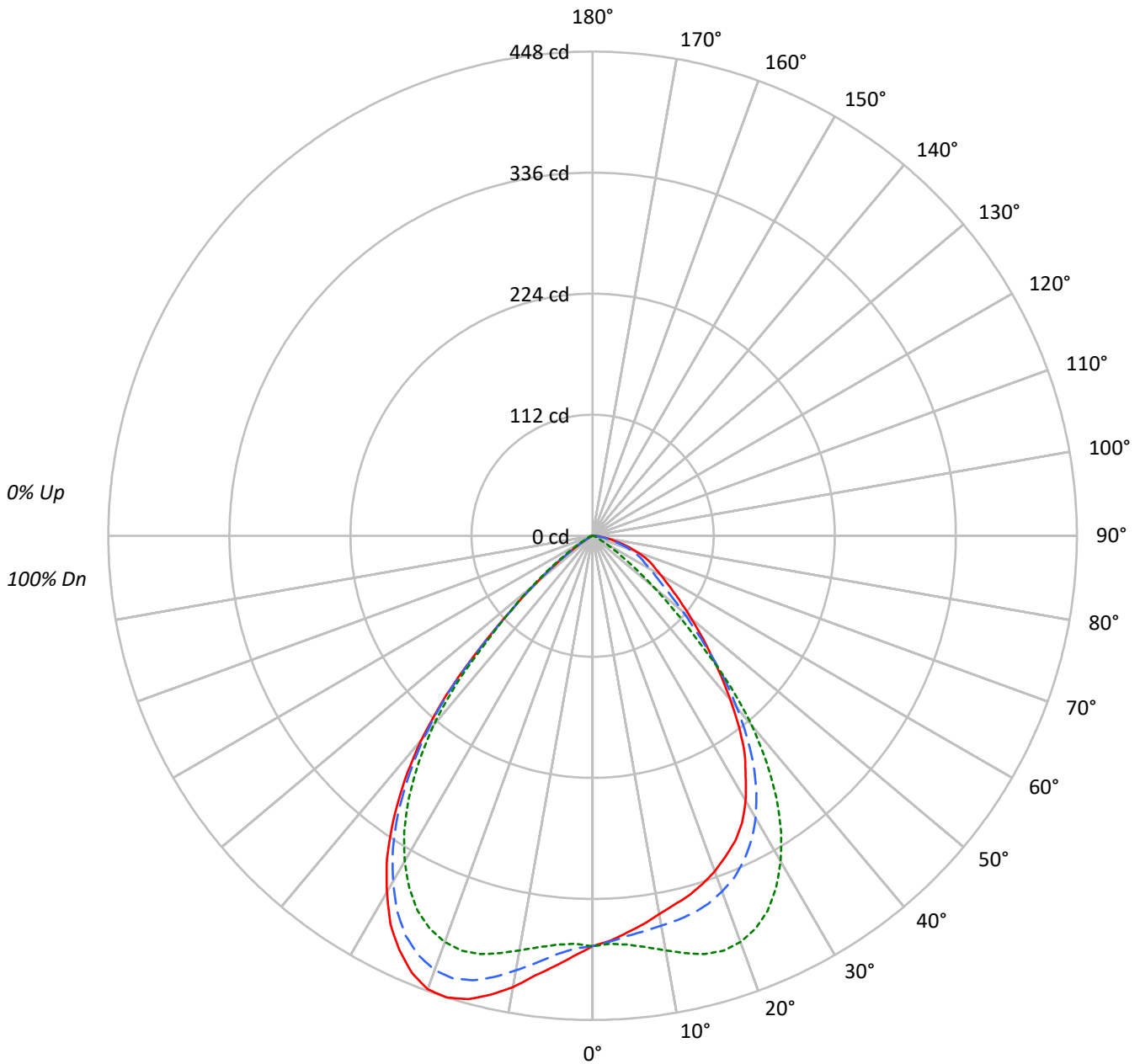
Lumens per Lamp: N/A
Luminaire Lumens: 694.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20815	20815	20815
5°	20273	20895	21990
10°	19778	21682	23602
15°	19552	22741	25193
20°	19269	23335	26048
25°	18860	23161	25580
30°	17920	22010	24080
35°	16396	19843	21496
40°	14184	16388	17640
45°	11962	10753	11536
50°	10157	6226	5851
55°	8812	2982	2256
60°	7960	1392	559
65°	7718	804	182
70°	6924	641	176
75°	5698	466	85
80°	4230	221	0
85°	3648	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	5.3
10°-20°	111.8	16.1
20°-30°	170.8	24.6
30°-40°	178.6	25.7
40°-50°	115.9	16.7
50°-60°	46.0	6.6
60°-70°	21.8	3.1
70°-80°	10.4	1.5
80°-90°	2.1	0.3
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°	319.2	46.0
0°-40°	497.8	71.7
0°-60°	659.7	95.1
0°-90°	694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	380	380	380	380	380	
5°	368	372	380	389	400	35
15°	344	361	401	426	444	97
25°	312	331	383	409	423	143
35°	245	260	296	314	321	152
45°	154	153	139	147	149	120
55°	92	78	31	24	24	84
65°	60	49	6	1	1	58
75°	27	22	2	1	0	29
85°	6	4	0	0	0	7
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°	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7
2.5°	375.0	375.7	371.7	370.6	373.5	374.6	375.0	373.9	374.2	375.7	375.7
5°	368.4	369.1	365.5	364.4	367.3	368.1	369.1	368.8	369.9	372.0	371.7
7.5°	362.3	363.3	359.3	357.9	361.5	363.3	364.1	364.1	365.5	368.4	368.8
10°	355.3	356.8	353.2	352.4	356.4	358.3	358.6	359.3	361.5	365.5	366.2
12.5°	349.6	351.0	348.5	347.4	351.7	353.5	354.3	355.7	358.3	363.3	364.1
15°	344.5	345.6	342.6	341.9	346.3	348.5	348.8	351.0	354.3	360.1	361.2
17.5°	337.9	338.7	336.5	335.8	340.1	342.3	342.6	345.2	349.2	355.0	356.8
20°	330.3	331.0	328.9	328.1	332.5	335.0	335.4	337.6	342.3	348.5	350.3
22.5°	321.2	322.7	320.2	319.4	323.8	325.9	327.0	328.9	333.6	339.7	342.3
25°	311.8	311.8	310.0	309.6	313.6	316.2	315.8	318.3	323.0	329.2	331.4
27.5°	299.5	299.1	297.3	296.9	301.3	303.5	302.7	305.3	309.6	315.8	318.0
30°	283.1	283.8	281.3	280.6	284.2	287.8	287.5	290.0	294.4	300.2	301.6
32.5°	263.5	264.2	263.9	262.8	266.1	267.9	269.0	270.8	274.4	280.6	282.0
35°	245.0	243.9	242.5	242.5	245.7	248.6	247.5	249.7	253.4	259.5	259.9
37.5°	222.1	221.8	221.1	220.3	224.0	224.7	225.0	226.5	229.8	234.8	234.1
40°	198.2	198.5	198.2	196.7	198.9	201.8	201.4	202.2	205.1	208.7	207.6
42.5°	175.7	175.7	175.7	174.2	176.8	178.2	179.0	178.6	179.3	182.6	181.1
45°	154.3	154.6	154.3	153.9	154.3	155.0	154.3	153.9	153.9	155.0	152.8
47.5°	135.8	135.8	134.7	133.6	134.7	135.0	133.9	132.9	132.5	132.1	128.5
50°	119.1	118.7	118.3	116.5	117.6	118.0	116.5	115.8	114.3	112.5	108.2
52.5°	104.5	104.2	103.8	102.0	102.7	103.1	101.6	100.2	98.4	96.9	91.5
55°	92.2	91.8	91.8	90.8	90.0	90.8	89.3	88.2	85.7	83.8	78.4
57.5°	81.7	81.7	80.9	79.9	80.2	80.2	78.8	77.3	75.1	73.0	68.6
60°	72.6	72.6	72.6	71.5	71.5	71.5	70.8	69.3	67.5	65.3	61.0
62.5°	65.3	65.3	65.0	63.9	64.2	64.2	63.5	62.1	60.3	58.8	54.4
65°	59.5	59.5	59.5	58.4	58.4	58.8	58.1	56.6	55.2	53.4	49.4
67.5°	52.3	51.9	51.9	51.2	51.5	51.9	51.2	50.1	48.3	47.2	43.6
70°	43.2	43.6	43.9	42.8	43.2	43.2	42.8	41.7	40.7	39.6	36.3
72.5°	35.2	35.2	34.8	34.5	34.5	34.8	34.1	33.0	32.3	31.6	29.0
75°	26.9	26.5	26.9	26.1	26.1	26.1	25.4	25.0	24.7	23.6	21.8
77.5°	19.6	19.2	19.2	18.5	18.9	18.9	18.5	17.8	17.1	16.7	15.2
80°	13.4	13.4	13.4	13.1	13.1	12.7	12.7	12.3	11.6	11.3	10.5
82.5°	9.1	9.1	9.1	8.7	8.7	8.7	8.3	8.0	7.6	7.3	6.5
85°	5.8	5.8	5.8	5.4	5.4	5.4	5.1	5.1	4.7	4.4	3.6
87.5°	3.3	3.3	3.3	2.9	2.9	2.9	2.9	2.9	2.5	2.2	1.8
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°	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7
2.5°	378.2	373.1	376.4	376.4	375.3	378.2	380.0	381.5	381.1	377.9	377.5
5°	375.3	371.0	374.6	375.0	373.9	377.9	380.4	382.2	382.6	379.7	380.0
7.5°	373.1	369.5	374.2	375.7	375.3	379.0	381.9	384.7	386.2	384.0	384.4
10°	372.0	369.1	374.2	376.4	376.8	380.8	385.1	389.1	390.9	389.5	390.6
12.5°	370.6	368.8	374.6	377.9	379.3	383.3	388.7	393.5	396.4	395.6	397.8
15°	369.1	367.7	374.6	379.3	381.1	384.7	390.9	397.8	401.1	400.7	403.6
17.5°	365.5	365.2	372.4	377.5	380.0	384.4	390.2	398.5	401.8	402.5	406.2
20°	359.7	359.7	367.7	373.1	376.0	380.0	387.3	395.3	399.3	400.0	404.0
22.5°	351.7	352.4	360.1	365.5	369.9	372.8	380.4	388.7	392.4	393.5	397.8
25°	341.2	341.9	349.2	354.6	359.3	362.6	369.9	377.5	381.9	382.9	386.2
27.5°	327.4	328.9	335.8	341.2	345.2	347.4	355.0	363.0	366.2	367.3	370.6
30°	311.4	311.8	318.7	323.4	327.4	329.2	335.8	344.1	346.6	347.7	352.4
32.5°	291.8	291.5	298.0	302.4	305.6	307.8	314.7	320.2	322.7	324.5	327.0
35°	268.2	267.9	272.6	277.7	280.2	280.9	287.8	293.6	295.1	296.5	299.8
37.5°	241.7	241.7	245.7	248.3	251.2	252.3	255.5	262.1	264.6	264.2	266.8
40°	213.8	212.3	215.2	217.8	218.5	218.9	222.1	227.2	229.0	229.0	230.8
42.5°	184.4	182.2	182.6	184.0	184.7	182.2	184.4	187.7	186.6	188.0	188.4
45°	153.2	149.9	148.5	145.2	145.9	143.4	141.9	142.6	142.3	138.7	139.4
47.5°	127.8	122.0	119.4	114.7	113.6	110.7	108.9	105.6	102.7	102.7	100.9
50°	106.4	100.5	95.5	90.0	88.2	85.7	81.7	77.3	75.1	73.0	71.1
52.5°	89.3	83.1	76.9	71.1	68.6	65.3	59.9	55.5	51.5	49.4	47.2
55°	75.5	68.6	62.1	55.9	52.6	49.4	43.9	38.8	34.1	31.2	29.4
57.5°	65.0	58.4	51.5	45.0	42.1	38.5	32.7	27.2	22.9	19.6	17.8
60°	57.4	50.8	44.7	37.7	34.8	31.2	25.0	20.0	15.6	12.7	10.5
62.5°	50.8	45.0	38.5	32.3	29.4	25.8	20.0	14.9	10.9	8.0	6.2
65°	46.1	40.3	34.8	28.7	26.1	22.5	17.1	12.3	8.7	6.2	4.4
67.5°	40.7	35.6	30.1	25.0	22.5	19.6	14.5	10.5	7.3	5.1	3.6
70°	34.1	30.1	25.4	20.7	18.9	16.3	12.0	8.7	5.8	4.0	2.9
72.5°	27.2	24.0	20.3	16.7	15.2	12.7	9.8	6.9	4.4	2.9	2.2
75°	20.7	18.1	15.2	12.7	11.3	9.8	7.3	5.1	3.3	2.2	1.4
77.5°	14.2	13.1	10.9	8.7	8.0	6.9	4.7	3.3	2.2	1.4	0.7
80°	9.8	8.7	7.3	5.8	5.1	4.4	2.9	2.2	1.1	0.7	0.4
82.5°	6.2	5.1	4.4	3.6	3.3	2.5	1.8	1.1	0.7	0.4	0.4
85°	3.3	2.9	2.5	1.8	1.8	1.4	1.1	0.7	0.4	0.0	0.0
87.5°	1.8	1.4	1.1	0.7	0.7	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	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°	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7
2.5°	381.9	381.9	381.5	385.8	380.8	385.8	383.3	385.8	382.2	381.9	382.2
5°	384.7	385.8	386.2	390.2	385.5	391.7	389.5	391.7	389.1	389.8	390.9
7.5°	390.6	392.4	392.0	397.1	392.4	399.3	397.8	401.1	398.5	399.3	400.7
10°	397.1	399.3	399.6	404.7	400.4	408.7	406.9	410.5	408.4	409.4	411.3
12.5°	404.7	407.3	407.6	413.4	408.7	417.4	416.3	420.0	418.1	419.2	421.4
15°	410.5	414.1	414.9	420.7	415.6	424.7	424.0	428.7	425.8	427.6	429.4
17.5°	413.4	416.7	418.1	423.6	419.2	428.3	427.6	431.6	429.4	431.2	433.4
20°	411.6	415.6	416.7	422.1	417.8	426.9	425.8	429.8	427.6	429.0	431.2
22.5°	405.1	409.1	410.5	415.6	411.6	420.0	419.6	423.2	420.3	422.1	424.0
25°	393.5	397.8	398.5	403.3	398.9	407.6	406.9	410.9	408.7	409.8	412.3
27.5°	376.8	381.9	382.9	386.9	383.7	390.9	390.9	394.2	391.7	391.7	394.2
30°	356.8	361.9	362.6	365.9	363.0	369.5	369.9	373.1	369.1	371.3	371.7
32.5°	332.5	335.8	337.9	340.8	336.5	344.8	343.7	346.3	344.1	344.1	345.9
35°	303.1	307.1	308.2	311.8	308.2	314.7	314.7	316.2	314.0	314.0	316.9
37.5°	271.1	274.1	274.4	278.0	275.1	280.6	280.2	281.3	279.1	280.6	280.6
40°	233.8	235.9	236.7	238.5	238.1	242.1	241.7	242.5	241.4	241.7	242.5
42.5°	190.2	193.1	194.6	196.0	193.8	199.3	198.2	199.3	198.9	199.3	200.4
45°	140.1	142.3	143.4	143.7	143.0	146.3	148.8	146.6	147.0	146.3	147.7
47.5°	101.3	101.6	100.9	103.1	101.3	102.7	103.5	103.8	101.6	101.3	102.7
50°	69.3	71.1	68.6	69.7	69.3	70.8	70.1	70.4	68.2	69.3	68.6
52.5°	46.1	45.7	45.0	45.4	44.7	44.7	44.7	45.4	43.9	43.2	42.5
55°	28.0	27.2	25.8	25.4	25.4	25.8	25.0	24.3	24.3	24.0	24.0
57.5°	16.3	15.2	14.5	14.2	13.4	13.1	12.7	12.7	12.0	12.0	12.0
60°	9.1	8.0	7.3	6.5	6.5	6.2	5.8	5.4	5.4	5.4	5.1
62.5°	4.7	4.0	3.3	2.9	2.9	2.5	2.2	2.2	2.2	2.2	1.8
65°	3.3	2.5	2.2	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	2.5	2.2	1.8	1.4	1.4	1.4	1.1	1.1	1.1	1.1	1.1
70°	2.2	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
80°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	379.7	379.7	379.7	379.7	379.7	379.7	379.7	379.7
2.5°	385.5	385.1	385.5	386.2	384.7	389.1	386.9	389.1
5°	393.8	394.2	394.6	395.6	393.8	399.3	396.4	399.6
7.5°	404.7	405.1	405.4	406.5	405.4	410.9	407.6	410.5
10°	416.0	416.7	416.7	418.5	417.4	422.5	420.3	424.0
12.5°	426.5	427.2	428.0	429.0	428.3	433.8	431.9	434.8
15°	434.8	436.3	436.7	438.1	437.4	443.2	441.0	443.9
17.5°	438.8	440.3	440.3	442.1	441.4	447.5	444.6	447.9
20°	436.7	437.8	438.1	439.9	439.2	445.4	442.5	446.5
22.5°	429.8	430.1	430.5	432.3	431.9	437.4	434.8	437.4
25°	417.1	418.1	417.8	419.2	419.2	423.6	420.7	422.9
27.5°	398.9	400.0	400.0	401.8	400.4	404.7	401.8	405.1
30°	376.8	377.9	377.1	378.6	377.1	381.5	379.3	380.4
32.5°	350.3	350.3	350.6	351.0	350.3	354.3	352.1	354.3
35°	318.7	319.4	319.8	320.2	319.4	322.3	319.8	321.2
37.5°	283.1	284.9	284.6	284.9	283.8	287.5	285.3	286.0
40°	245.0	245.0	244.6	245.4	244.3	247.2	245.7	246.5
42.5°	200.7	201.8	200.4	202.2	199.3	203.3	201.8	200.7
45°	150.6	149.2	148.8	149.2	148.1	148.5	149.6	148.8
47.5°	102.7	102.7	102.0	100.9	102.4	102.7	101.3	101.3
50°	69.0	69.0	68.2	67.9	68.6	68.2	67.5	68.6
52.5°	43.9	42.5	42.5	43.2	42.5	41.7	42.8	42.1
55°	24.0	23.2	23.2	24.0	23.2	23.2	22.9	23.6
57.5°	11.6	12.0	11.6	11.6	11.6	11.6	11.3	11.6
60°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
62.5°	2.2	2.2	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.1	1.1	1.1	1.1	1.1	1.4	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)