

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: P685050

Luminaire Tested: **LX6C05D010 EX6059035 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685050
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 EX6059035 6LCSWLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

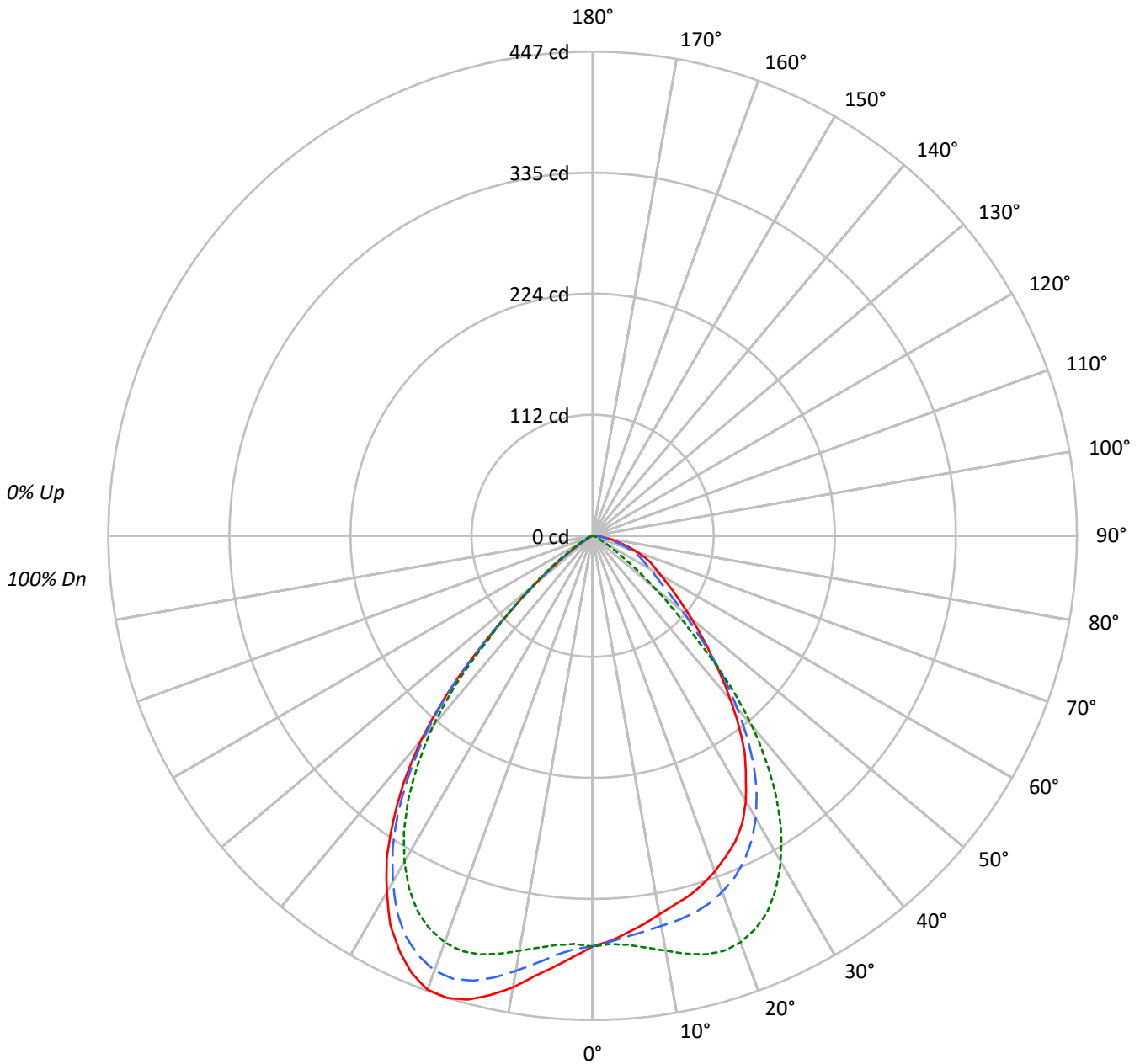
Lumens per Lamp: N/A
Luminaire Lumens: 693.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	20782	20782	20782
5°	20245	20862	21962
10°	19750	21648	23563
15°	19523	22707	25159
20°	19240	23300	26007
25°	18836	23130	25544
30°	17895	21978	24042
35°	16376	19816	21469
40°	14162	16366	17612
45°	11939	10738	11521
50°	10140	6217	5842
55°	8803	2982	2256
60°	7949	1392	559
65°	7705	804	182
70°	6908	641	176
75°	5676	466	85
80°	4230	221	0
85°	3648	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	5.3
10°-20°	111.6	16.1
20°-30°	170.5	24.6
30°-40°	178.3	25.7
40°-50°	115.7	16.7
50°-60°	45.9	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°	318.7	46.0
0°-40°	497.1	71.7
0°-60°	658.7	95.1
0°-90°	693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	379	379	379	379	379	
5°	368	371	379	389	399	35
15°	344	361	400	425	443	97
25°	311	331	382	408	422	143
35°	245	260	296	314	321	151
45°	154	153	138	147	149	120
55°	92	78	31	24	24	83
65°	59	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°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	374.4	375.1	371.2	370.1	373.0	374.0	374.4	373.3	373.7	375.1	375.1
5°	367.9	368.6	365.0	363.9	366.8	367.5	368.6	368.3	369.3	371.5	371.2
7.5°	361.7	362.8	358.8	357.4	361.0	362.8	363.5	363.5	365.0	367.9	368.3
10°	354.8	356.3	352.7	351.9	355.9	357.7	358.1	358.8	361.0	365.0	365.7
12.5°	349.0	350.5	348.0	346.9	351.2	353.0	353.7	355.2	357.7	362.8	363.5
15°	344.0	345.1	342.2	341.4	345.8	348.0	348.3	350.5	353.7	359.6	360.6
17.5°	337.4	338.2	336.0	335.3	339.6	341.8	342.2	344.7	348.7	354.5	356.3
20°	329.8	330.6	328.4	327.7	332.0	334.5	334.9	337.1	341.8	348.0	349.8
22.5°	320.8	322.2	319.7	319.0	323.3	325.5	326.6	328.4	333.1	339.3	341.8
25°	311.4	311.4	309.5	309.2	313.2	315.7	315.3	317.9	322.6	328.7	330.9
27.5°	299.0	298.7	296.8	296.5	300.8	303.0	302.3	304.8	309.2	315.3	317.5
30°	282.7	283.4	280.9	280.2	283.8	287.4	287.1	289.6	293.9	299.7	301.2
32.5°	263.1	263.9	263.5	262.4	265.7	267.5	268.6	270.4	274.0	280.2	281.6
35°	244.7	243.6	242.1	242.1	245.4	248.3	247.2	249.4	253.0	259.1	259.5
37.5°	221.8	221.5	220.7	220.0	223.6	224.4	224.7	226.2	229.4	234.5	233.8
40°	197.9	198.3	197.9	196.4	198.6	201.5	201.2	201.9	204.8	208.4	207.3
42.5°	175.4	175.4	175.4	174.0	176.5	178.0	178.7	178.3	179.0	182.3	180.9
45°	154.0	154.4	154.0	153.7	154.0	154.8	154.0	153.7	153.7	154.8	152.6
47.5°	135.6	135.6	134.5	133.4	134.5	134.8	133.8	132.7	132.3	131.9	128.3
50°	118.9	118.5	118.2	116.4	117.4	117.8	116.4	115.6	114.2	112.4	108.0
52.5°	104.4	104.0	103.7	101.8	102.6	102.9	101.5	100.0	98.2	96.8	91.3
55°	92.1	91.7	91.7	90.6	89.9	90.6	89.2	88.1	85.5	83.7	78.3
57.5°	81.5	81.5	80.8	79.7	80.1	80.1	78.7	77.2	75.0	72.9	68.5
60°	72.5	72.5	72.5	71.4	71.4	71.4	70.7	69.2	67.4	65.2	60.9
62.5°	65.2	65.2	64.9	63.8	64.2	64.2	63.4	62.0	60.2	58.7	54.4
65°	59.4	59.4	59.4	58.4	58.4	58.7	58.0	56.5	55.1	53.3	49.3
67.5°	52.2	51.8	51.8	51.1	51.5	51.8	51.1	50.0	48.2	47.1	43.5
70°	43.1	43.5	43.9	42.8	43.1	43.1	42.8	41.7	40.6	39.5	36.3
72.5°	35.2	35.2	34.8	34.4	34.4	34.8	34.1	33.0	32.3	31.5	29.0
75°	26.8	26.5	26.8	26.1	26.1	26.1	25.4	25.0	24.6	23.6	21.7
77.5°	19.6	19.2	19.2	18.5	18.9	18.9	18.5	17.8	17.0	16.7	15.2
80°	13.4	13.4	13.4	13.1	13.1	12.7	12.7	12.3	11.6	11.2	10.5
82.5°	9.1	9.1	9.1	8.7	8.7	8.7	8.3	8.0	7.6	7.2	6.5
85°	5.8	5.8	5.8	5.4	5.4	5.4	5.1	5.1	4.7	4.3	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°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	377.7	372.6	375.9	375.9	374.8	377.7	379.5	380.9	380.6	377.3	376.9
5°	374.8	370.4	374.0	374.4	373.3	377.3	379.8	381.7	382.0	379.1	379.5
7.5°	372.6	369.0	373.7	375.1	374.8	378.4	381.3	384.2	385.7	383.5	383.8
10°	371.5	368.6	373.7	375.9	376.2	380.2	384.6	388.6	390.4	388.9	390.0
12.5°	370.1	368.3	374.0	377.3	378.8	382.8	388.2	392.9	395.8	395.1	397.2
15°	368.6	367.2	374.0	378.8	380.6	384.2	390.4	397.2	400.5	400.1	403.0
17.5°	365.0	364.6	371.9	376.9	379.5	383.8	389.6	398.0	401.2	402.0	405.6
20°	359.2	359.2	367.2	372.6	375.5	379.5	386.7	394.7	398.7	399.4	403.4
22.5°	351.2	351.9	359.6	365.0	369.3	372.2	379.8	388.2	391.8	392.9	397.2
25°	340.7	341.4	348.7	354.1	358.8	362.1	369.3	376.9	381.3	382.4	385.7
27.5°	326.9	328.4	335.3	340.7	344.7	346.9	354.5	362.5	365.7	366.8	370.1
30°	311.0	311.4	318.2	322.9	326.9	328.7	335.3	343.6	346.1	347.2	351.9
32.5°	291.4	291.1	297.6	301.9	305.2	307.4	314.2	319.7	322.2	324.0	326.6
35°	267.9	267.5	272.2	277.3	279.8	280.5	287.4	293.2	294.7	296.1	299.4
37.5°	241.4	241.4	245.4	247.9	250.8	251.9	255.2	261.7	264.2	263.9	266.4
40°	213.5	212.0	214.9	217.5	218.2	218.6	221.8	226.9	228.7	228.7	230.5
42.5°	184.1	181.9	182.3	183.8	184.5	181.9	184.1	187.4	186.3	187.8	188.1
45°	153.0	149.7	148.2	145.0	145.7	143.2	141.7	142.4	142.1	138.5	139.2
47.5°	127.6	121.8	119.2	114.5	113.5	110.6	108.7	105.5	102.6	102.6	100.8
50°	106.2	100.4	95.3	89.9	88.1	85.5	81.5	77.2	75.0	72.9	71.0
52.5°	89.2	83.0	76.8	71.0	68.5	65.2	59.8	55.5	51.5	49.3	47.1
55°	75.4	68.5	62.0	55.8	52.6	49.3	43.9	38.8	34.1	31.2	29.4
57.5°	64.9	58.4	51.5	44.9	42.0	38.4	32.6	27.2	22.8	19.6	17.8
60°	57.3	50.7	44.6	37.7	34.8	31.2	25.0	19.9	15.6	12.7	10.5
62.5°	50.7	44.9	38.4	32.3	29.4	25.7	19.9	14.9	10.9	8.0	6.2
65°	46.0	40.2	34.8	28.6	26.1	22.5	17.0	12.3	8.7	6.2	4.3
67.5°	40.6	35.5	30.1	25.0	22.5	19.6	14.5	10.5	7.2	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	23.9	20.3	16.7	15.2	12.7	9.8	6.9	4.3	2.9	2.2
75°	20.7	18.1	15.2	12.7	11.2	9.8	7.2	5.1	3.3	2.2	1.4
77.5°	14.1	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	7.2	5.8	5.1	4.3	2.9	2.2	1.1	0.7	0.4
82.5°	6.2	5.1	4.3	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°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	381.3	381.3	380.9	385.3	380.2	385.3	382.8	385.3	381.7	381.3	381.7
5°	384.2	385.3	385.7	389.6	384.9	391.1	388.9	391.1	388.6	389.3	390.4
7.5°	390.0	391.8	391.5	396.5	391.8	398.7	397.2	400.5	398.0	398.7	400.1
10°	396.5	398.7	399.1	404.1	399.8	408.1	406.3	409.9	407.8	408.9	410.7
12.5°	404.1	406.7	407.0	412.8	408.1	416.8	415.7	419.4	417.5	418.6	420.8
15°	409.9	413.6	414.3	420.1	415.0	424.1	423.3	428.1	425.2	427.0	428.8
17.5°	412.8	416.1	417.5	423.0	418.6	427.7	427.0	431.0	428.8	430.6	432.8
20°	411.0	415.0	416.1	421.5	417.2	426.2	425.2	429.2	427.0	428.4	430.6
22.5°	404.5	408.5	409.9	415.0	411.0	419.4	419.0	422.6	419.7	421.5	423.3
25°	392.9	397.2	398.0	402.7	398.3	407.0	406.3	410.3	408.1	409.2	411.7
27.5°	376.2	381.3	382.4	386.4	383.1	390.4	390.4	393.6	391.1	391.1	393.6
30°	356.3	361.4	362.1	365.4	362.5	369.0	369.3	372.6	368.6	370.8	371.2
32.5°	332.0	335.3	337.4	340.3	336.0	344.3	343.2	345.8	343.6	343.6	345.4
35°	302.6	306.6	307.7	311.4	307.7	314.2	314.2	315.7	313.5	313.5	316.4
37.5°	270.8	273.7	274.0	277.6	274.7	280.2	279.8	280.9	278.7	280.2	280.2
40°	233.4	235.6	236.3	238.1	237.8	241.8	241.4	242.1	241.0	241.4	242.1
42.5°	189.9	192.8	194.3	195.7	193.6	199.0	197.9	199.0	198.6	199.0	200.1
45°	139.9	142.1	143.2	143.5	142.8	146.1	148.6	146.4	146.8	146.1	147.5
47.5°	101.1	101.5	100.8	102.9	101.1	102.6	103.3	103.7	101.5	101.1	102.6
50°	69.2	71.0	68.5	69.6	69.2	70.7	70.0	70.3	68.1	69.2	68.5
52.5°	46.0	45.7	44.9	45.3	44.6	44.6	44.6	45.3	43.9	43.1	42.4
55°	27.9	27.2	25.7	25.4	25.4	25.7	25.0	24.3	24.3	23.9	23.9
57.5°	16.3	15.2	14.5	14.1	13.4	13.1	12.7	12.7	12.0	12.0	12.0
60°	9.1	8.0	7.2	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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CATALOG NUMBER: LX6C05D010 EX6059035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	384.9	384.6	384.9	385.7	384.2	388.6	386.4	388.6
5°	393.3	393.6	394.0	395.1	393.3	398.7	395.8	399.1
7.5°	404.1	404.5	404.9	406.0	404.9	410.3	407.0	409.9
10°	415.4	416.1	416.1	417.9	416.8	421.9	419.7	423.3
12.5°	425.9	426.6	427.3	428.4	427.7	433.1	431.3	434.2
15°	434.2	435.7	436.0	437.5	436.8	442.6	440.4	443.3
17.5°	438.2	439.7	439.7	441.5	440.7	446.9	444.0	447.3
20°	436.0	437.1	437.5	439.3	438.6	444.7	441.8	445.8
22.5°	429.2	429.5	429.9	431.7	431.3	436.8	434.2	436.8
25°	416.5	417.5	417.2	418.6	418.6	423.0	420.1	422.3
27.5°	398.3	399.4	399.4	401.2	399.8	404.1	401.2	404.5
30°	376.2	377.3	376.6	378.0	376.6	380.9	378.8	379.8
32.5°	349.8	349.8	350.1	350.5	349.8	353.7	351.6	353.7
35°	318.2	319.0	319.3	319.7	319.0	321.9	319.3	320.8
37.5°	282.7	284.5	284.2	284.5	283.4	287.1	284.9	285.6
40°	244.7	244.7	244.3	245.0	243.9	246.8	245.4	246.1
42.5°	200.4	201.5	200.1	201.9	199.0	203.0	201.5	200.4
45°	150.4	149.0	148.6	149.0	147.9	148.2	149.3	148.6
47.5°	102.6	102.6	101.8	100.8	102.2	102.6	101.1	101.1
50°	68.9	68.9	68.1	67.8	68.5	68.1	67.4	68.5
52.5°	43.9	42.4	42.4	43.1	42.4	41.7	42.8	42.0
55°	23.9	23.2	23.2	23.9	23.2	23.2	22.8	23.6
57.5°	11.6	12.0	11.6	11.6	11.6	11.6	11.2	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)