

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: P252663

Luminaire Tested: **LE_6B15D010 EC6B10208035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252663
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 EC6B10208035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.8 lumens
Efficiency: N/A
Efficacy: 121.8 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

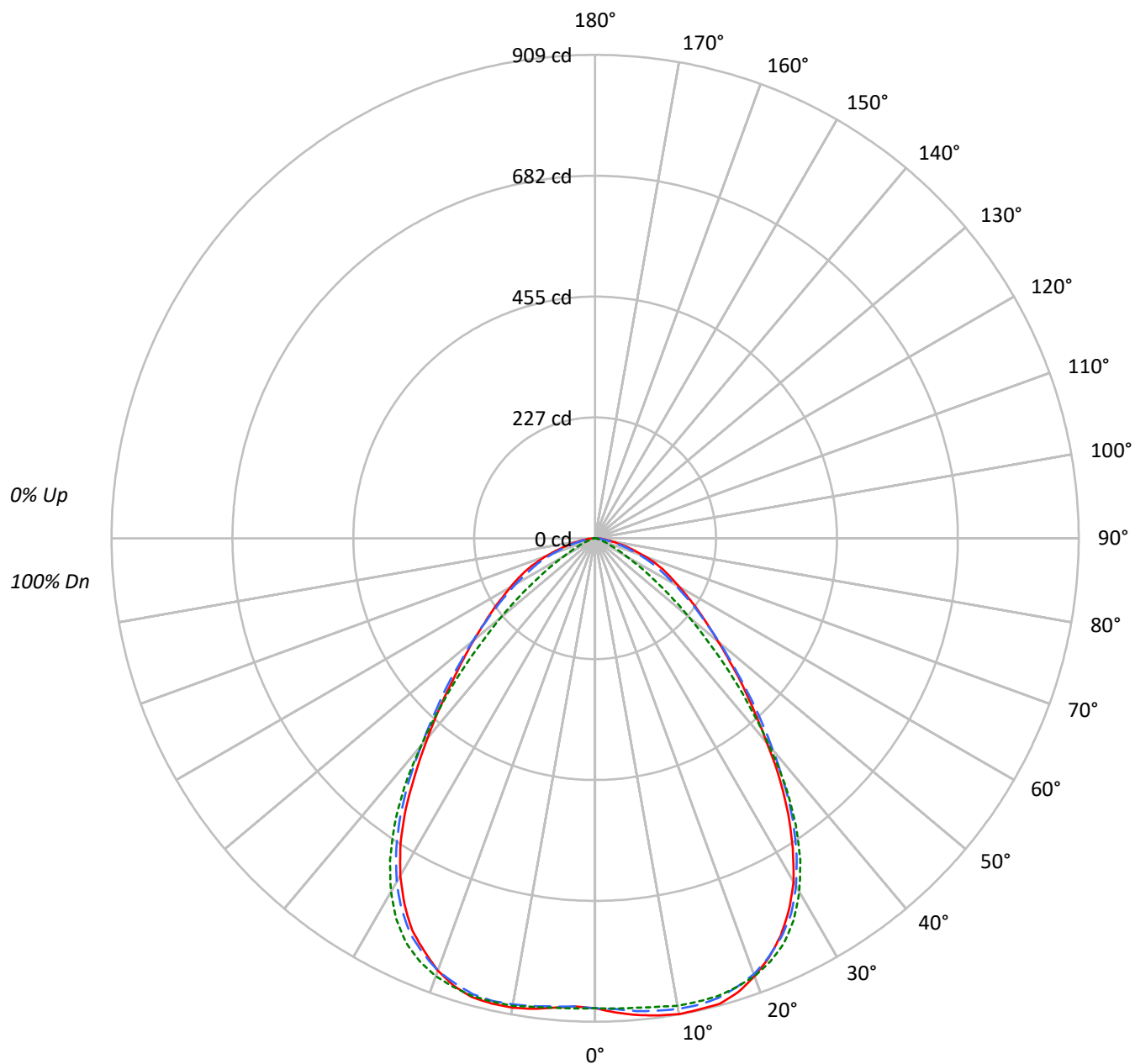
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	57647	57647	57647
5°	58934	58031	58031
10°	60192	59119	59364
15°	61200	60187	60356
20°	60826	60826	60048
25°	59380	60460	58567
30°	56206	57811	55174
35°	50367	52358	49371
40°	42787	43315	41723
45°	36204	33086	34931
50°	30571	23344	30195
55°	26866	15071	26593
60°	23813	8977	23982
65°	21998	5403	21998
70°	19075	3090	18598
75°	15124	1891	14166
80°	11271	1428	10820
85°	10330	898	9357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.9
10°-20°	251.8	14.4
20°-30°	378.7	21.6
30°-40°	398.1	22.7
40°-50°	297.4	17.0
50°-60°	185.2	10.6
60°-70°	105.3	6.0
70°-80°	43.4	2.5
80°-90°	9.0	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°	715.5	40.8
0°-40°	1113.6	63.5
0°-60°	1596.2	91.0
0°-90°	1753.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	884	884	884	884	884	
5°	900	892	886	884	886	86
15°	906	895	891	887	894	255
25°	825	827	840	821	814	378
35°	632	649	657	639	620	392
45°	392	401	359	394	379	304
55°	236	231	132	228	234	212
65°	142	128	35	128	142	140
75°	60	48	8	46	56	65
85°	14	9	1	8	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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	892.4	891.1	892.4	889.9	888.6	888.6	889.9	887.4	886.1	887.4	886.1
5°	899.9	897.4	898.6	897.4	894.9	894.9	896.1	892.4	892.4	893.6	892.4
7.5°	904.9	904.9	904.9	902.4	901.1	899.9	902.4	898.6	897.4	897.4	896.1
10°	908.6	907.4	908.6	906.1	903.6	902.4	904.9	902.4	899.9	902.4	898.6
12.5°	907.4	907.4	907.4	906.1	903.6	902.4	904.9	901.1	899.9	901.1	898.6
15°	906.1	902.4	903.6	902.4	898.6	898.6	899.9	896.1	893.6	897.4	894.9
17.5°	894.9	892.4	893.6	891.1	888.6	887.4	888.6	887.4	884.9	887.4	884.9
20°	876.1	876.1	877.4	874.9	872.4	871.1	873.6	871.1	868.6	872.4	872.4
22.5°	853.6	853.6	853.6	852.4	851.1	851.1	851.1	849.9	848.6	851.1	852.4
25°	824.9	823.6	824.9	826.1	824.9	823.6	824.9	824.9	822.4	827.4	827.4
27.5°	788.6	788.6	791.1	789.9	789.9	788.6	791.1	791.1	789.9	793.6	797.4
30°	746.1	743.6	746.1	746.1	747.4	747.4	748.6	748.6	748.6	752.4	754.9
32.5°	691.1	692.4	696.1	694.9	693.6	697.4	697.4	699.9	701.1	703.6	704.9
35°	632.4	633.6	633.6	634.9	637.4	634.9	641.1	639.9	641.1	646.1	648.6
37.5°	569.9	566.1	572.4	569.9	571.1	571.1	573.6	574.9	578.6	584.9	584.9
40°	502.4	503.6	506.1	507.4	508.6	508.6	508.6	512.4	513.6	521.1	519.9
42.5°	443.6	443.6	446.1	447.4	447.4	447.4	447.4	451.1	453.6	456.1	458.6
45°	392.4	388.6	391.1	391.1	393.6	392.4	394.9	397.4	398.6	402.4	401.1
47.5°	343.6	342.4	343.6	344.9	343.6	344.9	346.1	347.4	348.6	348.6	348.6
50°	301.2	301.2	302.5	303.8	303.8	303.8	303.8	305.0	305.0	307.5	305.0
52.5°	266.2	267.5	267.5	266.2	267.5	267.5	268.8	268.8	267.5	267.5	263.8
55°	236.2	235.0	236.2	235.0	236.2	236.2	235.0	235.0	233.8	232.5	231.2
57.5°	207.5	207.5	207.5	207.5	206.2	207.5	206.2	205.0	205.0	202.5	198.8
60°	182.5	182.5	182.5	182.5	182.5	181.2	182.5	181.2	178.8	176.2	171.2
62.5°	161.2	160.0	161.2	160.0	160.0	158.8	158.8	157.5	155.0	152.5	147.5
65°	142.5	143.8	142.5	142.5	141.2	140.0	140.0	138.8	135.0	132.5	127.5
67.5°	122.5	121.2	121.2	121.2	120.0	120.0	120.0	117.5	115.0	111.2	106.2
70°	100.0	100.0	100.0	98.8	98.8	97.5	97.5	96.2	93.8	91.2	85.0
72.5°	78.8	78.8	78.8	76.2	77.5	76.2	76.2	73.8	72.5	68.8	65.0
75°	60.0	60.0	58.8	58.8	57.5	56.2	56.2	55.0	53.8	51.2	47.5
77.5°	43.8	43.8	43.8	42.5	41.2	40.0	40.0	38.8	37.5	36.2	33.8
80°	30.0	30.0	30.0	30.0	28.8	27.5	27.5	26.2	26.2	25.0	22.5
82.5°	20.0	20.0	20.0	20.0	18.8	18.8	18.8	17.5	16.2	16.2	13.8
85°	13.8	13.8	12.5	12.5	12.5	12.5	11.2	11.2	10.0	8.8	8.8
87.5°	7.5	7.5	7.5	7.5	6.2	6.2	6.2	6.2	5.0	5.0	3.8
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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	889.9	889.9	888.6	884.9	886.1	884.9	886.1	884.9	881.1	884.9	881.1
5°	894.9	896.1	893.6	888.6	889.9	888.6	888.6	887.4	883.6	886.1	883.6
7.5°	899.9	898.6	897.4	892.4	893.6	892.4	892.4	889.9	886.1	888.6	884.9
10°	902.4	902.4	899.9	894.9	894.9	893.6	894.9	893.6	888.6	892.4	889.9
12.5°	902.4	901.1	901.1	894.9	896.1	894.9	896.1	893.6	889.9	892.4	891.1
15°	898.6	898.6	897.4	891.1	892.4	892.4	893.6	891.1	887.4	891.1	888.6
17.5°	891.1	891.1	889.9	884.9	887.4	887.4	888.6	886.1	882.4	884.9	884.9
20°	876.1	877.4	877.4	873.6	876.1	876.1	877.4	876.1	874.9	876.1	873.6
22.5°	858.6	861.1	861.1	857.4	859.9	859.9	863.6	862.4	859.9	861.1	859.9
25°	832.4	834.9	837.4	834.9	837.4	837.4	841.1	839.9	837.4	839.9	836.1
27.5°	802.4	803.6	806.1	803.6	807.4	806.1	809.9	808.6	804.9	808.6	807.4
30°	759.9	764.9	768.6	764.9	768.6	768.6	771.1	769.9	768.6	767.4	767.4
32.5°	712.4	717.4	717.4	716.1	718.6	718.6	719.9	717.4	716.1	717.4	718.6
35°	653.6	656.1	658.6	657.4	658.6	659.9	658.6	659.9	656.1	657.4	657.4
37.5°	589.9	592.4	592.4	588.6	591.1	591.1	588.6	588.6	586.1	588.6	583.6
40°	522.4	519.9	521.1	518.6	516.1	516.1	514.9	509.9	507.4	508.6	509.9
42.5°	456.1	456.1	452.4	446.1	439.9	439.9	436.1	433.6	428.6	431.1	429.9
45°	399.9	393.6	388.6	378.6	374.9	372.4	366.1	359.9	357.4	358.6	357.4
47.5°	346.1	341.1	328.6	315.0	311.2	307.5	300.0	292.5	290.0	287.5	287.5
50°	301.2	292.5	278.8	263.8	257.5	251.2	241.2	233.8	228.8	230.0	230.0
52.5°	260.0	250.0	233.8	215.0	207.5	200.0	191.2	182.5	178.8	177.5	177.5
55°	223.8	212.5	196.2	175.0	168.8	160.0	148.8	138.8	133.8	132.5	135.0
57.5°	191.2	181.2	162.5	141.2	133.8	125.0	113.8	105.0	98.8	97.5	98.8
60°	165.0	151.2	135.0	115.0	105.0	97.5	85.0	77.5	71.2	68.8	70.0
62.5°	138.8	126.2	110.0	90.0	82.5	75.0	63.8	55.0	50.0	48.8	50.0
65°	118.8	106.2	91.2	73.8	66.2	58.8	48.8	40.0	36.2	35.0	36.2
67.5°	98.8	87.5	75.0	58.8	52.5	46.2	36.2	30.0	25.0	23.8	25.0
70°	80.0	70.0	57.5	46.2	40.0	35.0	27.5	21.2	17.5	16.2	17.5
72.5°	60.0	52.5	43.8	33.8	30.0	26.2	20.0	15.0	12.5	11.2	12.5
75°	43.8	37.5	31.2	23.8	21.2	18.8	13.8	10.0	8.8	7.5	8.8
77.5°	30.0	26.2	21.2	16.2	13.8	12.5	8.8	7.5	6.2	5.0	5.0
80°	20.0	17.5	13.8	11.2	10.0	8.8	6.2	5.0	3.8	3.8	3.8
82.5°	12.5	10.0	8.8	6.2	5.0	5.0	3.8	2.5	2.5	2.5	2.5
85°	7.5	6.2	5.0	3.8	2.5	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	3.8	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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	883.6	881.1	881.1	882.4	883.6	884.9	882.4	881.1	881.1	884.9	882.4
5°	883.6	882.4	882.4	882.4	884.9	886.1	883.6	882.4	883.6	887.4	886.1
7.5°	887.4	884.9	886.1	886.1	887.4	889.9	887.4	886.1	887.4	891.1	888.6
10°	889.9	887.4	888.6	887.4	891.1	892.4	889.9	888.6	889.9	894.9	893.6
12.5°	891.1	889.9	889.9	888.6	892.4	893.6	891.1	889.9	891.1	894.9	893.6
15°	888.6	887.4	887.4	887.4	889.9	892.4	888.6	887.4	887.4	891.1	889.9
17.5°	883.6	881.1	881.1	881.1	882.4	883.6	879.9	878.6	877.4	881.1	879.9
20°	874.9	872.4	869.9	869.9	871.1	871.1	868.6	864.9	864.9	866.1	863.6
22.5°	858.6	857.4	854.9	853.6	856.1	854.9	849.9	846.1	844.9	846.1	843.6
25°	836.1	833.6	832.4	831.1	832.4	831.1	826.1	821.1	821.1	821.1	817.4
27.5°	804.9	802.4	801.1	801.1	802.4	799.9	794.9	789.9	787.4	787.4	783.6
30°	764.9	764.9	763.6	762.4	761.1	761.1	753.6	748.6	746.1	747.4	744.9
32.5°	716.1	714.9	713.6	709.9	711.1	709.9	703.6	699.9	696.1	693.6	692.4
35°	653.6	653.6	652.4	652.4	652.4	651.1	644.9	641.1	638.6	637.4	633.6
37.5°	584.9	583.6	582.4	582.4	582.4	582.4	578.6	574.9	574.9	573.6	571.1
40°	507.4	508.6	509.9	508.6	512.4	516.1	511.1	508.6	507.4	511.1	506.1
42.5°	432.4	431.1	437.4	438.6	438.6	444.9	446.1	447.4	446.1	448.6	448.6
45°	359.9	358.6	364.9	367.4	373.6	381.1	384.9	391.1	393.6	396.1	393.6
47.5°	291.2	296.2	301.2	307.5	312.5	324.9	332.4	338.6	341.1	344.9	344.9
50°	233.8	238.8	247.5	252.5	258.8	273.8	286.2	295.0	300.0	303.8	302.5
52.5°	180.0	188.8	200.0	205.0	213.8	231.2	245.0	255.0	261.2	265.0	266.2
55°	138.8	146.2	157.5	165.0	173.8	192.5	210.0	221.2	227.5	232.5	235.0
57.5°	102.5	111.2	123.8	130.0	140.0	161.2	176.2	190.0	197.5	203.8	205.0
60°	75.0	83.8	95.0	102.5	112.5	133.8	151.2	163.8	172.5	177.5	180.0
62.5°	53.8	62.5	73.8	81.2	90.0	108.8	126.2	138.8	147.5	153.8	157.5
65°	38.8	47.5	58.8	65.0	72.5	90.0	106.2	118.8	127.5	135.0	137.5
67.5°	28.8	35.0	45.0	51.2	58.8	72.5	86.2	97.5	106.2	112.5	115.0
70°	21.2	26.2	35.0	38.8	43.8	56.2	67.5	77.5	85.0	90.0	92.5
72.5°	15.0	18.8	25.0	28.8	32.5	42.5	51.2	58.8	63.8	68.8	71.2
75°	10.0	12.5	17.5	20.0	22.5	30.0	36.2	42.5	46.2	50.0	51.2
77.5°	6.2	8.8	12.5	13.8	16.2	20.0	25.0	28.8	31.2	33.8	36.2
80°	3.8	5.0	7.5	8.8	10.0	13.8	16.2	18.8	21.2	23.8	25.0
82.5°	2.5	3.8	5.0	5.0	6.2	7.5	10.0	12.5	13.8	15.0	16.2
85°	1.2	1.2	2.5	2.5	3.8	3.8	5.0	6.2	7.5	8.8	10.0
87.5°	1.2	1.2	1.2	1.2	2.5	2.5	3.8	3.8	3.8	5.0	5.0
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: P252663

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	879.9	883.6	879.9	882.4	881.1	881.1	879.9	881.1
5°	883.6	888.6	883.6	887.4	884.9	884.9	884.9	886.1
7.5°	887.4	892.4	888.6	892.4	891.1	889.9	889.9	892.4
10°	891.1	894.9	892.4	896.1	894.9	893.6	893.6	896.1
12.5°	891.1	896.1	893.6	897.4	896.1	894.9	894.9	896.1
15°	887.4	893.6	889.9	893.6	892.4	891.1	891.1	893.6
17.5°	876.1	881.1	878.6	881.1	881.1	879.9	881.1	882.4
20°	861.1	864.9	862.4	864.9	864.9	862.4	863.6	864.9
22.5°	839.9	843.6	841.1	843.6	842.4	841.1	841.1	839.9
25°	813.6	818.6	814.9	817.4	814.9	812.4	812.4	813.6
27.5°	781.1	784.9	779.9	782.4	779.9	777.4	777.4	776.1
30°	738.6	739.9	736.1	738.6	736.1	734.9	732.4	732.4
32.5°	687.4	688.6	684.9	684.9	682.4	682.4	677.4	681.1
35°	627.4	628.6	627.4	626.1	622.4	621.1	619.9	619.9
37.5°	564.9	564.9	561.1	559.9	557.4	554.9	556.1	552.4
40°	501.1	499.9	496.1	497.4	496.1	492.4	491.1	489.9
42.5°	441.1	441.1	437.4	438.6	436.1	434.9	431.1	432.4
45°	388.6	388.6	384.9	384.9	383.6	379.9	381.1	378.6
47.5°	341.1	341.1	339.9	339.9	336.1	334.9	334.9	334.9
50°	300.0	300.0	300.0	300.0	298.8	297.5	296.2	297.5
52.5°	265.0	267.5	266.2	266.2	265.0	263.8	262.5	262.5
55°	233.8	235.0	235.0	236.2	235.0	233.8	235.0	233.8
57.5°	206.2	208.8	208.8	208.8	208.8	208.8	207.5	206.2
60°	182.5	183.8	183.8	185.0	185.0	185.0	183.8	183.8
62.5°	158.8	161.2	162.5	162.5	163.8	162.5	162.5	162.5
65°	140.0	142.5	143.8	142.5	143.8	143.8	142.5	142.5
67.5°	117.5	120.0	120.0	120.0	120.0	121.2	120.0	120.0
70°	95.0	97.5	96.2	97.5	97.5	97.5	97.5	97.5
72.5°	72.5	73.8	75.0	75.0	76.2	75.0	75.0	75.0
75°	52.5	55.0	55.0	55.0	55.0	56.2	56.2	56.2
77.5°	37.5	38.8	38.8	40.0	40.0	40.0	40.0	41.2
80°	26.2	26.2	27.5	27.5	28.8	28.8	28.8	28.8
82.5°	17.5	18.8	18.8	18.8	18.8	18.8	18.8	18.8
85°	10.0	11.2	11.2	11.2	11.2	12.5	12.5	12.5
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0
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)