

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: P252256

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252256
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 EC6B10209727 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1210.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

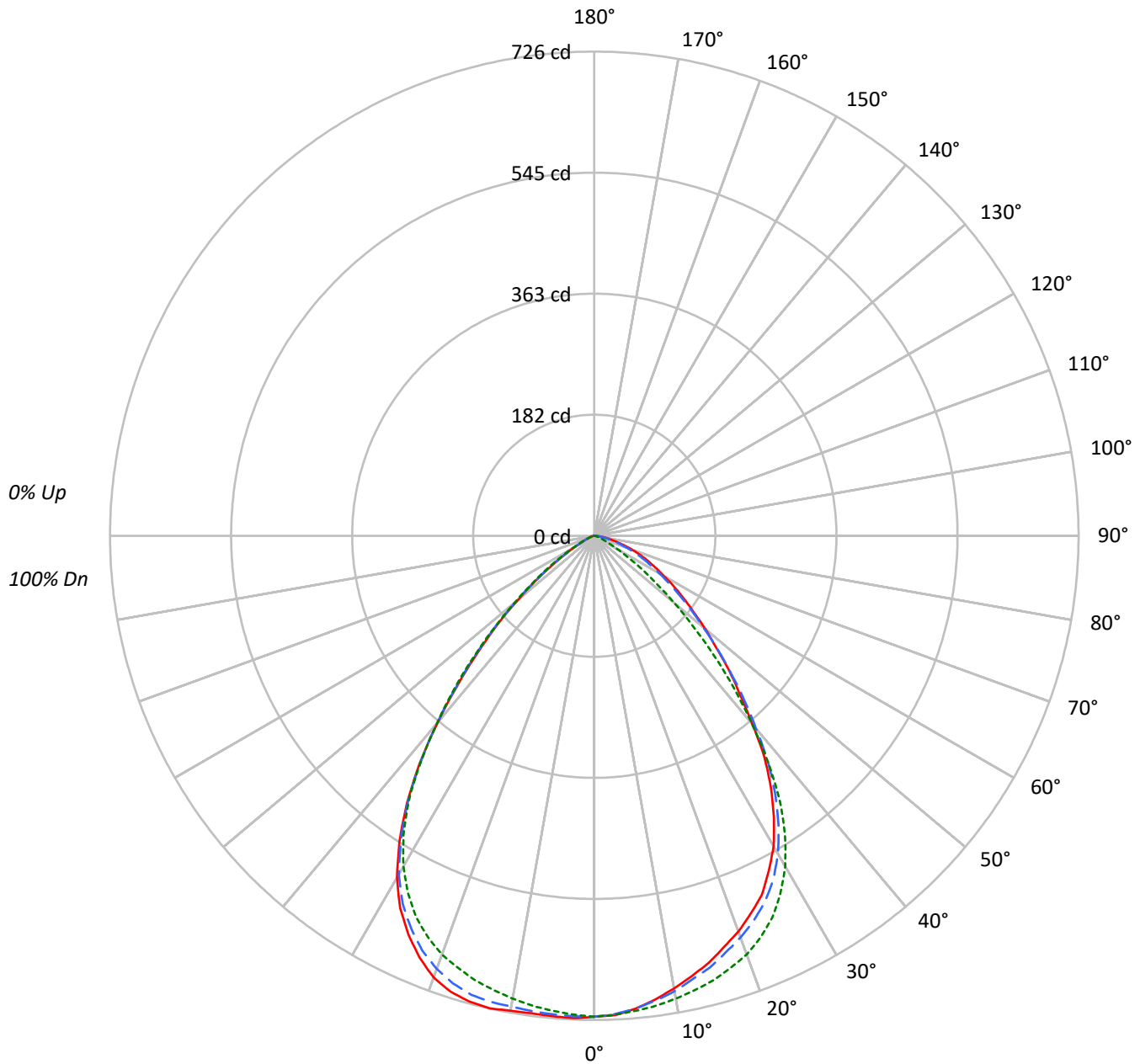
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	74	67	62	83	73	66	61	71	65	61		70	64	60		68
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54
9	65	54	47	42	64	53	46	42	52	46	42		51	46	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47052	47052	47052
5°	46603	46832	47349
10°	45644	46678	47897
15°	44774	46597	48833
20°	43844	46385	48919
25°	42759	45459	47467
30°	40492	43106	44560
35°	36764	38635	38986
40°	31384	31239	31085
45°	26369	23389	22660
50°	22015	15823	15032
55°	18529	9714	8815
60°	15684	5115	4436
65°	13585	2686	2146
70°	11292	1679	1164
75°	8344	1109	655
80°	6537	676	338
85°	5240	674	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	5.6
10°-20°	194.6	16.1
20°-30°	287.4	23.8
30°-40°	296.2	24.5
40°-50°	204.6	16.9
50°-60°	100.8	8.3
60°-70°	40.9	3.4
70°-80°	14.6	1.2
80°-90°	3.0	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°	550.0	45.5
0°-40°	846.2	69.9
0°-60°	1151.6	95.2
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	721	721	721	721	721	
5°	712	712	715	720	723	67
15°	663	670	690	712	723	187
25°	594	605	632	650	659	272
35°	462	473	485	488	490	286
45°	286	288	254	250	246	221
55°	163	157	85	80	78	147
65°	88	79	17	14	14	87
75°	33	28	4	3	3	37
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°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2
2.5°	719.5	716.9	718.6	715.1	719.5	715.1	716.0	716.9	716.0	716.9	717.8
5°	711.6	709.0	711.6	707.2	711.6	709.0	709.0	709.9	709.9	710.8	711.6
7.5°	701.2	698.6	701.2	696.9	702.1	699.5	699.5	701.2	700.4	701.2	703.0
10°	689.0	685.5	688.1	685.5	690.8	687.2	689.0	689.0	689.0	691.6	693.4
12.5°	676.0	672.5	676.0	671.6	676.8	674.2	675.1	677.6	678.5	680.2	681.1
15°	662.9	658.5	660.2	657.6	662.9	660.2	661.1	664.6	664.6	667.2	669.9
17.5°	646.4	642.9	646.4	642.9	647.2	645.5	647.2	649.8	649.8	652.4	655.0
20°	631.5	628.0	630.6	628.0	633.2	630.6	631.5	635.0	635.9	638.5	641.1
22.5°	613.2	610.6	612.4	609.8	615.0	613.2	614.1	617.6	618.5	620.2	624.5
25°	594.0	588.9	591.5	589.8	594.9	592.4	594.0	597.5	599.2	601.9	605.4
27.5°	566.1	563.6	565.4	565.4	569.6	567.0	567.9	571.4	574.0	576.6	581.0
30°	537.5	533.1	534.9	535.8	539.1	537.5	539.1	542.6	543.5	547.0	550.5
32.5°	500.9	499.1	502.6	500.9	502.6	502.6	503.5	506.1	507.9	509.6	513.9
35°	461.6	458.1	461.6	459.9	464.2	461.6	464.2	466.9	466.9	470.4	473.0
37.5°	419.0	414.6	416.4	416.4	418.1	417.2	417.2	421.6	422.5	425.1	427.8
40°	368.5	366.8	370.2	369.4	370.2	370.2	371.1	373.6	375.4	376.2	377.1
42.5°	323.1	324.0	324.9	324.9	324.9	324.9	324.9	328.4	327.5	330.1	331.0
45°	285.8	282.2	284.0	283.1	285.8	283.1	285.8	288.4	286.6	289.2	287.5
47.5°	247.4	247.4	247.4	246.5	248.2	247.4	249.1	250.0	250.0	250.0	249.1
50°	216.9	214.2	215.1	215.1	216.0	215.1	216.9	217.8	217.8	216.0	212.5
52.5°	187.2	186.4	186.4	188.1	188.1	187.2	187.2	187.2	187.2	184.6	182.9
55°	162.9	161.1	162.0	162.0	162.0	162.0	162.9	162.0	162.0	159.4	156.8
57.5°	141.1	139.4	139.4	139.4	140.2	139.4	139.4	139.4	138.5	135.9	132.4
60°	120.2	119.4	120.2	120.2	121.1	120.2	120.2	120.2	118.5	115.9	112.4
62.5°	102.8	102.8	102.8	103.6	103.6	102.8	102.8	101.9	101.0	97.5	94.1
65°	88.0	87.1	88.0	88.0	88.9	88.9	88.0	87.1	86.2	82.8	79.2
67.5°	73.1	72.2	73.1	73.1	74.0	73.1	73.1	73.1	70.5	68.9	65.4
70°	59.2	58.4	58.4	58.4	59.2	57.5	58.4	58.4	56.6	54.0	50.5
72.5°	45.2	45.2	45.2	45.2	45.2	45.2	44.4	44.4	42.6	40.1	38.4
75°	33.1	33.1	34.0	34.0	33.1	33.1	33.1	32.2	31.4	29.6	27.9
77.5°	24.4	24.4	24.4	24.4	23.5	23.5	23.5	22.6	21.8	20.9	19.1
80°	17.4	17.4	17.4	16.5	17.4	16.5	16.5	16.5	14.8	13.9	13.1
82.5°	12.2	11.4	11.4	11.4	11.4	11.4	11.4	10.5	10.5	9.6	8.8
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.1	5.2	5.2
87.5°	3.5	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5	3.5	2.6
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°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2
2.5°	717.8	717.8	719.5	716.9	721.2	718.6	717.8	722.1	719.5	718.6	720.4
5°	711.6	712.5	713.4	711.6	716.0	713.4	713.4	717.8	716.0	715.1	717.8
7.5°	703.9	704.6	706.4	705.5	709.0	707.2	708.1	712.5	710.8	710.8	713.4
10°	694.2	696.0	697.8	697.8	702.1	700.4	700.4	705.5	703.9	704.6	708.1
12.5°	682.9	685.5	688.1	689.0	693.4	690.8	691.6	697.8	696.9	697.8	701.2
15°	670.8	674.2	676.8	676.8	682.0	679.4	682.0	688.1	686.4	689.9	694.2
17.5°	656.8	660.2	663.8	664.6	669.9	668.1	671.6	677.6	677.6	679.4	684.6
20°	643.8	648.1	649.8	652.4	657.6	656.8	658.5	665.5	665.5	668.1	673.4
22.5°	626.2	630.6	634.1	636.8	641.1	641.1	643.8	649.8	649.8	651.5	656.8
25°	607.1	612.4	615.0	617.6	621.9	621.1	623.6	628.9	629.8	631.5	636.8
27.5°	582.8	587.1	590.6	592.4	598.4	594.9	597.5	603.6	602.8	604.5	608.9
30°	552.2	556.6	560.1	560.1	565.4	565.4	567.9	570.5	570.5	572.2	575.8
32.5°	516.5	521.8	521.8	524.4	527.9	524.4	527.9	531.4	529.6	532.2	534.9
35°	475.6	478.2	479.1	479.1	481.8	480.9	480.0	482.6	480.9	485.1	487.8
37.5°	426.0	429.4	427.8	429.4	428.5	426.0	426.0	430.2	426.9	427.8	430.2
40°	378.0	378.0	377.1	372.8	373.6	371.1	370.2	371.1	367.6	366.8	370.2
42.5°	328.4	327.5	324.9	318.8	319.6	315.4	311.9	311.9	310.1	309.2	310.1
45°	284.0	281.4	277.0	270.0	268.2	264.8	257.9	256.1	253.5	253.5	254.4
47.5°	243.0	239.5	232.6	224.8	220.4	216.0	209.0	206.5	202.1	200.4	202.1
50°	209.0	203.0	194.2	182.9	178.6	173.4	166.4	162.0	157.6	155.9	155.0
52.5°	177.8	169.0	160.2	146.4	142.9	137.6	128.0	123.8	119.4	115.9	115.9
55°	150.8	142.9	130.6	117.6	112.4	107.1	97.5	91.5	87.1	85.4	83.6
57.5°	126.2	117.6	106.2	92.4	87.1	81.9	72.2	66.2	61.9	59.2	57.5
60°	106.2	96.6	85.4	73.1	67.1	61.9	52.2	46.1	41.8	39.2	37.5
62.5°	87.1	79.2	68.0	56.6	51.4	46.1	38.4	32.2	27.9	26.1	23.5
65°	73.1	65.4	54.9	45.2	41.0	35.8	28.8	23.5	20.0	17.4	15.6
67.5°	59.2	53.1	44.4	35.8	31.4	27.9	21.8	17.4	13.9	12.2	11.4
70°	47.0	41.0	34.0	27.0	24.4	20.9	16.5	12.2	10.5	8.8	7.9
72.5°	34.9	30.5	25.2	20.0	17.4	15.6	11.4	9.6	7.0	6.1	5.2
75°	25.2	21.8	18.2	13.9	12.2	11.4	8.8	6.1	5.2	4.4	3.5
77.5°	17.4	15.6	12.2	9.6	8.8	7.9	6.1	4.4	3.5	2.6	2.6
80°	11.4	9.6	7.9	6.1	6.1	5.2	3.5	2.6	2.6	1.8	1.8
82.5°	7.0	6.1	5.2	4.4	3.5	3.5	2.6	1.8	1.8	0.9	0.9
85°	4.4	3.5	2.6	2.6	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°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2
2.5°	720.4	720.4	722.1	719.5	721.2	721.2	723.0	719.5	721.2	722.1	723.9
5°	716.9	717.8	719.5	718.6	719.5	719.5	721.2	716.9	720.4	720.4	723.0
7.5°	713.4	713.4	715.1	714.2	716.0	716.9	718.6	715.1	718.6	718.6	721.2
10°	709.0	709.0	711.6	710.8	713.4	714.2	716.9	713.4	716.9	717.8	720.4
12.5°	703.0	703.9	706.4	706.4	709.0	710.8	713.4	711.6	716.0	716.9	720.4
15°	696.0	697.8	701.2	700.4	703.0	705.5	709.0	706.4	712.5	714.2	717.8
17.5°	687.2	689.0	691.6	691.6	694.2	696.0	700.4	698.6	703.9	704.6	709.0
20°	674.2	676.8	680.2	679.4	682.0	683.8	687.2	685.5	690.8	692.5	696.9
22.5°	658.5	660.2	662.9	662.9	665.5	667.2	670.8	668.1	673.4	674.2	677.6
25°	637.6	639.4	641.1	642.0	644.6	645.5	647.2	645.5	649.8	650.6	655.0
27.5°	610.6	611.5	614.1	614.1	615.9	616.8	619.4	615.9	621.9	621.9	624.5
30°	578.4	577.5	581.0	579.2	581.0	581.0	583.6	581.9	586.2	584.5	587.1
32.5°	535.8	537.5	537.5	535.8	539.1	538.4	538.4	536.6	539.1	540.0	541.8
35°	486.0	488.6	488.6	489.5	490.4	487.8	488.6	483.4	487.8	488.6	489.5
37.5°	432.0	429.4	431.1	428.5	432.9	427.8	427.8	424.2	427.8	427.8	428.5
40°	370.2	369.4	371.1	369.4	368.5	367.6	365.9	363.2	366.8	365.0	367.6
42.5°	311.9	311.0	311.0	309.2	308.4	308.4	306.6	304.9	304.0	304.0	308.4
45°	251.8	253.5	251.8	250.9	252.6	250.9	251.8	248.2	250.0	248.2	250.0
47.5°	201.2	202.1	200.4	198.6	201.2	198.6	198.6	196.0	199.5	199.5	197.8
50°	155.9	155.0	153.2	155.0	154.1	154.1	154.1	151.6	153.2	150.8	152.4
52.5°	115.0	114.1	114.1	113.2	114.1	113.2	113.2	112.4	112.4	111.5	112.4
55°	83.6	82.8	81.0	81.0	81.0	81.9	81.0	80.1	80.1	79.2	80.1
57.5°	56.6	54.9	54.9	54.9	54.9	54.0	54.0	53.1	54.0	53.1	54.0
60°	36.6	36.6	34.9	34.9	34.9	34.9	34.9	34.0	34.9	34.9	34.9
62.5°	22.6	22.6	21.8	20.9	21.8	20.9	20.9	20.9	21.8	20.9	21.8
65°	14.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	10.5	9.6	9.6	9.6	9.6	9.6	9.6	8.8	9.6	9.6	9.6
70°	7.0	7.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2
2.5°	721.2	722.1	720.4	721.2	719.5	721.2	722.1	723.9
5°	719.5	720.4	718.6	720.4	718.6	720.4	721.2	723.0
7.5°	717.8	719.5	717.8	719.5	717.8	719.5	720.4	722.1
10°	717.8	720.4	718.6	721.2	718.6	720.4	722.1	723.0
12.5°	717.8	720.4	719.5	721.2	720.4	722.1	723.9	725.6
15°	716.0	718.6	716.9	719.5	718.6	719.5	723.0	723.0
17.5°	706.4	709.0	709.0	710.8	710.8	713.4	715.1	716.9
20°	694.2	696.9	696.0	698.6	698.6	701.2	703.0	704.6
22.5°	676.0	679.4	678.5	681.1	680.2	682.0	685.5	684.6
25°	652.4	656.8	655.9	657.6	656.8	656.8	658.5	659.4
27.5°	623.6	626.2	625.4	627.1	625.4	627.1	628.9	629.8
30°	586.2	588.0	587.1	588.0	587.1	588.9	589.8	591.5
32.5°	540.9	543.5	540.9	542.6	541.8	541.8	545.2	543.5
35°	486.9	487.8	488.6	488.6	486.9	487.8	489.5	489.5
37.5°	426.9	431.1	426.0	428.5	427.8	427.8	427.8	430.2
40°	364.1	365.0	363.2	363.2	363.2	362.4	365.9	365.0
42.5°	304.9	305.8	304.9	302.2	303.1	303.1	305.8	302.2
45°	247.4	249.1	248.2	248.2	246.5	246.5	247.4	245.6
47.5°	196.0	197.8	195.1	196.0	194.2	196.0	195.1	196.9
50°	149.0	150.8	149.9	150.8	150.8	149.0	151.6	148.1
52.5°	111.5	112.4	111.5	110.6	109.8	109.8	111.5	110.6
55°	79.2	78.4	78.4	78.4	79.2	79.2	78.4	77.5
57.5°	53.1	53.1	52.2	52.2	53.1	51.4	52.2	51.4
60°	34.0	34.0	34.0	34.0	33.1	34.0	34.0	34.0
62.5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
65°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	8.8	9.6	9.6	9.6	8.8	8.8	8.8	8.8
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)