

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: P685060

Luminaire Tested: **LX6C05D010 EX6059050 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685060
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 EX6059050 6LCSWLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

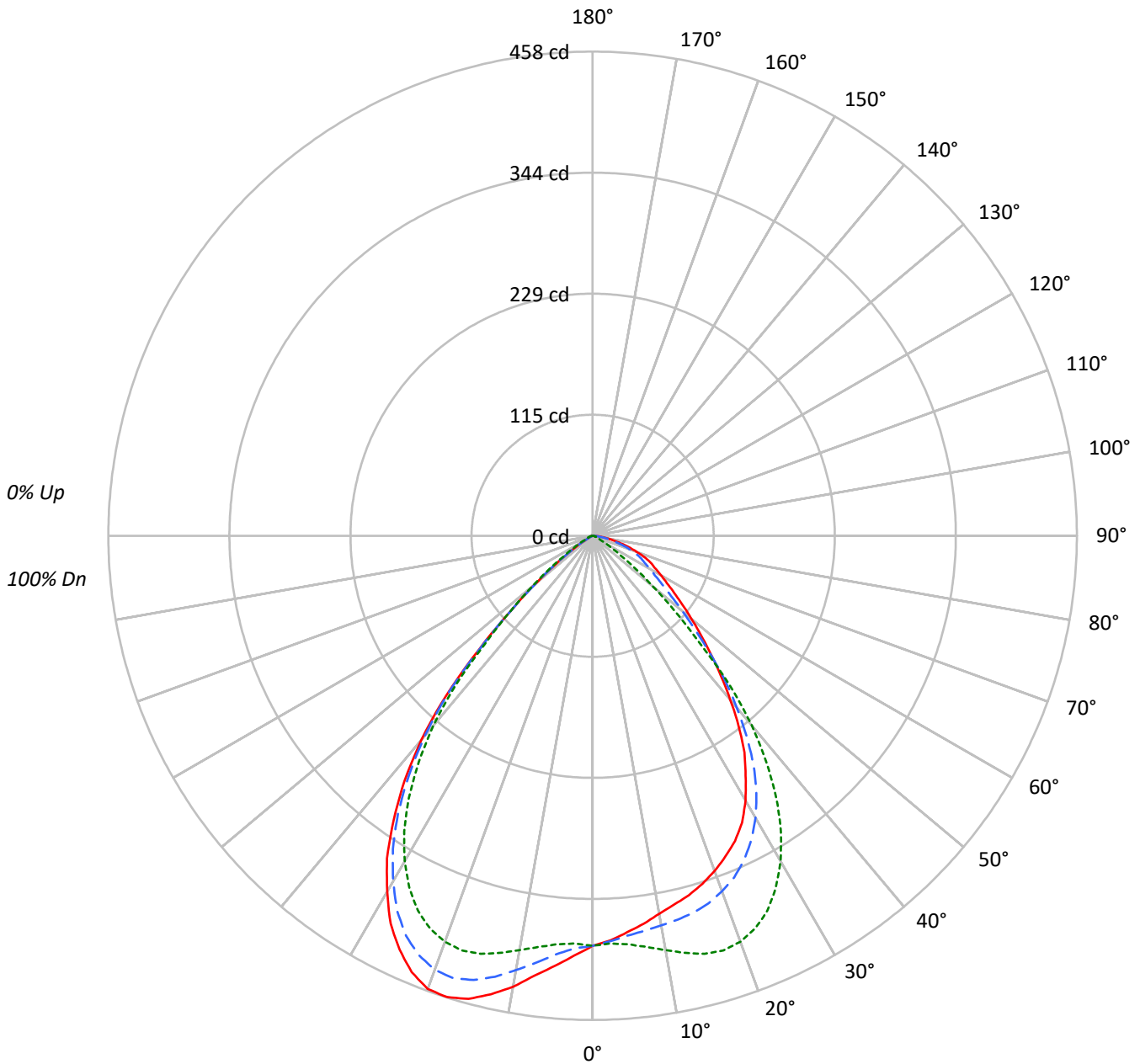
Lumens per Lamp: N/A
Luminaire Lumens: 709.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	21265	21265	21265
5°	20713	21346	22469
10°	20207	22149	24109
15°	19972	23235	25738
20°	19683	23837	26608
25°	19265	23663	26131
30°	18307	22491	24599
35°	16751	20278	21964
40°	14491	16746	18019
45°	12218	10986	11784
50°	10371	6354	5978
55°	9003	3049	2303
60°	8135	1425	570
65°	7887	817	195
70°	7069	657	176
75°	5804	466	85
80°	4325	221	0
85°	3711	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	5.3
10°-20°	114.2	16.1
20°-30°	174.5	24.6
30°-40°	182.5	25.7
40°-50°	118.4	16.7
50°-60°	47.0	6.6
60°-70°	22.3	3.1
70°-80°	10.6	1.5
80°-90°	2.2	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°	326.1	46.0
0°-40°	508.6	71.7
0°-60°	673.9	95.1
0°-90°	709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	388	388	388	388	388	
5°	376	380	388	398	408	36
15°	352	369	409	435	454	99
25°	318	339	391	418	432	146
35°	250	266	303	321	328	155
45°	158	156	142	150	152	123
55°	94	80	32	25	24	85
65°	61	50	6	2	2	59
75°	27	22	2	1	0	30
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°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	383.1	383.8	379.7	378.6	381.6	382.7	383.1	381.9	382.3	383.8	383.8
5°	376.4	377.1	373.4	372.3	375.3	376.0	377.1	376.8	377.9	380.1	379.7
7.5°	370.1	371.2	367.1	365.6	369.3	371.2	371.9	371.9	373.4	376.4	376.8
10°	363.0	364.5	360.8	360.1	364.1	366.0	366.4	367.1	369.3	373.4	374.2
12.5°	357.1	358.6	356.0	354.9	359.3	361.2	361.9	363.4	366.0	371.2	371.9
15°	351.9	353.0	350.1	349.3	353.8	356.0	356.4	358.6	361.9	367.9	369.0
17.5°	345.2	346.0	343.8	343.0	347.5	349.7	350.1	352.6	356.7	362.7	364.5
20°	337.4	338.2	336.0	335.2	339.7	342.3	342.6	344.9	349.7	356.0	357.8
22.5°	328.2	329.7	327.1	326.3	330.8	333.0	334.1	336.0	340.8	347.1	349.7
25°	318.5	318.5	316.7	316.3	320.4	323.0	322.6	325.2	330.0	336.3	338.6
27.5°	305.9	305.6	303.7	303.3	307.8	310.0	309.3	311.9	316.3	322.6	324.8
30°	289.2	290.0	287.4	286.6	290.4	294.1	293.7	296.3	300.7	306.7	308.2
32.5°	269.2	270.0	269.6	268.5	271.8	273.7	274.8	276.6	280.3	286.6	288.1
35°	250.3	249.2	247.7	247.7	251.0	254.0	252.9	255.1	258.8	265.1	265.5
37.5°	226.9	226.6	225.8	225.1	228.8	229.5	229.9	231.4	234.7	239.9	239.2
40°	202.5	202.8	202.5	201.0	203.2	206.2	205.8	206.6	209.5	213.2	212.1
42.5°	179.5	179.5	179.5	178.0	180.6	182.1	182.8	182.4	183.2	186.5	185.0
45°	157.6	158.0	157.6	157.2	157.6	158.3	157.6	157.2	157.2	158.3	156.1
47.5°	138.7	138.7	137.6	136.5	137.6	137.9	136.8	135.7	135.3	135.0	131.3
50°	121.6	121.3	120.9	119.0	120.1	120.5	119.0	118.3	116.8	115.0	110.5
52.5°	106.8	106.4	106.1	104.2	104.9	105.3	103.8	102.3	100.5	99.0	93.5
55°	94.2	93.8	93.8	92.7	92.0	92.7	91.2	90.1	87.5	85.7	80.1
57.5°	83.4	83.4	82.7	81.6	82.0	82.0	80.5	79.0	76.8	74.5	70.1
60°	74.2	74.2	74.2	73.0	73.0	73.0	72.3	70.8	69.0	66.7	62.3
62.5°	66.7	66.7	66.4	65.3	65.6	65.6	64.9	63.4	61.6	60.1	55.6
65°	60.8	60.8	60.8	59.7	59.7	60.1	59.3	57.9	56.4	54.5	50.4
67.5°	53.4	53.0	53.0	52.3	52.7	53.0	52.3	51.2	49.3	48.2	44.5
70°	44.1	44.5	44.9	43.8	44.1	44.1	43.8	42.6	41.5	40.4	37.1
72.5°	36.0	36.0	35.6	35.2	35.2	35.6	34.9	33.7	33.0	32.3	29.7
75°	27.4	27.1	27.4	26.7	26.7	26.7	26.0	25.6	25.2	24.1	22.2
77.5°	20.0	19.7	19.7	18.9	19.3	19.3	18.9	18.2	17.4	17.1	15.6
80°	13.7	13.7	13.7	13.4	13.4	13.0	13.0	12.6	11.9	11.5	10.8
82.5°	9.3	9.3	9.3	8.9	8.9	8.9	8.5	8.2	7.8	7.4	6.7
85°	5.9	5.9	5.9	5.6	5.6	5.6	5.2	5.2	4.8	4.4	3.7
87.5°	3.3	3.3	3.3	3.0	3.0	3.0	3.0	3.0	2.6	2.2	1.9
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°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	386.4	381.2	384.5	384.5	383.4	386.4	388.3	389.7	389.4	386.0	385.7
5°	383.4	379.0	382.7	383.1	381.9	386.0	388.6	390.5	390.8	387.9	388.3
7.5°	381.2	377.5	382.3	383.8	383.4	387.1	390.1	393.1	394.6	392.3	392.7
10°	380.1	377.1	382.3	384.5	384.9	389.0	393.4	397.5	399.4	397.9	399.0
12.5°	378.6	376.8	382.7	386.0	387.5	391.6	397.1	402.0	404.9	404.2	406.4
15°	377.1	375.6	382.7	387.5	389.4	393.1	399.4	406.4	409.8	409.4	412.4
17.5°	373.4	373.1	380.5	385.7	388.3	392.7	398.6	407.2	410.5	411.2	414.9
20°	367.5	367.5	375.6	381.2	384.2	388.3	395.7	403.8	407.9	408.6	412.7
22.5°	359.3	360.1	367.9	373.4	377.9	380.8	388.6	397.1	400.9	402.0	406.4
25°	348.6	349.3	356.7	362.3	367.1	370.4	377.9	385.7	390.1	391.2	394.6
27.5°	334.5	336.0	343.0	348.6	352.6	354.9	362.7	370.8	374.2	375.3	378.6
30°	318.2	318.5	325.6	330.4	334.5	336.3	343.0	351.5	354.1	355.3	360.1
32.5°	298.1	297.8	304.5	308.9	312.2	314.5	321.5	327.1	329.7	331.5	334.1
35°	274.0	273.7	278.5	283.7	286.3	287.0	294.1	300.0	301.5	303.0	306.3
37.5°	247.0	247.0	251.0	253.6	256.6	257.7	261.1	267.7	270.3	270.0	272.5
40°	218.4	216.9	219.9	222.5	223.2	223.6	226.9	232.1	234.0	234.0	235.8
42.5°	188.4	186.1	186.5	188.0	188.7	186.1	188.4	191.7	190.6	192.1	192.5
45°	156.5	153.1	151.7	148.3	149.1	146.5	145.0	145.7	145.4	141.7	142.4
47.5°	130.5	124.6	122.0	117.2	116.1	113.1	111.2	107.9	104.9	104.9	103.1
50°	108.7	102.7	97.5	92.0	90.1	87.5	83.4	79.0	76.8	74.5	72.7
52.5°	91.2	84.9	78.6	72.7	70.1	66.7	61.2	56.7	52.7	50.4	48.2
55°	77.1	70.1	63.4	57.1	53.8	50.4	44.9	39.7	34.9	31.9	30.0
57.5°	66.4	59.7	52.7	46.0	43.0	39.3	33.4	27.8	23.4	20.0	18.2
60°	58.6	51.9	45.6	38.6	35.6	31.9	25.6	20.4	15.9	13.0	10.8
62.5°	51.9	46.0	39.3	33.0	30.0	26.3	20.4	15.2	11.1	8.2	6.3
65°	47.1	41.2	35.6	29.3	26.7	23.0	17.4	12.6	8.9	6.3	4.4
67.5°	41.5	36.3	30.8	25.6	23.0	20.0	14.8	10.8	7.4	5.2	3.7
70°	34.9	30.8	26.0	21.1	19.3	16.7	12.2	8.9	5.9	4.1	3.0
72.5°	27.8	24.5	20.8	17.1	15.6	13.0	10.0	7.1	4.4	3.0	2.2
75°	21.1	18.5	15.6	13.0	11.5	10.0	7.4	5.2	3.3	2.2	1.5
77.5°	14.5	13.4	11.1	8.9	8.2	7.1	4.8	3.3	2.2	1.5	0.7
80°	10.0	8.9	7.4	5.9	5.2	4.4	3.0	2.2	1.1	0.7	0.4
82.5°	6.3	5.2	4.4	3.7	3.3	2.6	1.9	1.1	0.7	0.4	0.4
85°	3.3	3.0	2.6	1.9	1.9	1.5	1.1	0.7	0.4	0.0	0.0
87.5°	1.9	1.5	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°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	390.1	390.1	389.7	394.2	389.0	394.2	391.6	394.2	390.5	390.1	390.5
5°	393.1	394.2	394.6	398.6	393.8	400.1	397.9	400.1	397.5	398.3	399.4
7.5°	399.0	400.9	400.5	405.7	400.9	407.9	406.4	409.8	407.2	407.9	409.4
10°	405.7	407.9	408.3	413.5	409.0	417.5	415.7	419.4	417.2	418.3	420.1
12.5°	413.5	416.1	416.4	422.4	417.5	426.4	425.3	429.0	427.2	428.3	430.5
15°	419.4	423.1	423.9	429.8	424.6	433.9	433.1	437.9	435.0	436.8	438.7
17.5°	422.4	425.7	427.2	432.7	428.3	437.6	436.8	440.9	438.7	440.5	442.8
20°	420.5	424.6	425.7	431.3	426.8	436.1	435.0	439.1	436.8	438.3	440.5
22.5°	413.8	417.9	419.4	424.6	420.5	429.0	428.7	432.4	429.4	431.3	433.1
25°	402.0	406.4	407.2	412.0	407.5	416.4	415.7	419.8	417.5	418.7	421.2
27.5°	384.9	390.1	391.2	395.3	392.0	399.4	399.4	402.7	400.1	400.1	402.7
30°	364.5	369.7	370.4	373.8	370.8	377.5	377.9	381.2	377.1	379.4	379.7
32.5°	339.7	343.0	345.2	348.2	343.8	352.3	351.2	353.8	351.5	351.5	353.4
35°	309.6	313.7	314.8	318.5	314.8	321.5	321.5	323.0	320.8	320.8	323.7
37.5°	277.0	280.0	280.3	284.0	281.1	286.6	286.3	287.4	285.2	286.6	286.6
40°	238.8	241.0	241.8	243.6	243.3	247.3	247.0	247.7	246.6	247.0	247.7
42.5°	194.3	197.3	198.8	200.2	198.0	203.6	202.5	203.6	203.2	203.6	204.7
45°	143.1	145.4	146.5	146.8	146.1	149.4	152.0	149.8	150.2	149.4	150.9
47.5°	103.5	103.8	103.1	105.3	103.5	104.9	105.7	106.1	103.8	103.5	104.9
50°	70.8	72.7	70.1	71.2	70.8	72.3	71.6	71.9	69.7	70.8	70.1
52.5°	47.1	46.7	46.0	46.4	45.6	45.6	45.6	46.4	44.9	44.1	43.4
55°	28.6	27.8	26.3	26.0	26.0	26.3	25.6	24.9	24.9	24.5	24.5
57.5°	16.7	15.6	14.8	14.5	13.7	13.4	13.0	13.0	12.2	12.2	12.2
60°	9.3	8.2	7.4	6.7	6.7	6.3	5.9	5.6	5.6	5.6	5.2
62.5°	4.8	4.1	3.3	3.0	3.0	2.6	2.2	2.2	2.2	2.2	1.9
65°	3.3	2.6	2.2	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	2.6	2.2	1.9	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1
70°	2.2	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.5	1.5	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 EX6059050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	393.8	393.4	393.8	394.6	393.1	397.5	395.3	397.5
5°	402.3	402.7	403.1	404.2	402.3	407.9	404.9	408.3
7.5°	413.5	413.8	414.2	415.3	414.2	419.8	416.4	419.4
10°	425.0	425.7	425.7	427.6	426.4	431.6	429.4	433.1
12.5°	435.7	436.5	437.2	438.3	437.6	443.1	441.3	444.2
15°	444.2	445.7	446.1	447.6	446.8	452.8	450.5	453.5
17.5°	448.3	449.8	449.8	451.7	450.9	457.2	454.3	457.6
20°	446.1	447.2	447.6	449.4	448.7	455.0	452.0	456.1
22.5°	439.1	439.4	439.8	441.7	441.3	446.8	444.2	446.8
25°	426.1	427.2	426.8	428.3	428.3	432.7	429.8	432.0
27.5°	407.5	408.6	408.6	410.5	409.0	413.5	410.5	413.8
30°	384.9	386.0	385.3	386.8	385.3	389.7	387.5	388.6
32.5°	357.8	357.8	358.2	358.6	357.8	361.9	359.7	361.9
35°	325.6	326.3	326.7	327.1	326.3	329.3	326.7	328.2
37.5°	289.2	291.1	290.7	291.1	290.0	293.7	291.5	292.2
40°	250.3	250.3	249.9	250.7	249.6	252.5	251.0	251.8
42.5°	205.1	206.2	204.7	206.6	203.6	207.7	206.2	205.1
45°	153.9	152.4	152.0	152.4	151.3	151.7	152.8	152.0
47.5°	104.9	104.9	104.2	103.1	104.6	104.9	103.5	103.5
50°	70.5	70.5	69.7	69.3	70.1	69.7	69.0	70.1
52.5°	44.9	43.4	43.4	44.1	43.4	42.6	43.8	43.0
55°	24.5	23.7	23.7	24.5	23.7	23.7	23.4	24.1
57.5°	11.9	12.2	11.9	11.9	11.9	11.9	11.5	11.9
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
62.5°	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.1	1.1	1.1	1.1	1.1	1.5	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	1.5	1.5	1.5	1.5	1.5	1.5
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)