

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: P252234

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252234
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_6B10D010 EC6B10208035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1258.8 lumens
Efficiency: N/A
Efficacy: 125.9 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

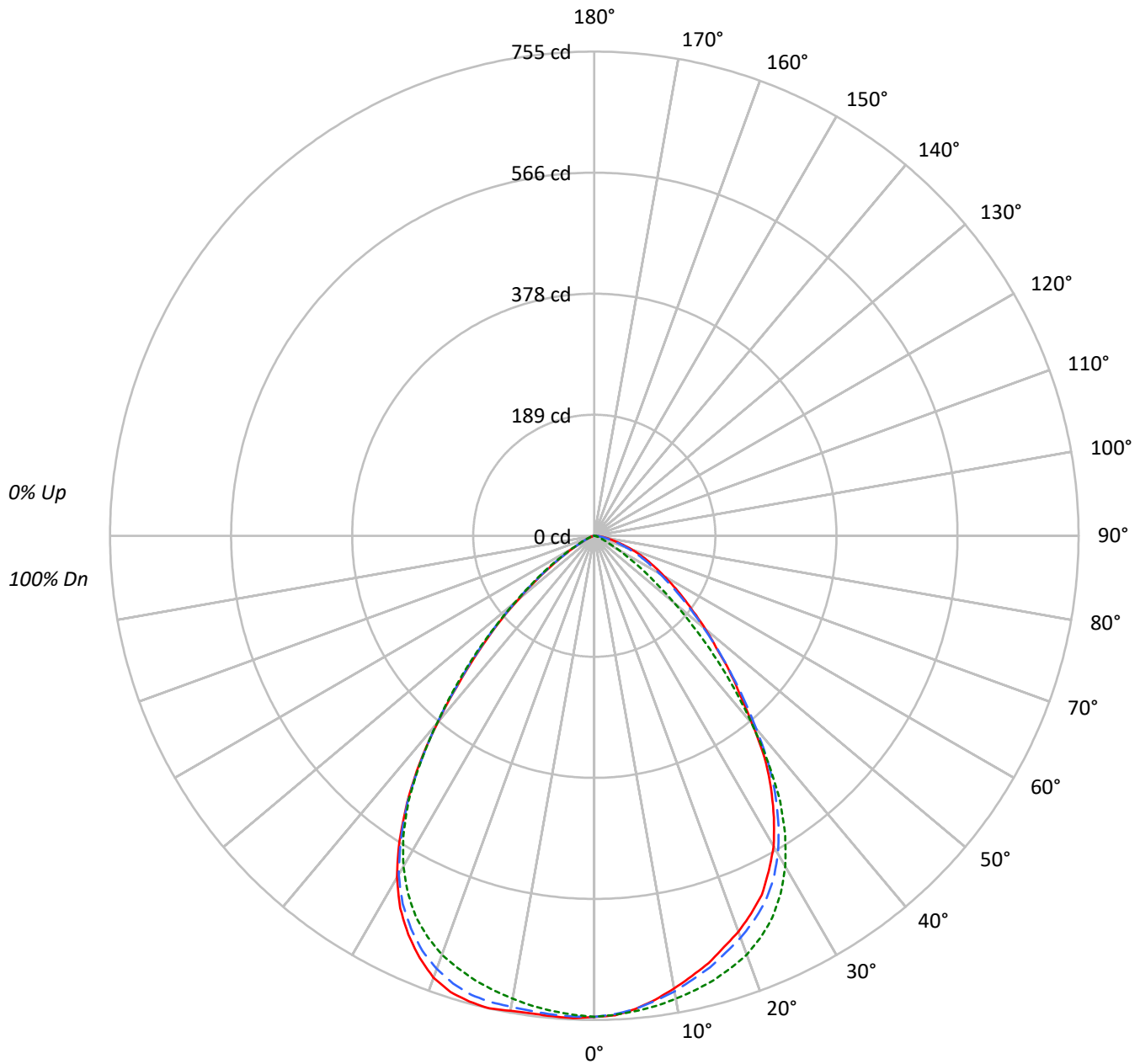
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	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°	48944	48944	48944
5°	48489	48724	49255
10°	47486	48566	49824
15°	46577	48468	50798
20°	45614	48252	50897
25°	44487	47294	49382
30°	42119	44853	46345
35°	38245	40204	40555
40°	32635	32491	32329
45°	27421	24339	23573
50°	22898	16463	15630
55°	19280	10100	9168
60°	16310	5324	4619
65°	14125	2794	2238
70°	11750	1717	1221
75°	8671	1134	706
80°	6800	676	338
85°	5390	674	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	5.6
10°-20°	202.5	16.1
20°-30°	299.0	23.8
30°-40°	308.1	24.5
40°-50°	212.8	16.9
50°-60°	104.9	8.3
60°-70°	42.5	3.4
70°-80°	15.2	1.2
80°-90°	3.1	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°	572.1	45.5
0°-40°	880.3	69.9
0°-60°	1198.0	95.2
0°-90°	1258.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	750	750	750	750	750	
5°	740	740	744	749	752	70
15°	690	697	718	741	752	194
25°	618	630	657	676	686	283
35°	480	492	505	508	509	298
45°	297	299	264	260	256	230
55°	170	163	89	83	81	153
65°	92	82	18	14	14	91
75°	34	29	4	3	3	39
85°	7	5	1	0	0	9
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°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	748.5	745.8	747.6	744.0	748.5	744.0	744.9	745.8	744.9	745.8	746.6
5°	740.4	737.6	740.4	735.8	740.4	737.6	737.6	738.5	738.5	739.4	740.4
7.5°	729.5	726.8	729.5	724.9	730.4	727.6	727.6	729.5	728.5	729.5	731.2
10°	716.8	713.1	715.9	713.1	718.6	715.0	716.8	716.8	716.8	719.5	721.2
12.5°	703.1	699.5	703.1	698.6	704.1	701.4	702.2	705.0	705.9	707.8	708.6
15°	689.6	685.0	686.9	684.1	689.6	686.9	687.8	691.4	691.4	694.1	696.9
17.5°	672.4	668.8	672.4	668.8	673.2	671.5	673.2	676.0	676.0	678.8	681.4
20°	657.0	653.4	656.0	653.4	658.8	656.0	657.0	660.6	661.5	664.2	666.9
22.5°	637.9	635.2	637.0	634.2	639.8	637.9	638.9	642.5	643.4	645.1	649.8
25°	618.0	612.5	615.2	613.5	618.9	616.1	618.0	621.6	623.4	626.1	629.8
27.5°	589.0	586.2	588.1	588.1	592.6	589.9	590.8	594.4	597.1	599.9	604.4
30°	559.1	554.6	556.4	557.2	560.9	559.1	560.9	564.5	565.5	569.0	572.6
32.5°	521.0	519.2	522.9	521.0	522.9	522.9	523.8	526.5	528.2	530.1	534.6
35°	480.2	476.6	480.2	478.5	483.0	480.2	483.0	485.8	485.8	489.4	492.0
37.5°	435.9	431.4	433.1	433.1	435.0	434.0	434.0	438.6	439.5	442.2	444.9
40°	383.2	381.5	385.1	384.2	385.1	385.1	386.0	388.8	390.5	391.5	392.4
42.5°	336.1	337.1	338.0	338.0	338.0	338.0	338.0	341.6	340.8	343.4	344.4
45°	297.2	293.6	295.4	294.5	297.2	294.5	297.2	299.9	298.1	300.9	299.0
47.5°	257.4	257.4	257.4	256.5	258.2	257.4	259.1	260.1	260.1	260.1	259.1
50°	225.6	222.9	223.9	223.9	224.8	223.9	225.6	226.5	226.5	224.8	221.1
52.5°	194.9	193.9	193.9	195.8	195.8	194.9	194.9	194.9	194.9	192.1	190.2
55°	169.5	167.6	168.5	168.5	168.5	168.5	169.5	168.5	168.5	165.9	163.1
57.5°	146.8	145.0	145.0	145.0	145.9	145.0	145.0	145.0	144.1	141.4	137.8
60°	125.0	124.1	125.0	125.0	126.0	125.0	125.0	125.0	123.2	120.5	116.9
62.5°	106.9	106.9	106.9	107.9	107.9	106.9	106.9	106.0	105.1	101.5	97.9
65°	91.5	90.6	91.5	91.5	92.4	92.4	91.5	90.6	89.8	86.1	82.5
67.5°	76.1	75.2	76.1	76.1	77.0	76.1	76.1	76.1	73.4	71.6	68.0
70°	61.6	60.8	60.8	60.8	61.6	59.8	60.8	60.8	58.9	56.1	52.5
72.5°	47.1	47.1	47.1	47.1	47.1	47.1	46.2	46.2	44.4	41.6	39.9
75°	34.4	34.4	35.4	35.4	34.4	34.4	34.4	33.5	32.6	30.8	29.0
77.5°	25.4	25.4	25.4	25.4	24.5	24.5	24.5	23.5	22.6	21.8	19.9
80°	18.1	18.1	18.1	17.2	18.1	17.2	17.2	17.2	15.4	14.5	13.6
82.5°	12.6	11.8	11.8	11.8	11.8	11.8	11.8	10.9	10.9	10.0	9.0
85°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.4	5.4	5.4
87.5°	3.6	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6	3.6	2.8
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°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	746.6	746.6	748.5	745.8	750.2	747.6	746.6	751.2	748.5	747.6	749.4
5°	740.4	741.2	742.1	740.4	744.9	742.1	742.1	746.6	744.9	744.0	746.6
7.5°	732.1	733.1	734.9	734.0	737.6	735.8	736.8	741.2	739.4	739.4	742.1
10°	722.2	724.0	725.9	725.9	730.4	728.5	728.5	734.0	732.1	733.1	736.8
12.5°	710.4	713.1	715.9	716.8	721.2	718.6	719.5	725.9	724.9	725.9	729.5
15°	697.8	701.4	704.1	704.1	709.5	706.8	709.5	715.9	714.0	717.6	722.2
17.5°	683.2	686.9	690.5	691.4	696.9	695.0	698.6	705.0	705.0	706.8	712.2
20°	669.6	674.1	676.0	678.8	684.1	683.2	685.0	692.2	692.2	695.0	700.5
22.5°	651.5	656.0	659.6	662.4	666.9	666.9	669.6	676.0	676.0	677.8	683.2
25°	631.6	637.0	639.8	642.5	647.0	646.1	648.8	654.2	655.1	657.0	662.4
27.5°	606.2	610.8	614.4	616.1	622.5	618.9	621.6	628.0	627.0	628.9	633.4
30°	574.5	579.0	582.6	582.6	588.1	588.1	590.8	593.5	593.5	595.4	599.0
32.5°	537.4	542.8	542.8	545.5	549.1	545.5	549.1	552.8	551.0	553.6	556.4
35°	494.8	497.5	498.4	498.4	501.1	500.2	499.2	502.0	500.2	504.8	507.5
37.5°	443.1	446.8	444.9	446.8	445.9	443.1	443.1	447.6	444.0	444.9	447.6
40°	393.2	393.2	392.4	387.9	388.8	386.0	385.1	386.0	382.4	381.5	385.1
42.5°	341.6	340.8	338.0	331.6	332.5	328.0	324.4	324.4	322.6	321.6	322.6
45°	295.4	292.6	288.1	280.9	279.1	275.5	268.2	266.4	263.8	263.8	264.6
47.5°	252.9	249.2	242.0	233.8	229.2	224.8	217.5	214.8	210.2	208.4	210.2
50°	217.5	211.1	202.1	190.2	185.8	180.4	173.1	168.5	164.0	162.2	161.2
52.5°	184.9	175.8	166.8	152.2	148.6	143.1	133.2	128.6	124.1	120.5	120.5
55°	156.8	148.6	135.9	122.4	116.9	111.5	101.5	95.1	90.6	88.8	87.0
57.5°	131.4	122.4	110.5	96.0	90.6	85.1	75.2	68.9	64.4	61.6	59.8
60°	110.5	100.6	88.8	76.1	69.8	64.4	54.4	48.0	43.5	40.8	39.0
62.5°	90.6	82.5	70.6	58.9	53.5	48.0	39.9	33.5	29.0	27.1	24.5
65°	76.1	68.0	57.1	47.1	42.6	37.1	29.9	24.5	20.9	18.1	16.2
67.5°	61.6	55.2	46.2	37.1	32.6	29.0	22.6	18.1	14.5	12.6	11.8
70°	48.9	42.6	35.4	28.1	25.4	21.8	17.2	12.6	10.9	9.0	8.1
72.5°	36.2	31.8	26.2	20.9	18.1	16.2	11.8	10.0	7.2	6.4	5.4
75°	26.2	22.6	19.0	14.5	12.6	11.8	9.0	6.4	5.4	4.5	3.6
77.5°	18.1	16.2	12.6	10.0	9.0	8.1	6.4	4.5	3.6	2.8	2.8
80°	11.8	10.0	8.1	6.4	6.4	5.4	3.6	2.8	2.8	1.8	1.8
82.5°	7.2	6.4	5.4	4.5	3.6	3.6	2.8	1.8	1.8	0.9	0.9
85°	4.5	3.6	2.8	2.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	749.4	749.4	751.2	748.5	750.2	750.2	752.1	748.5	750.2	751.2	753.0
5°	745.8	746.6	748.5	747.6	748.5	748.5	750.2	745.8	749.4	749.4	752.1
7.5°	742.1	742.1	744.0	743.0	744.9	745.8	747.6	744.0	747.6	747.6	750.2
10°	737.6	737.6	740.4	739.4	742.1	743.0	745.8	742.1	745.8	746.6	749.4
12.5°	731.2	732.1	734.9	734.9	737.6	739.4	742.1	740.4	744.9	745.8	749.4
15°	724.0	725.9	729.5	728.5	731.2	734.0	737.6	734.9	741.2	743.0	746.6
17.5°	715.0	716.8	719.5	719.5	722.2	724.0	728.5	726.8	732.1	733.1	737.6
20°	701.4	704.1	707.8	706.8	709.5	711.4	715.0	713.1	718.6	720.4	724.9
22.5°	685.0	686.9	689.6	689.6	692.2	694.1	697.8	695.0	700.5	701.4	705.0
25°	663.2	665.1	666.9	667.9	670.5	671.5	673.2	671.5	676.0	676.9	681.4
27.5°	635.2	636.1	638.9	638.9	640.6	641.5	644.2	640.6	647.0	647.0	649.8
30°	601.6	600.8	604.4	602.6	604.4	604.4	607.1	605.2	609.9	608.0	610.8
32.5°	557.2	559.1	559.1	557.2	560.9	560.0	560.0	558.2	560.9	561.9	563.6
35°	505.6	508.4	508.4	509.2	510.1	507.5	508.4	502.9	507.5	508.4	509.2
37.5°	449.5	446.8	448.5	445.9	450.4	444.9	444.9	441.2	444.9	444.9	445.9
40°	385.1	384.2	386.0	384.2	383.2	382.4	380.6	377.9	381.5	379.6	382.4
42.5°	324.4	323.5	323.5	321.6	320.8	320.8	319.0	317.1	316.2	316.2	320.8
45°	261.9	263.8	261.9	261.0	262.8	261.0	261.9	258.2	260.1	258.2	260.1
47.5°	209.4	210.2	208.4	206.6	209.4	206.6	206.6	203.9	207.5	207.5	205.8
50°	162.2	161.2	159.5	161.2	160.4	160.4	160.4	157.6	159.5	156.8	158.6
52.5°	119.6	118.8	118.8	117.8	118.8	117.8	117.8	116.9	116.9	116.0	116.9
55°	87.0	86.1	84.2	84.2	84.2	85.1	84.2	83.4	83.4	82.5	83.4
57.5°	58.9	57.1	57.1	57.1	57.1	56.1	56.1	55.2	56.1	55.2	56.1
60°	38.0	38.0	36.2	36.2	36.2	36.2	36.2	35.4	36.2	36.2	36.2
62.5°	23.5	23.5	22.6	21.8	22.6	21.8	21.8	21.8	22.6	21.8	22.6
65°	15.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
67.5°	10.9	10.0	10.0	10.0	10.0	10.0	10.0	9.0	10.0	10.0	10.0
70°	7.2	7.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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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CATALOG NUMBER: LE_6B10D010 EC6B10208035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	750.2	751.2	749.4	750.2	748.5	750.2	751.2	753.0
5°	748.5	749.4	747.6	749.4	747.6	749.4	750.2	752.1
7.5°	746.6	748.5	746.6	748.5	746.6	748.5	749.4	751.2
10°	746.6	749.4	747.6	750.2	747.6	749.4	751.2	752.1
12.5°	746.6	749.4	748.5	750.2	749.4	751.2	753.0	754.9
15°	744.9	747.6	745.8	748.5	747.6	748.5	752.1	752.1
17.5°	734.9	737.6	737.6	739.4	739.4	742.1	744.0	745.8
20°	722.2	724.9	724.0	726.8	726.8	729.5	731.2	733.1
22.5°	703.1	706.8	705.9	708.6	707.8	709.5	713.1	712.2
25°	678.8	683.2	682.4	684.1	683.2	683.2	685.0	686.0
27.5°	648.8	651.5	650.6	652.4	650.6	652.4	654.2	655.1
30°	609.9	611.6	610.8	611.6	610.8	612.5	613.5	615.2
32.5°	562.8	565.5	562.8	564.5	563.6	563.6	567.2	565.5
35°	506.5	507.5	508.4	508.4	506.5	507.5	509.2	509.2
37.5°	444.0	448.5	443.1	445.9	444.9	444.9	444.9	447.6
40°	378.8	379.6	377.9	377.9	377.9	377.0	380.6	379.6
42.5°	317.1	318.0	317.1	314.4	315.4	315.4	318.0	314.4
45°	257.4	259.1	258.2	258.2	256.5	256.5	257.4	255.5
47.5°	203.9	205.8	203.0	203.9	202.1	203.9	203.0	204.8
50°	155.0	156.8	155.9	156.8	156.8	155.0	157.6	154.0
52.5°	116.0	116.9	116.0	115.1	114.1	114.1	116.0	115.1
55°	82.5	81.5	81.5	81.5	82.5	82.5	81.5	80.6
57.5°	55.2	55.2	54.4	54.4	55.2	53.5	54.4	53.5
60°	35.4	35.4	35.4	35.4	34.4	35.4	35.4	35.4
62.5°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
65°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
67.5°	9.0	10.0	10.0	10.0	9.0	9.0	9.0	9.0
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)