

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: P252652

Luminaire Tested: **LE_6B10D010 EC6B10208050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252652
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 EC6B10208050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1285.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

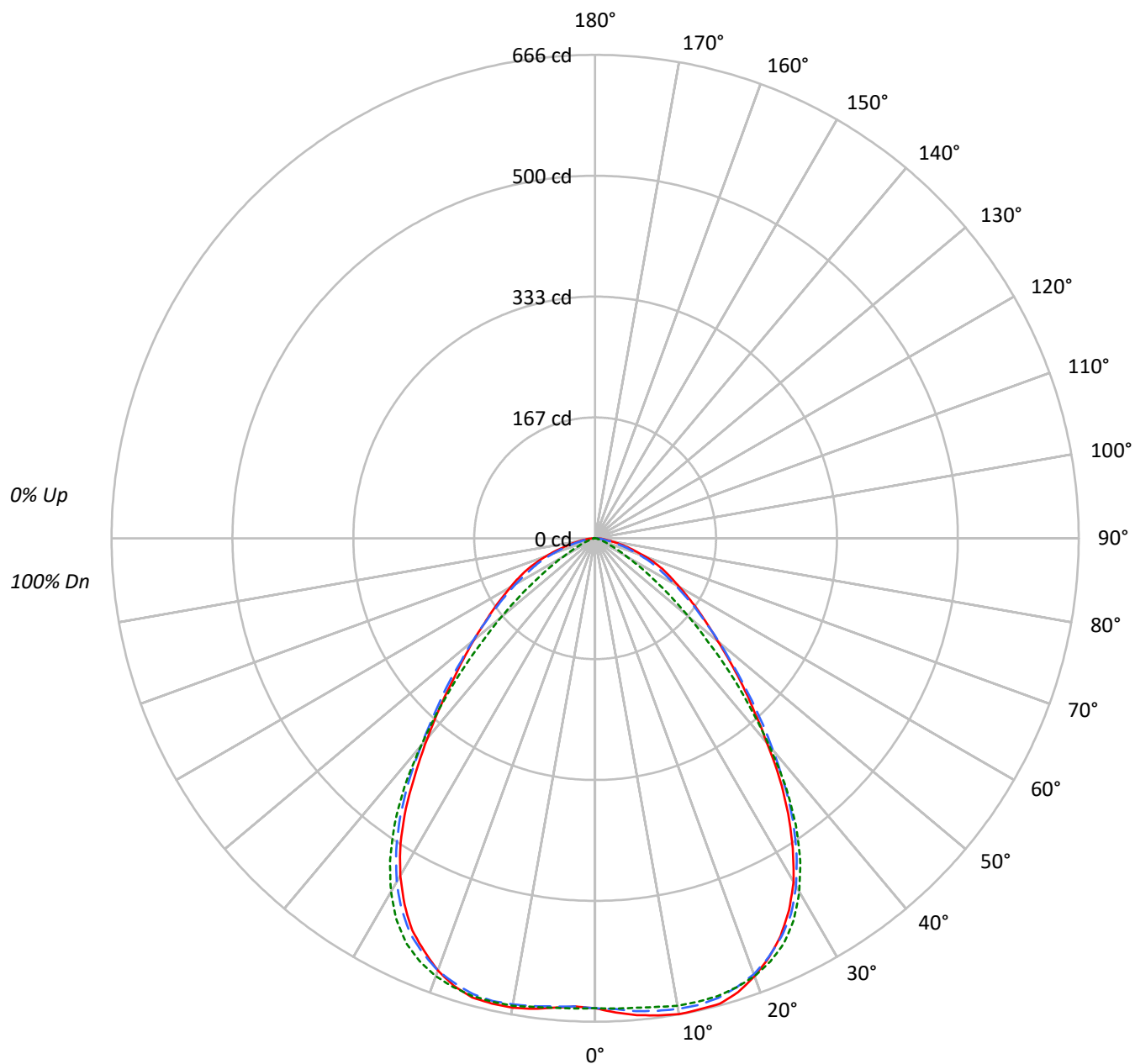
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	42237	42237	42237
5°	43184	42516	42516
10°	44107	43319	43498
15°	44841	44098	44227
20°	44566	44566	43989
25°	43508	44300	42910
30°	41177	42352	40424
35°	36907	38357	36174
40°	31349	31750	30574
45°	26526	24247	25603
50°	22390	17102	22126
55°	19689	11044	19473
60°	17458	6576	17563
65°	16116	3952	16116
70°	13963	2270	13620
75°	11091	1386	10385
80°	8266	1052	7890
85°	7560	674	6812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	4.9
10°-20°	184.5	14.4
20°-30°	277.4	21.6
30°-40°	291.7	22.7
40°-50°	217.9	17.0
50°-60°	135.7	10.6
60°-70°	77.1	6.0
70°-80°	31.8	2.5
80°-90°	6.6	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°	524.2	40.8
0°-40°	815.9	63.5
0°-60°	1169.5	91.0
0°-90°	1285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	647	647	647	647	647	
5°	659	654	649	647	649	63
15°	664	656	653	650	655	187
25°	604	606	615	602	596	277
35°	463	475	482	468	454	288
45°	288	294	263	288	278	223
55°	173	169	97	167	171	156
65°	104	93	26	93	104	103
75°	44	35	6	34	41	48
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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	653.9	652.9	653.9	652.0	651.1	651.1	652.0	650.1	649.2	650.1	649.2
5°	659.4	657.5	658.4	657.5	655.6	655.6	656.6	653.9	653.9	654.8	653.9
7.5°	663.0	663.0	663.0	661.1	660.2	659.4	661.1	658.4	657.5	657.5	656.6
10°	665.8	664.8	665.8	663.9	662.0	661.1	663.0	661.1	659.4	661.1	658.4
12.5°	664.8	664.8	664.8	663.9	662.0	661.1	663.0	660.2	659.4	660.2	658.4
15°	663.9	661.1	662.0	661.1	658.4	658.4	659.4	656.6	654.8	657.5	655.6
17.5°	655.6	653.9	654.8	652.9	651.1	650.1	651.1	650.1	648.4	650.1	648.4
20°	641.9	641.9	642.9	641.0	639.1	638.2	640.1	638.2	636.4	639.1	639.1
22.5°	625.4	625.4	625.4	624.5	623.6	623.6	623.6	622.6	621.8	623.6	624.5
25°	604.4	603.5	604.4	605.2	604.4	603.5	604.4	604.4	602.5	606.2	606.2
27.5°	577.9	577.9	579.6	578.8	578.8	577.9	579.6	579.6	578.8	581.5	584.2
30°	546.6	544.9	546.6	546.6	547.6	547.6	548.5	548.5	548.5	551.2	553.1
32.5°	506.4	507.2	510.0	509.1	508.2	511.0	511.0	512.8	513.8	515.5	516.5
35°	463.4	464.2	464.2	465.1	467.0	465.1	469.8	468.9	469.8	473.4	475.2
37.5°	417.6	414.9	419.4	417.6	418.5	418.5	420.4	421.2	424.0	428.5	428.5
40°	368.1	369.0	370.9	371.8	372.8	372.8	372.8	375.5	376.4	381.9	380.9
42.5°	325.1	325.1	326.9	327.9	327.9	327.9	327.9	330.6	332.4	334.2	336.1
45°	287.5	284.8	286.6	286.6	288.5	287.5	289.4	291.2	292.1	294.9	294.0
47.5°	251.9	250.9	251.9	252.8	251.9	252.8	253.6	254.6	255.5	255.5	255.5
50°	220.6	220.6	221.6	222.5	222.5	222.5	222.5	223.4	223.4	225.2	223.4
52.5°	195.0	196.0	196.0	195.0	196.0	196.0	196.9	196.9	196.0	196.0	193.2
55°	173.1	172.1	173.1	172.1	173.1	173.1	172.1	172.1	171.2	170.4	169.4
57.5°	152.0	152.0	152.0	152.0	151.1	152.0	151.1	150.1	150.1	148.4	145.6
60°	133.8	133.8	133.8	133.8	133.8	132.8	133.8	132.8	131.0	129.1	125.5
62.5°	118.1	117.2	118.1	117.2	117.2	116.2	116.2	115.4	113.5	111.8	108.0
65°	104.4	105.2	104.4	104.4	103.5	102.5	102.5	101.6	98.9	97.1	93.4
67.5°	89.8	88.9	88.9	88.9	87.9	87.9	87.9	86.1	84.2	81.5	77.9
70°	73.2	73.2	73.2	72.4	72.4	71.4	71.4	70.5	68.6	66.9	62.2
72.5°	57.8	57.8	57.8	55.9	56.8	55.9	55.9	54.0	53.1	50.4	47.6
75°	44.0	44.0	43.0	43.0	42.1	41.2	41.2	40.2	39.4	37.5	34.8
77.5°	32.0	32.0	32.0	31.1	30.2	29.2	29.2	28.4	27.5	26.5	24.8
80°	22.0	22.0	22.0	22.0	21.0	20.1	20.1	19.2	19.2	18.4	16.5
82.5°	14.6	14.6	14.6	14.6	13.8	13.8	13.8	12.9	11.9	11.9	10.1
85°	10.1	10.1	9.1	9.1	9.1	9.1	8.2	8.2	7.4	6.4	6.4
87.5°	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6	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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	652.0	652.0	651.1	648.4	649.2	648.4	649.2	648.4	645.6	648.4	645.6
5°	655.6	656.6	654.8	651.1	652.0	651.1	651.1	650.1	647.4	649.2	647.4
7.5°	659.4	658.4	657.5	653.9	654.8	653.9	653.9	652.0	649.2	651.1	648.4
10°	661.1	661.1	659.4	655.6	655.6	654.8	655.6	654.8	651.1	653.9	652.0
12.5°	661.1	660.2	660.2	655.6	656.6	655.6	656.6	654.8	652.0	653.9	652.9
15°	658.4	658.4	657.5	652.9	653.9	653.9	654.8	652.9	650.1	652.9	651.1
17.5°	652.9	652.9	652.0	648.4	650.1	650.1	651.1	649.2	646.5	648.4	648.4
20°	641.9	642.9	642.9	640.1	641.9	641.9	642.9	641.9	641.0	641.9	640.1
22.5°	629.1	630.9	630.9	628.1	630.0	630.0	632.8	631.9	630.0	630.9	630.0
25°	609.9	611.8	613.5	611.8	613.5	613.5	616.2	615.4	613.5	615.4	612.6
27.5°	587.9	588.8	590.6	588.8	591.5	590.6	593.4	592.5	589.8	592.5	591.5
30°	556.8	560.4	563.1	560.4	563.1	563.1	565.0	564.1	563.1	562.2	562.2
32.5°	522.0	525.6	525.6	524.8	526.5	526.5	527.5	525.6	524.8	525.6	526.5
35°	478.9	480.8	482.6	481.6	482.6	483.5	482.6	483.5	480.8	481.6	481.6
37.5°	432.2	434.0	434.0	431.2	433.1	433.1	431.2	431.2	429.5	431.2	427.6
40°	382.8	380.9	381.9	380.0	378.2	378.2	377.2	373.6	371.8	372.8	373.6
42.5°	334.2	334.2	331.5	326.9	322.4	322.4	319.6	317.8	314.1	315.9	315.0
45°	293.0	288.5	284.8	277.5	274.8	272.9	268.2	263.8	261.9	262.8	261.9
47.5°	253.6	250.0	240.9	230.8	228.0	225.2	219.8	214.2	212.5	210.6	210.6
50°	220.6	214.2	204.2	193.2	188.6	184.0	176.8	171.2	167.6	168.5	168.5
52.5°	190.5	183.1	171.2	157.5	152.0	146.5	140.1	133.8	131.0	130.0	130.0
55°	163.9	155.6	143.8	128.2	123.6	117.2	109.0	101.6	98.0	97.1	98.9
57.5°	140.1	132.8	119.0	103.5	98.0	91.6	83.4	76.9	72.4	71.4	72.4
60°	120.9	110.8	98.9	84.2	76.9	71.4	62.2	56.8	52.2	50.4	51.2
62.5°	101.6	92.5	80.6	65.9	60.4	55.0	46.8	40.2	36.6	35.8	36.6
65°	87.0	77.9	66.9	54.0	48.5	43.0	35.8	29.2	26.5	25.6	26.5
67.5°	72.4	64.1	55.0	43.0	38.5	33.9	26.5	22.0	18.4	17.4	18.4
70°	58.6	51.2	42.1	33.9	29.2	25.6	20.1	15.6	12.9	11.9	12.9
72.5°	44.0	38.5	32.0	24.8	22.0	19.2	14.6	11.0	9.1	8.2	9.1
75°	32.0	27.5	22.9	17.4	15.6	13.8	10.1	7.4	6.4	5.5	6.4
77.5°	22.0	19.2	15.6	11.9	10.1	9.1	6.4	5.5	4.6	3.6	3.6
80°	14.6	12.9	10.1	8.2	7.4	6.4	4.6	3.6	2.8	2.8	2.8
82.5°	9.1	7.4	6.4	4.6	3.6	3.6	2.8	1.9	1.9	1.9	1.9
85°	5.5	4.6	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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	647.4	645.6	645.6	646.5	647.4	648.4	646.5	645.6	645.6	648.4	646.5
5°	647.4	646.5	646.5	646.5	648.4	649.2	647.4	646.5	647.4	650.1	649.2
7.5°	650.1	648.4	649.2	649.2	650.1	652.0	650.1	649.2	650.1	652.9	651.1
10°	652.0	650.1	651.1	650.1	652.9	653.9	652.0	651.1	652.0	655.6	654.8
12.5°	652.9	652.0	652.0	651.1	653.9	654.8	652.9	652.0	652.9	655.6	654.8
15°	651.1	650.1	650.1	650.1	652.0	653.9	651.1	650.1	650.1	652.9	652.0
17.5°	647.4	645.6	645.6	645.6	646.5	647.4	644.6	643.8	642.9	645.6	644.6
20°	641.0	639.1	637.4	637.4	638.2	638.2	636.4	633.6	633.6	634.6	632.8
22.5°	629.1	628.1	626.4	625.4	627.2	626.4	622.6	620.0	619.0	620.0	618.1
25°	612.6	610.8	609.9	609.0	609.9	609.0	605.2	601.6	601.6	601.6	598.9
27.5°	589.8	587.9	587.0	587.0	587.9	586.0	582.4	578.8	576.9	576.9	574.1
30°	560.4	560.4	559.5	558.6	557.6	557.6	552.1	548.5	546.6	547.6	545.8
32.5°	524.8	523.8	522.9	520.1	521.0	520.1	515.5	512.8	510.0	508.2	507.2
35°	478.9	478.9	478.0	478.0	478.0	477.1	472.5	469.8	467.9	467.0	464.2
37.5°	428.5	427.6	426.8	426.8	426.8	426.8	424.0	421.2	421.2	420.4	418.5
40°	371.8	372.8	373.6	372.8	375.5	378.2	374.5	372.8	371.8	374.5	370.9
42.5°	316.9	315.9	320.5	321.4	321.4	326.0	326.9	327.9	326.9	328.8	328.8
45°	263.8	262.8	267.4	269.2	273.8	279.2	282.0	286.6	288.5	290.2	288.5
47.5°	213.4	217.0	220.6	225.2	228.9	238.1	243.6	248.1	250.0	252.8	252.8
50°	171.2	174.9	181.2	185.0	189.5	200.5	209.8	216.1	219.8	222.5	221.6
52.5°	131.9	138.2	146.5	150.1	156.6	169.4	179.5	186.8	191.4	194.1	195.0
55°	101.6	107.1	115.4	120.9	127.2	141.0	153.9	162.1	166.6	170.4	172.1
57.5°	75.1	81.5	90.6	95.2	102.5	118.1	129.1	139.2	144.6	149.2	150.1
60°	55.0	61.4	69.6	75.1	82.4	98.0	110.8	120.0	126.4	130.0	131.9
62.5°	39.4	45.8	54.0	59.5	65.9	79.6	92.5	101.6	108.0	112.6	115.4
65°	28.4	34.8	43.0	47.6	53.1	65.9	77.9	87.0	93.4	98.9	100.8
67.5°	21.0	25.6	33.0	37.5	43.0	53.1	63.1	71.4	77.9	82.4	84.2
70°	15.6	19.2	25.6	28.4	32.0	41.2	49.5	56.8	62.2	65.9	67.8
72.5°	11.0	13.8	18.4	21.0	23.8	31.1	37.5	43.0	46.8	50.4	52.2
75°	7.4	9.1	12.9	14.6	16.5	22.0	26.5	31.1	33.9	36.6	37.5
77.5°	4.6	6.4	9.1	10.1	11.9	14.6	18.4	21.0	22.9	24.8	26.5
80°	2.8	3.6	5.5	6.4	7.4	10.1	11.9	13.8	15.6	17.4	18.4
82.5°	1.9	2.8	3.6	3.6	4.6	5.5	7.4	9.1	10.1	11.0	11.9
85°	0.9	0.9	1.9	1.9	2.8	2.8	3.6	4.6	5.5	6.4	7.4
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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	644.6	647.4	644.6	646.5	645.6	645.6	644.6	645.6
5°	647.4	651.1	647.4	650.1	648.4	648.4	648.4	649.2
7.5°	650.1	653.9	651.1	653.9	652.9	652.0	652.0	653.9
10°	652.9	655.6	653.9	656.6	655.6	654.8	654.8	656.6
12.5°	652.9	656.6	654.8	657.5	656.6	655.6	655.6	656.6
15°	650.1	654.8	652.0	654.8	653.9	652.9	652.9	654.8
17.5°	641.9	645.6	643.8	645.6	645.6	644.6	645.6	646.5
20°	630.9	633.6	631.9	633.6	633.6	631.9	632.8	633.6
22.5°	615.4	618.1	616.2	618.1	617.2	616.2	616.2	615.4
25°	596.1	599.8	597.0	598.9	597.0	595.2	595.2	596.1
27.5°	572.4	575.1	571.4	573.2	571.4	569.6	569.6	568.6
30°	541.2	542.1	539.4	541.2	539.4	538.5	536.6	536.6
32.5°	503.6	504.5	501.8	501.8	500.0	500.0	496.4	499.1
35°	459.8	460.6	459.8	458.8	456.0	455.1	454.2	454.2
37.5°	413.9	413.9	411.1	410.2	408.4	406.6	407.5	404.8
40°	367.2	366.2	363.5	364.5	363.5	360.8	359.9	359.0
42.5°	323.2	323.2	320.5	321.4	319.6	318.6	315.9	316.9
45°	284.8	284.8	282.0	282.0	281.1	278.4	279.2	277.5
47.5°	250.0	250.0	249.1	249.1	246.4	245.4	245.4	245.4
50°	219.8	219.8	219.8	219.8	218.9	218.0	217.0	218.0
52.5°	194.1	196.0	195.0	195.0	194.1	193.2	192.2	192.2
55°	171.2	172.1	172.1	173.1	172.1	171.2	172.1	171.2
57.5°	151.1	152.9	152.9	152.9	152.9	152.9	152.0	151.1
60°	133.8	134.6	134.6	135.5	135.5	135.5	134.6	134.6
62.5°	116.2	118.1	119.0	119.0	120.0	119.0	119.0	119.0
65°	102.5	104.4	105.2	104.4	105.2	105.2	104.4	104.4
67.5°	86.1	87.9	87.9	87.9	87.9	88.9	87.9	87.9
70°	69.6	71.4	70.5	71.4	71.4	71.4	71.4	71.4
72.5°	53.1	54.0	55.0	55.0	55.9	55.0	55.0	55.0
75°	38.5	40.2	40.2	40.2	40.2	41.2	41.2	41.2
77.5°	27.5	28.4	28.4	29.2	29.2	29.2	29.2	30.2
80°	19.2	19.2	20.1	20.1	21.0	21.0	21.0	21.0
82.5°	12.9	13.8	13.8	13.8	13.8	13.8	13.8	13.8
85°	7.4	8.2	8.2	8.2	8.2	9.1	9.1	9.1
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	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)