

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: P252140

Luminaire Tested: **LE_6B10D010 EC6B10209730 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209730 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1262.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

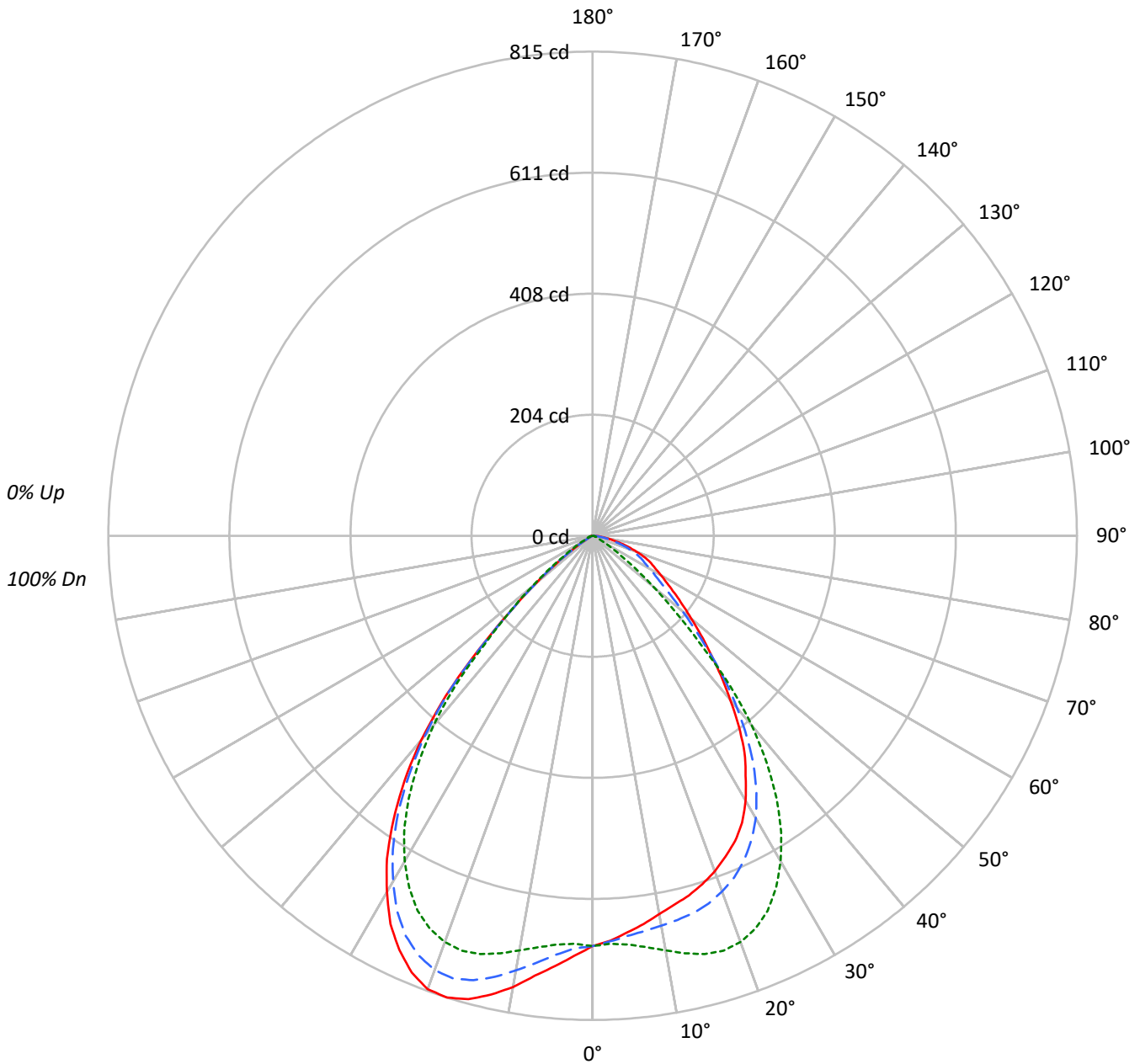
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45055	45055	45055
5°	43891	45227	47611
10°	42829	46936	51090
15°	42322	49238	54540
20°	41719	50516	56382
25°	40830	50145	55371
30°	38797	47656	52131
35°	35505	42968	46544
40°	30702	35480	38188
45°	25889	23269	24985
50°	21984	13479	12667
55°	19086	6461	4880
60°	17237	3014	1200
65°	16703	1729	401
70°	14993	1373	382
75°	12326	1008	151
80°	9167	526	0
85°	7935	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	5.3
10°-20°	203.3	16.1
20°-30°	310.7	24.6
30°-40°	324.9	25.7
40°-50°	210.8	16.7
50°-60°	83.7	6.6
60°-70°	39.7	3.1
70°-80°	18.9	1.5
80°-90°	3.8	0.3
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°	580.7	46.0
0°-40°	905.6	71.7
0°-60°	1200.1	95.1
0°-90°	1262.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	691	691	691	691	691	
5°	670	676	691	708	727	63
15°	627	657	729	774	808	177
25°	567	603	697	744	769	260
35°	446	473	540	571	584	276
45°	281	278	252	267	271	218
55°	168	143	57	44	43	152
65°	108	90	11	3	3	106
75°	49	40	4	1	1	53
85°	11	7	0	0	0	12
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°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6
2.5°	682.1	683.4	676.1	674.1	679.5	681.5	682.1	680.1	680.8	683.4	683.4
5°	670.2	671.5	664.9	663.0	668.2	669.5	671.5	670.9	672.9	676.9	676.1
7.5°	659.0	661.0	653.8	651.1	657.6	661.0	662.2	662.2	664.9	670.2	670.9
10°	646.5	649.1	642.5	641.1	648.4	651.8	652.4	653.8	657.6	664.9	666.2
12.5°	635.9	638.5	633.9	631.9	639.9	643.1	644.5	647.1	651.8	661.0	662.2
15°	626.6	628.6	623.4	622.0	630.0	633.9	634.5	638.5	644.5	655.0	657.0
17.5°	614.8	616.1	612.1	610.8	618.8	622.6	623.4	628.0	635.2	645.8	649.1
20°	600.9	602.2	598.2	596.9	604.9	609.5	610.1	614.1	622.6	633.9	637.2
22.5°	584.4	587.0	582.4	581.1	589.0	593.0	595.0	598.2	606.9	618.0	622.6
25°	567.2	567.2	563.9	563.2	570.5	575.1	574.5	579.1	587.6	598.9	602.9
27.5°	544.8	544.1	540.8	540.1	548.0	552.0	550.8	555.4	563.2	574.5	578.4
30°	515.0	516.4	511.8	510.4	517.0	523.6	523.0	527.6	535.5	546.1	548.8
32.5°	479.4	480.8	480.0	478.1	484.0	487.2	489.2	492.6	499.2	510.4	513.1
35°	445.8	443.8	441.1	441.1	447.0	452.4	450.4	454.2	460.9	472.1	472.8
37.5°	404.1	403.5	402.1	400.8	407.4	408.8	409.4	412.0	418.0	427.2	425.9
40°	360.5	361.2	360.5	357.9	361.9	367.1	366.5	367.8	373.1	379.6	377.8
42.5°	319.6	319.6	319.6	317.0	321.6	324.2	325.5	324.9	326.2	332.1	329.5
45°	280.6	281.2	280.6	280.0	280.6	282.0	280.6	280.0	280.0	282.0	278.0
47.5°	247.0	247.0	245.0	243.0	245.0	245.6	243.6	241.6	241.0	240.4	233.8
50°	216.6	215.9	215.2	212.0	214.0	214.6	212.0	210.6	208.0	204.8	196.8
52.5°	190.1	189.5	188.9	185.5	186.9	187.5	184.9	182.2	179.0	176.2	166.4
55°	167.8	167.0	167.0	165.1	163.8	165.1	162.4	160.5	155.9	152.5	142.6
57.5°	148.6	148.6	147.2	145.2	145.9	145.9	143.2	140.6	136.6	132.8	124.8
60°	132.1	132.1	132.1	130.1	130.1	130.1	128.8	126.1	122.9	118.9	110.9
62.5°	118.9	118.9	118.2	116.2	116.9	116.9	115.5	112.9	109.6	107.0	99.0
65°	108.2	108.2	108.2	106.2	106.2	107.0	105.6	103.0	100.4	97.1	89.8
67.5°	95.1	94.4	94.4	93.1	93.8	94.4	93.1	91.1	87.9	85.9	79.2
70°	78.6	79.2	79.9	77.9	78.6	78.6	77.9	75.9	74.0	72.0	66.0
72.5°	64.0	64.0	63.4	62.8	62.8	63.4	62.1	60.1	58.8	57.5	52.9
75°	48.9	48.2	48.9	47.5	47.5	47.5	46.2	45.5	44.9	42.9	39.6
77.5°	35.6	35.0	35.0	33.6	34.4	34.4	33.6	32.4	31.0	30.4	27.8
80°	24.4	24.4	24.4	23.8	23.8	23.1	23.1	22.5	21.1	20.5	19.1
82.5°	16.5	16.5	16.5	15.9	15.9	15.9	15.1	14.5	13.9	13.2	11.9
85°	10.6	10.6	10.6	9.9	9.9	9.9	9.2	9.2	8.6	7.9	6.6
87.5°	6.0	6.0	6.0	5.2	5.2	5.2	5.2	5.2	4.6	4.0	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°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6
2.5°	688.0	678.8	684.8	684.8	682.8	688.0	691.4	694.0	693.4	687.4	686.8
5°	682.8	674.9	681.5	682.1	680.1	687.4	692.0	695.2	696.0	690.6	691.4
7.5°	678.8	672.2	680.8	683.4	682.8	689.4	694.6	699.9	702.6	698.6	699.2
10°	676.9	671.5	680.8	684.8	685.4	692.6	700.6	707.9	711.1	708.5	710.5
12.5°	674.1	670.9	681.5	687.4	690.0	697.2	707.2	715.8	721.0	719.8	723.8
15°	671.5	668.9	681.5	690.0	693.4	699.9	711.1	723.8	729.6	729.0	734.2
17.5°	664.9	664.2	677.5	686.8	691.4	699.2	709.9	725.0	731.0	732.2	738.9
20°	654.4	654.4	668.9	678.8	684.1	691.4	704.5	719.1	726.4	727.6	734.9
22.5°	639.9	641.1	655.0	664.9	672.9	678.1	692.0	707.2	713.8	715.8	723.8
25°	620.8	622.0	635.2	645.1	653.8	659.6	672.9	686.8	694.6	696.6	702.6
27.5°	595.6	598.2	610.8	620.8	628.0	631.9	645.8	660.4	666.2	668.2	674.1
30°	566.5	567.2	579.8	588.4	595.6	598.9	610.8	626.0	630.6	632.6	641.1
32.5°	530.9	530.2	542.1	550.0	556.0	560.0	572.5	582.4	587.0	590.4	595.0
35°	488.0	487.2	495.9	505.1	509.8	511.1	523.6	534.2	536.9	539.5	545.4
37.5°	439.8	439.8	447.0	451.6	456.9	458.9	464.9	476.8	481.4	480.8	485.4
40°	388.9	386.2	391.6	396.2	397.5	398.1	404.1	413.4	416.6	416.6	420.0
42.5°	335.5	331.5	332.1	334.8	336.1	331.5	335.5	341.4	339.4	342.0	342.8
45°	278.6	272.8	270.1	264.1	265.5	260.9	258.1	259.5	258.9	252.2	253.5
47.5°	232.4	221.9	217.2	208.6	206.6	201.4	198.1	192.1	186.9	186.9	183.6
50°	193.5	182.9	173.6	163.8	160.5	155.9	148.6	140.6	136.6	132.8	129.4
52.5°	162.4	151.2	140.0	129.4	124.8	118.9	109.0	101.0	93.8	89.8	85.9
55°	137.4	124.8	112.9	101.8	95.8	89.8	79.9	70.6	62.1	56.8	53.5
57.5°	118.2	106.2	93.8	81.9	76.6	70.0	59.4	49.5	41.6	35.6	32.4
60°	104.4	92.5	81.2	68.6	63.4	56.8	45.5	36.4	28.4	23.1	19.1
62.5°	92.5	81.9	70.0	58.8	53.5	46.9	36.4	27.1	19.8	14.5	11.2
65°	83.9	73.2	63.4	52.1	47.5	41.0	31.0	22.5	15.9	11.2	7.9
67.5°	74.0	64.8	54.8	45.5	41.0	35.6	26.4	19.1	13.2	9.2	6.6
70°	62.1	54.8	46.2	37.6	34.4	29.8	21.8	15.9	10.6	7.2	5.2
72.5°	49.5	43.6	37.0	30.4	27.8	23.1	17.9	12.5	7.9	5.2	4.0
75°	37.6	33.0	27.8	23.1	20.5	17.9	13.2	9.2	6.0	4.0	2.6
77.5°	25.8	23.8	19.8	15.9	14.5	12.5	8.6	6.0	4.0	2.6	1.4
80°	17.9	15.9	13.2	10.6	9.2	7.9	5.2	4.0	2.0	1.4	0.6
82.5°	11.2	9.2	7.9	6.6	6.0	4.6	3.2	2.0	1.4	0.6	0.6
85°	6.0	5.2	4.6	3.2	3.2	2.6	2.0	1.4	0.6	0.0	0.0
87.5°	3.2	2.6	2.0	1.4	1.4	0.6	0.6	0.6	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°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6
2.5°	694.6	694.6	694.0	701.9	692.6	701.9	697.2	701.9	695.2	694.6	695.2
5°	699.9	701.9	702.6	709.9	701.2	712.5	708.5	712.5	707.9	709.1	711.1
7.5°	710.5	713.8	713.1	722.4	713.8	726.4	723.8	729.6	725.0	726.4	729.0
10°	722.4	726.4	727.0	736.2	728.4	743.5	740.2	746.9	742.9	744.9	748.1
12.5°	736.2	740.9	741.5	752.1	743.5	759.4	757.4	764.0	760.6	762.6	766.6
15°	746.9	753.4	754.8	765.2	756.0	772.6	771.2	779.9	774.5	777.9	781.1
17.5°	752.1	758.0	760.6	770.6	762.6	779.1	777.9	785.1	781.1	784.5	788.4
20°	748.8	756.0	758.0	768.0	760.0	776.5	774.5	781.8	777.9	780.5	784.5
22.5°	736.9	744.1	746.9	756.0	748.8	764.0	763.4	769.9	764.6	768.0	771.2
25°	715.8	723.8	725.0	733.6	725.6	741.5	740.2	747.5	743.5	745.5	750.1
27.5°	685.4	694.6	696.6	703.9	698.0	711.1	711.1	717.1	712.5	712.5	717.1
30°	649.1	658.4	659.6	665.6	660.4	672.2	672.9	678.8	671.5	675.5	676.1
32.5°	604.9	610.8	614.8	620.0	612.1	627.2	625.4	630.0	626.0	626.0	629.2
35°	551.4	558.6	560.6	567.2	560.6	572.5	572.5	575.1	571.1	571.1	576.5
37.5°	493.2	498.5	499.2	505.8	500.5	510.4	509.8	511.8	507.8	510.4	510.4
40°	425.2	429.2	430.5	433.9	433.1	440.4	439.8	441.1	439.1	439.8	441.1
42.5°	346.0	351.2	353.9	356.6	352.6	362.5	360.5	362.5	361.9	362.5	364.5
45°	254.9	258.9	260.9	261.5	260.1	266.1	270.8	266.8	267.4	266.1	268.8
47.5°	184.2	184.9	183.6	187.5	184.2	186.9	188.2	188.9	184.9	184.2	186.9
50°	126.1	129.4	124.8	126.8	126.1	128.8	127.5	128.1	124.1	126.1	124.8
52.5°	83.9	83.2	81.9	82.5	81.2	81.2	81.2	82.5	79.9	78.6	77.2
55°	50.9	49.5	46.9	46.2	46.2	46.9	45.5	44.2	44.2	43.6	43.6
57.5°	29.8	27.8	26.4	25.8	24.4	23.8	23.1	23.1	21.8	21.8	21.8
60°	16.5	14.5	13.2	11.9	11.9	11.2	10.6	9.9	9.9	9.9	9.2
62.5°	8.6	7.2	6.0	5.2	5.2	4.6	4.0	4.0	4.0	4.0	3.2
65°	6.0	4.6	4.0	3.2	3.2	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	4.6	4.0	3.2	2.6	2.6	2.6	2.0	2.0	2.0	2.0	2.0
70°	4.0	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6
2.5°	701.2	700.6	701.2	702.6	699.9	707.9	703.9	707.9
5°	716.5	717.1	717.8	719.8	716.5	726.4	721.0	727.0
7.5°	736.2	736.9	737.6	739.5	737.6	747.5	741.5	746.9
10°	756.8	758.0	758.0	761.4	759.4	768.6	764.6	771.2
12.5°	775.9	777.2	778.5	780.5	779.1	789.1	785.8	791.0
15°	791.0	793.8	794.4	797.0	795.6	806.2	802.2	807.5
17.5°	798.4	801.0	801.0	804.2	803.0	814.1	808.9	814.9
20°	794.4	796.4	797.0	800.2	799.0	810.2	804.9	812.1
22.5°	781.8	782.5	783.1	786.4	785.8	795.6	791.0	795.6
25°	758.8	760.6	760.0	762.6	762.6	770.6	765.2	769.2
27.5°	725.6	727.6	727.6	731.0	728.4	736.2	731.0	736.9
30°	685.4	687.4	686.1	688.8	686.1	694.0	690.0	692.0
32.5°	637.2	637.2	637.9	638.5	637.2	644.5	640.5	644.5
35°	579.8	581.1	581.8	582.4	581.1	586.4	581.8	584.4
37.5°	515.0	518.4	517.6	518.4	516.4	523.0	519.0	520.4
40°	445.8	445.8	445.0	446.4	444.4	449.6	447.0	448.4
42.5°	365.1	367.1	364.5	367.8	362.5	369.8	367.1	365.1
45°	274.0	271.4	270.8	271.4	269.4	270.1	272.0	270.8
47.5°	186.9	186.9	185.5	183.6	186.2	186.9	184.2	184.2
50°	125.5	125.5	124.1	123.5	124.8	124.1	122.9	124.8
52.5°	79.9	77.2	77.2	78.6	77.2	75.9	77.9	76.6
55°	43.6	42.2	42.2	43.6	42.2	42.2	41.6	42.9
57.5°	21.1	21.8	21.1	21.1	21.1	21.1	20.5	21.1
60°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
62.5°	4.0	4.0	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	2.0	2.0	2.0	2.0	2.0	2.6	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.4	1.4	1.4	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)