

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: P685225

Luminaire Tested: **LX6C08D010 EX6089035 6LCSWLI**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P685225
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: LX6C08D010 EX6089035 6LCSWLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

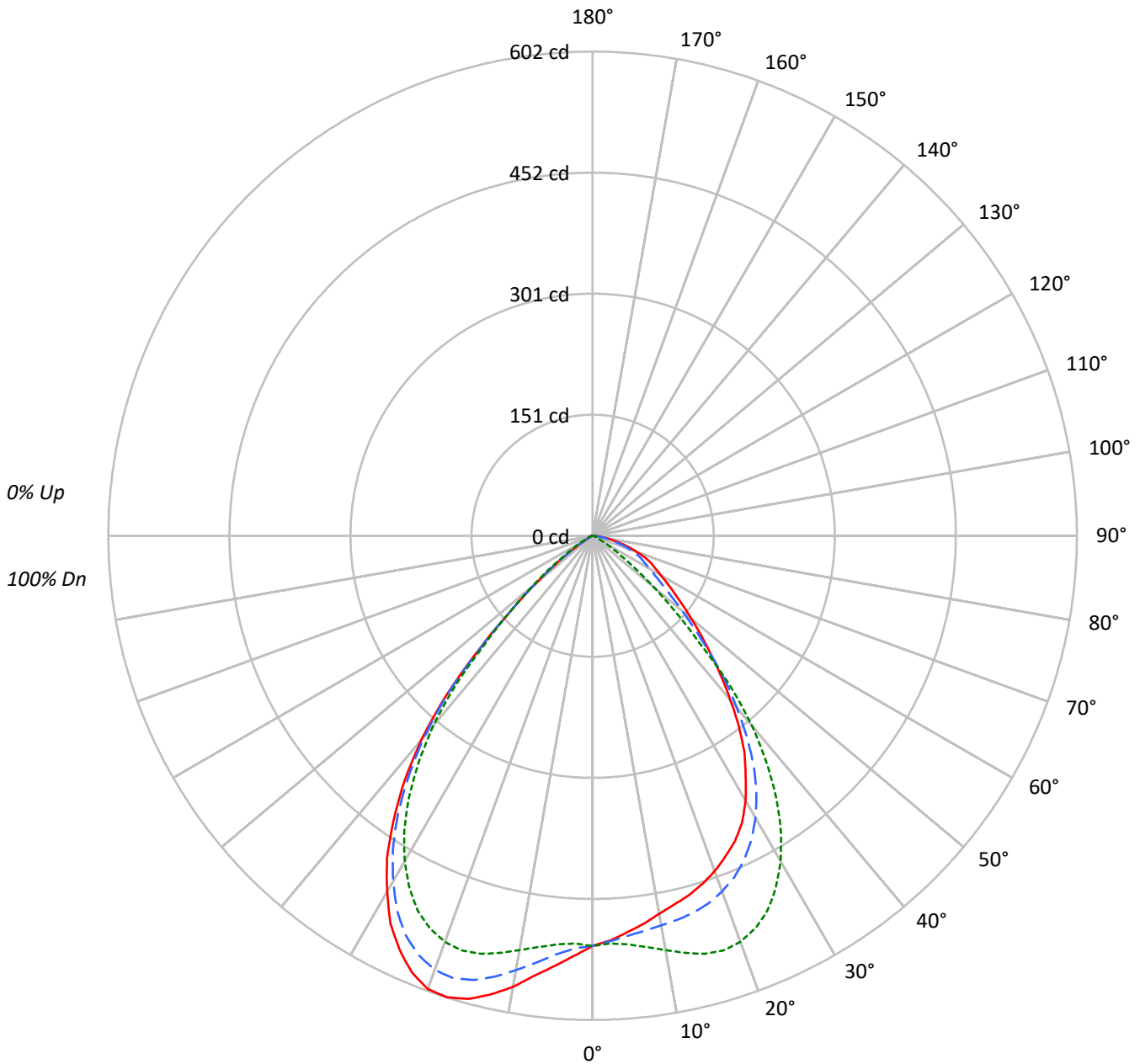
Lumens per Lamp: N/A
Luminaire Lumens: 932.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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°	27953	27953	27953
5°	27229	28060	29534
10°	26564	29113	31691
15°	26254	30539	33837
20°	25879	31339	34980
25°	25326	31109	34351
30°	24067	29562	32340
35°	22018	26649	28871
40°	19050	22013	23687
45°	16064	14436	15490
50°	13637	8358	7855
55°	11832	4005	3030
60°	10690	1875	746
65°	10364	1077	246
70°	9296	866	240
75°	7646	614	106
80°	5683	316	0
85°	4906	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	5.3
10°-20°	150.1	16.1
20°-30°	229.3	24.6
30°-40°	239.9	25.7
40°-50°	155.6	16.7
50°-60°	61.8	6.6
60°-70°	29.3	3.1
70°-80°	13.9	1.5
80°-90°	2.8	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°	428.7	46.0
0°-40°	668.5	71.7
0°-60°	885.9	95.1
0°-90°	932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	510	510	510	510	510	
5°	495	499	510	523	537	47
15°	463	485	538	572	596	130
25°	419	445	514	549	568	192
35°	329	349	398	422	431	203
45°	207	205	186	197	200	161
55°	124	105	42	33	32	112
65°	80	66	8	2	2	78
75°	36	29	3	1	0	39
85°	8	5	0	0	0	9
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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	503.5	504.5	499.2	497.7	501.6	503.0	503.5	502.1	502.6	504.5	504.5
5°	494.8	495.7	490.9	489.4	493.3	494.3	495.7	495.3	496.7	499.6	499.2
7.5°	486.5	487.9	482.6	480.6	485.5	487.9	488.9	488.9	490.9	494.8	495.3
10°	477.2	479.2	474.3	473.3	478.7	481.1	481.6	482.6	485.5	490.9	491.8
12.5°	469.4	471.4	468.0	466.5	472.3	474.8	475.7	477.7	481.1	487.9	488.9
15°	462.6	464.1	460.2	459.2	465.0	468.0	468.4	471.4	475.7	483.6	485.0
17.5°	453.8	454.8	451.9	450.9	456.7	459.7	460.2	463.6	468.9	476.7	479.2
20°	443.6	444.6	441.6	440.7	446.5	449.9	450.4	453.3	459.7	468.0	470.4
22.5°	431.4	433.4	429.9	429.0	434.8	437.7	439.2	441.6	448.0	456.3	459.7
25°	418.7	418.7	416.3	415.8	421.2	424.6	424.1	427.5	433.8	442.1	445.0
27.5°	402.2	401.7	399.2	398.7	404.6	407.5	406.5	410.0	415.8	424.1	427.0
30°	380.2	381.2	377.8	376.8	381.7	386.6	386.1	389.5	395.3	403.1	405.1
32.5°	353.9	354.9	354.4	352.9	357.3	359.7	361.2	363.6	368.5	376.8	378.8
35°	329.0	327.6	325.6	325.6	330.0	333.9	332.4	335.4	340.2	348.5	349.0
37.5°	298.3	297.8	296.9	295.9	300.8	301.7	302.2	304.2	308.6	315.4	314.4
40°	266.2	266.6	266.2	264.2	267.1	271.0	270.5	271.5	275.4	280.3	278.8
42.5°	235.9	235.9	235.9	234.0	237.4	239.3	240.3	239.8	240.8	245.2	243.2
45°	207.2	207.7	207.2	206.7	207.2	208.1	207.2	206.7	206.7	208.1	205.2
47.5°	182.3	182.3	180.8	179.4	180.8	181.3	179.9	178.4	177.9	177.4	172.6
50°	159.9	159.4	158.9	156.5	157.9	158.4	156.5	155.5	153.5	151.1	145.3
52.5°	140.4	139.9	139.4	137.0	138.0	138.4	136.5	134.5	132.1	130.2	122.8
55°	123.8	123.3	123.3	121.9	120.9	121.9	119.9	118.4	115.0	112.6	105.3
57.5°	109.7	109.7	108.7	107.2	107.7	107.7	105.8	103.8	100.9	98.0	92.1
60°	97.5	97.5	97.5	96.0	96.0	96.0	95.1	93.1	90.7	87.7	81.9
62.5°	87.7	87.7	87.2	85.8	86.3	86.3	85.3	83.4	80.9	79.0	73.1
65°	79.9	79.9	79.9	78.5	78.5	79.0	78.0	76.1	74.1	71.7	66.3
67.5°	70.2	69.7	69.7	68.7	69.2	69.7	68.7	67.3	64.8	63.4	58.5
70°	58.0	58.5	59.0	57.5	58.0	58.0	57.5	56.1	54.6	53.1	48.8
72.5°	47.3	47.3	46.8	46.3	46.3	46.8	45.8	44.4	43.4	42.4	39.0
75°	36.1	35.6	36.1	35.1	35.1	35.1	34.1	33.6	33.1	31.7	29.2
77.5°	26.3	25.8	25.8	24.9	25.4	25.4	24.9	23.9	22.9	22.4	20.5
80°	18.0	18.0	18.0	17.6	17.6	17.1	17.1	16.6	15.6	15.1	14.1
82.5°	12.2	12.2	12.2	11.7	11.7	11.7	11.2	10.7	10.2	9.7	8.8
85°	7.8	7.8	7.8	7.3	7.3	7.3	6.8	6.8	6.3	5.8	4.9
87.5°	4.4	4.4	4.4	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4
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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	507.9	501.1	505.5	505.5	504.0	507.9	510.4	512.3	511.8	507.4	506.9
5°	504.0	498.2	503.0	503.5	502.1	507.4	510.9	513.3	513.8	509.9	510.4
7.5°	501.1	496.2	502.6	504.5	504.0	508.9	512.8	516.7	518.7	515.7	516.2
10°	499.6	495.7	502.6	505.5	506.0	511.3	517.2	522.6	525.0	523.0	524.5
12.5°	497.7	495.3	503.0	507.4	509.4	514.8	522.1	528.4	532.3	531.3	534.2
15°	495.7	493.8	503.0	509.4	511.8	516.7	525.0	534.2	538.6	538.1	542.1
17.5°	490.9	490.4	500.1	506.9	510.4	516.2	524.0	535.2	539.6	540.6	545.5
20°	483.1	483.1	493.8	501.1	505.0	510.4	520.1	530.8	536.2	537.2	542.5
22.5°	472.3	473.3	483.6	490.9	496.7	500.6	510.9	522.1	526.9	528.4	534.2
25°	458.2	459.2	468.9	476.2	482.6	487.0	496.7	506.9	512.8	514.3	518.7
27.5°	439.7	441.6	450.9	458.2	463.6	466.5	476.7	487.5	491.8	493.3	497.7
30°	418.2	418.7	428.0	434.3	439.7	442.1	450.9	462.1	465.5	467.0	473.3
32.5°	391.9	391.4	400.2	406.1	410.4	413.4	422.6	429.9	433.4	435.8	439.2
35°	360.2	359.7	366.1	372.9	376.3	377.3	386.6	394.3	396.3	398.2	402.6
37.5°	324.7	324.7	330.0	333.4	337.3	338.8	343.2	352.0	355.4	354.9	358.3
40°	287.1	285.2	289.1	292.5	293.5	293.9	298.3	305.1	307.6	307.6	310.0
42.5°	247.6	244.7	245.2	247.1	248.1	244.7	247.6	252.0	250.5	252.5	253.0
45°	205.7	201.3	199.4	195.0	196.0	192.5	190.6	191.6	191.1	186.2	187.2
47.5°	171.6	163.8	160.4	154.0	152.6	148.7	146.2	141.8	138.0	138.0	135.5
50°	142.8	135.0	128.2	120.9	118.4	115.0	109.7	103.8	100.9	98.0	95.5
52.5°	119.9	111.6	103.3	95.5	92.1	87.7	80.4	74.6	69.2	66.3	63.4
55°	101.4	92.1	83.4	75.1	70.7	66.3	59.0	52.2	45.8	41.9	39.5
57.5°	87.2	78.5	69.2	60.4	56.5	51.7	43.9	36.6	30.7	26.3	23.9
60°	77.0	68.2	60.0	50.7	46.8	41.9	33.6	26.8	21.0	17.1	14.1
62.5°	68.2	60.4	51.7	43.4	39.5	34.6	26.8	20.0	14.6	10.7	8.3
65°	61.9	54.1	46.8	38.5	35.1	30.2	22.9	16.6	11.7	8.3	5.8
67.5°	54.6	47.8	40.5	33.6	30.2	26.3	19.5	14.1	9.7	6.8	4.9
70°	45.8	40.5	34.1	27.8	25.4	21.9	16.1	11.7	7.8	5.4	3.9
72.5°	36.6	32.2	27.3	22.4	20.5	17.1	13.2	9.3	5.8	3.9	2.9
75°	27.8	24.4	20.5	17.1	15.1	13.2	9.7	6.8	4.4	2.9	1.9
77.5°	19.0	17.6	14.6	11.7	10.7	9.3	6.3	4.4	2.9	1.9	1.0
80°	13.2	11.7	9.7	7.8	6.8	5.8	3.9	2.9	1.5	1.0	0.5
82.5°	8.3	6.8	5.8	4.9	4.4	3.4	2.4	1.5	1.0	0.5	0.5
85°	4.4	3.9	3.4	2.4	2.4	1.9	1.5	1.0	0.5	0.0	0.0
87.5°	2.4	1.9	1.5	1.0	1.0	0.5	0.5	0.5	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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	512.8	512.8	512.3	518.2	511.3	518.2	514.8	518.2	513.3	512.8	513.3
5°	516.7	518.2	518.7	524.0	517.7	526.0	523.0	526.0	522.6	523.5	525.0
7.5°	524.5	526.9	526.5	533.3	526.9	536.2	534.2	538.6	535.2	536.2	538.1
10°	533.3	536.2	536.7	543.5	537.7	548.9	546.4	551.3	548.4	549.9	552.3
12.5°	543.5	546.9	547.4	555.2	548.9	560.6	559.1	564.0	561.5	563.0	565.9
15°	551.3	556.2	557.2	565.0	558.1	570.3	569.3	575.7	571.8	574.2	576.7
17.5°	555.2	559.6	561.5	568.9	563.0	575.2	574.2	579.6	576.7	579.1	582.0
20°	552.8	558.1	559.6	566.9	561.1	573.3	571.8	577.2	574.2	576.2	579.1
22.5°	544.0	549.4	551.3	558.1	552.8	564.0	563.5	568.4	564.5	566.9	569.3
25°	528.4	534.2	535.2	541.6	535.7	547.4	546.4	551.8	548.9	550.3	553.7
27.5°	506.0	512.8	514.3	519.6	515.2	525.0	525.0	529.4	526.0	526.0	529.4
30°	479.2	486.0	487.0	491.4	487.5	496.2	496.7	501.1	495.7	498.7	499.2
32.5°	446.5	450.9	453.8	457.7	451.9	463.1	461.6	465.0	462.1	462.1	464.6
35°	407.0	412.4	413.9	418.7	413.9	422.6	422.6	424.6	421.6	421.6	425.5
37.5°	364.1	368.0	368.5	373.4	369.5	376.8	376.3	377.8	374.9	376.8	376.8
40°	313.9	316.8	317.8	320.3	319.8	325.1	324.7	325.6	324.2	324.7	325.6
42.5°	255.4	259.3	261.3	263.2	260.3	267.6	266.2	267.6	267.1	267.6	269.1
45°	188.2	191.1	192.5	193.0	192.1	196.4	199.8	196.9	197.4	196.4	198.4
47.5°	136.0	136.5	135.5	138.4	136.0	138.0	138.9	139.4	136.5	136.0	138.0
50°	93.1	95.5	92.1	93.6	93.1	95.1	94.1	94.6	91.6	93.1	92.1
52.5°	61.9	61.4	60.4	60.9	60.0	60.0	60.0	60.9	59.0	58.0	57.0
55°	37.5	36.6	34.6	34.1	34.1	34.6	33.6	32.7	32.7	32.2	32.2
57.5°	21.9	20.5	19.5	19.0	18.0	17.6	17.1	17.1	16.1	16.1	16.1
60°	12.2	10.7	9.7	8.8	8.8	8.3	7.8	7.3	7.3	7.3	6.8
62.5°	6.3	5.4	4.4	3.9	3.9	3.4	2.9	2.9	2.9	2.9	2.4
65°	4.4	3.4	2.9	2.4	2.4	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	3.4	2.9	2.4	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5
70°	2.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P685225

CATALOG NUMBER: LX6C08D010 EX6089035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	517.7	517.2	517.7	518.7	516.7	522.6	519.6	522.6
5°	528.9	529.4	529.9	531.3	528.9	536.2	532.3	536.7
7.5°	543.5	544.0	544.5	546.0	544.5	551.8	547.4	551.3
10°	558.6	559.6	559.6	562.0	560.6	567.4	564.5	569.3
12.5°	572.8	573.7	574.7	576.2	575.2	582.5	580.1	584.0
15°	584.0	585.9	586.4	588.3	587.4	595.2	592.3	596.2
17.5°	589.3	591.3	591.3	593.7	592.7	601.0	597.1	601.5
20°	586.4	587.9	588.3	590.8	589.8	598.1	594.2	599.6
22.5°	577.2	577.6	578.1	580.6	580.1	587.4	584.0	587.4
25°	560.1	561.5	561.1	563.0	563.0	568.9	565.0	567.9
27.5°	535.7	537.2	537.2	539.6	537.7	543.5	539.6	544.0
30°	506.0	507.4	506.5	508.4	506.5	512.3	509.4	510.9
32.5°	470.4	470.4	470.9	471.4	470.4	475.7	472.8	475.7
35°	428.0	429.0	429.4	429.9	429.0	432.9	429.4	431.4
37.5°	380.2	382.7	382.2	382.7	381.2	386.1	383.1	384.1
40°	329.0	329.0	328.5	329.5	328.1	332.0	330.0	331.0
42.5°	269.6	271.0	269.1	271.5	267.6	273.0	271.0	269.6
45°	202.3	200.3	199.8	200.3	198.9	199.4	200.8	199.8
47.5°	138.0	138.0	137.0	135.5	137.5	138.0	136.0	136.0
50°	92.6	92.6	91.6	91.1	92.1	91.6	90.7	92.1
52.5°	59.0	57.0	57.0	58.0	57.0	56.1	57.5	56.5
55°	32.2	31.2	31.2	32.2	31.2	31.2	30.7	31.7
57.5°	15.6	16.1	15.6	15.6	15.6	15.6	15.1	15.6
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
62.5°	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.5	1.5	1.5	1.5	1.5	1.9	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
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)