

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: P252255

Luminaire Tested: **LE_6B15D010 EC6B10209050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

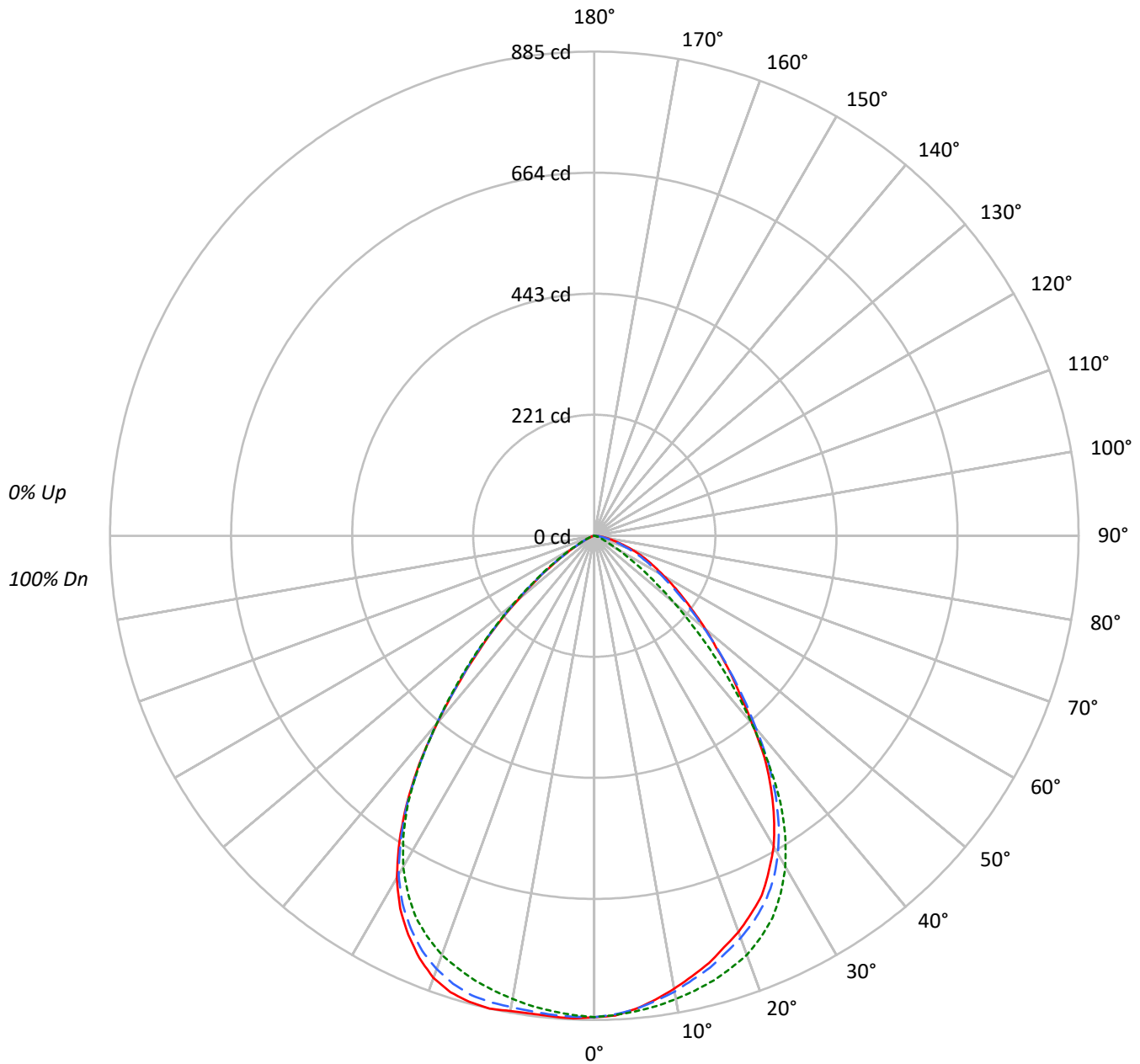
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	69	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°	57405	57405	57405
5°	56858	57140	57762
10°	55687	56959	58430
15°	54628	56843	59572
20°	53494	56590	59694
25°	52175	55464	57912
30°	49404	52598	54361
35°	44856	47149	47563
40°	38282	38103	37916
45°	32163	28528	27661
50°	26856	19305	18330
55°	22612	11841	10760
60°	19129	6250	5415
65°	16580	3273	2624
70°	13772	2022	1431
75°	10184	1361	807
80°	7965	789	413
85°	6363	823	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	5.6
10°-20°	237.4	16.1
20°-30°	350.6	23.8
30°-40°	361.4	24.5
40°-50°	249.6	16.9
50°-60°	123.0	8.3
60°-70°	49.9	3.4
70°-80°	17.8	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°	671.0	45.5
0°-40°	1032.4	69.9
0°-60°	1405.0	95.2
0°-90°	1476.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	880	880	880	880	880	
5°	868	868	872	879	882	82
15°	809	817	842	869	882	228
25°	725	739	770	793	804	331
35°	563	577	592	595	597	349
45°	349	351	309	305	300	269
55°	199	191	104	98	95	180
65°	107	97	21	17	17	107
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°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	877.8	874.6	876.8	872.5	877.8	872.5	873.5	874.6	873.5	874.6	875.6
5°	868.2	865.0	868.2	862.9	868.2	865.0	865.0	866.1	866.1	867.1	868.2
7.5°	855.5	852.2	855.5	850.1	856.5	853.4	853.4	855.5	854.4	855.5	857.6
10°	840.6	836.4	839.5	836.4	842.8	838.5	840.6	840.6	840.6	843.8	845.9
12.5°	824.6	820.4	824.6	819.4	825.8	822.5	823.6	826.8	827.9	830.0	831.0
15°	808.8	803.4	805.5	802.4	808.8	805.5	806.6	810.9	810.9	814.0	817.2
17.5°	788.5	784.2	788.5	784.2	789.6	787.5	789.6	792.8	792.8	796.0	799.1
20°	770.5	766.2	769.4	766.2	772.6	769.4	770.5	774.8	775.8	779.0	782.1
22.5°	748.1	745.0	747.1	743.9	750.2	748.1	749.2	753.5	754.5	756.6	762.0
25°	724.8	718.4	721.6	719.5	725.9	722.6	724.8	729.0	731.1	734.4	738.6
27.5°	690.8	687.6	689.8	689.8	695.0	691.9	692.9	697.1	700.4	703.5	708.9
30°	655.8	650.4	652.5	653.6	657.9	655.8	657.9	662.1	663.1	667.4	671.6
32.5°	611.1	609.0	613.2	611.1	613.2	613.2	614.2	617.5	619.6	621.8	627.0
35°	563.2	559.0	563.2	561.1	566.4	563.2	566.4	569.6	569.6	573.9	577.0
37.5°	511.1	505.9	508.0	508.0	510.1	509.0	509.0	514.4	515.4	518.6	521.8
40°	449.5	447.4	451.6	450.6	451.6	451.6	452.8	455.9	458.0	459.1	460.1
42.5°	394.2	395.4	396.4	396.4	396.4	396.4	396.4	400.6	399.6	402.8	403.9
45°	348.6	344.4	346.5	345.4	348.6	345.4	348.6	351.8	349.6	352.9	350.8
47.5°	301.9	301.9	301.9	300.8	302.9	301.9	304.0	305.0	305.0	305.0	304.0
50°	264.6	261.4	262.5	262.5	263.5	262.5	264.6	265.6	265.6	263.5	259.2
52.5°	228.5	227.4	227.4	229.5	229.5	228.5	228.5	228.5	228.5	225.2	223.1
55°	198.8	196.6	197.6	197.6	197.6	197.6	198.8	197.6	197.6	194.5	191.2
57.5°	172.1	170.0	170.0	170.0	171.1	170.0	170.0	170.0	169.0	165.8	161.5
60°	146.6	145.6	146.6	146.6	147.8	146.6	146.6	146.6	144.5	141.4	137.1
62.5°	125.4	125.4	125.4	126.5	126.5	125.4	125.4	124.4	123.2	119.0	114.8
65°	107.4	106.2	107.4	107.4	108.4	108.4	107.4	106.2	105.2	101.0	96.8
67.5°	89.2	88.2	89.2	89.2	90.4	89.2	89.2	89.2	86.1	84.0	79.8
70°	72.2	71.2	71.2	71.2	72.2	70.1	71.2	71.2	69.1	65.9	61.6
72.5°	55.2	55.2	55.2	55.2	55.2	55.2	54.2	54.2	52.1	48.9	46.8
75°	40.4	40.4	41.5	41.5	40.4	40.4	40.4	39.4	38.2	36.1	34.0
77.5°	29.8	29.8	29.8	29.8	28.8	28.8	28.8	27.6	26.6	25.5	23.4
80°	21.2	21.2	21.2	20.2	21.2	20.2	20.2	20.2	18.1	17.0	16.0
82.5°	14.9	13.9	13.9	13.9	13.9	13.9	13.9	12.8	12.8	11.8	10.6
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.5	6.4	6.4
87.5°	4.2	5.4	5.4	5.4	5.4	5.4	5.4	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°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	875.6	875.6	877.8	874.6	879.9	876.8	875.6	881.0	877.8	876.8	878.9
5°	868.2	869.2	870.4	868.2	873.5	870.4	870.4	875.6	873.5	872.5	875.6
7.5°	858.6	859.8	861.9	860.8	865.0	862.9	864.0	869.2	867.1	867.1	870.4
10°	847.0	849.1	851.2	851.2	856.5	854.4	854.4	860.8	858.6	859.8	864.0
12.5°	833.1	836.4	839.5	840.6	845.9	842.8	843.8	851.2	850.1	851.2	855.5
15°	818.2	822.5	825.8	825.8	832.1	828.9	832.1	839.5	837.4	841.6	847.0
17.5°	801.2	805.5	809.8	810.9	817.2	815.1	819.4	826.8	826.8	828.9	835.2
20°	785.4	790.6	792.8	796.0	802.4	801.2	803.4	811.9	811.9	815.1	821.5
22.5°	764.1	769.4	773.6	776.9	782.1	782.1	785.4	792.8	792.8	794.9	801.2
25°	740.8	747.1	750.2	753.5	758.8	757.8	760.9	767.2	768.4	770.5	776.9
27.5°	711.0	716.2	720.5	722.6	730.1	725.9	729.0	736.5	735.4	737.5	742.9
30°	673.8	679.1	683.4	683.4	689.8	689.8	692.9	696.1	696.1	698.2	702.5
32.5°	630.2	636.6	636.6	639.8	644.0	639.8	644.0	648.2	646.1	649.4	652.5
35°	580.2	583.4	584.5	584.5	587.6	586.6	585.5	588.8	586.6	592.0	595.1
37.5°	519.6	523.9	521.8	523.9	522.9	519.6	519.6	525.0	520.8	521.8	525.0
40°	461.2	461.2	460.1	454.9	455.9	452.8	451.6	452.8	448.5	447.4	451.6
42.5°	400.6	399.6	396.4	389.0	390.0	384.8	380.5	380.5	378.4	377.2	378.4
45°	346.5	343.2	338.0	329.5	327.4	323.1	314.6	312.5	309.2	309.2	310.4
47.5°	296.5	292.2	283.8	274.1	268.9	263.5	255.0	251.9	246.5	244.4	246.5
50°	255.0	247.6	237.0	223.1	217.9	211.5	203.0	197.6	192.4	190.2	189.1
52.5°	216.8	206.1	195.5	178.5	174.2	167.9	156.2	150.9	145.6	141.4	141.4
55°	183.9	174.2	159.4	143.5	137.1	130.8	119.0	111.6	106.2	104.1	102.0
57.5°	154.1	143.5	129.6	112.6	106.2	99.9	88.2	80.8	75.5	72.2	70.1
60°	129.6	118.0	104.1	89.2	81.9	75.5	63.8	56.4	51.0	47.9	45.8
62.5°	106.2	96.8	82.9	69.1	62.8	56.4	46.8	39.4	34.0	31.9	28.8
65°	89.2	79.8	67.0	55.2	50.0	43.6	35.1	28.8	24.5	21.2	19.1
67.5°	72.2	64.9	54.2	43.6	38.2	34.0	26.6	21.2	17.0	14.9	13.9
70°	57.4	50.0	41.5	33.0	29.8	25.5	20.2	14.9	12.8	10.6	9.6
72.5°	42.5	37.2	30.9	24.5	21.2	19.1	13.9	11.8	8.5	7.5	6.4
75°	30.9	26.6	22.4	17.0	14.9	13.9	10.6	7.5	6.4	5.4	4.2
77.5°	21.2	19.1	14.9	11.8	10.6	9.6	7.5	5.4	4.2	3.2	3.2
80°	13.9	11.8	9.6	7.5	7.5	6.4	4.2	3.2	3.2	2.1	2.1
82.5°	8.5	7.5	6.4	5.4	4.2	4.2	3.2	2.1	2.1	1.1	1.1
85°	5.4	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°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	878.9	878.9	881.0	877.8	879.9	879.9	882.0	877.8	879.9	881.0	883.1
5°	874.6	875.6	877.8	876.8	877.8	877.8	879.9	874.6	878.9	878.9	882.0
7.5°	870.4	870.4	872.5	871.4	873.5	874.6	876.8	872.5	876.8	876.8	879.9
10°	865.0	865.0	868.2	867.1	870.4	871.4	874.6	870.4	874.6	875.6	878.9
12.5°	857.6	858.6	861.9	861.9	865.0	867.1	870.4	868.2	873.5	874.6	878.9
15°	849.1	851.2	855.5	854.4	857.6	860.8	865.0	861.9	869.2	871.4	875.6
17.5°	838.5	840.6	843.8	843.8	847.0	849.1	854.4	852.2	858.6	859.8	865.0
20°	822.5	825.8	830.0	828.9	832.1	834.2	838.5	836.4	842.8	844.9	850.1
22.5°	803.4	805.5	808.8	808.8	811.9	814.0	818.2	815.1	821.5	822.5	826.8
25°	777.9	780.0	782.1	783.2	786.4	787.5	789.6	787.5	792.8	793.9	799.1
27.5°	745.0	746.0	749.2	749.2	751.4	752.4	755.6	751.4	758.8	758.8	762.0
30°	705.6	704.6	708.9	706.8	708.9	708.9	712.0	709.9	715.2	713.1	716.2
32.5°	653.6	655.8	655.8	653.6	657.9	656.8	656.8	654.6	657.9	658.9	661.0
35°	593.0	596.2	596.2	597.2	598.4	595.1	596.2	589.8	595.1	596.2	597.2
37.5°	527.1	523.9	526.0	522.9	528.1	521.8	521.8	517.5	521.8	521.8	522.9
40°	451.6	450.6	452.8	450.6	449.5	448.5	446.4	443.1	447.4	445.2	448.5
42.5°	380.5	379.4	379.4	377.2	376.2	376.2	374.1	372.0	370.9	370.9	376.2
45°	307.1	309.2	307.1	306.1	308.2	306.1	307.1	302.9	305.0	302.9	305.0
47.5°	245.5	246.5	244.4	242.2	245.5	242.2	242.2	239.1	243.4	243.4	241.2
50°	190.2	189.1	187.0	189.1	188.1	188.1	188.1	184.9	187.0	183.9	186.0
52.5°	140.2	139.2	139.2	138.1	139.2	138.1	138.1	137.1	137.1	136.0	137.1
55°	102.0	101.0	98.9	98.9	98.9	99.9	98.9	97.8	97.8	96.8	97.8
57.5°	69.1	67.0	67.0	67.0	67.0	65.9	65.9	64.9	65.9	64.9	65.9
60°	44.6	44.6	42.5	42.5	42.5	42.5	42.5	41.5	42.5	42.5	42.5
62.5°	27.6	27.6	26.6	25.5	26.6	25.5	25.5	25.5	26.6	25.5	26.6
65°	18.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
67.5°	12.8	11.8	11.8	11.8	11.8	11.8	11.8	10.6	11.8	11.8	11.8
70°	8.5	8.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
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°	4.2	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: P252255

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	879.9	881.0	878.9	879.9	877.8	879.9	881.0	883.1
5°	877.8	878.9	876.8	878.9	876.8	878.9	879.9	882.0
7.5°	875.6	877.8	875.6	877.8	875.6	877.8	878.9	881.0
10°	875.6	878.9	876.8	879.9	876.8	878.9	881.0	882.0
12.5°	875.6	878.9	877.8	879.9	878.9	881.0	883.1	885.2
15°	873.5	876.8	874.6	877.8	876.8	877.8	882.0	882.0
17.5°	861.9	865.0	865.0	867.1	867.1	870.4	872.5	874.6
20°	847.0	850.1	849.1	852.2	852.2	855.5	857.6	859.8
22.5°	824.6	828.9	827.9	831.0	830.0	832.1	836.4	835.2
25°	796.0	801.2	800.2	802.4	801.2	801.2	803.4	804.5
27.5°	760.9	764.1	763.0	765.1	763.0	765.1	767.2	768.4
30°	715.2	717.4	716.2	717.4	716.2	718.4	719.5	721.6
32.5°	660.0	663.1	660.0	662.1	661.0	661.0	665.2	663.1
35°	594.1	595.1	596.2	596.2	594.1	595.1	597.2	597.2
37.5°	520.8	526.0	519.6	522.9	521.8	521.8	521.8	525.0
40°	444.2	445.2	443.1	443.1	443.1	442.1	446.4	445.2
42.5°	372.0	373.0	372.0	368.8	369.9	369.9	373.0	368.8
45°	301.9	304.0	302.9	302.9	300.8	300.8	301.9	299.8
47.5°	239.1	241.2	238.0	239.1	237.0	239.1	238.0	240.1
50°	181.8	183.9	182.8	183.9	183.9	181.8	184.9	180.6
52.5°	136.0	137.1	136.0	135.0	133.9	133.9	136.0	135.0
55°	96.8	95.6	95.6	95.6	96.8	96.8	95.6	94.6
57.5°	64.9	64.9	63.8	63.8	64.9	62.8	63.8	62.8
60°	41.5	41.5	41.5	41.5	40.4	41.5	41.5	41.5
62.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
65°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
67.5°	10.6	11.8	11.8	11.8	10.6	10.6	10.6	10.6
70°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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)