

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

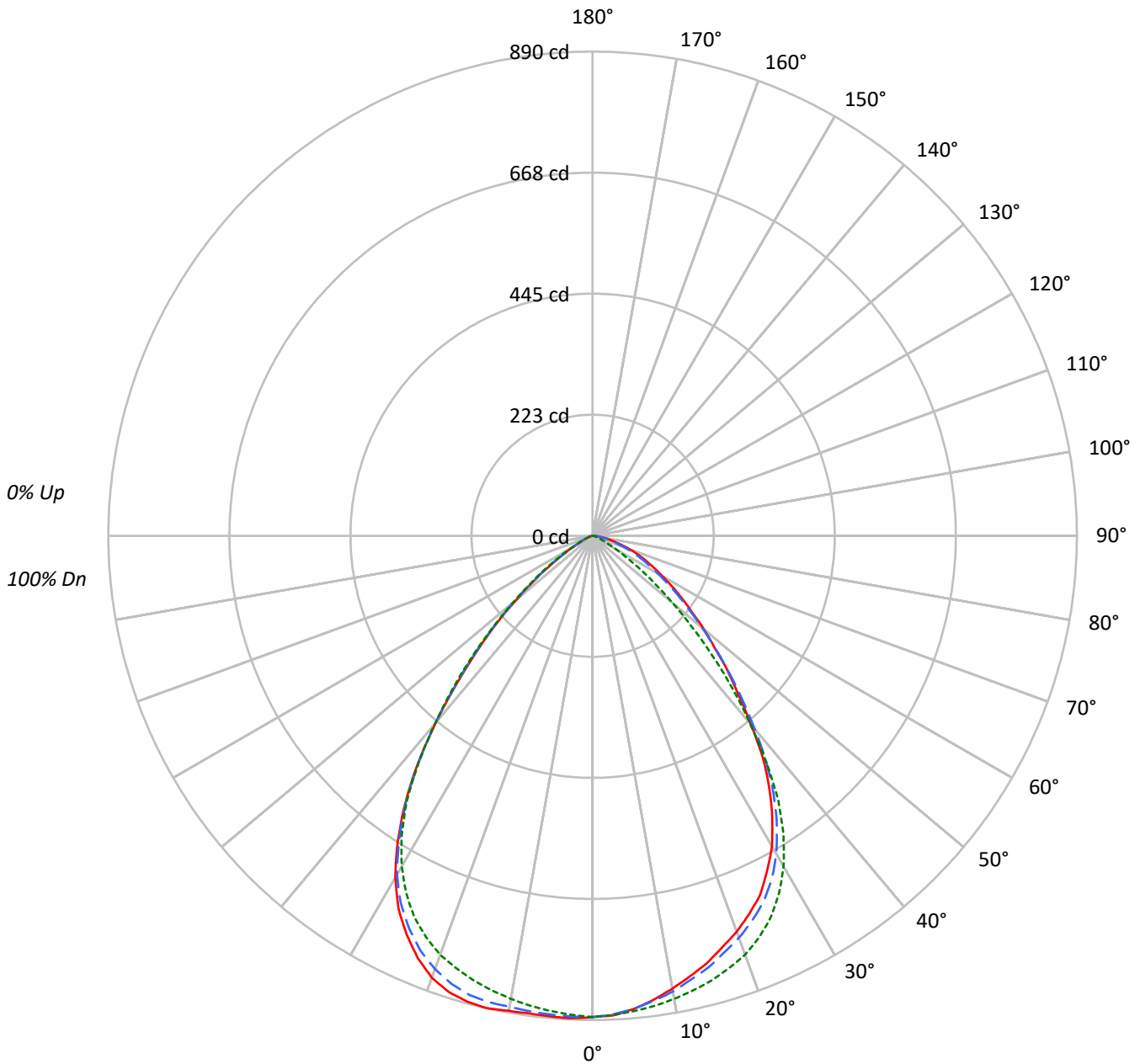
Lumens per Lamp: N/A
Luminaire Lumens: 1484.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					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	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°	48499	48499	48499
5°	48035	48266	48800
10°	47043	48112	49364
15°	46141	48020	50329
20°	45183	47808	50422
25°	44071	46847	48922
30°	41728	44431	45918
35°	37899	39826	40187
40°	32339	32189	32039
45°	27166	24103	23359
50°	22686	16307	15496
55°	19096	10007	9089
60°	16172	5274	4572
65°	13996	2776	2218
70°	11637	1715	1186
75°	8599	1144	699
80°	6756	663	347
85°	5346	692	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	5.6
10°-20°	238.7	16.1
20°-30°	352.5	23.8
30°-40°	363.3	24.5
40°-50°	250.9	16.9
50°-60°	123.7	8.3
60°-70°	50.1	3.4
70°-80°	17.9	1.2
80°-90°	3.7	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°	674.6	45.5
0°-40°	1037.8	69.9
0°-60°	1412.4	95.2
0°-90°	1484.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	885	885	885	885	885	
5°	873	873	877	884	887	82
15°	813	822	846	874	887	229
25°	729	743	774	797	809	333
35°	566	580	595	598	600	351
45°	350	353	311	307	301	271
55°	200	192	105	98	95	181
65°	108	97	21	17	17	107
75°	41	34	5	3	3	46
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°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	882.4	879.3	881.4	877.1	882.4	877.1	878.3	879.3	878.3	879.3	880.3
5°	872.9	869.6	872.9	867.5	872.9	869.6	869.6	870.7	870.7	871.7	872.9
7.5°	860.0	856.8	860.0	854.7	861.1	857.9	857.9	860.0	858.9	860.0	862.2
10°	845.1	840.8	844.0	840.8	847.2	843.0	845.1	845.1	845.1	848.2	850.5
12.5°	829.0	824.7	829.0	823.7	830.1	827.0	828.0	831.2	832.3	834.4	835.4
15°	813.0	807.7	809.8	806.6	813.0	809.8	810.9	815.2	815.2	818.3	821.6
17.5°	792.7	788.4	792.7	788.4	793.8	791.7	793.8	797.0	797.0	800.2	803.4
20°	774.5	770.3	773.5	770.3	776.7	773.5	774.5	778.9	779.9	783.1	786.3
22.5°	752.1	749.0	751.0	747.8	754.3	752.1	753.2	757.5	758.5	760.7	766.1
25°	728.6	722.2	725.4	723.3	729.7	726.5	728.6	732.9	735.0	738.2	742.6
27.5°	694.4	691.2	693.3	693.3	698.7	695.6	696.6	700.9	704.0	707.3	712.5
30°	659.2	653.9	656.0	657.0	661.3	659.2	661.3	665.6	666.7	670.9	675.2
32.5°	614.3	612.2	616.4	614.3	616.4	616.4	617.5	620.7	622.8	625.0	630.4
35°	566.3	562.0	566.3	564.1	569.4	566.3	569.4	572.7	572.7	577.0	580.1
37.5°	513.9	508.5	510.6	510.6	512.8	511.8	511.8	517.1	518.2	521.3	524.6
40°	451.9	449.8	454.1	453.0	454.1	454.1	455.1	458.4	460.5	461.5	462.6
42.5°	396.4	397.4	398.5	398.5	398.5	398.5	398.5	402.8	401.7	404.9	406.0
45°	350.4	346.2	348.3	347.3	350.4	347.3	350.4	353.6	351.5	354.7	352.6
47.5°	303.4	303.4	303.4	302.3	304.4	303.4	305.6	306.6	306.6	306.6	305.6
50°	266.0	262.8	263.9	263.9	265.0	263.9	266.0	267.1	267.1	265.0	260.7
52.5°	229.7	228.7	228.7	230.8	230.8	229.7	229.7	229.7	229.7	226.5	224.3
55°	199.8	197.6	198.7	198.7	198.7	198.7	199.8	198.7	198.7	195.5	192.4
57.5°	173.1	171.0	171.0	171.0	172.0	171.0	171.0	171.0	169.9	166.6	162.3
60°	147.5	146.4	147.5	147.5	148.5	147.5	147.5	147.5	145.4	142.1	137.8
62.5°	126.0	126.0	126.0	127.2	127.2	126.0	126.0	125.0	123.9	119.6	115.4
65°	107.9	106.8	107.9	107.9	108.9	108.9	107.9	106.8	105.8	101.5	97.2
67.5°	89.7	88.7	89.7	89.7	90.8	89.7	89.7	89.7	86.6	84.4	80.2
70°	72.6	71.6	71.6	71.6	72.6	70.5	71.6	71.6	69.5	66.2	61.9
72.5°	55.5	55.5	55.5	55.5	55.5	55.5	54.5	54.5	52.4	49.1	47.0
75°	40.6	40.6	41.7	41.7	40.6	40.6	40.6	39.6	38.5	36.3	34.2
77.5°	29.9	29.9	29.9	29.9	28.9	28.9	28.9	27.8	26.8	25.6	23.5
80°	21.4	21.4	21.4	20.2	21.4	20.2	20.2	20.2	18.2	17.1	16.1
82.5°	15.0	13.9	13.9	13.9	13.9	13.9	13.9	12.8	12.8	11.8	10.7
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.4	6.4	6.4
87.5°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	4.3	4.3	4.3	3.3
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°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	880.3	880.3	882.4	879.3	884.7	881.4	880.3	885.7	882.4	881.4	883.5
5°	872.9	874.0	875.0	872.9	878.3	875.0	875.0	880.3	878.3	877.1	880.3
7.5°	863.3	864.3	866.5	865.4	869.6	867.5	868.6	874.0	871.7	871.7	875.0
10°	851.5	853.6	855.8	855.8	861.1	858.9	858.9	865.4	863.3	864.3	868.6
12.5°	837.6	840.8	844.0	845.1	850.5	847.2	848.2	855.8	854.7	855.8	860.0
15°	822.6	827.0	830.1	830.1	836.5	833.3	836.5	844.0	841.8	846.1	851.5
17.5°	805.5	809.8	814.1	815.2	821.6	819.5	823.7	831.2	831.2	833.3	839.8
20°	789.6	794.8	797.0	800.2	806.6	805.5	807.7	816.2	816.2	819.5	825.9
22.5°	768.2	773.5	777.8	781.0	786.3	786.3	789.6	797.0	797.0	799.1	805.5
25°	744.7	751.0	754.3	757.5	762.8	761.8	764.9	771.3	772.5	774.5	781.0
27.5°	714.7	720.1	724.3	726.5	734.0	729.7	732.9	740.4	739.3	741.4	746.8
30°	677.4	682.7	686.9	686.9	693.3	693.3	696.6	699.7	699.7	701.9	706.2
32.5°	633.5	639.9	639.9	643.2	647.4	643.2	647.4	651.7	649.6	652.7	656.0
35°	583.3	586.5	587.6	587.6	590.8	589.8	588.7	591.9	589.8	595.1	598.3
37.5°	522.4	526.7	524.6	526.7	525.6	522.4	522.4	527.8	523.5	524.6	527.8
40°	463.6	463.6	462.6	457.2	458.4	455.1	454.1	455.1	450.8	449.8	454.1
42.5°	402.8	401.7	398.5	391.0	392.0	386.7	382.5	382.5	380.3	379.2	380.3
45°	348.3	345.0	339.7	331.2	329.1	324.8	316.2	314.1	310.9	310.9	312.0
47.5°	298.0	293.8	285.2	275.7	270.3	265.0	256.4	253.2	247.9	245.8	247.9
50°	256.4	248.9	238.2	224.3	219.0	212.6	204.1	198.7	193.4	191.2	190.1
52.5°	218.0	207.3	196.6	179.5	175.2	168.9	157.1	151.7	146.4	142.1	142.1
55°	184.8	175.2	160.3	144.2	137.8	131.4	119.6	112.2	106.8	104.7	102.5
57.5°	154.9	144.2	130.3	113.2	106.8	100.4	88.7	81.2	75.9	72.6	70.5
60°	130.3	118.6	104.7	89.7	82.3	75.9	64.1	56.7	51.3	48.1	45.9
62.5°	106.8	97.2	83.3	69.5	63.1	56.7	47.0	39.6	34.2	32.0	28.9
65°	89.7	80.2	67.3	55.5	50.2	43.8	35.3	28.9	24.6	21.4	19.2
67.5°	72.6	65.2	54.5	43.8	38.5	34.2	26.8	21.4	17.1	15.0	13.9
70°	57.7	50.2	41.7	33.1	29.9	25.6	20.2	15.0	12.8	10.7	9.6
72.5°	42.7	37.4	31.0	24.6	21.4	19.2	13.9	11.8	8.5	7.4	6.4
75°	31.0	26.8	22.4	17.1	15.0	13.9	10.7	7.4	6.4	5.4	4.3
77.5°	21.4	19.2	15.0	11.8	10.7	9.6	7.4	5.4	4.3	3.3	3.3
80°	13.9	11.8	9.6	7.4	7.4	6.4	4.3	3.3	3.3	2.1	2.1
82.5°	8.5	7.4	6.4	5.4	4.3	4.3	3.3	2.1	2.1	1.1	1.1
85°	5.4	4.3	3.3	3.3	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°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	883.5	883.5	885.7	882.4	884.7	884.7	886.8	882.4	884.7	885.7	887.8
5°	879.3	880.3	882.4	881.4	882.4	882.4	884.7	879.3	883.5	883.5	886.8
7.5°	875.0	875.0	877.1	876.1	878.3	879.3	881.4	877.1	881.4	881.4	884.7
10°	869.6	869.6	872.9	871.7	875.0	876.1	879.3	875.0	879.3	880.3	883.5
12.5°	862.2	863.3	866.5	866.5	869.6	871.7	875.0	872.9	878.3	879.3	883.5
15°	853.6	855.8	860.0	858.9	862.2	865.4	869.6	866.5	874.0	876.1	880.3
17.5°	843.0	845.1	848.2	848.2	851.5	853.6	858.9	856.8	863.3	864.3	869.6
20°	827.0	830.1	834.4	833.3	836.5	838.7	843.0	840.8	847.2	849.4	854.7
22.5°	807.7	809.8	813.0	813.0	816.2	818.3	822.6	819.5	825.9	827.0	831.2
25°	782.0	784.2	786.3	787.4	790.6	791.7	793.8	791.7	797.0	798.1	803.4
27.5°	749.0	750.0	753.2	753.2	755.4	756.4	759.6	755.4	762.8	762.8	766.1
30°	709.4	708.4	712.5	710.5	712.5	712.5	715.8	713.7	719.1	716.9	720.1
32.5°	657.0	659.2	659.2	657.0	661.3	660.3	660.3	658.1	661.3	662.4	664.5
35°	596.2	599.3	599.3	600.5	601.5	598.3	599.3	592.9	598.3	599.3	600.5
37.5°	530.0	526.7	528.8	525.6	531.0	524.6	524.6	520.3	524.6	524.6	525.6
40°	454.1	453.0	455.1	453.0	451.9	450.8	448.7	445.5	449.8	447.7	450.8
42.5°	382.5	381.3	381.3	379.2	378.2	378.2	376.1	373.9	372.9	372.9	378.2
45°	308.7	310.9	308.7	307.7	309.8	307.7	308.7	304.4	306.6	304.4	306.6
47.5°	246.8	247.9	245.8	243.6	246.8	243.6	243.6	240.4	244.6	244.6	242.5
50°	191.2	190.1	188.0	190.1	189.1	189.1	189.1	185.8	188.0	184.8	187.0
52.5°	141.0	140.0	140.0	138.8	140.0	138.8	138.8	137.8	137.8	136.7	137.8
55°	102.5	101.5	99.4	99.4	99.4	100.4	99.4	98.3	98.3	97.2	98.3
57.5°	69.5	67.3	67.3	67.3	67.3	66.2	66.2	65.2	66.2	65.2	66.2
60°	44.9	44.9	42.7	42.7	42.7	42.7	42.7	41.7	42.7	42.7	42.7
62.5°	27.8	27.8	26.8	25.6	26.8	25.6	25.6	25.6	26.8	25.6	26.8
65°	18.2	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
67.5°	12.8	11.8	11.8	11.8	11.8	11.8	11.8	10.7	11.8	11.8	11.8
70°	8.5	8.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
75°	4.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	3.3	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°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	884.7	885.7	883.5	884.7	882.4	884.7	885.7	887.8
5°	882.4	883.5	881.4	883.5	881.4	883.5	884.7	886.8
7.5°	880.3	882.4	880.3	882.4	880.3	882.4	883.5	885.7
10°	880.3	883.5	881.4	884.7	881.4	883.5	885.7	886.8
12.5°	880.3	883.5	882.4	884.7	883.5	885.7	887.8	889.9
15°	878.3	881.4	879.3	882.4	881.4	882.4	886.8	886.8
17.5°	866.5	869.6	869.6	871.7	871.7	875.0	877.1	879.3
20°	851.5	854.7	853.6	856.8	856.8	860.0	862.2	864.3
22.5°	829.0	833.3	832.3	835.4	834.4	836.5	840.8	839.8
25°	800.2	805.5	804.5	806.6	805.5	805.5	807.7	808.8
27.5°	764.9	768.2	767.1	769.2	767.1	769.2	771.3	772.5
30°	719.1	721.2	720.1	721.2	720.1	722.2	723.3	725.4
32.5°	663.4	666.7	663.4	665.6	664.5	664.5	668.8	666.7
35°	597.2	598.3	599.3	599.3	597.2	598.3	600.5	600.5
37.5°	523.5	528.8	522.4	525.6	524.6	524.6	524.6	527.8
40°	446.6	447.7	445.5	445.5	445.5	444.4	448.7	447.7
42.5°	373.9	375.0	373.9	370.8	371.8	371.8	375.0	370.8
45°	303.4	305.6	304.4	304.4	302.3	302.3	303.4	301.3
47.5°	240.4	242.5	239.3	240.4	238.2	240.4	239.3	241.5
50°	182.7	184.8	183.8	184.8	184.8	182.7	185.8	181.7
52.5°	136.7	137.8	136.7	135.7	134.7	134.7	136.7	135.7
55°	97.2	96.1	96.1	96.1	97.2	97.2	96.1	95.1
57.5°	65.2	65.2	64.1	64.1	65.2	63.1	64.1	63.1
60°	41.7	41.7	41.7	41.7	40.6	41.7	41.7	41.7
62.5°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
65°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
67.5°	10.7	11.8	11.8	11.8	10.7	10.7	10.7	10.7
70°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)