

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: P252673

Luminaire Tested: **LE_6B15D010 EC6B10209730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252673
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_6B15D010 EC6B10209730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276.3 lumens
Efficiency: N/A
Efficacy: 88.6 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

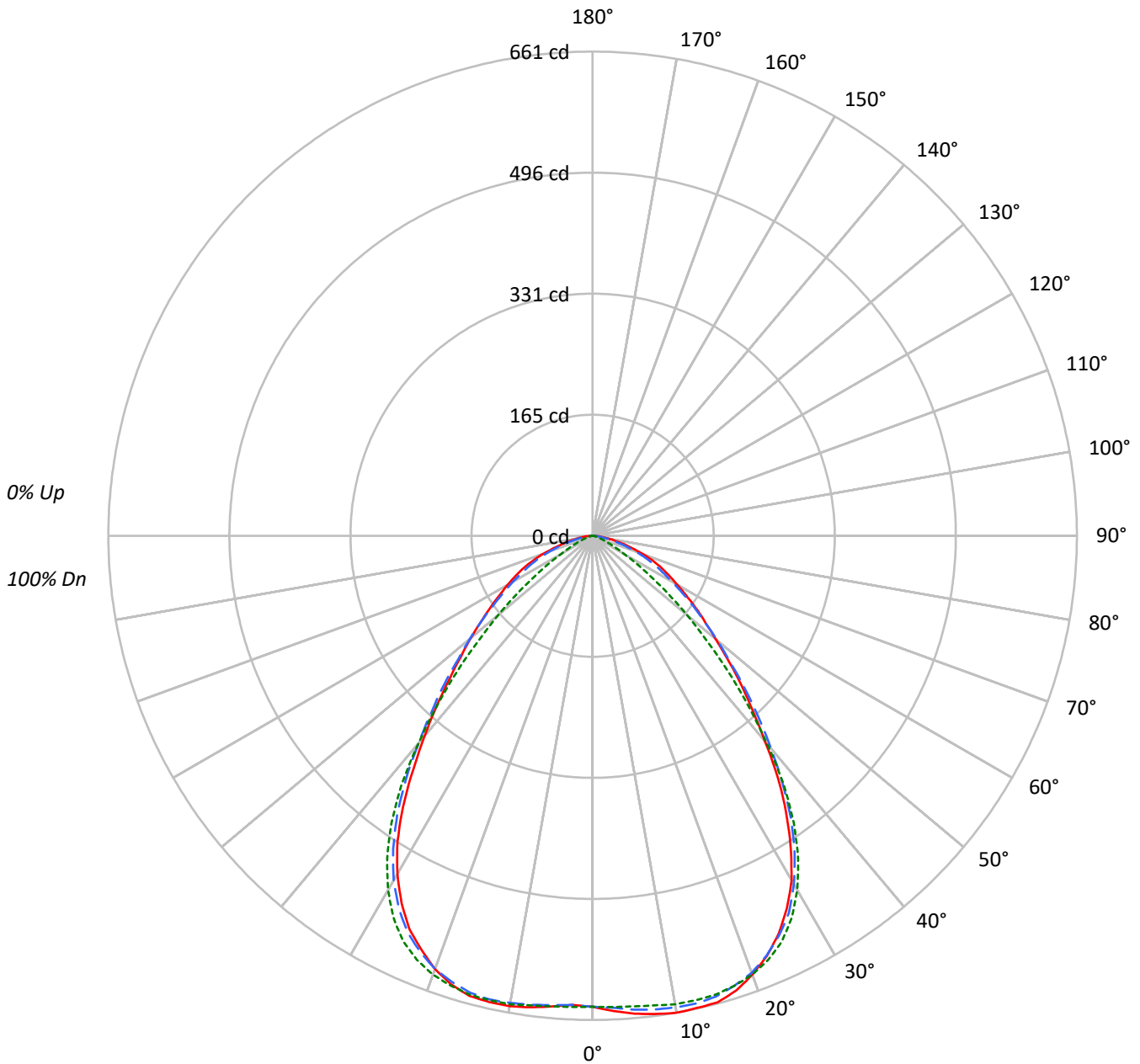
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	41950	41950	41950
5°	42889	42234	42234
10°	43803	43021	43200
15°	44537	43801	43916
20°	44260	44260	43698
25°	43205	43990	42622
30°	40906	42066	40153
35°	36652	38102	35927
40°	31137	31520	30362
45°	26351	24081	25428
50°	22238	16990	21974
55°	19553	10965	19348
60°	17328	6524	17458
65°	15993	3936	15993
70°	13887	2270	13543
75°	10990	1386	10310
80°	8228	1052	7852
85°	7486	674	6812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	4.9
10°-20°	183.2	14.4
20°-30°	275.6	21.6
30°-40°	289.7	22.7
40°-50°	216.4	17.0
50°-60°	134.7	10.6
60°-70°	76.6	6.0
70°-80°	31.6	2.5
80°-90°	6.5	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°	520.7	40.8
0°-40°	810.4	63.5
0°-60°	1161.5	91.0
0°-90°	1276.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	643	643	643	643	643	
5°	655	649	645	643	645	63
15°	659	651	648	646	650	185
25°	600	602	611	598	592	275
35°	460	472	478	465	451	286
45°	286	292	261	286	276	221
55°	172	168	96	166	170	155
65°	104	93	26	93	104	102
75°	44	34	6	34	41	47
85°	10	6	1	6	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°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	649.4	648.5	649.4	647.5	646.6	646.6	647.5	645.8	644.9	645.8	644.9
5°	654.9	653.0	653.9	653.0	651.1	651.1	652.1	649.4	649.4	650.2	649.4
7.5°	658.5	658.5	658.5	656.6	655.8	654.9	656.6	653.9	653.0	653.0	652.1
10°	661.2	660.2	661.2	659.4	657.5	656.6	658.5	656.6	654.9	656.6	653.9
12.5°	660.2	660.2	660.2	659.4	657.5	656.6	658.5	655.8	654.9	655.8	653.9
15°	659.4	656.6	657.5	656.6	653.9	653.9	654.9	652.1	650.2	653.0	651.1
17.5°	651.1	649.4	650.2	648.5	646.6	645.8	646.6	645.8	643.9	645.8	643.9
20°	637.5	637.5	638.5	636.6	634.9	633.9	635.8	633.9	632.1	634.9	634.9
22.5°	621.1	621.1	621.1	620.2	619.4	619.4	619.4	618.5	617.5	619.4	620.2
25°	600.2	599.4	600.2	601.1	600.2	599.4	600.2	600.2	598.5	602.1	602.1
27.5°	573.9	573.9	575.8	574.8	574.8	573.9	575.8	575.8	574.8	577.5	580.2
30°	543.0	541.1	543.0	543.0	543.9	543.9	544.8	544.8	544.8	547.5	549.4
32.5°	503.0	503.9	506.6	505.6	504.8	507.5	507.5	509.2	510.2	512.0	513.0
35°	460.2	461.1	461.1	462.0	463.9	462.0	466.6	465.6	466.6	470.2	472.0
37.5°	414.8	412.0	416.5	414.8	415.6	415.6	417.5	418.4	421.1	425.6	425.6
40°	365.6	366.5	368.4	369.2	370.1	370.1	370.1	372.9	373.8	379.2	378.4
42.5°	322.9	322.9	324.6	325.6	325.6	325.6	325.6	328.4	330.1	332.0	333.8
45°	285.6	282.9	284.6	284.6	286.5	285.6	287.4	289.2	290.1	292.9	292.0
47.5°	250.1	249.2	250.1	251.0	250.1	251.0	251.9	252.9	253.8	253.8	253.8
50°	219.1	219.1	220.1	221.0	221.0	221.0	221.0	221.9	221.9	223.8	221.9
52.5°	193.8	194.6	194.6	193.8	194.6	194.6	195.5	195.5	194.6	194.6	191.9
55°	171.9	171.0	171.9	171.0	171.9	171.9	171.0	171.0	170.1	169.1	168.2
57.5°	151.0	151.0	151.0	151.0	150.1	151.0	150.1	149.1	149.1	147.4	144.6
60°	132.8	132.8	132.8	132.8	132.8	131.9	132.8	131.9	130.0	128.2	124.6
62.5°	117.4	116.4	117.4	116.4	116.4	115.5	115.5	114.6	112.8	111.0	107.4
65°	103.6	104.6	103.6	103.6	102.8	101.9	101.9	101.0	98.2	96.4	92.8
67.5°	89.1	88.2	88.2	88.2	87.2	87.2	87.2	85.5	83.6	81.0	77.2
70°	72.8	72.8	72.8	71.9	71.9	71.0	71.0	70.0	68.2	66.4	61.9
72.5°	57.2	57.2	57.2	55.5	56.4	55.5	55.5	53.6	52.8	50.0	47.2
75°	43.6	43.6	42.8	42.8	41.9	40.9	40.9	40.0	39.1	37.2	34.5
77.5°	31.9	31.9	31.9	30.9	30.0	29.1	29.1	28.2	27.2	26.4	24.5
80°	21.9	21.9	21.9	21.9	20.9	20.0	20.0	19.1	19.1	18.2	16.4
82.5°	14.5	14.5	14.5	14.5	13.6	13.6	13.6	12.8	11.9	11.9	10.0
85°	10.0	10.0	9.1	9.1	9.1	9.1	8.1	8.1	7.2	6.4	6.4
87.5°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5	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°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	647.5	647.5	646.6	643.9	644.9	643.9	644.9	643.9	641.1	643.9	641.1
5°	651.1	652.1	650.2	646.6	647.5	646.6	646.6	645.8	643.0	644.9	643.0
7.5°	654.9	653.9	653.0	649.4	650.2	649.4	649.4	647.5	644.9	646.6	643.9
10°	656.6	656.6	654.9	651.1	651.1	650.2	651.1	650.2	646.6	649.4	647.5
12.5°	656.6	655.8	655.8	651.1	652.1	651.1	652.1	650.2	647.5	649.4	648.5
15°	653.9	653.9	653.0	648.5	649.4	649.4	650.2	648.5	645.8	648.5	646.6
17.5°	648.5	648.5	647.5	643.9	645.8	645.8	646.6	644.9	642.1	643.9	643.9
20°	637.5	638.5	638.5	635.8	637.5	637.5	638.5	637.5	636.6	637.5	635.8
22.5°	624.8	626.6	626.6	623.9	625.8	625.8	628.5	627.5	625.8	626.6	625.8
25°	605.8	607.5	609.4	607.5	609.4	609.4	612.1	611.1	609.4	611.1	608.5
27.5°	583.9	584.8	586.6	584.8	587.5	586.6	589.4	588.4	585.8	588.4	587.5
30°	553.0	556.6	559.4	556.6	559.4	559.4	561.1	560.2	559.4	558.4	558.4
32.5°	518.4	522.0	522.0	521.1	523.0	523.0	523.9	522.0	521.1	522.0	523.0
35°	475.6	477.5	479.2	478.4	479.2	480.2	479.2	480.2	477.5	478.4	478.4
37.5°	429.2	431.1	431.1	428.4	430.1	430.1	428.4	428.4	426.5	428.4	424.8
40°	380.1	378.4	379.2	377.4	375.6	375.6	374.8	371.1	369.2	370.1	371.1
42.5°	332.0	332.0	329.2	324.6	320.1	320.1	317.4	315.6	312.0	313.8	312.9
45°	291.0	286.5	282.9	275.6	272.9	271.0	266.5	261.9	260.1	261.0	260.1
47.5°	251.9	248.2	239.2	229.2	226.5	223.8	218.2	212.9	211.0	209.1	209.1
50°	219.1	212.9	202.9	191.9	187.4	182.8	175.5	170.1	166.4	167.4	167.4
52.5°	189.1	181.9	170.1	156.4	151.0	145.5	139.1	132.8	130.0	129.1	129.1
55°	162.8	154.6	142.8	127.4	122.8	116.4	108.2	101.0	97.4	96.4	98.2
57.5°	139.1	131.9	118.2	102.8	97.4	91.0	82.8	76.4	71.9	71.0	71.9
60°	120.0	110.0	98.2	83.6	76.4	71.0	61.9	56.4	51.9	50.0	50.9
62.5°	101.0	91.9	80.0	65.5	60.0	54.6	46.4	40.0	36.4	35.5	36.4
65°	86.4	77.2	66.4	53.6	48.2	42.8	35.5	29.1	26.4	25.5	26.4
67.5°	71.9	63.6	54.6	42.8	38.2	33.6	26.4	21.9	18.2	17.2	18.2
70°	58.2	50.9	41.9	33.6	29.1	25.5	20.0	15.5	12.8	11.9	12.8
72.5°	43.6	38.2	31.9	24.5	21.9	19.1	14.5	10.9	9.1	8.1	9.1
75°	31.9	27.2	22.8	17.2	15.5	13.6	10.0	7.2	6.4	5.5	6.4
77.5°	21.9	19.1	15.5	11.9	10.0	9.1	6.4	5.5	4.5	3.6	3.6
80°	14.5	12.8	10.0	8.1	7.2	6.4	4.5	3.6	2.8	2.8	2.8
82.5°	9.1	7.2	6.4	4.5	3.6	3.6	2.8	1.9	1.9	1.9	1.9
85°	5.5	4.5	3.6	2.8	1.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	2.8	1.9	1.9	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°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	643.0	641.1	641.1	642.1	643.0	643.9	642.1	641.1	641.1	643.9	642.1
5°	643.0	642.1	642.1	642.1	643.9	644.9	643.0	642.1	643.0	645.8	644.9
7.5°	645.8	643.9	644.9	644.9	645.8	647.5	645.8	644.9	645.8	648.5	646.6
10°	647.5	645.8	646.6	645.8	648.5	649.4	647.5	646.6	647.5	651.1	650.2
12.5°	648.5	647.5	647.5	646.6	649.4	650.2	648.5	647.5	648.5	651.1	650.2
15°	646.6	645.8	645.8	645.8	647.5	649.4	646.6	645.8	645.8	648.5	647.5
17.5°	643.0	641.1	641.1	641.1	642.1	643.0	640.2	639.4	638.5	641.1	640.2
20°	636.6	634.9	633.0	633.0	633.9	633.9	632.1	629.4	629.4	630.2	628.5
22.5°	624.8	623.9	622.1	621.1	623.0	622.1	618.5	615.8	614.8	615.8	613.9
25°	608.5	606.6	605.8	604.8	605.8	604.8	601.1	597.5	597.5	597.5	594.8
27.5°	585.8	583.9	583.0	583.0	583.9	582.1	578.4	574.8	573.0	573.0	570.2
30°	556.6	556.6	555.8	554.8	553.9	553.9	548.4	544.8	543.0	543.9	542.0
32.5°	521.1	520.2	519.4	516.6	517.5	516.6	512.0	509.2	506.6	504.8	503.9
35°	475.6	475.6	474.8	474.8	474.8	473.9	469.2	466.6	464.8	463.9	461.1
37.5°	425.6	424.8	423.9	423.9	423.9	423.9	421.1	418.4	418.4	417.5	415.6
40°	369.2	370.1	371.1	370.1	372.9	375.6	372.0	370.1	369.2	372.0	368.4
42.5°	314.6	313.8	318.4	319.2	319.2	323.8	324.6	325.6	324.6	326.5	326.5
45°	261.9	261.0	265.6	267.4	271.9	277.4	280.1	284.6	286.5	288.2	286.5
47.5°	211.9	215.5	219.1	223.8	227.4	236.5	241.9	246.5	248.2	251.0	251.0
50°	170.1	173.8	180.1	183.8	188.2	199.1	208.2	214.6	218.2	221.0	220.1
52.5°	131.0	137.4	145.5	149.1	155.5	168.2	178.2	185.5	190.1	192.8	193.8
55°	101.0	106.4	114.6	120.0	126.4	140.0	152.8	161.0	165.5	169.1	171.0
57.5°	74.6	81.0	90.0	94.6	101.9	117.4	128.2	138.2	143.8	148.2	149.1
60°	54.6	60.9	69.1	74.6	81.9	97.4	110.0	119.1	125.5	129.1	131.0
62.5°	39.1	45.5	53.6	59.1	65.5	79.1	91.9	101.0	107.4	111.9	114.6
65°	28.2	34.5	42.8	47.2	52.8	65.5	77.2	86.4	92.8	98.2	100.0
67.5°	20.9	25.5	32.8	37.2	42.8	52.8	62.8	71.0	77.2	81.9	83.6
70°	15.5	19.1	25.5	28.2	31.9	40.9	49.1	56.4	61.9	65.5	67.2
72.5°	10.9	13.6	18.2	20.9	23.6	30.9	37.2	42.8	46.4	50.0	51.9
75°	7.2	9.1	12.8	14.5	16.4	21.9	26.4	30.9	33.6	36.4	37.2
77.5°	4.5	6.4	9.1	10.0	11.9	14.5	18.2	20.9	22.8	24.5	26.4
80°	2.8	3.6	5.5	6.4	7.2	10.0	11.9	13.6	15.5	17.2	18.2
82.5°	1.9	2.8	3.6	3.6	4.5	5.5	7.2	9.1	10.0	10.9	11.9
85°	0.9	0.9	1.9	1.9	2.8	2.8	3.6	4.5	5.5	6.4	7.2
87.5°	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	2.8	3.6	3.6
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	640.2	643.0	640.2	642.1	641.1	641.1	640.2	641.1
5°	643.0	646.6	643.0	645.8	643.9	643.9	643.9	644.9
7.5°	645.8	649.4	646.6	649.4	648.5	647.5	647.5	649.4
10°	648.5	651.1	649.4	652.1	651.1	650.2	650.2	652.1
12.5°	648.5	652.1	650.2	653.0	652.1	651.1	651.1	652.1
15°	645.8	650.2	647.5	650.2	649.4	648.5	648.5	650.2
17.5°	637.5	641.1	639.4	641.1	641.1	640.2	641.1	642.1
20°	626.6	629.4	627.5	629.4	629.4	627.5	628.5	629.4
22.5°	611.1	613.9	612.1	613.9	613.0	612.1	612.1	611.1
25°	592.1	595.8	593.0	594.8	593.0	591.1	591.1	592.1
27.5°	568.4	571.1	567.5	569.4	567.5	565.8	565.8	564.8
30°	537.5	538.4	535.6	537.5	535.6	534.8	533.0	533.0
32.5°	500.2	501.1	498.4	498.4	496.6	496.6	493.0	495.6
35°	456.5	457.5	456.5	455.6	452.9	452.0	451.1	451.1
37.5°	411.1	411.1	408.4	407.5	405.6	403.8	404.8	402.0
40°	364.8	363.8	361.1	362.0	361.1	358.4	357.4	356.5
42.5°	321.0	321.0	318.4	319.2	317.4	316.5	313.8	314.6
45°	282.9	282.9	280.1	280.1	279.2	276.5	277.4	275.6
47.5°	248.2	248.2	247.4	247.4	244.6	243.8	243.8	243.8
50°	218.2	218.2	218.2	218.2	217.4	216.5	215.5	216.5
52.5°	192.8	194.6	193.8	193.8	192.8	191.9	191.0	191.0
55°	170.1	171.0	171.0	171.9	171.0	170.1	171.0	170.1
57.5°	150.1	151.9	151.9	151.9	151.9	151.9	151.0	150.1
60°	132.8	133.8	133.8	134.6	134.6	134.6	133.8	133.8
62.5°	115.5	117.4	118.2	118.2	119.1	118.2	118.2	118.2
65°	101.9	103.6	104.6	103.6	104.6	104.6	103.6	103.6
67.5°	85.5	87.2	87.2	87.2	87.2	88.2	87.2	87.2
70°	69.1	71.0	70.0	71.0	71.0	71.0	71.0	71.0
72.5°	52.8	53.6	54.6	54.6	55.5	54.6	54.6	54.6
75°	38.2	40.0	40.0	40.0	40.0	40.9	40.9	40.9
77.5°	27.2	28.2	28.2	29.1	29.1	29.1	29.1	30.0
80°	19.1	19.1	20.0	20.0	20.9	20.9	20.9	20.9
82.5°	12.8	13.6	13.6	13.6	13.6	13.6	13.6	13.6
85°	7.2	8.1	8.1	8.1	8.1	9.1	9.1	9.1
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6
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)