

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: io LED

Report Number: P252661

Luminaire Tested: **LD6B15D010 EU6B10208027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252661
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: io LED
Catalog Number: LD6B15D010 EU6B10208027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1310.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

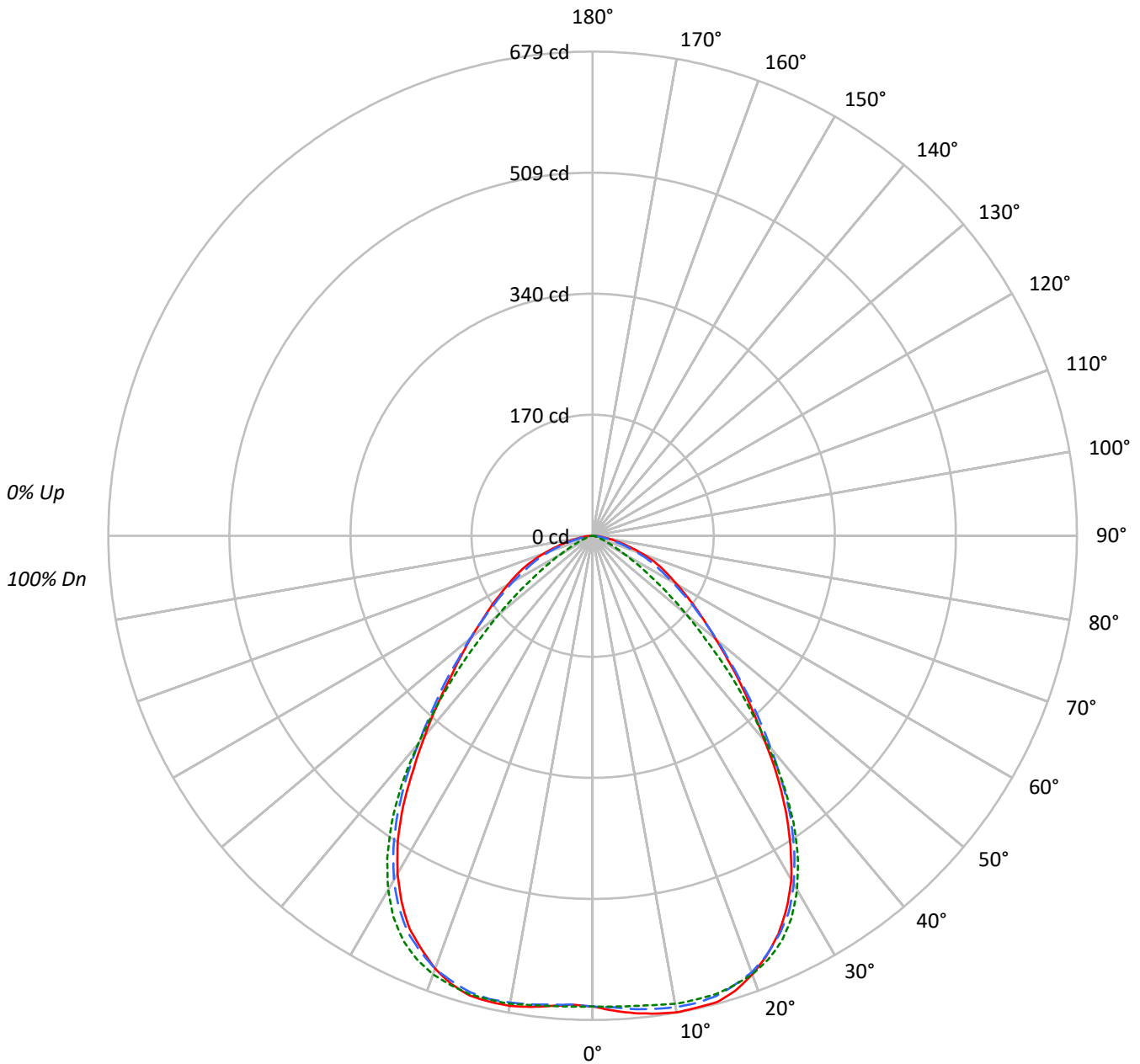
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	43059	43059	43059
5°	44016	43348	43348
10°	44962	44154	44339
15°	45712	44956	45084
20°	45433	45433	44850
25°	44350	45156	43745
30°	41983	43181	41207
35°	37624	39105	36875
40°	31963	32354	31162
45°	27043	24718	26102
50°	22837	17437	22552
55°	20064	11261	19860
60°	17785	6694	17902
65°	16425	4029	16425
70°	14249	2308	13887
75°	11293	1412	10587
80°	8416	1052	8078
85°	7710	674	6962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	4.9
10°-20°	188.1	14.4
20°-30°	282.8	21.6
30°-40°	297.4	22.7
40°-50°	222.1	17.0
50°-60°	138.3	10.6
60°-70°	78.7	6.0
70°-80°	32.4	2.5
80°-90°	6.7	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°	534.4	40.8
0°-40°	831.8	63.5
0°-60°	1192.2	91.0
0°-90°	1310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1310.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	660	660	660	660	660	
5°	672	666	662	660	662	64
15°	677	668	666	663	668	190
25°	616	618	627	613	608	282
35°	472	484	491	477	463	293
45°	293	300	268	294	283	227
55°	176	173	99	170	175	159
65°	106	95	26	95	106	105
75°	45	36	6	34	42	49
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°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	666.5	665.6	666.5	664.7	663.7	663.7	664.7	662.8	661.9	662.8	661.9
5°	672.1	670.3	671.2	670.3	668.4	668.4	669.3	666.5	666.5	667.5	666.5
7.5°	675.9	675.9	675.9	674.0	673.1	672.1	674.0	671.2	670.3	670.3	669.3
10°	678.7	677.7	678.7	676.8	674.9	674.0	675.9	674.0	672.1	674.0	671.2
12.5°	677.7	677.7	677.7	676.8	674.9	674.0	675.9	673.1	672.1	673.1	671.2
15°	676.8	674.0	674.9	674.0	671.2	671.2	672.1	669.3	667.5	670.3	668.4
17.5°	668.4	666.5	667.5	665.6	663.7	662.8	663.7	662.8	660.9	662.8	660.9
20°	654.4	654.4	655.3	653.5	651.6	650.7	652.5	650.7	648.8	651.6	651.6
22.5°	637.6	637.6	637.6	636.7	635.7	635.7	635.7	634.8	633.9	635.7	636.7
25°	616.1	615.2	616.1	617.1	616.1	615.2	616.1	616.1	614.3	618.0	618.0
27.5°	589.1	589.1	590.9	590.0	590.0	589.1	590.9	590.9	590.0	592.8	595.6
30°	557.3	555.5	557.3	557.3	558.3	558.3	559.2	559.2	559.2	562.0	563.9
32.5°	516.2	517.2	520.0	519.0	518.1	520.9	520.9	522.8	523.7	525.6	526.5
35°	472.4	473.3	473.3	474.2	476.1	474.2	478.9	478.0	478.9	482.6	484.5
37.5°	425.7	422.9	427.6	425.7	426.6	426.6	428.5	429.4	432.2	436.9	436.9
40°	375.3	376.2	378.1	379.0	379.9	379.9	379.9	382.7	383.7	389.3	388.3
42.5°	331.4	331.4	333.3	334.2	334.2	334.2	334.2	337.0	338.9	340.7	342.6
45°	293.1	290.3	292.2	292.2	294.1	293.1	295.0	296.9	297.8	300.6	299.7
47.5°	256.7	255.8	256.7	257.7	256.7	257.7	258.6	259.5	260.5	260.5	260.5
50°	225.0	225.0	225.9	226.8	226.8	226.8	226.8	227.8	227.8	229.6	227.8
52.5°	198.8	199.8	199.8	198.8	199.8	199.8	200.7	200.7	199.8	199.8	197.0
55°	176.4	175.5	176.4	175.5	176.4	176.4	175.5	175.5	174.6	173.6	172.7
57.5°	155.0	155.0	155.0	155.0	154.0	155.0	154.0	153.1	153.1	151.2	148.4
60°	136.3	136.3	136.3	136.3	136.3	135.4	136.3	135.4	133.5	131.6	127.9
62.5°	120.4	119.5	120.4	119.5	119.5	118.6	118.6	117.6	115.8	113.9	110.2
65°	106.4	107.4	106.4	106.4	105.5	104.6	104.6	103.6	100.8	99.0	95.2
67.5°	91.5	90.6	90.6	90.6	89.6	89.6	89.6	87.8	85.9	83.1	79.4
70°	74.7	74.7	74.7	73.7	73.7	72.8	72.8	71.9	70.0	68.1	63.5
72.5°	58.8	58.8	58.8	56.9	57.9	56.9	56.9	55.1	54.1	51.3	48.5
75°	44.8	44.8	43.9	43.9	42.9	42.0	42.0	41.1	40.1	38.3	35.5
77.5°	32.7	32.7	32.7	31.7	30.8	29.9	29.9	28.9	28.0	27.1	25.2
80°	22.4	22.4	22.4	22.4	21.5	20.5	20.5	19.6	19.6	18.7	16.8
82.5°	14.9	14.9	14.9	14.9	14.0	14.0	14.0	13.1	12.1	12.1	10.3
85°	10.3	10.3	9.3	9.3	9.3	9.3	8.4	8.4	7.5	6.5	6.5
87.5°	5.6	5.6	5.6	5.6	4.7	4.7	4.7	4.7	3.7	3.7	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°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	664.7	664.7	663.7	660.9	661.9	660.9	661.9	660.9	658.1	660.9	658.1
5°	668.4	669.3	667.5	663.7	664.7	663.7	663.7	662.8	660.0	661.9	660.0
7.5°	672.1	671.2	670.3	666.5	667.5	666.5	666.5	664.7	661.9	663.7	660.9
10°	674.0	674.0	672.1	668.4	668.4	667.5	668.4	667.5	663.7	666.5	664.7
12.5°	674.0	673.1	673.1	668.4	669.3	668.4	669.3	667.5	664.7	666.5	665.6
15°	671.2	671.2	670.3	665.6	666.5	666.5	667.5	665.6	662.8	665.6	663.7
17.5°	665.6	665.6	664.7	660.9	662.8	662.8	663.7	661.9	659.1	660.9	660.9
20°	654.4	655.3	655.3	652.5	654.4	654.4	655.3	654.4	653.5	654.4	652.5
22.5°	641.3	643.2	643.2	640.4	642.3	642.3	645.1	644.1	642.3	643.2	642.3
25°	621.7	623.6	625.5	623.6	625.5	625.5	628.3	627.3	625.5	627.3	624.5
27.5°	599.3	600.3	602.1	600.3	603.1	602.1	604.9	604.0	601.2	604.0	603.1
30°	567.6	571.3	574.1	571.3	574.1	574.1	576.0	575.1	574.1	573.2	573.2
32.5°	532.1	535.8	535.8	534.9	536.8	536.8	537.7	535.8	534.9	535.8	536.8
35°	488.2	490.1	492.0	491.0	492.0	492.9	492.0	492.9	490.1	491.0	491.0
37.5°	440.6	442.5	442.5	439.7	441.6	441.6	439.7	439.7	437.8	439.7	436.0
40°	390.2	388.3	389.3	387.4	385.5	385.5	384.6	380.9	379.0	379.9	380.9
42.5°	340.7	340.7	337.9	333.3	328.6	328.6	325.8	323.9	320.2	322.1	321.1
45°	298.7	294.1	290.3	282.9	280.1	278.2	273.5	268.9	267.0	267.9	267.0
47.5°	258.6	254.9	245.5	235.2	232.4	229.6	224.0	218.4	216.6	214.7	214.7
50°	225.0	218.4	208.2	197.0	192.3	187.6	180.2	174.6	170.8	171.8	171.8
52.5°	194.2	186.7	174.6	160.6	155.0	149.4	142.8	136.3	133.5	132.6	132.6
55°	167.1	158.7	146.6	130.7	126.0	119.5	111.1	103.6	99.9	99.0	100.8
57.5°	142.8	135.4	121.4	105.5	99.9	93.4	85.0	78.4	73.7	72.8	73.7
60°	123.2	113.0	100.8	85.9	78.4	72.8	63.5	57.9	53.2	51.3	52.3
62.5°	103.6	94.3	82.2	67.2	61.6	56.0	47.6	41.1	37.3	36.4	37.3
65°	88.7	79.4	68.1	55.1	49.5	43.9	36.4	29.9	27.1	26.1	27.1
67.5°	73.7	65.3	56.0	43.9	39.2	34.5	27.1	22.4	18.7	17.7	18.7
70°	59.7	52.3	42.9	34.5	29.9	26.1	20.5	15.9	13.1	12.1	13.1
72.5°	44.8	39.2	32.7	25.2	22.4	19.6	14.9	11.2	9.3	8.4	9.3
75°	32.7	28.0	23.3	17.7	15.9	14.0	10.3	7.5	6.5	5.6	6.5
77.5°	22.4	19.6	15.9	12.1	10.3	9.3	6.5	5.6	4.7	3.7	3.7
80°	14.9	13.1	10.3	8.4	7.5	6.5	4.7	3.7	2.8	2.8	2.8
82.5°	9.3	7.5	6.5	4.7	3.7	3.7	2.8	1.9	1.9	1.9	1.9
85°	5.6	4.7	3.7	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°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	660.0	658.1	658.1	659.1	660.0	660.9	659.1	658.1	658.1	660.9	659.1
5°	660.0	659.1	659.1	659.1	660.9	661.9	660.0	659.1	660.0	662.8	661.9
7.5°	662.8	660.9	661.9	661.9	662.8	664.7	662.8	661.9	662.8	665.6	663.7
10°	664.7	662.8	663.7	662.8	665.6	666.5	664.7	663.7	664.7	668.4	667.5
12.5°	665.6	664.7	664.7	663.7	666.5	667.5	665.6	664.7	665.6	668.4	667.5
15°	663.7	662.8	662.8	662.8	664.7	666.5	663.7	662.8	662.8	665.6	664.7
17.5°	660.0	658.1	658.1	658.1	659.1	660.0	657.2	656.3	655.3	658.1	657.2
20°	653.5	651.6	649.7	649.7	650.7	650.7	648.8	646.0	646.0	646.9	645.1
22.5°	641.3	640.4	638.5	637.6	639.5	638.5	634.8	632.0	631.1	632.0	630.1
25°	624.5	622.7	621.7	620.8	621.7	620.8	617.1	613.3	613.3	613.3	610.5
27.5°	601.2	599.3	598.4	598.4	599.3	597.5	593.7	590.0	588.1	588.1	585.3
30°	571.3	571.3	570.4	569.5	568.5	568.5	562.9	559.2	557.3	558.3	556.4
32.5°	534.9	534.0	533.0	530.2	531.2	530.2	525.6	522.8	520.0	518.1	517.2
35°	488.2	488.2	487.3	487.3	487.3	486.4	481.7	478.9	477.0	476.1	473.3
37.5°	436.9	436.0	435.0	435.0	435.0	435.0	432.2	429.4	429.4	428.5	426.6
40°	379.0	379.9	380.9	379.9	382.7	385.5	381.8	379.9	379.0	381.8	378.1
42.5°	323.0	322.1	326.7	327.7	327.7	332.3	333.3	334.2	333.3	335.1	335.1
45°	268.9	267.9	272.6	274.5	279.1	284.7	287.5	292.2	294.1	295.9	294.1
47.5°	217.5	221.2	225.0	229.6	233.4	242.7	248.3	253.0	254.9	257.7	257.7
50°	174.6	178.3	184.8	188.6	193.2	204.4	213.8	220.3	224.0	226.8	225.9
52.5°	134.4	141.0	149.4	153.1	159.6	172.7	183.0	190.4	195.1	197.9	198.8
55°	103.6	109.2	117.6	123.2	129.8	143.8	156.8	165.2	169.9	173.6	175.5
57.5°	76.5	83.1	92.4	97.1	104.6	120.4	131.6	141.9	147.5	152.2	153.1
60°	56.0	62.5	70.9	76.5	84.0	99.9	113.0	122.3	128.8	132.6	134.4
62.5°	40.1	46.7	55.1	60.7	67.2	81.2	94.3	103.6	110.2	114.8	117.6
65°	28.9	35.5	43.9	48.5	54.1	67.2	79.4	88.7	95.2	100.8	102.7
67.5°	21.5	26.1	33.6	38.3	43.9	54.1	64.4	72.8	79.4	84.0	85.9
70°	15.9	19.6	26.1	28.9	32.7	42.0	50.4	57.9	63.5	67.2	69.1
72.5°	11.2	14.0	18.7	21.5	24.3	31.7	38.3	43.9	47.6	51.3	53.2
75°	7.5	9.3	13.1	14.9	16.8	22.4	27.1	31.7	34.5	37.3	38.3
77.5°	4.7	6.5	9.3	10.3	12.1	14.9	18.7	21.5	23.3	25.2	27.1
80°	2.8	3.7	5.6	6.5	7.5	10.3	12.1	14.0	15.9	17.7	18.7
82.5°	1.9	2.8	3.7	3.7	4.7	5.6	7.5	9.3	10.3	11.2	12.1
85°	0.9	0.9	1.9	1.9	2.8	2.8	3.7	4.7	5.6	6.5	7.5
87.5°	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	2.8	3.7	3.7
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°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	657.2	660.0	657.2	659.1	658.1	658.1	657.2	658.1
5°	660.0	663.7	660.0	662.8	660.9	660.9	660.9	661.9
7.5°	662.8	666.5	663.7	666.5	665.6	664.7	664.7	666.5
10°	665.6	668.4	666.5	669.3	668.4	667.5	667.5	669.3
12.5°	665.6	669.3	667.5	670.3	669.3	668.4	668.4	669.3
15°	662.8	667.5	664.7	667.5	666.5	665.6	665.6	667.5
17.5°	654.4	658.1	656.3	658.1	658.1	657.2	658.1	659.1
20°	643.2	646.0	644.1	646.0	646.0	644.1	645.1	646.0
22.5°	627.3	630.1	628.3	630.1	629.2	628.3	628.3	627.3
25°	607.7	611.5	608.7	610.5	608.7	606.8	606.8	607.7
27.5°	583.5	586.3	582.5	584.4	582.5	580.7	580.7	579.7
30°	551.7	552.7	549.8	551.7	549.8	548.9	547.0	547.0
32.5°	513.4	514.4	511.6	511.6	509.7	509.7	506.0	508.8
35°	468.6	469.6	468.6	467.7	464.9	464.0	463.0	463.0
37.5°	422.0	422.0	419.2	418.2	416.4	414.5	415.4	412.6
40°	374.3	373.4	370.6	371.5	370.6	367.8	366.9	365.9
42.5°	329.5	329.5	326.7	327.7	325.8	324.9	322.1	323.0
45°	290.3	290.3	287.5	287.5	286.6	283.8	284.7	282.9
47.5°	254.9	254.9	253.9	253.9	251.1	250.2	250.2	250.2
50°	224.0	224.0	224.0	224.0	223.1	222.2	221.2	222.2
52.5°	197.9	199.8	198.8	198.8	197.9	197.0	196.0	196.0
55°	174.6	175.5	175.5	176.4	175.5	174.6	175.5	174.6
57.5°	154.0	155.9	155.9	155.9	155.9	155.9	155.0	154.0
60°	136.3	137.2	137.2	138.2	138.2	138.2	137.2	137.2
62.5°	118.6	120.4	121.4	121.4	122.3	121.4	121.4	121.4
65°	104.6	106.4	107.4	106.4	107.4	107.4	106.4	106.4
67.5°	87.8	89.6	89.6	89.6	89.6	90.6	89.6	89.6
70°	70.9	72.8	71.9	72.8	72.8	72.8	72.8	72.8
72.5°	54.1	55.1	56.0	56.0	56.9	56.0	56.0	56.0
75°	39.2	41.1	41.1	41.1	41.1	42.0	42.0	42.0
77.5°	28.0	28.9	28.9	29.9	29.9	29.9	29.9	30.8
80°	19.6	19.6	20.5	20.5	21.5	21.5	21.5	21.5
82.5°	13.1	14.0	14.0	14.0	14.0	14.0	14.0	14.0
85°	7.5	8.4	8.4	8.4	8.4	9.3	9.3	9.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.7	3.7
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)