

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: P252441

Luminaire Tested: **LE_6B10D010 EC6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1128.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

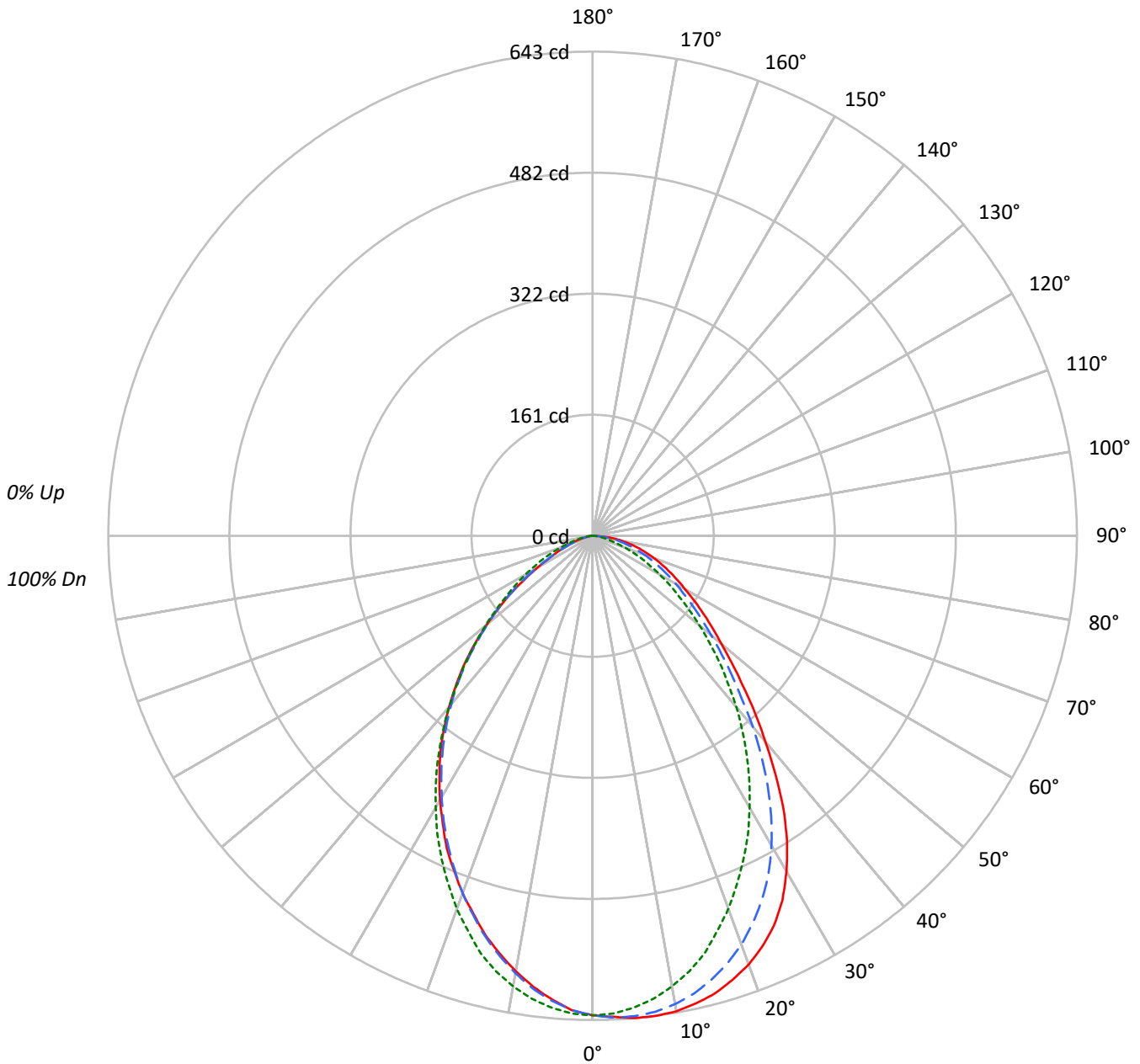
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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			100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41545	41545	41545
5°	42110	41187	40486
10°	42478	40252	38900
15°	42477	38769	37094
20°	42066	36595	35061
25°	41067	34121	32976
30°	38782	31376	30518
35°	35155	28449	28106
40°	30353	25303	25226
45°	26028	22033	22190
50°	22624	18858	18584
55°	20315	15901	14889
60°	18463	13387	10960
65°	17351	11053	8043
70°	16519	8603	5913
75°	15830	6251	4008
80°	14953	4321	2668
85°	13324	2620	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	5.3
10°-20°	163.1	14.5
20°-30°	226.5	20.1
30°-40°	234.6	20.8
40°-50°	192.8	17.1
50°-60°	132.5	11.7
60°-70°	76.2	6.7
70°-80°	35.0	3.1
80°-90°	8.5	0.8
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°	449.2	39.8
0°-40°	683.8	60.6
0°-60°	1009.0	89.4
0°-90°	1128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	637	637	637	637	637	
5°	643	640	629	620	618	61
15°	629	610	574	551	549	177
25°	570	532	474	454	458	261
35°	441	405	357	347	353	274
45°	282	261	239	236	240	220
55°	179	162	140	132	131	161
65°	112	98	72	50	52	112
75°	63	50	25	16	16	66
85°	18	12	4	2	2	20
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°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	639.4	644.8	641.2	640.4	642.1	642.1	642.1	639.4	641.2	638.5	640.4
5°	643.0	647.4	643.9	642.1	643.9	644.8	642.1	640.4	643.0	639.4	640.4
7.5°	643.0	647.4	643.9	643.0	643.9	643.9	643.0	639.4	641.2	637.6	637.6
10°	641.2	644.8	641.2	639.4	640.4	639.4	639.4	635.0	635.9	631.5	631.5
12.5°	635.9	640.4	635.9	634.1	634.1	634.1	631.5	628.0	628.9	623.5	622.6
15°	628.9	632.4	628.0	626.1	626.1	625.2	623.5	618.2	618.2	612.9	610.2
17.5°	618.2	621.8	618.2	615.5	614.6	612.9	611.1	605.9	604.0	597.9	595.2
20°	605.9	608.5	605.0	602.2	600.5	598.8	595.2	589.9	588.1	582.0	577.5
22.5°	589.9	593.5	588.1	585.5	583.8	581.1	577.5	572.2	569.6	561.6	556.2
25°	570.5	572.2	567.8	565.1	561.6	559.9	557.1	550.1	547.5	538.6	532.4
27.5°	545.6	547.5	542.1	540.4	536.0	534.2	530.6	524.5	520.9	512.1	505.9
30°	514.8	516.5	513.0	510.2	506.8	503.2	500.6	494.4	489.1	480.2	474.9
32.5°	480.2	482.9	479.4	475.9	469.6	470.5	466.1	459.9	455.5	447.5	441.4
35°	441.4	443.1	438.6	437.8	434.2	430.8	426.2	421.9	419.2	410.4	405.1
37.5°	398.0	402.4	398.0	394.5	392.6	390.0	387.4	381.1	379.4	374.1	367.0
40°	356.4	359.1	356.4	352.9	350.2	350.2	346.8	343.1	338.8	333.4	330.8
42.5°	319.2	317.5	316.6	314.9	311.4	310.4	309.5	305.1	302.5	297.1	292.8
45°	282.1	283.0	281.2	280.4	277.8	276.0	274.1	270.6	269.8	264.5	260.9
47.5°	251.1	250.2	248.5	248.5	246.8	245.0	243.2	240.5	239.6	235.2	231.8
50°	222.9	223.8	222.9	222.0	219.4	218.5	216.6	214.9	213.1	208.8	205.1
52.5°	199.9	199.0	198.1	198.1	195.5	194.6	192.8	191.0	189.2	184.9	182.2
55°	178.6	178.6	177.8	176.9	174.2	173.4	172.5	170.8	168.0	164.5	161.9
57.5°	159.2	159.2	158.2	157.4	155.6	155.6	153.9	152.1	150.4	146.9	143.2
60°	141.5	142.4	141.5	140.6	138.9	138.9	138.0	135.4	134.4	130.0	127.4
62.5°	126.5	126.5	126.5	125.6	124.8	122.9	122.9	120.2	118.5	115.9	112.4
65°	112.4	112.4	112.4	111.4	109.6	108.8	107.9	106.1	104.4	101.8	98.1
67.5°	99.0	99.0	99.0	98.1	96.4	95.5	94.6	93.8	91.1	88.5	84.9
70°	86.6	86.6	85.8	84.9	84.0	83.1	82.2	80.5	78.8	75.1	72.5
72.5°	74.2	74.2	74.2	72.5	71.6	71.6	69.9	69.0	67.2	63.6	61.0
75°	62.8	61.9	61.9	61.0	60.1	59.2	58.4	57.5	54.9	53.1	49.5
77.5°	51.2	51.2	50.4	49.5	49.5	48.6	47.8	46.0	45.1	42.5	39.8
80°	39.8	39.8	39.8	39.8	38.9	38.0	38.0	36.2	35.4	32.8	31.0
82.5°	30.1	29.1	29.1	29.1	28.2	27.4	27.4	26.5	25.6	23.9	22.1
85°	17.8	16.8	16.8	16.8	15.9	15.9	15.0	15.0	14.1	12.4	12.4
87.5°	5.2	5.2	6.2	6.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4
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°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	638.5	641.2	637.6	636.8	640.4	638.5	637.6	635.9	636.8	635.0	632.4
5°	637.6	641.2	636.8	634.1	638.5	635.9	634.1	632.4	632.4	628.9	627.0
7.5°	635.0	636.8	632.4	629.8	632.4	629.8	628.0	625.2	624.4	620.0	617.4
10°	628.0	629.8	624.4	620.9	623.5	620.0	617.4	614.6	612.9	607.6	604.0
12.5°	618.2	619.1	612.9	608.5	610.2	607.6	603.1	599.6	597.9	592.5	588.1
15°	605.0	605.9	598.8	592.5	594.4	590.8	585.5	582.0	579.2	574.0	567.8
17.5°	589.0	588.1	580.1	574.0	574.9	570.5	565.1	559.9	556.2	550.1	545.6
20°	571.4	568.6	559.9	552.8	553.6	548.4	542.1	536.9	532.4	527.1	520.9
22.5°	549.2	545.6	537.8	528.9	529.8	525.4	516.5	512.1	507.6	500.6	495.2
25°	525.4	520.0	512.1	503.2	503.2	497.9	490.9	485.5	481.1	474.0	467.9
27.5°	497.0	494.4	483.8	476.8	475.9	470.5	464.4	458.1	452.9	446.6	440.5
30°	466.1	461.6	453.8	445.8	444.0	439.5	433.4	426.2	422.8	416.5	411.2
32.5°	433.4	429.0	420.1	412.1	411.2	407.8	402.4	395.4	391.8	387.4	383.9
35°	396.2	394.5	385.6	379.4	379.4	375.9	370.6	364.4	361.8	357.2	352.9
37.5°	360.9	358.2	350.2	344.9	344.9	340.5	335.2	332.5	329.9	326.4	323.8
40°	323.8	321.9	315.8	310.4	311.4	307.8	304.2	300.8	298.9	297.1	294.5
42.5°	289.2	287.4	283.0	278.6	278.6	276.0	272.4	269.8	268.0	265.4	264.5
45°	258.2	255.6	252.0	247.6	247.6	245.0	243.2	241.5	240.5	238.8	236.1
47.5°	228.1	226.4	222.9	218.5	218.5	218.5	214.9	212.2	212.2	210.5	209.6
50°	202.5	199.9	197.2	193.8	193.8	191.9	189.2	186.6	186.6	185.8	184.0
52.5°	178.6	176.9	173.4	169.8	169.8	168.0	165.4	164.5	163.6	161.0	160.1
55°	158.2	156.5	153.9	149.5	148.6	147.8	145.0	143.2	142.4	139.8	139.8
57.5°	139.8	138.0	133.5	130.9	130.0	128.2	125.6	123.9	122.9	121.1	119.4
60°	123.9	121.1	117.6	114.1	113.2	111.4	108.8	107.0	106.1	102.6	100.9
62.5°	108.8	106.1	102.6	99.0	98.1	96.4	92.9	91.1	89.4	85.8	84.0
65°	94.6	92.0	88.5	84.9	83.1	82.2	78.8	76.0	74.2	71.6	68.1
67.5°	81.4	78.8	75.1	70.8	70.8	68.1	65.5	62.8	60.1	57.5	54.9
70°	69.0	66.4	62.8	59.2	58.4	56.6	54.0	50.4	48.6	45.1	42.5
72.5°	57.5	54.9	51.2	47.8	46.9	45.1	42.5	38.9	36.2	33.6	31.0
75°	46.9	44.2	40.6	38.0	37.1	35.4	32.8	29.1	26.5	24.8	22.1
77.5°	37.1	34.5	31.9	29.1	28.2	26.5	23.9	22.1	19.5	17.8	15.0
80°	28.2	26.5	23.9	22.1	21.2	19.5	17.8	15.0	13.2	11.5	10.6
82.5°	20.4	18.6	16.8	14.1	14.1	12.4	11.5	9.8	8.0	7.1	6.2
85°	11.5	9.8	8.9	8.0	7.1	7.1	6.2	5.2	4.4	3.5	3.5
87.5°	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	632.4	633.2	631.5	633.2	631.5	632.4	630.6	632.4	630.6	632.4	628.9
5°	626.1	626.1	623.5	625.2	623.5	624.4	620.9	621.8	620.0	621.8	618.2
7.5°	615.5	616.5	612.0	613.8	611.1	611.1	608.5	609.4	606.8	607.6	605.0
10°	603.1	602.2	597.9	599.6	596.1	596.1	593.5	593.5	589.9	590.8	587.2
12.5°	585.5	584.6	579.2	581.1	577.5	577.5	574.9	574.9	571.4	573.1	569.6
15°	565.1	564.2	559.0	559.9	556.2	556.2	552.8	553.6	551.0	552.8	549.2
17.5°	542.1	541.2	536.0	536.9	532.4	533.2	530.6	529.8	528.0	528.9	526.2
20°	518.2	516.5	511.2	512.1	510.2	507.6	505.9	506.8	505.0	506.8	504.1
22.5°	493.5	490.0	485.5	485.5	483.8	483.8	481.1	482.9	479.4	482.0	480.2
25°	465.2	462.5	459.0	460.8	457.2	457.2	454.6	455.5	453.8	455.5	453.8
27.5°	437.8	436.0	430.8	432.5	429.9	430.8	428.0	429.0	428.0	429.9	428.0
30°	408.6	407.8	404.1	404.1	403.2	402.4	401.5	401.5	400.6	403.2	401.5
32.5°	381.1	378.5	375.0	377.6	373.2	375.9	374.1	375.9	374.1	375.9	375.0
35°	352.9	352.0	347.6	348.5	347.6	347.6	346.8	346.8	346.8	349.4	349.4
37.5°	322.9	321.9	319.2	320.1	318.4	317.5	317.5	319.2	319.2	321.0	321.0
40°	293.6	294.5	291.9	291.9	291.0	291.0	291.0	292.8	291.9	293.6	292.8
42.5°	264.5	264.5	261.8	262.6	261.8	262.6	262.6	264.5	264.5	265.4	264.5
45°	237.0	237.0	236.1	237.0	235.2	236.1	235.2	237.0	236.1	237.0	237.0
47.5°	209.6	209.6	209.6	208.8	208.8	208.8	208.8	208.8	207.9	209.6	208.8
50°	184.0	184.9	184.0	184.0	183.1	184.0	183.1	183.1	181.2	182.2	182.2
52.5°	161.0	161.0	159.2	159.2	159.2	158.2	158.2	158.2	157.4	157.4	155.6
55°	138.9	138.9	137.1	137.1	136.2	135.4	134.4	134.4	131.8	131.8	129.1
57.5°	118.5	117.6	115.0	115.0	113.2	112.4	111.4	110.5	108.8	107.0	106.1
60°	100.0	98.1	96.4	95.5	93.8	92.0	90.2	88.5	86.6	85.8	84.9
62.5°	82.2	79.6	77.9	77.0	75.1	72.5	70.8	69.0	67.2	66.4	64.6
65°	66.4	63.6	61.0	60.1	58.4	56.6	54.0	52.1	50.4	49.5	49.5
67.5°	52.1	49.5	46.0	46.0	44.2	42.5	40.6	38.9	38.0	38.9	38.9
70°	38.9	37.1	34.5	33.6	31.9	30.1	29.1	29.1	29.1	30.1	29.1
72.5°	29.1	26.5	24.8	23.9	23.0	22.1	22.1	22.1	21.2	22.1	22.1
75°	20.4	18.6	16.8	16.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	14.1	12.4	11.5	11.5	11.5	10.6	10.6	10.6	10.6	10.6	10.6
80°	8.9	8.9	8.0	8.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
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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CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	628.9	631.5	628.0	630.6	629.8	628.9	627.0	630.6
5°	618.2	619.1	615.5	619.1	618.2	616.5	614.6	618.2
7.5°	603.1	605.9	601.4	605.0	604.0	602.2	600.5	604.0
10°	586.4	589.0	585.5	588.1	588.1	586.4	583.8	587.2
12.5°	567.8	569.6	566.0	569.6	568.6	566.9	566.0	568.6
15°	547.5	550.1	546.6	549.2	548.4	547.5	546.6	549.2
17.5°	525.4	528.0	525.4	528.0	528.0	525.4	524.5	526.2
20°	503.2	505.0	502.4	505.0	504.1	504.1	502.4	505.0
22.5°	478.5	481.1	479.4	481.1	480.2	480.2	479.4	481.1
25°	453.8	456.4	453.8	456.4	455.5	455.5	453.8	458.1
27.5°	429.0	430.8	428.0	431.6	430.8	429.0	429.9	430.8
30°	402.4	404.1	402.4	405.1	405.1	405.1	403.2	405.1
32.5°	375.9	378.5	375.9	378.5	377.6	377.6	376.8	378.5
35°	349.4	350.2	348.5	351.1	351.1	352.0	350.2	352.9
37.5°	321.9	322.9	321.9	322.9	324.6	321.9	323.8	324.6
40°	293.6	295.4	294.5	295.4	295.4	296.2	295.4	296.2
42.5°	265.4	267.1	265.4	268.0	267.1	267.1	268.0	268.0
45°	236.1	238.8	237.0	238.8	239.6	238.8	238.8	240.5
47.5°	208.8	210.5	209.6	210.5	210.5	210.5	210.5	212.2
50°	181.2	182.2	182.2	183.1	183.1	184.0	182.2	183.1
52.5°	153.9	155.6	155.6	155.6	154.8	155.6	155.6	155.6
55°	129.1	130.0	128.2	130.0	130.0	129.1	129.1	130.9
57.5°	105.2	105.2	105.2	105.2	105.2	104.4	105.2	105.2
60°	83.1	84.0	83.1	83.1	83.1	83.1	82.2	84.0
62.5°	64.6	64.6	63.6	64.6	64.6	64.6	65.5	65.5
65°	50.4	51.2	50.4	51.2	51.2	51.2	51.2	52.1
67.5°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
70°	30.1	30.1	30.1	31.0	30.1	30.1	30.1	31.0
72.5°	22.1	22.1	22.1	22.1	22.1	22.1	23.0	23.0
75°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	10.6	10.6	10.6	11.5	10.6	11.5	10.6	10.6
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	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



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













(END OF REPORT)