

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: P252649

Luminaire Tested: **LE_6B10D010 EC6B10208030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 1240.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

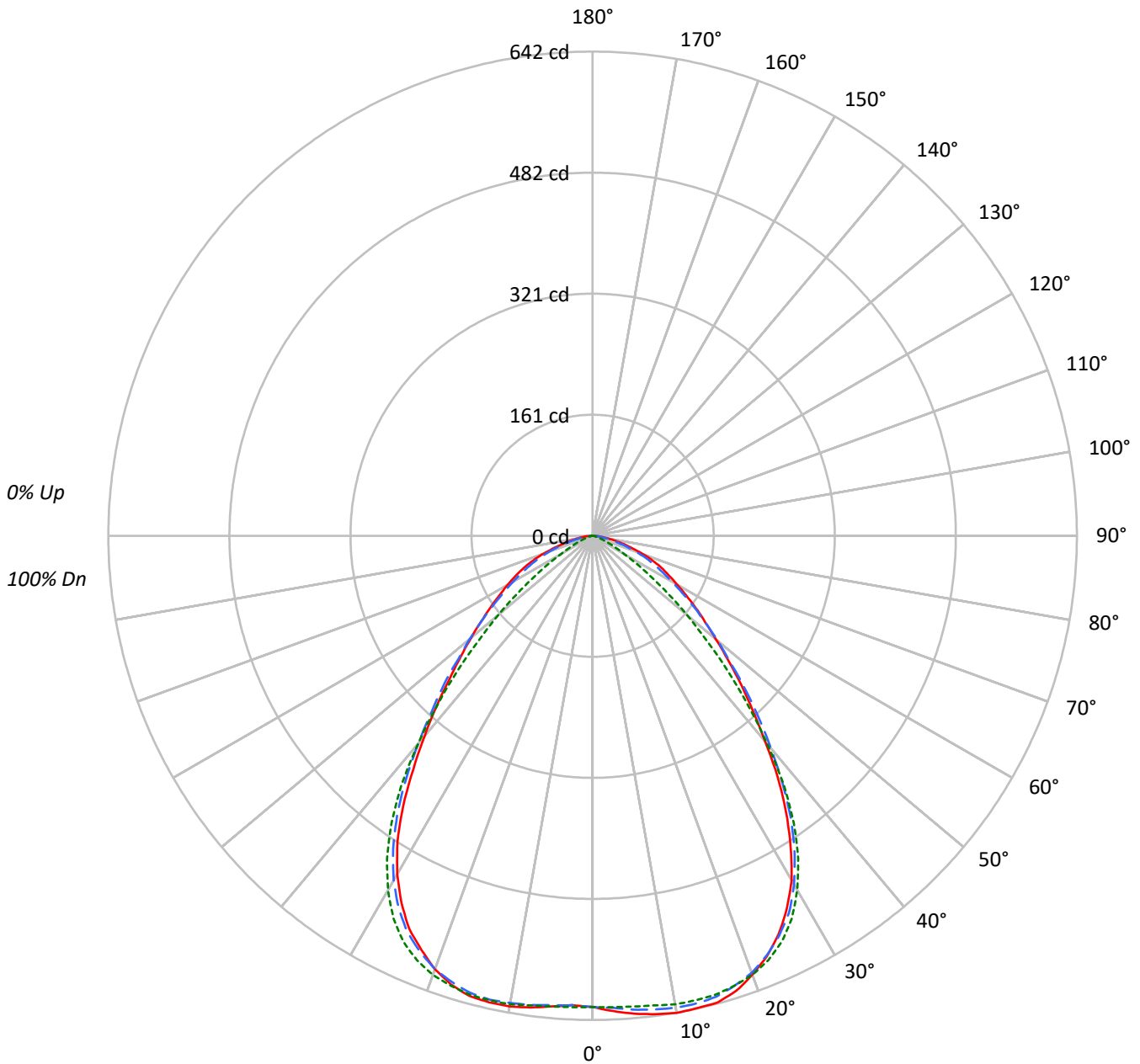
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40762	40762	40762
5°	41665	41029	41029
10°	42557	41795	41974
15°	43267	42552	42673
20°	43003	43003	42455
25°	41982	42745	41406
30°	39738	40868	39015
35°	35609	37019	34900
40°	30251	30626	29501
45°	25603	23398	24708
50°	21619	16503	21335
55°	18995	10646	18790
60°	16832	6341	16950
65°	15561	3828	15561
70°	13505	2194	13143
75°	10688	1311	10032
80°	7965	977	7664
85°	7336	674	6662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	4.9
10°-20°	178.0	14.4
20°-30°	267.7	21.6
30°-40°	281.5	22.7
40°-50°	210.3	17.0
50°-60°	130.9	10.6
60°-70°	74.5	6.0
70°-80°	30.7	2.5
80°-90°	6.3	0.5
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°	505.9	40.8
0°-40°	787.4	63.5
0°-60°	1128.6	91.0
0°-90°	1240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	625	625	625	625	625	
5°	636	631	626	625	626	61
15°	641	633	630	627	632	180
25°	583	585	594	580	575	267
35°	447	459	465	452	438	277
45°	278	284	254	278	268	215
55°	167	164	94	161	165	150
65°	101	90	25	90	101	99
75°	42	34	5	33	40	46
85°	10	6	1	5	9	11
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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	630.9	630.0	630.9	629.1	628.2	628.2	629.1	627.4	626.5	627.4	626.5
5°	636.2	634.5	635.4	634.5	632.8	632.8	633.6	630.9	630.9	631.8	630.9
7.5°	639.8	639.8	639.8	638.0	637.1	636.2	638.0	635.4	634.5	634.5	633.6
10°	642.4	641.5	642.4	640.6	638.9	638.0	639.8	638.0	636.2	638.0	635.4
12.5°	641.5	641.5	641.5	640.6	638.9	638.0	639.8	637.1	636.2	637.1	635.4
15°	640.6	638.0	638.9	638.0	635.4	635.4	636.2	633.6	631.8	634.5	632.8
17.5°	632.8	630.9	631.8	630.0	628.2	627.4	628.2	627.4	625.6	627.4	625.6
20°	619.4	619.4	620.4	618.5	616.8	615.9	617.6	615.9	614.1	616.8	616.8
22.5°	603.5	603.5	603.5	602.6	601.8	601.8	601.8	600.9	600.0	601.8	602.6
25°	583.2	582.4	583.2	584.1	583.2	582.4	583.2	583.2	581.5	585.0	585.0
27.5°	557.6	557.6	559.4	558.5	558.5	557.6	559.4	559.4	558.5	561.1	563.8
30°	527.5	525.8	527.5	527.5	528.4	528.4	529.2	529.2	529.2	532.0	533.8
32.5°	488.6	489.5	492.2	491.2	490.4	493.1	493.1	494.9	495.8	497.5	498.4
35°	447.1	448.0	448.0	448.9	450.6	448.9	453.2	452.4	453.2	456.9	458.6
37.5°	403.0	400.2	404.8	403.0	403.9	403.9	405.6	406.5	409.1	413.5	413.5
40°	355.2	356.1	357.9	358.8	359.6	359.6	359.6	362.2	363.1	368.5	367.6
42.5°	313.8	313.8	315.5	316.4	316.4	316.4	316.4	319.0	320.8	322.5	324.2
45°	277.5	274.9	276.6	276.6	278.4	277.5	279.2	281.0	281.9	284.5	283.6
47.5°	243.0	242.1	243.0	243.9	243.0	243.9	244.8	245.6	246.5	246.5	246.5
50°	213.0	213.0	213.9	214.8	214.8	214.8	214.8	215.6	215.6	217.4	215.6
52.5°	188.2	189.1	189.1	188.2	189.1	189.1	190.0	190.0	189.1	189.1	186.5
55°	167.0	166.1	167.0	166.1	167.0	167.0	166.1	166.1	165.2	164.4	163.5
57.5°	146.6	146.6	146.6	146.6	145.8	146.6	145.8	144.9	144.9	143.1	140.5
60°	129.0	129.0	129.0	129.0	129.0	128.1	129.0	128.1	126.4	124.6	121.0
62.5°	114.0	113.1	114.0	113.1	113.1	112.2	112.2	111.4	109.6	107.8	104.2
65°	100.8	101.6	100.8	100.8	99.9	99.0	99.0	98.1	95.4	93.6	90.1
67.5°	86.6	85.8	85.8	85.8	84.9	84.9	84.9	83.1	81.2	78.6	75.1
70°	70.8	70.8	70.8	69.8	69.8	68.9	68.9	68.0	66.2	64.5	60.1
72.5°	55.6	55.6	55.6	53.9	54.8	53.9	53.9	52.1	51.2	48.6	46.0
75°	42.4	42.4	41.5	41.5	40.6	39.8	39.8	38.9	38.0	36.2	33.6
77.5°	30.9	30.9	30.9	30.0	29.1	28.2	28.2	27.4	26.5	25.6	23.9
80°	21.2	21.2	21.2	21.2	20.4	19.5	19.5	18.5	18.5	17.6	15.9
82.5°	14.1	14.1	14.1	14.1	13.2	13.2	13.2	12.4	11.5	11.5	9.8
85°	9.8	9.8	8.9	8.9	8.9	8.9	8.0	8.0	7.1	6.1	6.1
87.5°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4	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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	629.1	629.1	628.2	625.6	626.5	625.6	626.5	625.6	623.0	625.6	623.0
5°	632.8	633.6	631.8	628.2	629.1	628.2	628.2	627.4	624.8	626.5	624.8
7.5°	636.2	635.4	634.5	630.9	631.8	630.9	630.9	629.1	626.5	628.2	625.6
10°	638.0	638.0	636.2	632.8	632.8	631.8	632.8	631.8	628.2	630.9	629.1
12.5°	638.0	637.1	637.1	632.8	633.6	632.8	633.6	631.8	629.1	630.9	630.0
15°	635.4	635.4	634.5	630.0	630.9	630.9	631.8	630.0	627.4	630.0	628.2
17.5°	630.0	630.0	629.1	625.6	627.4	627.4	628.2	626.5	623.9	625.6	625.6
20°	619.4	620.4	620.4	617.6	619.4	619.4	620.4	619.4	618.5	619.4	617.6
22.5°	607.1	608.9	608.9	606.1	608.0	608.0	610.6	609.8	608.0	608.9	608.0
25°	588.5	590.2	592.0	590.2	592.0	592.0	594.8	593.8	592.0	593.8	591.1
27.5°	567.2	568.1	570.0	568.1	570.9	570.0	572.6	571.8	569.1	571.8	570.9
30°	537.2	540.8	543.5	540.8	543.5	543.5	545.2	544.4	543.5	542.5	542.5
32.5°	503.6	507.2	507.2	506.4	508.1	508.1	509.0	507.2	506.4	507.2	508.1
35°	462.1	463.9	465.6	464.8	465.6	466.6	465.6	466.6	463.9	464.8	464.8
37.5°	417.1	418.9	418.9	416.2	418.0	418.0	416.2	416.2	414.4	416.2	412.6
40°	369.4	367.6	368.5	366.8	365.0	365.0	364.1	360.5	358.8	359.6	360.5
42.5°	322.5	322.5	319.9	315.5	311.0	311.0	308.4	306.6	303.1	304.9	304.0
45°	282.8	278.4	274.9	267.8	265.1	263.4	258.9	254.5	252.8	253.6	252.8
47.5°	244.8	241.2	232.4	222.6	220.0	217.4	212.1	206.8	205.0	203.2	203.2
50°	213.0	206.8	197.0	186.5	182.0	177.6	170.5	165.2	161.8	162.6	162.6
52.5°	183.8	176.8	165.2	152.0	146.6	141.4	135.2	129.0	126.4	125.5	125.5
55°	158.1	150.2	138.8	123.8	119.2	113.1	105.1	98.1	94.5	93.6	95.4
57.5°	135.2	128.1	114.9	99.9	94.5	88.4	80.4	74.2	69.8	68.9	69.8
60°	116.6	106.9	95.4	81.2	74.2	68.9	60.1	54.8	50.4	48.6	49.5
62.5°	98.1	89.2	77.8	63.6	58.4	53.0	45.1	38.9	35.4	34.5	35.4
65°	84.0	75.1	64.5	52.1	46.9	41.5	34.5	28.2	25.6	24.8	25.6
67.5°	69.8	61.9	53.0	41.5	37.1	32.8	25.6	21.2	17.6	16.8	17.6
70°	56.5	49.5	40.6	32.8	28.2	24.8	19.5	15.0	12.4	11.5	12.4
72.5°	42.4	37.1	30.9	23.9	21.2	18.5	14.1	10.6	8.9	8.0	8.9
75°	30.9	26.5	22.1	16.8	15.0	13.2	9.8	7.1	6.1	5.2	6.1
77.5°	21.2	18.5	15.0	11.5	9.8	8.9	6.1	5.2	4.4	3.5	3.5
80°	14.1	12.4	9.8	8.0	7.1	6.1	4.4	3.5	2.6	2.6	2.6
82.5°	8.9	7.1	6.1	4.4	3.5	3.5	2.6	1.8	1.8	1.8	1.8
85°	5.2	4.4	3.5	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.0	0.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	624.8	623.0	623.0	623.9	624.8	625.6	623.9	623.0	623.0	625.6	623.9
5°	624.8	623.9	623.9	623.9	625.6	626.5	624.8	623.9	624.8	627.4	626.5
7.5°	627.4	625.6	626.5	626.5	627.4	629.1	627.4	626.5	627.4	630.0	628.2
10°	629.1	627.4	628.2	627.4	630.0	630.9	629.1	628.2	629.1	632.8	631.8
12.5°	630.0	629.1	629.1	628.2	630.9	631.8	630.0	629.1	630.0	632.8	631.8
15°	628.2	627.4	627.4	627.4	629.1	630.9	628.2	627.4	627.4	630.0	629.1
17.5°	624.8	623.0	623.0	623.0	623.9	624.8	622.1	621.2	620.4	623.0	622.1
20°	618.5	616.8	615.0	615.0	615.9	615.9	614.1	611.5	611.5	612.4	610.6
22.5°	607.1	606.1	604.4	603.5	605.2	604.4	600.9	598.2	597.4	598.2	596.5
25°	591.1	589.4	588.5	587.6	588.5	587.6	584.1	580.5	580.5	580.5	577.9
27.5°	569.1	567.2	566.4	566.4	567.2	565.5	562.0	558.5	556.8	556.8	554.0
30°	540.8	540.8	539.9	539.0	538.1	538.1	532.9	529.2	527.5	528.4	526.6
32.5°	506.4	505.5	504.6	501.9	502.8	501.9	497.5	494.9	492.2	490.4	489.5
35°	462.1	462.1	461.2	461.2	461.2	460.4	456.0	453.2	451.5	450.6	448.0
37.5°	413.5	412.6	411.8	411.8	411.8	411.8	409.1	406.5	406.5	405.6	403.9
40°	358.8	359.6	360.5	359.6	362.2	365.0	361.4	359.6	358.8	361.4	357.9
42.5°	305.8	304.9	309.2	310.1	310.1	314.6	315.5	316.4	315.5	317.2	317.2
45°	254.5	253.6	258.0	259.8	264.2	269.5	272.1	276.6	278.4	280.1	278.4
47.5°	205.9	209.4	213.0	217.4	220.9	229.8	235.0	239.5	241.2	243.9	243.9
50°	165.2	168.8	175.0	178.5	182.9	193.5	202.4	208.5	212.1	214.8	213.9
52.5°	127.2	133.4	141.4	144.9	151.1	163.5	173.2	180.2	184.6	187.4	188.2
55°	98.1	103.4	111.4	116.6	122.9	136.1	148.5	156.4	160.9	164.4	166.1
57.5°	72.5	78.6	87.5	91.9	99.0	114.0	124.6	134.4	139.6	144.0	144.9
60°	53.0	59.2	67.1	72.5	79.5	94.5	106.9	115.8	122.0	125.5	127.2
62.5°	38.0	44.1	52.1	57.4	63.6	76.9	89.2	98.1	104.2	108.8	111.4
65°	27.4	33.6	41.5	46.0	51.2	63.6	75.1	84.0	90.1	95.4	97.2
67.5°	20.4	24.8	31.8	36.2	41.5	51.2	61.0	68.9	75.1	79.5	81.2
70°	15.0	18.5	24.8	27.4	30.9	39.8	47.8	54.8	60.1	63.6	65.4
72.5°	10.6	13.2	17.6	20.4	23.0	30.0	36.2	41.5	45.1	48.6	50.4
75°	7.1	8.9	12.4	14.1	15.9	21.2	25.6	30.0	32.8	35.4	36.2
77.5°	4.4	6.1	8.9	9.8	11.5	14.1	17.6	20.4	22.1	23.9	25.6
80°	2.6	3.5	5.2	6.1	7.1	9.8	11.5	13.2	15.0	16.8	17.6
82.5°	1.8	2.6	3.5	3.5	4.4	5.2	7.1	8.9	9.8	10.6	11.5
85°	0.9	0.9	1.8	1.8	2.6	2.6	3.5	4.4	5.2	6.1	7.1
87.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.6	2.6	2.6	3.5	3.5
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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	622.1	624.8	622.1	623.9	623.0	623.0	622.1	623.0
5°	624.8	628.2	624.8	627.4	625.6	625.6	625.6	626.5
7.5°	627.4	630.9	628.2	630.9	630.0	629.1	629.1	630.9
10°	630.0	632.8	630.9	633.6	632.8	631.8	631.8	633.6
12.5°	630.0	633.6	631.8	634.5	633.6	632.8	632.8	633.6
15°	627.4	631.8	629.1	631.8	630.9	630.0	630.0	631.8
17.5°	619.4	623.0	621.2	623.0	623.0	622.1	623.0	623.9
20°	608.9	611.5	609.8	611.5	611.5	609.8	610.6	611.5
22.5°	593.8	596.5	594.8	596.5	595.6	594.8	594.8	593.8
25°	575.2	578.8	576.1	577.9	576.1	574.4	574.4	575.2
27.5°	552.2	554.9	551.4	553.1	551.4	549.6	549.6	548.8
30°	522.2	523.1	520.5	522.2	520.5	519.6	517.9	517.9
32.5°	486.0	486.9	484.2	484.2	482.5	482.5	478.9	481.6
35°	443.6	444.5	443.6	442.8	440.0	439.1	438.2	438.2
37.5°	399.4	399.4	396.8	395.9	394.1	392.4	393.2	390.6
40°	354.4	353.5	350.8	351.8	350.8	348.1	347.2	346.4
42.5°	311.9	311.9	309.2	310.1	308.4	307.5	304.9	305.8
45°	274.9	274.9	272.1	272.1	271.2	268.6	269.5	267.8
47.5°	241.2	241.2	240.4	240.4	237.8	236.9	236.9	236.9
50°	212.1	212.1	212.1	212.1	211.2	210.2	209.4	210.2
52.5°	187.4	189.1	188.2	188.2	187.4	186.5	185.6	185.6
55°	165.2	166.1	166.1	167.0	166.1	165.2	166.1	165.2
57.5°	145.8	147.6	147.6	147.6	147.6	147.6	146.6	145.8
60°	129.0	129.9	129.9	130.8	130.8	130.8	129.9	129.9
62.5°	112.2	114.0	114.9	114.9	115.8	114.9	114.9	114.9
65°	99.0	100.8	101.6	100.8	101.6	101.6	100.8	100.8
67.5°	83.1	84.9	84.9	84.9	84.9	85.8	84.9	84.9
70°	67.1	68.9	68.0	68.9	68.9	68.9	68.9	68.9
72.5°	51.2	52.1	53.0	53.0	53.9	53.0	53.0	53.0
75°	37.1	38.9	38.9	38.9	38.9	39.8	39.8	39.8
77.5°	26.5	27.4	27.4	28.2	28.2	28.2	28.2	29.1
80°	18.5	18.5	19.5	19.5	20.4	20.4	20.4	20.4
82.5°	12.4	13.2	13.2	13.2	13.2	13.2	13.2	13.2
85°	7.1	8.0	8.0	8.0	8.0	8.9	8.9	8.9
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5
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)