

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: P563912

Luminaire Tested: **LX6C20D010 EX6C209030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P563912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C20D010 EX6C209030 6LBLWWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

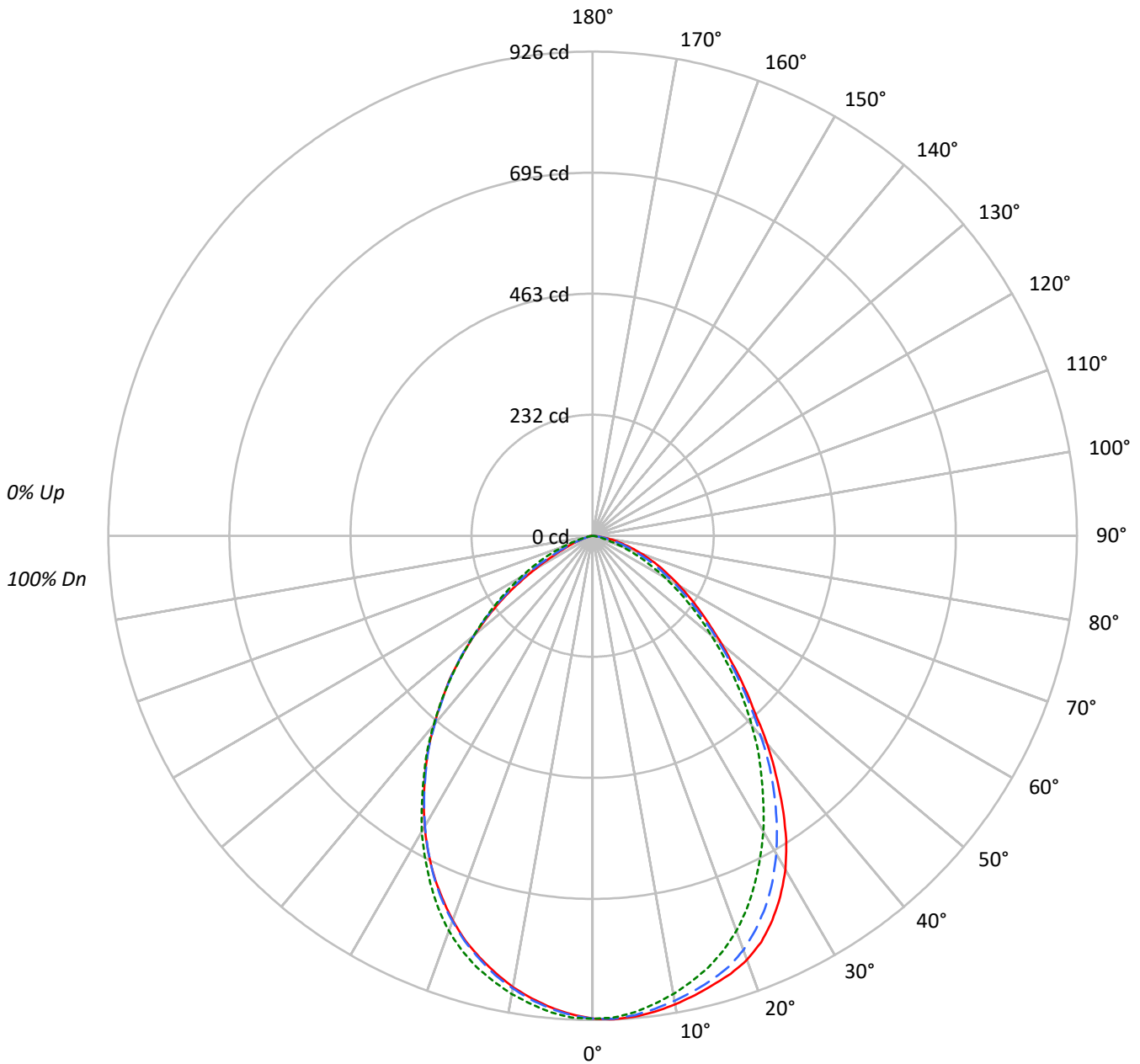
Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50632	50632	50632
5°	50809	50347	49851
10°	50650	49531	48802
15°	50460	48508	47378
20°	50352	46910	45661
25°	49122	44392	43418
30°	46672	41348	40658
35°	42362	37644	37397
40°	37170	33878	33706
45°	31864	29608	29848
50°	27428	25236	25099
55°	23970	21304	19995
60°	21073	17466	13650
65°	18446	13529	8211
70°	15724	9104	4825
75°	12687	4745	2626
80°	8808	1863	1484
85°	3522	566	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	5.2
10°-20°	241.7	14.4
20°-30°	343.9	20.5
30°-40°	362.0	21.5
40°-50°	301.6	18.0
50°-60°	203.8	12.1
60°-70°	103.3	6.2
70°-80°	33.4	2.0
80°-90°	3.8	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°	672.1	40.0
0°-40°	1034.1	61.6
0°-60°	1539.5	91.6
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	924	924	924	924	924	
5°	923	920	915	908	906	88
15°	889	880	855	838	835	251
25°	812	783	734	719	718	372
35°	633	606	562	557	559	394
45°	411	400	382	383	385	318
55°	251	239	223	216	209	226
65°	142	128	104	75	63	142
75°	60	47	22	12	12	65
85°	6	3	1	1	1	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°	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6
2.5°	925.8	925.8	925.8	925.8	925.8	925.8	925.5	925.5	924.8	924.8	924.5
5°	923.3	923.6	923.6	923.3	923.3	922.7	922.7	922.4	921.4	920.8	920.5
7.5°	918.0	918.0	917.7	917.4	917.1	916.1	915.8	914.9	914.3	913.7	912.4
10°	909.9	909.9	909.6	909.0	908.7	908.1	908.1	906.8	905.6	904.0	903.1
12.5°	900.3	900.6	900.0	899.7	898.8	898.5	897.8	896.3	895.3	893.5	891.9
15°	889.1	889.8	889.8	888.5	887.6	887.3	886.3	885.4	883.2	881.4	879.5
17.5°	878.3	878.9	878.3	877.3	876.4	875.2	874.5	872.7	869.9	867.4	864.6
20°	863.1	864.0	862.8	861.2	859.3	859.0	858.1	855.0	851.0	847.2	843.2
22.5°	841.6	841.0	840.1	839.5	836.4	834.5	833.3	829.2	824.9	819.9	814.9
25°	812.1	813.4	811.5	808.7	807.2	805.3	802.2	797.9	793.8	788.6	782.7
27.5°	777.4	777.4	774.9	774.0	770.5	768.1	766.5	762.2	756.9	751.6	745.1
30°	737.3	735.5	735.5	731.1	728.3	727.4	725.8	718.7	714.0	708.5	701.9
32.5°	688.9	688.6	687.3	684.6	680.8	677.7	677.7	672.8	666.5	659.7	655.7
35°	633.0	633.3	632.7	629.6	629.6	625.9	625.3	620.9	615.9	610.7	605.7
37.5°	575.3	576.5	575.3	573.7	572.8	572.5	569.7	566.6	562.9	559.7	556.0
40°	519.4	517.5	518.1	515.0	515.4	514.7	513.5	509.5	507.3	504.2	500.1
42.5°	459.2	461.0	461.6	459.8	459.2	457.9	459.2	457.6	455.1	453.6	449.8
45°	411.0	409.2	410.1	409.5	409.8	407.3	406.4	405.8	404.8	402.0	400.5
47.5°	363.2	363.5	363.2	362.0	361.4	361.4	360.1	358.3	358.3	356.4	355.2
50°	321.6	321.6	322.3	320.7	320.1	318.8	319.1	317.3	316.0	314.5	313.6
52.5°	283.4	283.8	282.5	282.8	282.2	282.2	281.0	279.7	278.5	275.7	275.1
55°	250.8	251.2	249.6	250.2	248.4	247.4	246.8	244.9	244.9	242.2	238.7
57.5°	220.4	220.1	219.8	218.9	217.6	216.7	215.8	213.6	212.7	210.8	208.0
60°	192.2	191.9	191.2	190.9	190.0	187.8	187.8	186.3	183.2	181.3	178.5
62.5°	165.5	165.5	165.2	164.2	163.3	162.4	161.7	160.5	157.4	155.2	152.7
65°	142.2	141.9	140.9	139.4	138.8	138.8	136.6	135.7	133.2	131.0	128.2
67.5°	119.8	118.6	118.0	118.3	116.4	116.4	114.6	113.0	110.8	107.1	104.9
70°	98.1	97.5	96.9	96.2	95.9	94.7	93.8	91.9	89.7	86.9	83.5
72.5°	78.5	78.5	77.6	77.0	76.1	74.8	74.2	72.6	70.2	67.1	64.6
75°	59.9	59.9	59.9	58.7	58.1	57.4	55.6	54.6	51.8	50.0	46.9
77.5°	44.1	43.5	42.5	42.2	41.6	41.0	40.0	38.5	36.0	33.8	32.0
80°	27.9	28.9	27.9	27.9	26.4	25.8	25.5	23.6	22.7	20.8	19.2
82.5°	15.5	15.8	15.2	14.9	14.0	13.7	13.7	12.4	11.8	10.6	9.6
85°	5.6	5.9	5.6	5.6	5.0	5.3	5.0	4.7	4.0	3.4	3.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6
2.5°	924.5	923.9	923.9	923.6	923.3	923.3	923.3	923.0	922.4	922.4	922.0
5°	919.9	919.3	918.3	917.7	917.4	917.1	916.8	916.5	915.2	914.9	914.0
7.5°	911.5	910.9	909.3	908.7	907.8	907.5	906.2	905.6	904.4	903.1	902.5
10°	901.6	900.0	898.8	897.2	896.6	895.7	894.1	892.2	891.3	889.8	888.5
12.5°	890.4	888.5	886.0	884.2	883.6	882.0	879.5	878.0	875.8	873.3	871.1
15°	876.4	874.2	872.1	868.7	867.7	865.9	863.4	860.3	857.2	854.7	852.2
17.5°	861.2	857.8	854.4	850.6	847.8	846.9	842.9	838.5	835.7	831.4	828.6
20°	839.8	835.1	829.5	825.8	823.3	820.5	815.9	811.2	807.8	804.1	800.0
22.5°	810.3	805.9	799.4	793.8	792.0	787.9	783.9	779.6	775.2	771.2	766.2
25°	775.5	770.9	764.3	758.7	755.6	753.8	746.0	741.7	737.3	733.9	730.5
27.5°	739.8	731.4	727.1	718.4	715.6	715.0	707.8	703.2	698.5	693.9	689.5
30°	695.7	689.2	682.7	676.5	672.8	670.6	665.3	659.4	656.3	653.2	648.8
32.5°	650.1	644.2	636.1	630.2	627.4	624.3	619.7	615.6	611.0	607.6	606.6
35°	601.3	594.8	588.0	583.7	583.0	579.3	574.7	571.2	567.8	562.5	561.6
37.5°	549.2	545.5	540.8	534.6	531.8	531.8	527.2	524.7	520.3	520.0	517.5
40°	498.0	496.4	489.3	487.4	486.8	482.4	481.2	476.9	473.8	473.4	469.7
42.5°	447.4	443.3	442.1	439.0	436.2	435.6	432.8	430.9	429.7	427.8	425.9
45°	397.1	396.1	393.0	390.9	389.9	388.7	387.8	384.0	383.4	381.9	380.9
47.5°	353.6	351.1	348.3	345.8	345.5	343.7	341.5	341.5	338.1	337.8	337.2
50°	310.5	308.6	307.0	303.6	304.2	301.8	301.5	298.7	297.1	295.9	297.4
52.5°	272.6	268.9	268.2	265.4	264.5	264.8	261.4	260.5	259.9	258.6	258.0
55°	236.6	234.7	232.2	230.4	228.8	227.3	226.0	226.0	222.6	222.9	221.4
57.5°	204.9	203.3	200.2	197.4	196.8	195.0	193.4	191.9	191.6	189.4	187.8
60°	176.6	173.9	169.8	168.6	166.7	165.2	163.6	161.7	160.8	159.3	156.5
62.5°	150.3	145.6	144.1	141.6	139.4	138.5	136.0	133.8	132.3	130.1	127.9
65°	125.1	121.7	118.9	116.1	115.8	113.3	111.1	109.3	106.2	104.3	100.3
67.5°	102.1	99.0	95.9	93.1	91.0	90.3	86.9	84.8	82.6	78.9	75.4
70°	81.0	77.9	75.4	72.0	71.1	68.6	66.1	64.0	60.2	56.8	54.0
72.5°	61.8	58.4	55.6	53.1	51.5	49.4	46.9	44.4	40.7	37.3	34.8
75°	44.1	41.6	38.8	36.3	35.1	33.8	31.0	28.3	25.8	22.4	20.2
77.5°	29.8	27.3	24.8	22.7	21.1	20.2	18.3	16.1	14.0	12.1	10.6
80°	17.4	15.8	14.0	12.1	11.8	10.9	9.3	8.1	6.8	5.9	4.7
82.5°	8.4	7.5	6.2	5.3	4.7	4.3	3.7	3.1	2.5	2.2	2.2
85°	2.5	2.2	1.9	1.6	1.2	1.2	0.9	0.9	0.9	0.9	0.9
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6
2.5°	921.1	920.8	920.5	920.2	919.6	919.6	918.6	918.0	918.0	917.4	917.1
5°	913.0	912.1	911.8	911.2	910.6	910.3	909.0	908.7	908.1	907.5	907.5
7.5°	901.6	900.3	899.1	898.5	898.1	897.2	896.6	896.3	895.3	894.7	893.5
10°	886.3	885.4	883.9	883.2	882.6	882.0	880.4	879.5	879.2	878.6	878.0
12.5°	868.7	867.4	865.9	864.6	864.0	863.1	861.5	860.6	860.6	859.3	859.3
15°	849.7	847.8	845.1	843.8	843.5	841.6	840.4	839.2	837.6	837.0	837.0
17.5°	825.5	822.4	819.9	819.9	818.7	816.8	814.9	814.0	813.1	811.8	811.2
20°	796.9	794.8	792.0	792.0	789.2	788.6	786.7	786.4	784.2	784.5	783.6
22.5°	762.5	761.2	759.7	758.4	756.9	755.0	754.1	754.4	753.5	753.2	752.9
25°	727.7	724.3	722.4	721.8	721.2	719.6	719.0	718.7	718.7	717.8	718.1
27.5°	687.7	685.2	682.7	683.6	682.4	681.4	680.8	679.9	680.5	680.2	680.5
30°	646.7	643.6	642.0	642.6	642.3	639.8	641.1	640.8	641.1	641.1	641.7
32.5°	603.5	601.3	601.0	601.3	598.6	598.9	597.6	599.5	599.8	601.7	600.1
35°	559.7	558.5	556.3	556.0	556.3	556.0	556.0	557.3	557.0	558.8	558.2
37.5°	514.7	514.1	511.9	512.6	511.3	513.5	514.1	513.5	515.7	515.0	514.7
40°	470.6	469.7	468.5	471.0	469.4	468.2	470.3	468.5	469.1	471.0	471.0
42.5°	425.9	424.4	424.4	424.4	424.1	424.1	425.0	425.9	425.3	425.6	428.1
45°	380.9	380.6	379.7	380.3	380.0	381.5	381.5	382.2	383.4	384.7	384.0
47.5°	337.5	336.8	337.8	337.2	337.5	336.5	337.2	339.0	340.6	338.4	340.6
50°	296.8	295.6	295.2	296.2	295.9	295.6	296.2	296.2	295.6	295.6	297.7
52.5°	258.0	256.7	255.8	257.4	256.4	256.7	255.5	255.5	256.1	255.5	254.6
55°	221.7	220.7	219.5	220.1	218.6	218.2	217.0	217.0	216.1	215.5	213.6
57.5°	186.9	186.3	183.5	183.2	183.5	181.3	179.1	178.2	175.7	175.1	174.8
60°	156.2	152.7	151.2	149.3	148.1	147.2	144.7	143.1	139.4	137.2	136.9
62.5°	124.2	122.6	120.8	118.0	117.4	114.2	111.8	107.7	105.9	103.1	100.3
65°	98.4	94.4	91.6	90.0	87.5	84.8	82.0	77.6	75.4	72.0	69.2
67.5°	72.0	68.6	64.9	63.6	61.5	58.1	55.3	51.5	49.7	46.6	45.6
70°	49.4	46.3	43.5	41.6	40.0	36.6	33.8	32.6	30.7	30.1	30.1
72.5°	31.7	28.9	25.8	24.8	23.6	21.7	19.9	19.2	19.9	19.6	19.6
75°	17.7	16.1	14.0	13.0	13.0	12.4	12.1	12.1	12.1	12.1	12.1
77.5°	9.0	8.1	7.5	7.1	7.1	7.1	7.5	7.5	7.5	7.8	7.5
80°	4.3	4.0	4.0	4.0	4.3	4.3	4.3	4.3	4.3	4.7	4.3
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
85°	0.9	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6
2.5°	916.8	916.1	916.1	915.8	915.8	915.8	915.8	916.1
5°	906.8	906.5	906.5	905.9	905.9	905.9	905.9	905.9
7.5°	893.5	892.9	893.2	892.6	892.6	892.9	892.6	892.2
10°	877.0	876.7	877.0	877.0	876.4	876.1	876.4	876.7
12.5°	858.4	858.1	857.5	857.8	857.8	857.5	857.2	856.5
15°	836.7	836.4	836.1	835.7	835.4	835.7	835.4	834.8
17.5°	811.2	811.2	810.9	810.6	810.3	809.7	810.0	810.9
20°	783.9	783.6	783.0	783.3	782.0	781.4	781.7	782.7
22.5°	752.5	751.6	752.2	751.3	751.3	751.6	751.3	750.7
25°	718.4	717.1	717.8	718.1	718.1	717.8	717.5	717.8
27.5°	680.5	681.4	681.4	680.8	681.8	680.5	681.1	681.4
30°	641.7	640.8	640.5	641.7	643.6	642.0	642.0	642.3
32.5°	601.7	600.4	600.4	601.0	600.7	600.7	602.0	600.4
35°	558.8	559.4	557.0	558.5	559.1	558.5	558.8	558.8
37.5°	515.7	515.0	515.0	515.0	516.0	516.0	516.6	516.3
40°	473.1	471.9	471.6	472.2	471.0	471.9	471.9	471.0
42.5°	427.2	427.5	429.0	427.5	427.8	427.5	426.9	426.6
45°	384.7	385.6	385.0	384.7	385.0	383.7	384.0	385.0
47.5°	339.6	341.5	339.6	340.9	340.6	339.9	339.3	338.1
50°	297.4	298.0	297.7	297.4	297.1	296.8	295.2	294.3
52.5°	254.3	254.3	254.3	254.3	251.2	252.7	252.1	250.2
55°	212.0	213.0	211.7	211.7	209.6	209.6	208.9	209.2
57.5°	171.4	170.4	169.5	169.5	167.3	166.4	165.5	164.2
60°	133.5	132.6	131.3	129.8	127.6	127.6	127.0	124.5
62.5°	97.8	96.2	95.3	94.1	92.2	91.0	90.0	90.7
65°	67.1	65.5	64.3	64.3	64.3	63.6	63.3	63.3
67.5°	44.1	45.0	44.4	45.0	45.0	44.4	44.1	44.7
70°	30.4	30.4	30.1	30.1	30.1	30.1	29.8	30.1
72.5°	19.6	19.6	19.6	19.9	19.6	19.6	19.9	19.9
75°	12.4	12.4	12.4	12.7	12.4	12.4	12.7	12.4
77.5°	7.5	7.8	7.8	7.8	7.8	7.5	7.8	7.8
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)