

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: P685220

Luminaire Tested: **LX6C08D010 EX6089030 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: P685220
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 EX6089030 6LCSWLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

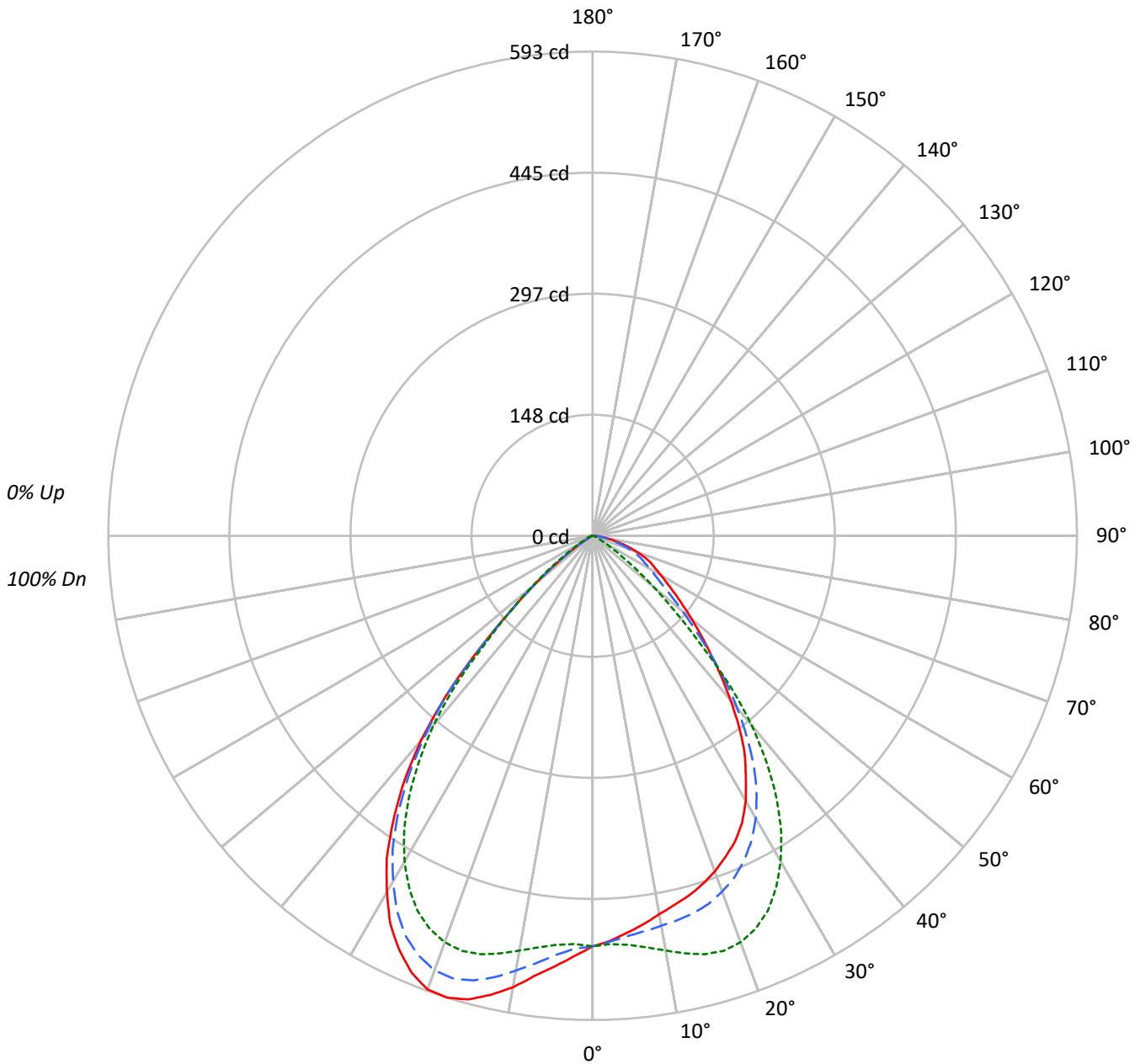
Lumens per Lamp: N/A
Luminaire Lumens: 919.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (Ain): 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			
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°	27564	27564	27564
5°	26849	27669	29122
10°	26196	28707	31251
15°	25886	30114	33360
20°	25517	30902	34490
25°	24975	30673	33873
30°	23731	29150	31885
35°	21710	26281	28469
40°	18778	21705	23358
45°	15839	14234	15281
50°	13449	8239	7752
55°	11670	3947	2982
60°	10536	1842	735
65°	10222	1064	246
70°	9168	850	224
75°	7540	614	106
80°	5619	316	0
85°	4843	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	5.3
10°-20°	148.0	16.1
20°-30°	226.1	24.6
30°-40°	236.5	25.7
40°-50°	153.4	16.7
50°-60°	60.9	6.6
60°-70°	28.9	3.1
70°-80°	13.7	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°	422.7	46.0
0°-40°	659.2	71.7
0°-60°	873.6	95.1
0°-90°	919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	503	503	503	503	503	
5°	488	492	503	515	529	46
15°	456	478	531	564	588	129
25°	413	439	507	541	560	189
35°	324	344	393	416	425	201
45°	204	202	184	195	197	159
55°	122	104	41	32	31	111
65°	79	65	8	2	2	77
75°	36	29	3	1	0	38
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°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	496.5	497.5	492.2	490.8	494.6	496.0	496.5	495.1	495.6	497.5	497.5
5°	487.9	488.8	484.0	482.6	486.4	487.4	488.8	488.4	489.8	492.7	492.2
7.5°	479.7	481.1	475.8	473.9	478.7	481.1	482.1	482.1	484.0	487.9	488.4
10°	470.6	472.5	467.7	466.7	472.0	474.4	474.9	475.8	478.7	484.0	485.0
12.5°	462.9	464.8	461.4	460.0	465.8	468.2	469.1	471.0	474.4	481.1	482.1
15°	456.1	457.6	453.7	452.8	458.5	461.4	461.9	464.8	469.1	476.8	478.3
17.5°	447.5	448.4	445.6	444.6	450.4	453.2	453.7	457.1	462.4	470.1	472.5
20°	437.4	438.4	435.5	434.5	440.3	443.6	444.1	447.0	453.2	461.4	463.8
22.5°	425.4	427.3	423.9	423.0	428.8	431.6	433.1	435.5	441.7	449.9	453.2
25°	412.9	412.9	410.5	410.0	415.3	418.7	418.2	421.5	427.8	436.0	438.8
27.5°	396.5	396.1	393.7	393.2	398.9	401.8	400.9	404.2	410.0	418.2	421.1
30°	374.9	375.9	372.5	371.5	376.4	381.2	380.7	384.0	389.8	397.5	399.4
32.5°	349.0	349.9	349.4	348.0	352.3	354.7	356.2	358.6	363.4	371.5	373.5
35°	324.4	323.0	321.1	321.1	325.4	329.2	327.8	330.7	335.5	343.7	344.2
37.5°	294.2	293.7	292.7	291.8	296.6	297.5	298.0	299.9	304.3	311.0	310.0
40°	262.4	262.9	262.4	260.5	263.4	267.2	266.8	267.7	271.6	276.4	274.9
42.5°	232.6	232.6	232.6	230.7	234.1	236.0	237.0	236.5	237.4	241.8	239.8
45°	204.3	204.8	204.3	203.8	204.3	205.2	204.3	203.8	203.8	205.2	202.4
47.5°	179.8	179.8	178.3	176.9	178.3	178.8	177.4	175.9	175.4	175.0	170.2
50°	157.7	157.2	156.7	154.3	155.7	156.2	154.3	153.3	151.4	149.0	143.2
52.5°	138.4	137.9	137.5	135.1	136.0	136.5	134.6	132.7	130.3	128.3	121.1
55°	122.1	121.6	121.6	120.2	119.2	120.2	118.2	116.8	113.4	111.0	103.8
57.5°	108.1	108.1	107.2	105.7	106.2	106.2	104.3	102.4	99.5	96.6	90.9
60°	96.1	96.1	96.1	94.7	94.7	94.7	93.7	91.8	89.4	86.5	80.8
62.5°	86.5	86.5	86.0	84.6	85.1	85.1	84.1	82.2	79.8	77.9	72.1
65°	78.8	78.8	78.8	77.4	77.4	77.9	76.9	75.0	73.1	70.7	65.4
67.5°	69.2	68.7	68.7	67.8	68.3	68.7	67.8	66.3	63.9	62.5	57.7
70°	57.2	57.7	58.2	56.7	57.2	57.2	56.7	55.3	53.8	52.4	48.1
72.5°	46.6	46.6	46.1	45.7	45.7	46.1	45.2	43.7	42.8	41.8	38.4
75°	35.6	35.1	35.6	34.6	34.6	34.6	33.6	33.2	32.7	31.2	28.8
77.5°	26.0	25.5	25.5	24.5	25.0	25.0	24.5	23.6	22.6	22.1	20.2
80°	17.8	17.8	17.8	17.3	17.3	16.8	16.8	16.3	15.4	14.9	13.9
82.5°	12.0	12.0	12.0	11.5	11.5	11.5	11.1	10.6	10.1	9.6	8.7
85°	7.7	7.7	7.7	7.2	7.2	7.2	6.7	6.7	6.3	5.8	4.8
87.5°	4.3	4.3	4.3	3.8	3.8	3.8	3.8	3.8	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°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	500.8	494.1	498.4	498.4	497.0	500.8	503.3	505.2	504.7	500.4	499.9
5°	497.0	491.2	496.0	496.5	495.1	500.4	503.7	506.1	506.6	502.8	503.3
7.5°	494.1	489.3	495.6	497.5	497.0	501.8	505.7	509.5	511.4	508.5	509.0
10°	492.7	488.8	495.6	498.4	498.9	504.2	510.0	515.3	517.7	515.7	517.2
12.5°	490.8	488.4	496.0	500.4	502.3	507.6	514.8	521.0	524.9	523.9	526.8
15°	488.8	486.9	496.0	502.3	504.7	509.5	517.7	526.8	531.1	530.6	534.5
17.5°	484.0	483.5	493.2	499.9	503.3	509.0	516.7	527.8	532.1	533.0	537.9
20°	476.3	476.3	486.9	494.1	498.0	503.3	512.9	523.4	528.7	529.7	535.0
22.5°	465.8	466.7	476.8	484.0	489.8	493.6	503.7	514.8	519.6	521.0	526.8
25°	451.8	452.8	462.4	469.6	475.8	480.2	489.8	499.9	505.7	507.1	511.4
27.5°	433.6	435.5	444.6	451.8	457.1	460.0	470.1	480.7	485.0	486.4	490.8
30°	412.4	412.9	422.0	428.3	433.6	436.0	444.6	455.7	459.0	460.5	466.7
32.5°	386.4	386.0	394.6	400.4	404.7	407.6	416.7	423.9	427.3	429.7	433.1
35°	355.2	354.7	361.0	367.7	371.1	372.0	381.2	388.8	390.8	392.7	397.0
37.5°	320.1	320.1	325.4	328.8	332.6	334.1	338.4	347.0	350.4	349.9	353.3
40°	283.1	281.2	285.0	288.4	289.4	289.8	294.2	300.9	303.3	303.3	305.7
42.5°	244.2	241.3	241.8	243.7	244.6	241.3	244.2	248.5	247.0	249.0	249.5
45°	202.8	198.5	196.6	192.3	193.2	189.9	187.9	188.9	188.4	183.6	184.6
47.5°	169.2	161.5	158.1	151.9	150.5	146.6	144.2	139.9	136.0	136.0	133.6
50°	140.8	133.1	126.4	119.2	116.8	113.4	108.1	102.4	99.5	96.6	94.2
52.5°	118.2	110.1	101.9	94.2	90.9	86.5	79.3	73.5	68.3	65.4	62.5
55°	100.0	90.9	82.2	74.0	69.7	65.4	58.2	51.4	45.2	41.3	38.9
57.5°	86.0	77.4	68.3	59.6	55.8	50.9	43.3	36.0	30.3	26.0	23.6
60°	75.9	67.3	59.1	50.0	46.1	41.3	33.2	26.4	20.7	16.8	13.9
62.5°	67.3	59.6	50.9	42.8	38.9	34.1	26.4	19.7	14.4	10.6	8.2
65°	61.0	53.3	46.1	38.0	34.6	29.8	22.6	16.3	11.5	8.2	5.8
67.5°	53.8	47.1	39.9	33.2	29.8	26.0	19.2	13.9	9.6	6.7	4.8
70°	45.2	39.9	33.6	27.4	25.0	21.6	15.9	11.5	7.7	5.3	3.8
72.5°	36.0	31.7	26.9	22.1	20.2	16.8	13.0	9.1	5.8	3.8	2.9
75°	27.4	24.0	20.2	16.8	14.9	13.0	9.6	6.7	4.3	2.9	1.9
77.5°	18.8	17.3	14.4	11.5	10.6	9.1	6.3	4.3	2.9	1.9	1.0
80°	13.0	11.5	9.6	7.7	6.7	5.8	3.8	2.9	1.4	1.0	0.5
82.5°	8.2	6.7	5.8	4.8	4.3	3.4	2.4	1.4	1.0	0.5	0.5
85°	4.3	3.8	3.4	2.4	2.4	1.9	1.4	1.0	0.5	0.0	0.0
87.5°	2.4	1.9	1.4	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°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	505.7	505.7	505.2	510.9	504.2	510.9	507.6	510.9	506.1	505.7	506.1
5°	509.5	510.9	511.4	516.7	510.5	518.6	515.7	518.6	515.3	516.2	517.7
7.5°	517.2	519.6	519.1	525.8	519.6	528.7	526.8	531.1	527.8	528.7	530.6
10°	525.8	528.7	529.2	535.9	530.2	541.2	538.8	543.6	540.7	542.2	544.6
12.5°	535.9	539.3	539.8	547.5	541.2	552.8	551.3	556.1	553.7	555.2	558.0
15°	543.6	548.4	549.4	557.1	550.4	562.4	561.4	567.7	563.8	566.2	568.6
17.5°	547.5	551.8	553.7	560.9	555.2	567.2	566.2	571.5	568.6	571.0	573.9
20°	545.1	550.4	551.8	559.0	553.2	565.3	563.8	569.1	566.2	568.1	571.0
22.5°	536.4	541.7	543.6	550.4	545.1	556.1	555.6	560.5	556.6	559.0	561.4
25°	521.0	526.8	527.8	534.0	528.2	539.8	538.8	544.1	541.2	542.7	546.0
27.5°	498.9	505.7	507.1	512.4	508.1	517.7	517.7	522.0	518.6	518.6	522.0
30°	472.5	479.2	480.2	484.5	480.7	489.3	489.8	494.1	488.8	491.7	492.2
32.5°	440.3	444.6	447.5	451.3	445.6	456.6	455.2	458.5	455.7	455.7	458.1
35°	401.3	406.6	408.1	412.9	408.1	416.7	416.7	418.7	415.8	415.8	419.6
37.5°	359.1	362.9	363.4	368.2	364.3	371.5	371.1	372.5	369.6	371.5	371.5
40°	309.5	312.4	313.4	315.8	315.3	320.6	320.1	321.1	319.6	320.1	321.1
42.5°	251.9	255.7	257.6	259.5	256.7	263.9	262.4	263.9	263.4	263.9	265.3
45°	185.5	188.4	189.9	190.3	189.4	193.7	197.1	194.2	194.7	193.7	195.6
47.5°	134.1	134.6	133.6	136.5	134.1	136.0	137.0	137.5	134.6	134.1	136.0
50°	91.8	94.2	90.9	92.3	91.8	93.7	92.8	93.3	90.4	91.8	90.9
52.5°	61.0	60.6	59.6	60.1	59.1	59.1	59.1	60.1	58.2	57.2	56.2
55°	37.0	36.0	34.1	33.6	33.6	34.1	33.2	32.2	32.2	31.7	31.7
57.5°	21.6	20.2	19.2	18.8	17.8	17.3	16.8	16.8	15.9	15.9	15.9
60°	12.0	10.6	9.6	8.7	8.7	8.2	7.7	7.2	7.2	7.2	6.7
62.5°	6.3	5.3	4.3	3.8	3.8	3.4	2.9	2.9	2.9	2.9	2.4
65°	4.3	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	1.4	1.4	1.4	1.4	1.4
70°	2.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	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



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CATALOG NUMBER: LX6C08D010 EX6089030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	510.5	510.0	510.5	511.4	509.5	515.3	512.4	515.3
5°	521.5	522.0	522.5	523.9	521.5	528.7	524.9	529.2
7.5°	535.9	536.4	536.9	538.3	536.9	544.1	539.8	543.6
10°	550.8	551.8	551.8	554.2	552.8	559.5	556.6	561.4
12.5°	564.8	565.7	566.7	568.1	567.2	574.4	572.0	575.8
15°	575.8	577.7	578.2	580.1	579.2	586.9	584.0	587.8
17.5°	581.1	583.0	583.0	585.4	584.5	592.6	588.8	593.1
20°	578.2	579.7	580.1	582.6	581.6	589.8	585.9	591.2
22.5°	569.1	569.6	570.1	572.5	572.0	579.2	575.8	579.2
25°	552.3	553.7	553.2	555.2	555.2	560.9	557.1	560.0
27.5°	528.2	529.7	529.7	532.1	530.2	535.9	532.1	536.4
30°	498.9	500.4	499.4	501.3	499.4	505.2	502.3	503.7
32.5°	463.8	463.8	464.3	464.8	463.8	469.1	466.2	469.1
35°	422.0	423.0	423.5	423.9	423.0	426.8	423.5	425.4
37.5°	374.9	377.3	376.8	377.3	375.9	380.7	377.8	378.8
40°	324.4	324.4	324.0	324.9	323.5	327.3	325.4	326.4
42.5°	265.8	267.2	265.3	267.7	263.9	269.2	267.2	265.8
45°	199.5	197.5	197.1	197.5	196.1	196.6	198.0	197.1
47.5°	136.0	136.0	135.1	133.6	135.5	136.0	134.1	134.1
50°	91.3	91.3	90.4	89.9	90.9	90.4	89.4	90.9
52.5°	58.2	56.2	56.2	57.2	56.2	55.3	56.7	55.8
55°	31.7	30.8	30.8	31.7	30.8	30.8	30.3	31.2
57.5°	15.4	15.9	15.4	15.4	15.4	15.4	14.9	15.4
60°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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°	1.4	1.4	1.4	1.4	1.4	1.9	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	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)