

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252662

Luminaire Tested: **LE_6B15D010 EC6B10208030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.2 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

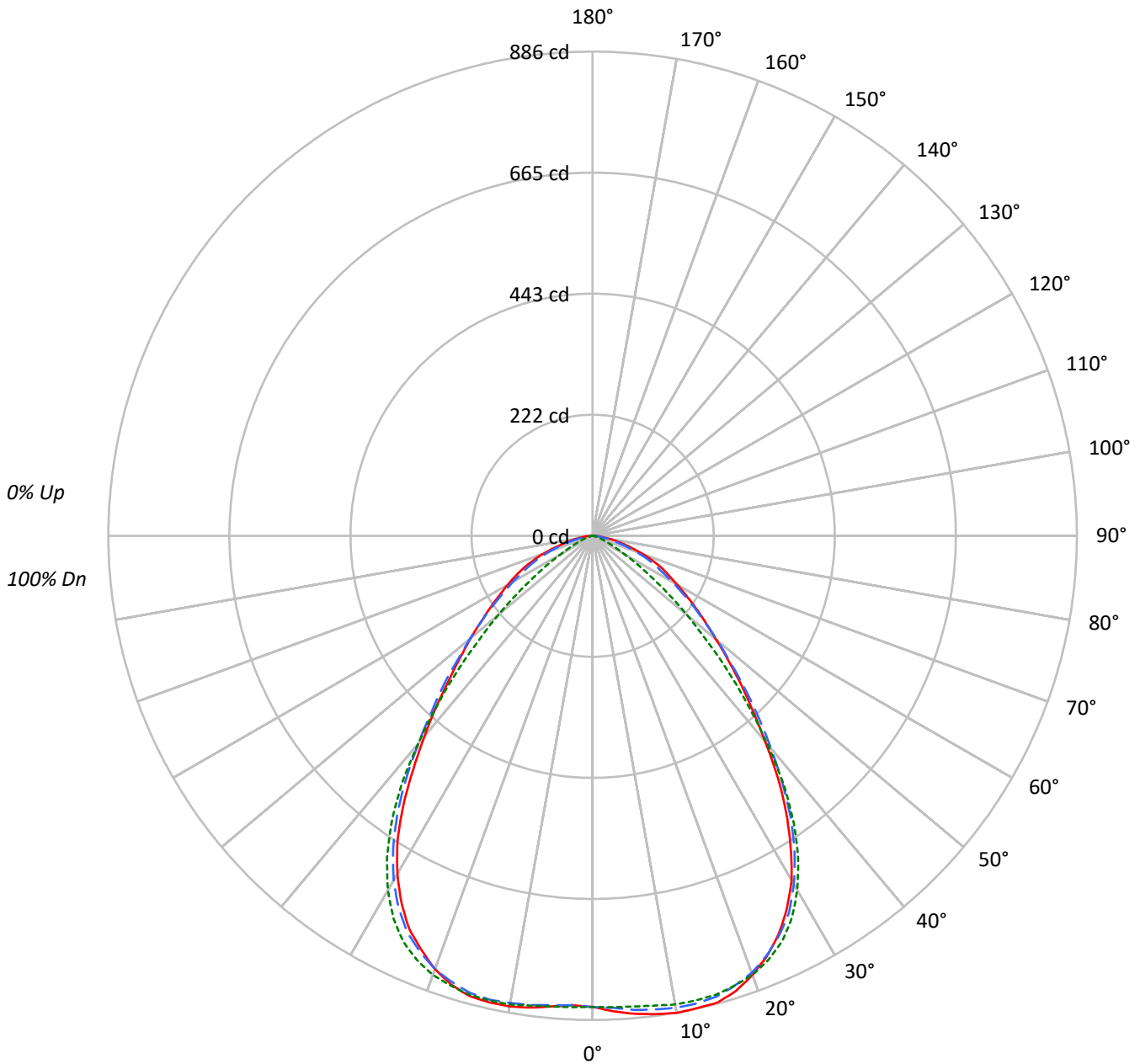
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56244	56244	56244
5°	57500	56623	56623
10°	58728	57688	57926
15°	59714	58728	58890
20°	59354	59354	58590
25°	57941	58992	57149
30°	54843	56410	53833
35°	49140	51092	48177
40°	41748	42276	40709
45°	35328	32292	34092
50°	29830	22776	29454
55°	26218	14696	25934
60°	23226	8755	23382
65°	21458	5264	21458
70°	18598	3033	18140
75°	14746	1865	13839
80°	10971	1353	10520
85°	10031	898	9132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.9
10°-20°	245.7	14.4
20°-30°	369.5	21.6
30°-40°	388.5	22.7
40°-50°	290.2	17.0
50°-60°	180.7	10.6
60°-70°	102.7	6.0
70°-80°	42.3	2.5
80°-90°	8.7	0.5
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°	698.1	40.8
0°-40°	1086.6	63.5
0°-60°	1557.5	91.0
0°-90°	1711.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	862	862	862	862	862	
5°	878	871	865	862	865	84
15°	884	873	870	866	872	249
25°	805	807	820	801	794	368
35°	617	633	642	623	605	383
45°	383	392	350	384	370	297
55°	230	226	129	222	228	207
65°	139	124	34	124	139	137
75°	58	46	7	45	55	64
85°	13	8	1	7	12	15
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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	870.8	869.5	870.8	868.2	867.0	867.0	868.2	865.9	864.6	865.9	864.6
5°	878.0	875.6	876.8	875.6	873.1	873.1	874.4	870.8	870.8	871.9	870.8
7.5°	882.9	882.9	882.9	880.5	879.2	878.0	880.5	876.8	875.6	875.6	874.4
10°	886.5	885.4	886.5	884.1	881.6	880.5	882.9	880.5	878.0	880.5	876.8
12.5°	885.4	885.4	885.4	884.1	881.6	880.5	882.9	879.2	878.0	879.2	876.8
15°	884.1	880.5	881.6	880.5	876.8	876.8	878.0	874.4	871.9	875.6	873.1
17.5°	873.1	870.8	871.9	869.5	867.0	865.9	867.0	865.9	863.4	865.9	863.4
20°	854.9	854.9	856.1	853.6	851.2	850.0	852.4	850.0	847.5	851.2	851.2
22.5°	832.9	832.9	832.9	831.6	830.5	830.5	830.5	829.2	828.0	830.5	831.6
25°	804.9	803.6	804.9	806.1	804.9	803.6	804.9	804.9	802.4	807.2	807.2
27.5°	769.5	769.5	771.9	770.8	770.8	769.5	771.9	771.9	770.8	774.4	778.0
30°	728.0	725.6	728.0	728.0	729.2	729.2	730.5	730.5	730.5	734.1	736.5
32.5°	674.4	675.6	679.2	678.0	676.8	680.5	680.5	682.9	684.1	686.5	687.8
35°	617.0	618.2	618.2	619.5	621.9	619.5	625.6	624.4	625.6	630.5	632.9
37.5°	556.1	552.4	558.5	556.1	557.2	557.2	559.8	561.0	564.6	570.8	570.8
40°	490.2	491.5	493.9	495.1	496.4	496.4	496.4	500.0	501.2	508.5	507.2
42.5°	432.9	432.9	435.4	436.6	436.6	436.6	436.6	440.2	442.6	445.1	447.5
45°	382.9	379.2	381.8	381.8	384.1	382.9	385.4	387.8	389.0	392.6	391.5
47.5°	335.4	334.1	335.4	336.6	335.4	336.6	337.8	339.0	340.2	340.2	340.2
50°	293.9	293.9	295.1	296.4	296.4	296.4	296.4	297.5	297.5	300.0	297.5
52.5°	259.8	261.0	261.0	259.8	261.0	261.0	262.1	262.1	261.0	261.0	257.2
55°	230.5	229.2	230.5	229.2	230.5	230.5	229.2	229.2	228.0	226.9	225.6
57.5°	202.4	202.4	202.4	202.4	201.2	202.4	201.2	200.0	200.0	197.5	193.9
60°	178.0	178.0	178.0	178.0	178.0	176.9	178.0	176.9	174.4	172.0	167.1
62.5°	157.2	156.1	157.2	156.1	156.1	154.9	154.9	153.6	151.2	148.8	143.9
65°	139.0	140.2	139.0	139.0	137.8	136.6	136.6	135.4	131.8	129.2	124.4
67.5°	119.5	118.2	118.2	118.2	117.1	117.1	117.1	114.6	112.2	108.5	103.6
70°	97.5	97.5	97.5	96.4	96.4	95.1	95.1	93.9	91.5	89.0	82.9
72.5°	76.9	76.9	76.9	74.4	75.6	74.4	74.4	72.0	70.8	67.1	63.4
75°	58.5	58.5	57.4	57.4	56.1	54.9	54.9	53.6	52.4	50.0	46.4
77.5°	42.6	42.6	42.6	41.5	40.2	39.0	39.0	37.8	36.6	35.4	32.9
80°	29.2	29.2	29.2	29.2	28.0	26.9	26.9	25.6	25.6	24.4	22.0
82.5°	19.5	19.5	19.5	19.5	18.2	18.2	18.2	17.1	15.9	15.9	13.4
85°	13.4	13.4	12.2	12.2	12.2	12.2	11.0	11.0	9.8	8.5	8.5
87.5°	7.4	7.4	7.4	7.4	6.1	6.1	6.1	6.1	4.9	4.9	3.6
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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	868.2	868.2	867.0	863.4	864.6	863.4	864.6	863.4	859.8	863.4	859.8
5°	873.1	874.4	871.9	867.0	868.2	867.0	867.0	865.9	862.1	864.6	862.1
7.5°	878.0	876.8	875.6	870.8	871.9	870.8	870.8	868.2	864.6	867.0	863.4
10°	880.5	880.5	878.0	873.1	873.1	871.9	873.1	871.9	867.0	870.8	868.2
12.5°	880.5	879.2	879.2	873.1	874.4	873.1	874.4	871.9	868.2	870.8	869.5
15°	876.8	876.8	875.6	869.5	870.8	870.8	871.9	869.5	865.9	869.5	867.0
17.5°	869.5	869.5	868.2	863.4	865.9	865.9	867.0	864.6	861.0	863.4	863.4
20°	854.9	856.1	856.1	852.4	854.9	854.9	856.1	854.9	853.6	854.9	852.4
22.5°	837.8	840.2	840.2	836.5	839.0	839.0	842.6	841.4	839.0	840.2	839.0
25°	812.1	814.6	817.0	814.6	817.0	817.0	820.8	819.5	817.0	819.5	815.9
27.5°	782.9	784.1	786.5	784.1	787.8	786.5	790.2	789.0	785.4	789.0	787.8
30°	741.4	746.4	750.0	746.4	750.0	750.0	752.4	751.2	750.0	748.8	748.8
32.5°	695.1	700.0	700.0	698.8	701.2	701.2	702.4	700.0	698.8	700.0	701.2
35°	637.8	640.2	642.6	641.5	642.6	643.9	642.6	643.9	640.2	641.5	641.5
37.5°	575.6	578.0	578.0	574.4	576.8	576.8	574.4	574.4	571.9	574.4	569.5
40°	509.8	507.2	508.5	506.1	503.6	503.6	502.4	497.5	495.1	496.4	497.5
42.5°	445.1	445.1	441.5	435.4	429.2	429.2	425.6	423.1	418.2	420.8	419.5
45°	390.2	384.1	379.2	369.5	365.9	363.4	357.2	351.2	348.8	350.0	348.8
47.5°	337.8	332.9	320.8	307.2	303.6	300.0	292.6	285.4	282.9	280.5	280.5
50°	293.9	285.4	272.0	257.2	251.2	245.1	235.4	228.0	223.1	224.4	224.4
52.5°	253.6	243.9	228.0	209.8	202.4	195.1	186.6	178.0	174.4	173.1	173.1
55°	218.2	207.2	191.5	170.8	164.6	156.1	145.1	135.4	130.5	129.2	131.8
57.5°	186.6	176.9	158.5	137.8	130.5	122.0	111.0	102.4	96.4	95.1	96.4
60°	161.0	147.5	131.8	112.2	102.4	95.1	82.9	75.6	69.5	67.1	68.2
62.5°	135.4	123.1	107.4	87.8	80.5	73.1	62.2	53.6	48.8	47.5	48.8
65°	115.9	103.6	89.0	72.0	64.6	57.4	47.5	39.0	35.4	34.1	35.4
67.5°	96.4	85.4	73.1	57.4	51.2	45.1	35.4	29.2	24.4	23.1	24.4
70°	78.0	68.2	56.1	45.1	39.0	34.1	26.9	20.8	17.1	15.9	17.1
72.5°	58.5	51.2	42.6	32.9	29.2	25.6	19.5	14.6	12.2	11.0	12.2
75°	42.6	36.6	30.5	23.1	20.8	18.2	13.4	9.8	8.5	7.4	8.5
77.5°	29.2	25.6	20.8	15.9	13.4	12.2	8.5	7.4	6.1	4.9	4.9
80°	19.5	17.1	13.4	11.0	9.8	8.5	6.1	4.9	3.6	3.6	3.6
82.5°	12.2	9.8	8.5	6.1	4.9	4.9	3.6	2.5	2.5	2.5	2.5
85°	7.4	6.1	4.9	3.6	2.5	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	3.6	2.5	2.5	1.2	1.2	1.2	1.2	1.2	0.0	0.0	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	862.1	859.8	859.8	861.0	862.1	863.4	861.0	859.8	859.8	863.4	861.0
5°	862.1	861.0	861.0	861.0	863.4	864.6	862.1	861.0	862.1	865.9	864.6
7.5°	865.9	863.4	864.6	864.6	865.9	868.2	865.9	864.6	865.9	869.5	867.0
10°	868.2	865.9	867.0	865.9	869.5	870.8	868.2	867.0	868.2	873.1	871.9
12.5°	869.5	868.2	868.2	867.0	870.8	871.9	869.5	868.2	869.5	873.1	871.9
15°	867.0	865.9	865.9	865.9	868.2	870.8	867.0	865.9	865.9	869.5	868.2
17.5°	862.1	859.8	859.8	859.8	861.0	862.1	858.5	857.2	856.1	859.8	858.5
20°	853.6	851.2	848.8	848.8	850.0	850.0	847.5	843.9	843.9	845.1	842.6
22.5°	837.8	836.5	834.1	832.9	835.4	834.1	829.2	825.6	824.4	825.6	823.1
25°	815.9	813.4	812.1	811.0	812.1	811.0	806.1	801.2	801.2	801.2	797.5
27.5°	785.4	782.9	781.6	781.6	782.9	780.5	775.6	770.8	768.2	768.2	764.6
30°	746.4	746.4	745.1	743.9	742.6	742.6	735.4	730.5	728.0	729.2	726.8
32.5°	698.8	697.5	696.4	692.6	693.9	692.6	686.5	682.9	679.2	676.8	675.6
35°	637.8	637.8	636.6	636.6	636.6	635.4	629.2	625.6	623.1	621.9	618.2
37.5°	570.8	569.5	568.2	568.2	568.2	568.2	564.6	561.0	561.0	559.8	557.2
40°	495.1	496.4	497.5	496.4	500.0	503.6	498.8	496.4	495.1	498.8	493.9
42.5°	421.9	420.8	426.9	428.0	428.0	434.1	435.4	436.6	435.4	437.8	437.8
45°	351.2	350.0	356.1	358.5	364.6	372.0	375.6	381.8	384.1	386.6	384.1
47.5°	284.1	289.0	293.9	300.0	304.9	317.0	324.4	330.5	332.9	336.6	336.6
50°	228.0	232.9	241.5	246.4	252.4	267.1	279.2	287.8	292.6	296.4	295.1
52.5°	175.6	184.1	195.1	200.0	208.5	225.6	239.0	248.8	254.9	258.5	259.8
55°	135.4	142.6	153.6	161.0	169.5	187.8	204.9	215.9	222.0	226.9	229.2
57.5°	100.0	108.5	120.8	126.9	136.6	157.2	172.0	185.4	192.6	198.8	200.0
60°	73.1	81.8	92.6	100.0	109.8	130.5	147.5	159.8	168.2	173.1	175.6
62.5°	52.4	61.0	72.0	79.2	87.8	106.1	123.1	135.4	143.9	150.0	153.6
65°	37.8	46.4	57.4	63.4	70.8	87.8	103.6	115.9	124.4	131.8	134.1
67.5°	28.0	34.1	43.9	50.0	57.4	70.8	84.1	95.1	103.6	109.8	112.2
70°	20.8	25.6	34.1	37.8	42.6	54.9	65.9	75.6	82.9	87.8	90.2
72.5°	14.6	18.2	24.4	28.0	31.8	41.5	50.0	57.4	62.2	67.1	69.5
75°	9.8	12.2	17.1	19.5	22.0	29.2	35.4	41.5	45.1	48.8	50.0
77.5°	6.1	8.5	12.2	13.4	15.9	19.5	24.4	28.0	30.5	32.9	35.4
80°	3.6	4.9	7.4	8.5	9.8	13.4	15.9	18.2	20.8	23.1	24.4
82.5°	2.5	3.6	4.9	4.9	6.1	7.4	9.8	12.2	13.4	14.6	15.9
85°	1.2	1.2	2.5	2.5	3.6	3.6	4.9	6.1	7.4	8.5	9.8
87.5°	1.2	1.2	1.2	1.2	2.5	2.5	3.6	3.6	3.6	4.9	4.9
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: P252662

CATALOG NUMBER: LE_6B15D010 EC6B10208030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	858.5	862.1	858.5	861.0	859.8	859.8	858.5	859.8
5°	862.1	867.0	862.1	865.9	863.4	863.4	863.4	864.6
7.5°	865.9	870.8	867.0	870.8	869.5	868.2	868.2	870.8
10°	869.5	873.1	870.8	874.4	873.1	871.9	871.9	874.4
12.5°	869.5	874.4	871.9	875.6	874.4	873.1	873.1	874.4
15°	865.9	871.9	868.2	871.9	870.8	869.5	869.5	871.9
17.5°	854.9	859.8	857.2	859.8	859.8	858.5	859.8	861.0
20°	840.2	843.9	841.4	843.9	843.9	841.4	842.6	843.9
22.5°	819.5	823.1	820.8	823.1	821.9	820.8	820.8	819.5
25°	793.9	798.8	795.1	797.5	795.1	792.6	792.6	793.9
27.5°	762.1	765.9	761.0	763.4	761.0	758.5	758.5	757.2
30°	720.8	721.9	718.2	720.8	718.2	717.0	714.6	714.6
32.5°	670.8	671.9	668.2	668.2	665.9	665.9	661.0	664.6
35°	612.1	613.4	612.1	611.0	607.2	606.1	604.9	604.9
37.5°	551.2	551.2	547.5	546.4	543.9	541.5	542.6	539.0
40°	489.0	487.8	484.1	485.4	484.1	480.5	479.2	478.0
42.5°	430.5	430.5	426.9	428.0	425.6	424.4	420.8	421.9
45°	379.2	379.2	375.6	375.6	374.4	370.8	372.0	369.5
47.5°	332.9	332.9	331.8	331.8	328.0	326.9	326.9	326.9
50°	292.6	292.6	292.6	292.6	291.5	290.2	289.0	290.2
52.5°	258.5	261.0	259.8	259.8	258.5	257.2	256.1	256.1
55°	228.0	229.2	229.2	230.5	229.2	228.0	229.2	228.0
57.5°	201.2	203.6	203.6	203.6	203.6	203.6	202.4	201.2
60°	178.0	179.2	179.2	180.5	180.5	180.5	179.2	179.2
62.5°	154.9	157.2	158.5	158.5	159.8	158.5	158.5	158.5
65°	136.6	139.0	140.2	139.0	140.2	140.2	139.0	139.0
67.5°	114.6	117.1	117.1	117.1	117.1	118.2	117.1	117.1
70°	92.6	95.1	93.9	95.1	95.1	95.1	95.1	95.1
72.5°	70.8	72.0	73.1	73.1	74.4	73.1	73.1	73.1
75°	51.2	53.6	53.6	53.6	53.6	54.9	54.9	54.9
77.5°	36.6	37.8	37.8	39.0	39.0	39.0	39.0	40.2
80°	25.6	25.6	26.9	26.9	28.0	28.0	28.0	28.0
82.5°	17.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2
85°	9.8	11.0	11.0	11.0	11.0	12.2	12.2	12.2
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.9	4.9
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)