

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: P685045

Luminaire Tested: **LX6C05D010 EX6059030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685045
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 EX6059030 6LCSWLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

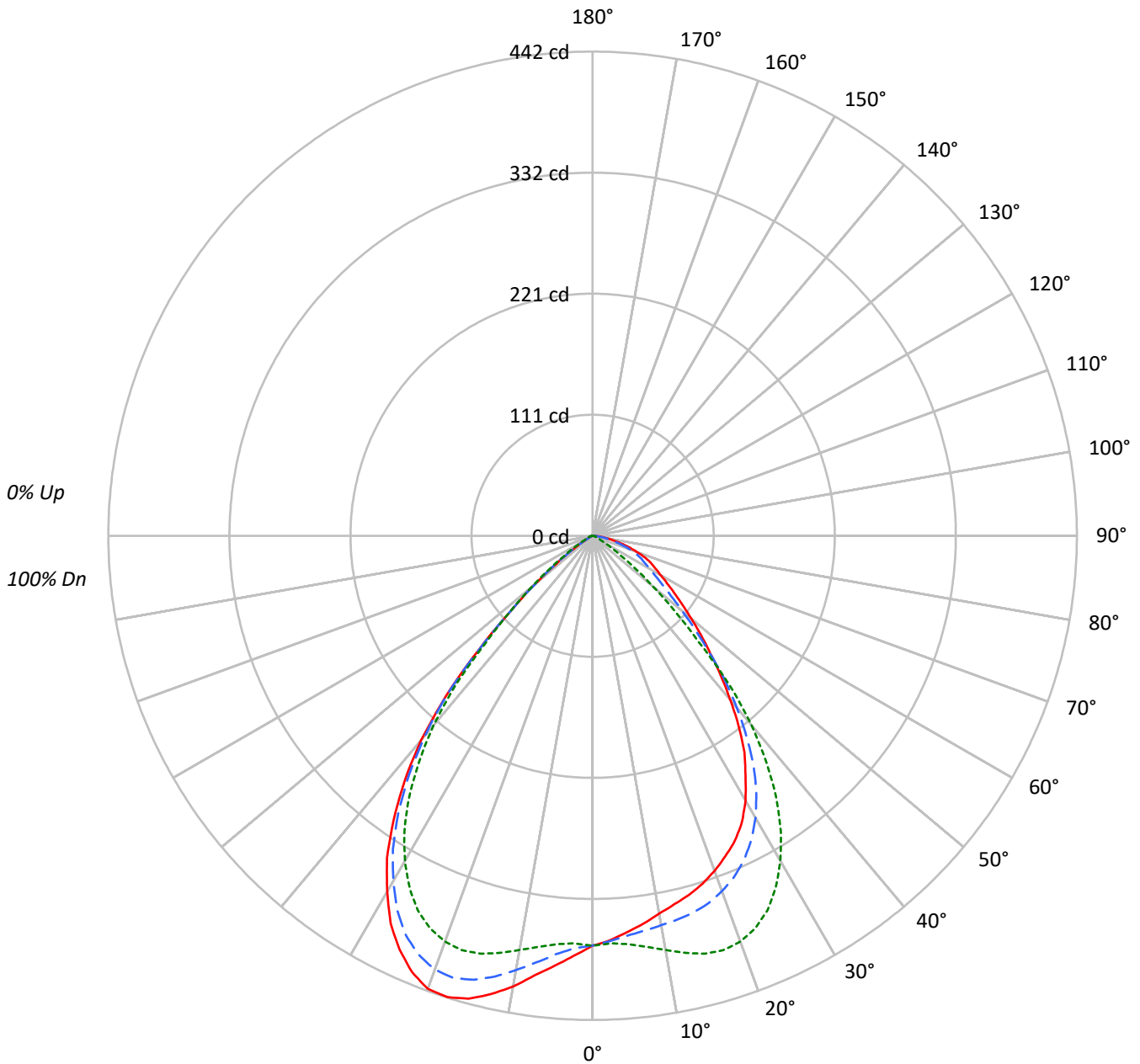
Lumens per Lamp: N/A
Luminaire Lumens: 684.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20514	20514	20514
5°	19981	20592	21676
10°	19494	21370	23257
15°	19268	22418	24830
20°	18989	22997	25669
25°	18588	22828	25211
30°	17661	21693	23731
35°	16162	19562	21188
40°	13976	16152	17383
45°	11784	10598	11373
50°	10004	6132	5765
55°	8688	2944	2217
60°	7839	1371	548
65°	7614	791	182
70°	6828	625	176
75°	5613	466	85
80°	4167	221	0
85°	3585	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	5.3
10°-20°	110.2	16.1
20°-30°	168.3	24.6
30°-40°	176.0	25.7
40°-50°	114.2	16.7
50°-60°	45.3	6.6
60°-70°	21.5	3.1
70°-80°	10.2	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°	314.6	46.0
0°-40°	490.6	71.7
0°-60°	650.2	95.1
0°-90°	684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	374	374	374	374	374	
5°	363	366	374	384	394	34
15°	340	356	395	420	438	96
25°	307	327	377	403	417	141
35°	242	256	292	309	317	149
45°	152	151	137	145	147	118
55°	91	77	31	24	23	82
65°	59	49	6	1	1	57
75°	26	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°	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2
2.5°	369.6	370.3	366.3	365.3	368.1	369.2	369.6	368.5	368.8	370.3	370.3
5°	363.1	363.8	360.2	359.2	362.0	362.8	363.8	363.5	364.5	366.7	366.3
7.5°	357.0	358.1	354.2	352.7	356.3	358.1	358.8	358.8	360.2	363.1	363.5
10°	350.2	351.7	348.1	347.4	351.3	353.1	353.5	354.2	356.3	360.2	361.0
12.5°	344.5	345.9	343.4	342.4	346.7	348.4	349.2	350.6	353.1	358.1	358.8
15°	339.5	340.6	337.7	337.0	341.3	343.4	343.8	345.9	349.2	354.9	356.0
17.5°	333.1	333.8	331.6	330.9	335.2	337.3	337.7	340.2	344.2	349.9	351.7
20°	325.5	326.3	324.1	323.4	327.7	330.2	330.6	332.7	337.3	343.4	345.2
22.5°	316.6	318.0	315.5	314.8	319.1	321.3	322.3	324.1	328.8	334.8	337.3
25°	307.3	307.3	305.5	305.2	309.1	311.6	311.2	313.7	318.4	324.5	326.6
27.5°	295.1	294.8	293.0	292.6	296.9	299.1	298.4	300.9	305.2	311.2	313.4
30°	279.0	279.8	277.3	276.5	280.1	283.7	283.3	285.8	290.1	295.9	297.3
32.5°	259.7	260.4	260.1	259.0	262.2	264.0	265.1	266.9	270.5	276.5	278.0
35°	241.5	240.4	239.0	239.0	242.2	245.1	244.0	246.1	249.7	255.8	256.1
37.5°	218.9	218.6	217.9	217.2	220.7	221.4	221.8	223.2	226.5	231.5	230.7
40°	195.3	195.7	195.3	193.9	196.0	198.9	198.5	199.3	202.1	205.7	204.6
42.5°	173.1	173.1	173.1	171.7	174.2	175.7	176.4	176.0	176.7	179.9	178.5
45°	152.0	152.4	152.0	151.7	152.0	152.8	152.0	151.7	151.7	152.8	150.6
47.5°	133.8	133.8	132.7	131.7	132.7	133.1	132.0	130.9	130.6	130.2	126.6
50°	117.3	117.0	116.6	114.8	115.9	116.3	114.8	114.1	112.7	110.9	106.6
52.5°	103.0	102.7	102.3	100.5	101.2	101.6	100.2	98.7	96.9	95.5	90.2
55°	90.9	90.5	90.5	89.4	88.7	89.4	88.0	86.9	84.4	82.6	77.3
57.5°	80.5	80.5	79.8	78.7	79.1	79.1	77.6	76.2	74.0	71.9	67.6
60°	71.5	71.5	71.5	70.5	70.5	70.5	69.8	68.3	66.5	64.4	60.1
62.5°	64.4	64.4	64.0	63.0	63.3	63.3	62.6	61.2	59.4	58.0	53.7
65°	58.7	58.7	58.7	57.6	57.6	58.0	57.2	55.8	54.4	52.6	48.6
67.5°	51.5	51.2	51.2	50.4	50.8	51.2	50.4	49.4	47.6	46.5	42.9
70°	42.6	42.9	43.3	42.2	42.6	42.6	42.2	41.1	40.1	39.0	35.8
72.5°	34.7	34.7	34.3	34.0	34.0	34.3	33.6	32.6	31.8	31.1	28.6
75°	26.5	26.1	26.5	25.8	25.8	25.8	25.0	24.7	24.3	23.2	21.5
77.5°	19.3	19.0	19.0	18.2	18.6	18.6	18.2	17.5	16.8	16.5	15.0
80°	13.2	13.2	13.2	12.9	12.9	12.5	12.5	12.2	11.4	11.1	10.4
82.5°	8.9	8.9	8.9	8.6	8.6	8.6	8.2	7.9	7.5	7.2	6.4
85°	5.7	5.7	5.7	5.4	5.4	5.4	5.0	5.0	4.7	4.3	3.6
87.5°	3.2	3.2	3.2	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°	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2
2.5°	372.8	367.8	371.0	371.0	369.9	372.8	374.6	376.0	375.6	372.4	372.1
5°	369.9	365.6	369.2	369.6	368.5	372.4	374.9	376.7	377.1	374.2	374.6
7.5°	367.8	364.2	368.8	370.3	369.9	373.5	376.4	379.2	380.6	378.5	378.9
10°	366.7	363.8	368.8	371.0	371.3	375.3	379.6	383.5	385.3	383.9	384.9
12.5°	365.3	363.5	369.2	372.4	373.8	377.8	383.1	387.8	390.7	389.9	392.1
15°	363.8	362.4	369.2	373.8	375.6	379.2	385.3	392.1	395.3	395.0	397.8
17.5°	360.2	359.9	367.0	372.1	374.6	378.9	384.6	392.8	396.0	396.7	400.3
20°	354.5	354.5	362.4	367.8	370.6	374.6	381.7	389.6	393.5	394.2	398.2
22.5°	346.7	347.4	354.9	360.2	364.5	367.4	374.9	383.1	386.7	387.8	392.1
25°	336.3	337.0	344.2	349.5	354.2	357.4	364.5	372.1	376.4	377.4	380.6
27.5°	322.7	324.1	330.9	336.3	340.2	342.4	349.9	357.7	361.0	362.0	365.3
30°	306.9	307.3	314.1	318.8	322.7	324.5	330.9	339.1	341.7	342.7	347.4
32.5°	287.6	287.3	293.7	298.0	301.2	303.4	310.2	315.5	318.0	319.8	322.3
35°	264.4	264.0	268.7	273.7	276.2	276.9	283.7	289.4	290.9	292.3	295.5
37.5°	238.3	238.3	242.2	244.7	247.6	248.6	251.9	258.3	260.8	260.4	262.9
40°	210.7	209.3	212.1	214.7	215.4	215.7	218.9	223.9	225.7	225.7	227.5
42.5°	181.7	179.6	179.9	181.4	182.1	179.6	181.7	185.0	183.9	185.3	185.7
45°	151.0	147.7	146.3	143.1	143.8	141.3	139.9	140.6	140.2	136.7	137.4
47.5°	125.9	120.2	117.7	113.1	112.0	109.1	107.3	104.1	101.2	101.2	99.4
50°	104.8	99.1	94.1	88.7	86.9	84.4	80.5	76.2	74.0	71.9	70.1
52.5°	88.0	81.9	75.8	70.1	67.6	64.4	59.0	54.7	50.8	48.6	46.5
55°	74.4	67.6	61.2	55.1	51.9	48.6	43.3	38.3	33.6	30.8	29.0
57.5°	64.0	57.6	50.8	44.4	41.5	37.9	32.2	26.8	22.5	19.3	17.5
60°	56.5	50.1	44.0	37.2	34.3	30.8	24.7	19.7	15.4	12.5	10.4
62.5°	50.1	44.4	37.9	31.8	29.0	25.4	19.7	14.7	10.7	7.9	6.1
65°	45.4	39.7	34.3	28.3	25.8	22.2	16.8	12.2	8.6	6.1	4.3
67.5°	40.1	35.1	29.7	24.7	22.2	19.3	14.3	10.4	7.2	5.0	3.6
70°	33.6	29.7	25.0	20.4	18.6	16.1	11.8	8.6	5.7	3.9	2.9
72.5°	26.8	23.6	20.0	16.5	15.0	12.5	9.7	6.8	4.3	2.9	2.2
75°	20.4	17.9	15.0	12.5	11.1	9.7	7.2	5.0	3.2	2.2	1.4
77.5°	14.0	12.9	10.7	8.6	7.9	6.8	4.7	3.2	2.2	1.4	0.7
80°	9.7	8.6	7.2	5.7	5.0	4.3	2.9	2.2	1.1	0.7	0.4
82.5°	6.1	5.0	4.3	3.6	3.2	2.5	1.8	1.1	0.7	0.4	0.4
85°	3.2	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°	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2
2.5°	376.4	376.4	376.0	380.3	375.3	380.3	377.8	380.3	376.7	376.4	376.7
5°	379.2	380.3	380.6	384.6	379.9	386.0	383.9	386.0	383.5	384.2	385.3
7.5°	384.9	386.7	386.4	391.4	386.7	393.5	392.1	395.3	392.8	393.5	395.0
10°	391.4	393.5	393.9	398.9	394.6	402.8	401.0	404.6	402.5	403.5	405.3
12.5°	398.9	401.4	401.8	407.5	402.8	411.4	410.3	413.9	412.1	413.2	415.3
15°	404.6	408.2	408.9	414.6	409.6	418.6	417.8	422.5	419.6	421.4	423.2
17.5°	407.5	410.7	412.1	417.5	413.2	422.1	421.4	425.4	423.2	425.0	427.2
20°	405.7	409.6	410.7	416.1	411.8	420.7	419.6	423.6	421.4	422.9	425.0
22.5°	399.2	403.2	404.6	409.6	405.7	413.9	413.6	417.1	414.3	416.1	417.8
25°	387.8	392.1	392.8	397.5	393.2	401.8	401.0	405.0	402.8	403.9	406.4
27.5°	371.3	376.4	377.4	381.4	378.1	385.3	385.3	388.5	386.0	386.0	388.5
30°	351.7	356.7	357.4	360.6	357.7	364.2	364.5	367.8	363.8	366.0	366.3
32.5°	327.7	330.9	333.1	335.9	331.6	339.9	338.8	341.3	339.1	339.1	340.9
35°	298.7	302.7	303.7	307.3	303.7	310.2	310.2	311.6	309.4	309.4	312.3
37.5°	267.2	270.1	270.5	274.0	271.2	276.5	276.2	277.3	275.1	276.5	276.5
40°	230.4	232.5	233.2	235.0	234.7	238.6	238.3	239.0	237.9	238.3	239.0
42.5°	187.5	190.3	191.8	193.2	191.0	196.4	195.3	196.4	196.0	196.4	197.5
45°	138.1	140.2	141.3	141.7	141.0	144.2	146.7	144.5	144.9	144.2	145.6
47.5°	99.8	100.2	99.4	101.6	99.8	101.2	102.0	102.3	100.2	99.8	101.2
50°	68.3	70.1	67.6	68.7	68.3	69.8	69.0	69.4	67.3	68.3	67.6
52.5°	45.4	45.1	44.4	44.7	44.0	44.0	44.0	44.7	43.3	42.6	41.9
55°	27.6	26.8	25.4	25.0	25.0	25.4	24.7	24.0	24.0	23.6	23.6
57.5°	16.1	15.0	14.3	14.0	13.2	12.9	12.5	12.5	11.8	11.8	11.8
60°	8.9	7.9	7.2	6.4	6.4	6.1	5.7	5.4	5.4	5.4	5.0
62.5°	4.7	3.9	3.2	2.9	2.9	2.5	2.2	2.2	2.2	2.2	1.8
65°	3.2	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



TEST NUMBER: P685045

CATALOG NUMBER: LX6C05D010 EX6059030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2
2.5°	379.9	379.6	379.9	380.6	379.2	383.5	381.4	383.5
5°	388.2	388.5	388.9	389.9	388.2	393.5	390.7	393.9
7.5°	398.9	399.2	399.6	400.7	399.6	405.0	401.8	404.6
10°	410.0	410.7	410.7	412.5	411.4	416.4	414.3	417.8
12.5°	420.3	421.1	421.8	422.9	422.1	427.5	425.7	428.6
15°	428.6	430.0	430.4	431.8	431.1	436.8	434.7	437.5
17.5°	432.5	433.9	433.9	435.7	435.0	441.1	438.2	441.5
20°	430.4	431.4	431.8	433.6	432.9	439.0	436.1	440.0
22.5°	423.6	423.9	424.3	426.1	425.7	431.1	428.6	431.1
25°	411.0	412.1	411.8	413.2	413.2	417.5	414.6	416.8
27.5°	393.2	394.2	394.2	396.0	394.6	398.9	396.0	399.2
30°	371.3	372.4	371.7	373.1	371.7	376.0	373.8	374.9
32.5°	345.2	345.2	345.6	345.9	345.2	349.2	347.0	349.2
35°	314.1	314.8	315.2	315.5	314.8	317.7	315.2	316.6
37.5°	279.0	280.8	280.5	280.8	279.8	283.3	281.2	281.9
40°	241.5	241.5	241.1	241.8	240.8	243.6	242.2	242.9
42.5°	197.8	198.9	197.5	199.3	196.4	200.3	198.9	197.8
45°	148.5	147.0	146.7	147.0	146.0	146.3	147.4	146.7
47.5°	101.2	101.2	100.5	99.4	100.9	101.2	99.8	99.8
50°	68.0	68.0	67.3	66.9	67.6	67.3	66.5	67.6
52.5°	43.3	41.9	41.9	42.6	41.9	41.1	42.2	41.5
55°	23.6	22.9	22.9	23.6	22.9	22.9	22.5	23.2
57.5°	11.4	11.8	11.4	11.4	11.4	11.4	11.1	11.4
60°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)