

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: P563911

Luminaire Tested: **LX6C15D010 EX6C159030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C15D010 EX6C159030 6LCSWH
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

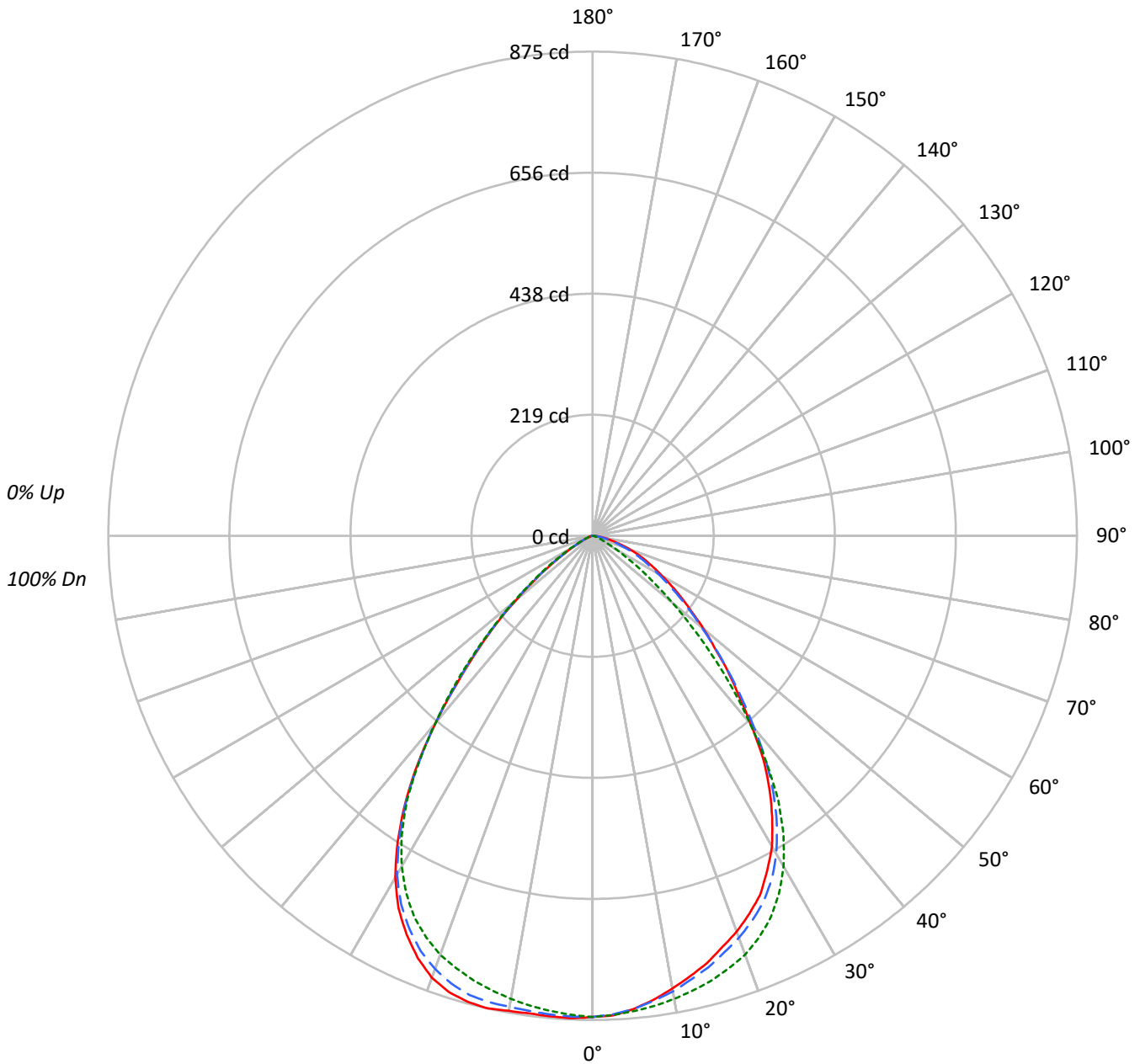
Lumens per Lamp: N/A
Luminaire Lumens: 1459.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47677	47677	47677
5°	47221	47452	47975
10°	46247	47299	48529
15°	45363	47208	49478
20°	44419	46997	49570
25°	43327	46055	48094
30°	41025	43678	45140
35°	37256	39150	39505
40°	31795	31645	31495
45°	26708	23692	22964
50°	22302	16034	15232
55°	18771	9835	8936
60°	15898	5186	4495
65°	13763	2724	2179
70°	11444	1683	1170
75°	8451	1123	678
80°	6630	663	347
85°	5284	692	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	5.6
10°-20°	234.7	16.1
20°-30°	346.5	23.8
30°-40°	357.1	24.5
40°-50°	246.7	16.9
50°-60°	121.6	8.3
60°-70°	49.3	3.4
70°-80°	17.6	1.2
80°-90°	3.6	0.2
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°	663.2	45.5
0°-40°	1020.3	69.9
0°-60°	1388.5	95.2
0°-90°	1459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	870	870	870	870	870	
5°	858	858	862	869	872	81
15°	799	808	832	859	872	225
25°	716	730	761	784	795	327
35°	557	570	585	588	590	345
45°	344	347	306	301	296	266
55°	196	189	103	97	94	177
65°	106	96	21	17	17	105
75°	40	34	5	3	3	45
85°	8	6	1	0	0	10
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°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	867.5	864.4	866.5	862.3	867.5	862.3	863.4	864.4	863.4	864.4	865.4
5°	858.1	854.9	858.1	852.8	858.1	854.9	854.9	856.0	856.0	857.0	858.1
7.5°	845.5	842.3	845.5	840.2	846.5	843.4	843.4	845.5	844.4	845.5	847.6
10°	830.8	826.6	829.7	826.6	832.9	828.7	830.8	830.8	830.8	833.9	836.1
12.5°	815.0	810.8	815.0	809.8	816.1	813.0	814.0	817.1	818.2	820.3	821.3
15°	799.3	794.0	796.1	793.0	799.3	796.1	797.2	801.4	801.4	804.5	807.7
17.5°	779.3	775.1	779.3	775.1	780.4	778.3	780.4	783.5	783.5	786.7	789.8
20°	761.4	757.3	760.4	757.3	763.6	760.4	761.4	765.7	766.7	769.9	773.0
22.5°	739.4	736.3	738.3	735.2	741.5	739.4	740.5	744.7	745.7	747.8	753.1
25°	716.3	710.0	713.1	711.1	717.4	714.2	716.3	720.5	722.6	725.7	730.0
27.5°	682.7	679.5	681.6	681.6	686.9	683.8	684.8	689.0	692.1	695.3	700.5
30°	648.1	642.8	644.9	645.9	650.1	648.1	650.1	654.3	655.4	659.6	663.8
32.5°	603.9	601.8	606.0	603.9	606.0	606.0	607.1	610.2	612.3	614.4	619.7
35°	556.7	552.5	556.7	554.6	559.8	556.7	559.8	563.0	563.0	567.2	570.3
37.5°	505.2	499.9	502.0	502.0	504.1	503.1	503.1	508.4	509.4	512.5	515.7
40°	444.3	442.2	446.4	445.3	446.4	446.4	447.4	450.6	452.7	453.7	454.8
42.5°	389.7	390.7	391.8	391.8	391.8	391.8	391.8	396.0	394.9	398.1	399.1
45°	344.5	340.3	342.4	341.4	344.5	341.4	344.5	347.6	345.6	348.7	346.6
47.5°	298.3	298.3	298.3	297.2	299.3	298.3	300.4	301.4	301.4	301.4	300.4
50°	261.5	258.4	259.4	259.4	260.5	259.4	261.5	262.6	262.6	260.5	256.3
52.5°	225.8	224.8	224.8	226.9	226.9	225.8	225.8	225.8	225.8	222.7	220.5
55°	196.4	194.3	195.3	195.3	195.3	195.3	196.4	195.3	195.3	192.2	189.1
57.5°	170.2	168.1	168.1	168.1	169.1	168.1	168.1	168.1	167.0	163.8	159.6
60°	145.0	143.9	145.0	145.0	146.0	145.0	145.0	145.0	142.9	139.7	135.5
62.5°	123.9	123.9	123.9	125.0	125.0	123.9	123.9	122.9	121.8	117.6	113.4
65°	106.1	105.0	106.1	106.1	107.1	107.1	106.1	105.0	104.0	99.8	95.6
67.5°	88.2	87.2	88.2	88.2	89.3	88.2	88.2	88.2	85.1	83.0	78.8
70°	71.4	70.4	70.4	70.4	71.4	69.3	70.4	70.4	68.3	65.1	60.9
72.5°	54.6	54.6	54.6	54.6	54.6	54.6	53.6	53.6	51.5	48.3	46.2
75°	39.9	39.9	41.0	41.0	39.9	39.9	39.9	38.9	37.8	35.7	33.6
77.5°	29.4	29.4	29.4	29.4	28.4	28.4	28.4	27.3	26.3	25.2	23.1
80°	21.0	21.0	21.0	19.9	21.0	19.9	19.9	19.9	17.9	16.8	15.8
82.5°	14.7	13.7	13.7	13.7	13.7	13.7	13.7	12.6	12.6	11.6	10.5
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.3	6.3	6.3
87.5°	4.2	5.3	5.3	5.3	5.3	5.3	5.3	4.2	4.2	4.2	3.2
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°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	865.4	865.4	867.5	864.4	869.7	866.5	865.4	870.7	867.5	866.5	868.6
5°	858.1	859.2	860.2	858.1	863.4	860.2	860.2	865.4	863.4	862.3	865.4
7.5°	848.7	849.7	851.8	850.8	854.9	852.8	853.9	859.2	857.0	857.0	860.2
10°	837.1	839.2	841.3	841.3	846.5	844.4	844.4	850.8	848.7	849.7	853.9
12.5°	823.4	826.6	829.7	830.8	836.1	832.9	833.9	841.3	840.2	841.3	845.5
15°	808.7	813.0	816.1	816.1	822.4	819.2	822.4	829.7	827.6	831.8	837.1
17.5°	791.9	796.1	800.3	801.4	807.7	805.6	809.8	817.1	817.1	819.2	825.6
20°	776.2	781.4	783.5	786.7	793.0	791.9	794.0	802.4	802.4	805.6	811.9
22.5°	755.2	760.4	764.6	767.8	773.0	773.0	776.2	783.5	783.5	785.6	791.9
25°	732.1	738.3	741.5	744.7	749.9	748.9	752.0	758.3	759.4	761.4	767.8
27.5°	702.6	707.9	712.1	714.2	721.6	717.4	720.5	727.9	726.8	728.9	734.2
30°	665.9	671.2	675.3	675.3	681.6	681.6	684.8	687.9	687.9	690.0	694.3
32.5°	622.8	629.1	629.1	632.3	636.5	632.3	636.5	640.7	638.6	641.7	644.9
35°	573.4	576.6	577.7	577.7	580.8	579.8	578.7	581.9	579.8	585.0	588.2
37.5°	513.6	517.8	515.7	517.8	516.7	513.6	513.6	518.9	514.6	515.7	518.9
40°	455.8	455.8	454.8	449.5	450.6	447.4	446.4	447.4	443.2	442.2	446.4
42.5°	396.0	394.9	391.8	384.4	385.4	380.2	376.0	376.0	373.9	372.8	373.9
45°	342.4	339.2	334.0	325.6	323.5	319.3	310.9	308.8	305.6	305.6	306.7
47.5°	293.0	288.8	280.4	271.0	265.7	260.5	252.1	248.9	243.7	241.6	243.7
50°	252.1	244.7	234.2	220.5	215.3	209.0	200.6	195.3	190.1	188.0	186.9
52.5°	214.3	203.8	193.3	176.5	172.2	166.0	154.4	149.1	143.9	139.7	139.7
55°	181.7	172.2	157.6	141.8	135.5	129.2	117.6	110.3	105.0	102.9	100.8
57.5°	152.3	141.8	128.1	111.3	105.0	98.7	87.2	79.8	74.6	71.4	69.3
60°	128.1	116.6	102.9	88.2	80.9	74.6	63.0	55.7	50.4	47.3	45.1
62.5°	105.0	95.6	81.9	68.3	62.0	55.7	46.2	38.9	33.6	31.5	28.4
65°	88.2	78.8	66.2	54.6	49.4	43.1	34.7	28.4	24.2	21.0	18.9
67.5°	71.4	64.1	53.6	43.1	37.8	33.6	26.3	21.0	16.8	14.7	13.7
70°	56.7	49.4	41.0	32.5	29.4	25.2	19.9	14.7	12.6	10.5	9.4
72.5°	42.0	36.8	30.5	24.2	21.0	18.9	13.7	11.6	8.4	7.3	6.3
75°	30.5	26.3	22.0	16.8	14.7	13.7	10.5	7.3	6.3	5.3	4.2
77.5°	21.0	18.9	14.7	11.6	10.5	9.4	7.3	5.3	4.2	3.2	3.2
80°	13.7	11.6	9.4	7.3	7.3	6.3	4.2	3.2	3.2	2.1	2.1
82.5°	8.4	7.3	6.3	5.3	4.2	4.2	3.2	2.1	2.1	1.1	1.1
85°	5.3	4.2	3.2	3.2	2.1	2.1	2.1	1.1	1.1	1.1	1.1
87.5°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	868.6	868.6	870.7	867.5	869.7	869.7	871.8	867.5	869.7	870.7	872.8
5°	864.4	865.4	867.5	866.5	867.5	867.5	869.7	864.4	868.6	868.6	871.8
7.5°	860.2	860.2	862.3	861.3	863.4	864.4	866.5	862.3	866.5	866.5	869.7
10°	854.9	854.9	858.1	857.0	860.2	861.3	864.4	860.2	864.4	865.4	868.6
12.5°	847.6	848.7	851.8	851.8	854.9	857.0	860.2	858.1	863.4	864.4	868.6
15°	839.2	841.3	845.5	844.4	847.6	850.8	854.9	851.8	859.2	861.3	865.4
17.5°	828.7	830.8	833.9	833.9	837.1	839.2	844.4	842.3	848.7	849.7	854.9
20°	813.0	816.1	820.3	819.2	822.4	824.5	828.7	826.6	832.9	835.0	840.2
22.5°	794.0	796.1	799.3	799.3	802.4	804.5	808.7	805.6	811.9	813.0	817.1
25°	768.8	770.9	773.0	774.1	777.2	778.3	780.4	778.3	783.5	784.6	789.8
27.5°	736.3	737.3	740.5	740.5	742.6	743.6	746.8	742.6	749.9	749.9	753.1
30°	697.4	696.4	700.5	698.5	700.5	700.5	703.7	701.6	706.9	704.8	707.9
32.5°	645.9	648.1	648.1	645.9	650.1	649.1	649.1	647.0	650.1	651.2	653.3
35°	586.1	589.2	589.2	590.3	591.3	588.2	589.2	582.9	588.2	589.2	590.3
37.5°	521.0	517.8	519.9	516.7	522.0	515.7	515.7	511.5	515.7	515.7	516.7
40°	446.4	445.3	447.4	445.3	444.3	443.2	441.1	438.0	442.2	440.1	443.2
42.5°	376.0	374.9	374.9	372.8	371.8	371.8	369.7	367.6	366.6	366.6	371.8
45°	303.5	305.6	303.5	302.5	304.6	302.5	303.5	299.3	301.4	299.3	301.4
47.5°	242.6	243.7	241.6	239.5	242.6	239.5	239.5	236.3	240.5	240.5	238.4
50°	188.0	186.9	184.8	186.9	185.9	185.9	185.9	182.7	184.8	181.7	183.8
52.5°	138.6	137.6	137.6	136.5	137.6	136.5	136.5	135.5	135.5	134.4	135.5
55°	100.8	99.8	97.7	97.7	97.7	98.7	97.7	96.6	96.6	95.6	96.6
57.5°	68.3	66.2	66.2	66.2	66.2	65.1	65.1	64.1	65.1	64.1	65.1
60°	44.1	44.1	42.0	42.0	42.0	42.0	42.0	41.0	42.0	42.0	42.0
62.5°	27.3	27.3	26.3	25.2	26.3	25.2	25.2	25.2	26.3	25.2	26.3
65°	17.9	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
67.5°	12.6	11.6	11.6	11.6	11.6	11.6	11.6	10.5	11.6	11.6	11.6
70°	8.4	8.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
75°	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	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	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P563911

CATALOG NUMBER: LX6C15D010 EX6C159030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	869.7	870.7	868.6	869.7	867.5	869.7	870.7	872.8
5°	867.5	868.6	866.5	868.6	866.5	868.6	869.7	871.8
7.5°	865.4	867.5	865.4	867.5	865.4	867.5	868.6	870.7
10°	865.4	868.6	866.5	869.7	866.5	868.6	870.7	871.8
12.5°	865.4	868.6	867.5	869.7	868.6	870.7	872.8	874.9
15°	863.4	866.5	864.4	867.5	866.5	867.5	871.8	871.8
17.5°	851.8	854.9	854.9	857.0	857.0	860.2	862.3	864.4
20°	837.1	840.2	839.2	842.3	842.3	845.5	847.6	849.7
22.5°	815.0	819.2	818.2	821.3	820.3	822.4	826.6	825.6
25°	786.7	791.9	790.9	793.0	791.9	791.9	794.0	795.1
27.5°	752.0	755.2	754.1	756.2	754.1	756.2	758.3	759.4
30°	706.9	709.0	707.9	709.0	707.9	710.0	711.1	713.1
32.5°	652.2	655.4	652.2	654.3	653.3	653.3	657.5	655.4
35°	587.1	588.2	589.2	589.2	587.1	588.2	590.3	590.3
37.5°	514.6	519.9	513.6	516.7	515.7	515.7	515.7	518.9
40°	439.0	440.1	438.0	438.0	438.0	436.9	441.1	440.1
42.5°	367.6	368.7	367.6	364.5	365.5	365.5	368.7	364.5
45°	298.3	300.4	299.3	299.3	297.2	297.2	298.3	296.2
47.5°	236.3	238.4	235.3	236.3	234.2	236.3	235.3	237.4
50°	179.6	181.7	180.7	181.7	181.7	179.6	182.7	178.6
52.5°	134.4	135.5	134.4	133.4	132.4	132.4	134.4	133.4
55°	95.6	94.5	94.5	94.5	95.6	95.6	94.5	93.5
57.5°	64.1	64.1	63.0	63.0	64.1	62.0	63.0	62.0
60°	41.0	41.0	41.0	41.0	39.9	41.0	41.0	41.0
62.5°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
65°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
67.5°	10.5	11.6	11.6	11.6	10.5	10.5	10.5	10.5
70°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	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)