

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: P252453

Luminaire Tested: **LD6B15D010 EU6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252453  
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: io LED  
Catalog Number: LD6B15D010 EU6B10208027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS 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: 1191.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

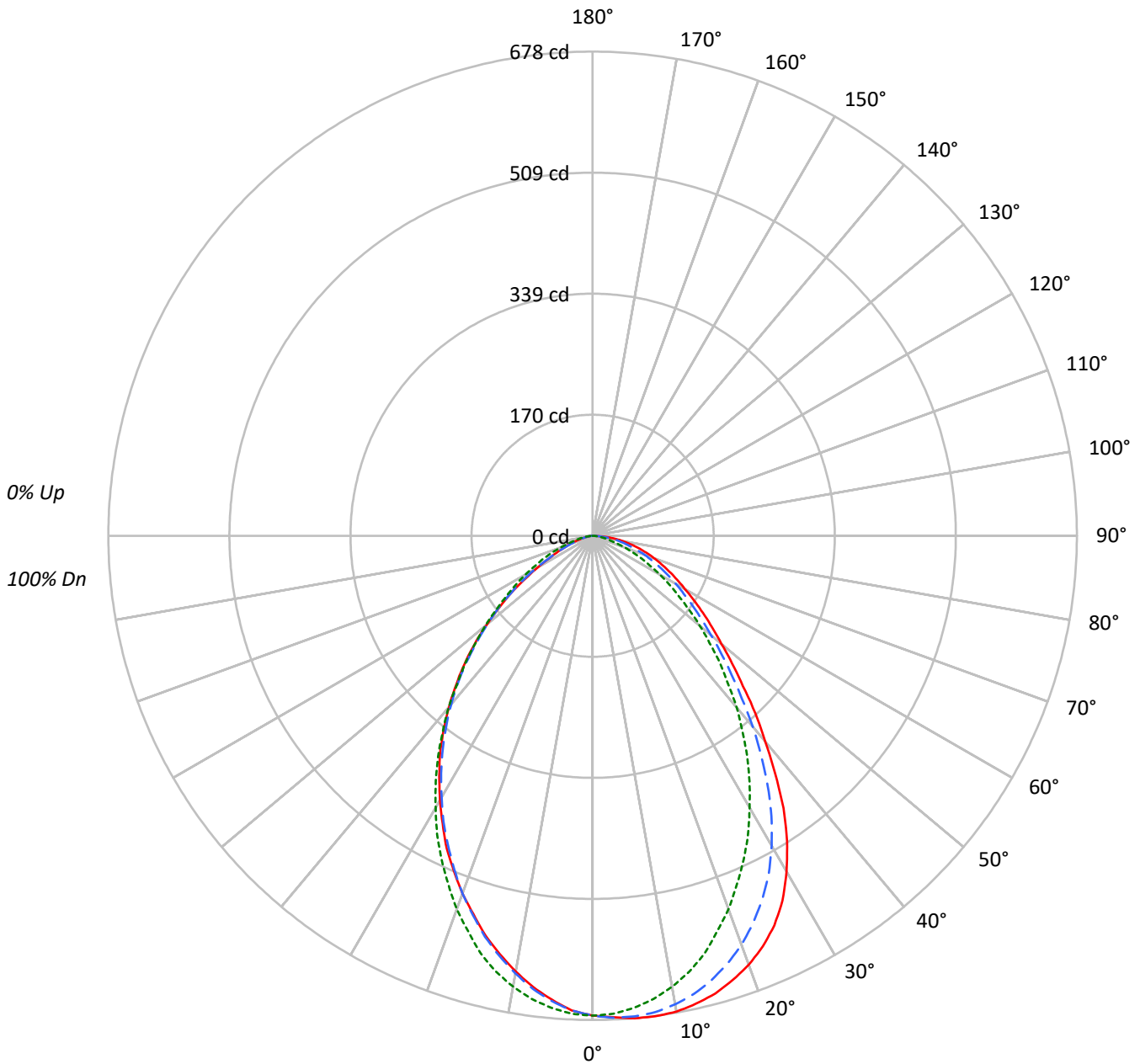
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	43835	43835	43835
5°	44428	43453	42719
10°	44823	42471	41047
15°	44814	40903	39141
20°	44378	38616	36998
25°	43328	36007	34798
30°	40914	33109	32197
35°	37090	30026	29651
40°	32031	26708	26623
45°	27467	23251	23417
50°	23872	19893	19609
55°	21441	16766	15708
60°	19481	14131	11574
65°	18293	11671	8506
70°	17454	9080	6238
75°	16712	6579	4235
80°	15780	4546	2818
85°	13998	2770	1422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	5.3
10°-20°	172.1	14.5
20°-30°	239.0	20.1
30°-40°	247.5	20.8
40°-50°	203.4	17.1
50°-60°	139.8	11.7
60°-70°	80.4	6.7
70°-80°	36.9	3.1
80°-90°	9.0	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°	474.0	39.8
0°-40°	721.5	60.6
0°-60°	1064.7	89.4
0°-90°	1191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	672	672	672	672	672	
5°	678	676	664	654	652	65
15°	664	644	606	581	580	187
25°	602	562	500	479	483	275
35°	466	427	377	366	372	289
45°	298	275	252	249	254	232
55°	188	171	147	139	138	170
65°	118	104	76	53	55	118
75°	66	52	26	17	17	70
85°	19	13	4	2	2	21
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°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	674.7	680.3	676.6	675.6	677.5	677.5	677.5	674.7	676.6	673.8	675.6
5°	678.4	683.1	679.4	677.5	679.4	680.3	677.5	675.6	678.4	674.7	675.6
7.5°	678.4	683.1	679.4	678.4	679.4	679.4	678.4	674.7	676.6	672.8	672.8
10°	676.6	680.3	676.6	674.7	675.6	674.7	674.7	670.0	671.0	666.3	666.3
12.5°	671.0	675.6	671.0	669.1	669.1	669.1	666.3	662.6	663.5	657.9	657.0
15°	663.5	667.2	662.6	660.7	660.7	659.8	657.9	652.3	652.3	646.7	643.9
17.5°	652.3	656.0	652.3	649.5	648.6	646.7	644.8	639.2	637.4	630.8	628.0
20°	639.2	642.0	638.3	635.5	633.6	631.8	628.0	622.4	620.6	614.0	609.4
22.5°	622.4	626.2	620.6	617.8	615.9	613.1	609.4	603.8	601.0	592.6	587.0
25°	601.9	603.8	599.1	596.3	592.6	590.7	587.9	580.4	577.6	568.3	561.8
27.5°	575.8	577.6	572.0	570.2	565.5	563.6	559.9	553.4	549.7	540.3	533.8
30°	543.1	545.0	541.3	538.5	534.7	531.0	528.2	521.7	516.1	506.7	501.1
32.5°	506.7	509.5	505.8	502.1	495.5	496.5	491.8	485.3	480.6	472.2	465.7
35°	465.7	467.5	462.9	461.9	458.2	454.5	449.8	445.1	442.3	433.0	427.4
37.5°	419.9	424.6	419.9	416.2	414.3	411.5	408.7	402.2	400.3	394.7	387.3
40°	376.1	378.9	376.1	372.3	369.5	369.5	365.8	362.1	357.4	351.8	349.0
42.5°	336.9	335.0	334.1	332.2	328.5	327.6	326.6	322.0	319.2	313.6	308.9
45°	297.7	298.6	296.8	295.8	293.0	291.2	289.3	285.6	284.6	279.0	275.3
47.5°	265.0	264.1	262.2	262.2	260.4	258.5	256.6	253.8	252.9	248.2	244.5
50°	235.2	236.1	235.2	234.2	231.4	230.5	228.6	226.8	224.9	220.2	216.5
52.5°	210.9	210.0	209.0	209.0	206.2	205.3	203.4	201.6	199.7	195.0	192.2
55°	188.5	188.5	187.6	186.6	183.8	182.9	182.0	180.1	177.3	173.6	170.8
57.5°	168.0	168.0	167.0	166.1	164.2	164.2	162.4	160.5	158.6	154.9	151.2
60°	149.3	150.2	149.3	148.4	146.5	146.5	145.6	142.8	141.8	137.2	134.4
62.5°	133.4	133.4	133.4	132.5	131.6	129.7	129.7	126.9	125.0	122.2	118.5
65°	118.5	118.5	118.5	117.6	115.7	114.8	113.8	112.0	110.1	107.3	103.6
67.5°	104.5	104.5	104.5	103.6	101.7	100.8	99.9	98.9	96.1	93.3	89.6
70°	91.5	91.5	90.5	89.6	88.7	87.7	86.8	84.9	83.1	79.3	76.5
72.5°	78.4	78.4	78.4	76.5	75.6	75.6	73.7	72.8	70.9	67.2	64.4
75°	66.3	65.3	65.3	64.4	63.5	62.5	61.6	60.7	57.9	56.0	52.3
77.5°	54.1	54.1	53.2	52.3	52.3	51.3	50.4	48.5	47.6	44.8	42.0
80°	42.0	42.0	42.0	42.0	41.1	40.1	40.1	38.3	37.3	34.5	32.7
82.5°	31.7	30.8	30.8	30.8	29.9	28.9	28.9	28.0	27.1	25.2	23.3
85°	18.7	17.7	17.7	17.7	16.8	16.8	15.9	15.9	14.9	13.1	13.1
87.5°	5.6	5.6	6.5	6.5	5.6	5.6	5.6	5.6	5.6	4.7	4.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	673.8	676.6	672.8	671.9	675.6	673.8	672.8	671.0	671.9	670.0	667.2
5°	672.8	676.6	671.9	669.1	673.8	671.0	669.1	667.2	667.2	663.5	661.6
7.5°	670.0	671.9	667.2	664.4	667.2	664.4	662.6	659.8	658.8	654.2	651.4
10°	662.6	664.4	658.8	655.1	657.9	654.2	651.4	648.6	646.7	641.1	637.4
12.5°	652.3	653.2	646.7	642.0	643.9	641.1	636.4	632.7	630.8	625.2	620.6
15°	638.3	639.2	631.8	625.2	627.1	623.4	617.8	614.0	611.2	605.6	599.1
17.5°	621.5	620.6	612.2	605.6	606.6	601.9	596.3	590.7	587.0	580.4	575.8
20°	602.8	600.0	590.7	583.2	584.2	578.6	572.0	566.4	561.8	556.2	549.7
22.5°	579.5	575.8	567.4	558.1	559.0	554.3	545.0	540.3	535.7	528.2	522.6
25°	554.3	548.7	540.3	531.0	531.0	525.4	517.9	512.3	507.7	500.2	493.7
27.5°	524.5	521.7	510.5	503.0	502.1	496.5	489.9	483.4	477.8	471.3	464.7
30°	491.8	487.1	478.7	470.3	468.5	463.8	457.3	449.8	446.1	439.5	433.9
32.5°	457.3	452.6	443.3	434.9	433.9	430.2	424.6	417.1	413.4	408.7	405.0
35°	418.1	416.2	406.9	400.3	400.3	396.6	391.0	384.5	381.7	377.0	372.3
37.5°	380.7	377.9	369.5	363.9	363.9	359.3	353.7	350.9	348.1	344.3	341.5
40°	341.5	339.7	333.2	327.6	328.5	324.8	321.0	317.3	315.4	313.6	310.8
42.5°	305.2	303.3	298.6	294.0	294.0	291.2	287.4	284.6	282.8	280.0	279.0
45°	272.5	269.7	266.0	261.3	261.3	258.5	256.6	254.8	253.8	252.0	249.2
47.5°	240.8	238.9	235.2	230.5	230.5	230.5	226.8	224.0	224.0	222.1	221.2
50°	213.7	210.9	208.1	204.4	204.4	202.5	199.7	196.9	196.9	196.0	194.1
52.5°	188.5	186.6	182.9	179.2	179.2	177.3	174.5	173.6	172.6	169.8	168.9
55°	167.0	165.2	162.4	157.7	156.8	155.8	153.0	151.2	150.2	147.4	147.4
57.5°	147.4	145.6	140.9	138.1	137.2	135.3	132.5	130.6	129.7	127.8	126.0
60°	130.6	127.8	124.1	120.4	119.4	117.6	114.8	112.9	112.0	108.3	106.4
62.5°	114.8	112.0	108.3	104.5	103.6	101.7	98.0	96.1	94.3	90.5	88.7
65°	99.9	97.1	93.3	89.6	87.7	86.8	83.1	80.3	78.4	75.6	71.9
67.5°	85.9	83.1	79.3	74.7	74.7	71.9	69.1	66.3	63.5	60.7	57.9
70°	72.8	70.0	66.3	62.5	61.6	59.7	56.9	53.2	51.3	47.6	44.8
72.5°	60.7	57.9	54.1	50.4	49.5	47.6	44.8	41.1	38.3	35.5	32.7
75°	49.5	46.7	42.9	40.1	39.2	37.3	34.5	30.8	28.0	26.1	23.3
77.5°	39.2	36.4	33.6	30.8	29.9	28.0	25.2	23.3	20.5	18.7	15.9
80°	29.9	28.0	25.2	23.3	22.4	20.5	18.7	15.9	14.0	12.1	11.2
82.5°	21.5	19.6	17.7	14.9	14.9	13.1	12.1	10.3	8.4	7.5	6.5
85°	12.1	10.3	9.3	8.4	7.5	7.5	6.5	5.6	4.7	3.7	3.7
87.5°	3.7	3.7	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
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°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	667.2	668.2	666.3	668.2	666.3	667.2	665.4	667.2	665.4	667.2	663.5
5°	660.7	660.7	657.9	659.8	657.9	658.8	655.1	656.0	654.2	656.0	652.3
7.5°	649.5	650.4	645.8	647.6	644.8	644.8	642.0	643.0	640.2	641.1	638.3
10°	636.4	635.5	630.8	632.7	629.0	629.0	626.2	626.2	622.4	623.4	619.6
12.5°	617.8	616.8	611.2	613.1	609.4	609.4	606.6	606.6	602.8	604.7	601.0
15°	596.3	595.4	589.8	590.7	587.0	587.0	583.2	584.2	581.4	583.2	579.5
17.5°	572.0	571.1	565.5	566.4	561.8	562.7	559.9	559.0	557.1	558.1	555.3
20°	546.9	545.0	539.4	540.3	538.5	535.7	533.8	534.7	532.9	534.7	531.9
22.5°	520.7	517.0	512.3	512.3	510.5	510.5	507.7	509.5	505.8	508.6	506.7
25°	490.9	488.1	484.3	486.2	482.5	482.5	479.7	480.6	478.7	480.6	478.7
27.5°	461.9	460.1	454.5	456.3	453.5	454.5	451.7	452.6	451.7	453.5	451.7
30°	431.1	430.2	426.5	426.5	425.5	424.6	423.7	423.7	422.7	425.5	423.7
32.5°	402.2	399.4	395.7	398.5	393.8	396.6	394.7	396.6	394.7	396.6	395.7
35°	372.3	371.4	366.7	367.7	366.7	366.7	365.8	365.8	365.8	368.6	368.6
37.5°	340.6	339.7	336.9	337.8	336.0	335.0	335.0	336.9	336.9	338.7	338.7
40°	309.8	310.8	308.0	308.0	307.0	307.0	307.0	308.9	308.0	309.8	308.9
42.5°	279.0	279.0	276.2	277.2	276.2	277.2	277.2	279.0	279.0	280.0	279.0
45°	250.1	250.1	249.2	250.1	248.2	249.2	248.2	250.1	249.2	250.1	250.1
47.5°	221.2	221.2	221.2	220.2	220.2	220.2	220.2	220.2	219.3	221.2	220.2
50°	194.1	195.0	194.1	194.1	193.2	194.1	193.2	193.2	191.3	192.2	192.2
52.5°	169.8	169.8	168.0	168.0	168.0	167.0	167.0	167.0	166.1	166.1	164.2
55°	146.5	146.5	144.6	144.6	143.7	142.8	141.8	141.8	139.0	139.0	136.2
57.5°	125.0	124.1	121.3	121.3	119.4	118.5	117.6	116.6	114.8	112.9	112.0
60°	105.5	103.6	101.7	100.8	98.9	97.1	95.2	93.3	91.5	90.5	89.6
62.5°	86.8	84.0	82.1	81.2	79.3	76.5	74.7	72.8	70.9	70.0	68.1
65°	70.0	67.2	64.4	63.5	61.6	59.7	56.9	55.1	53.2	52.3	52.3
67.5°	55.1	52.3	48.5	48.5	46.7	44.8	42.9	41.1	40.1	41.1	41.1
70°	41.1	39.2	36.4	35.5	33.6	31.7	30.8	30.8	30.8	31.7	30.8
72.5°	30.8	28.0	26.1	25.2	24.3	23.3	23.3	23.3	22.4	23.3	23.3
75°	21.5	19.6	17.7	17.7	16.8	16.8	16.8	16.8	16.8	16.8	16.8
77.5°	14.9	13.1	12.1	12.1	12.1	11.2	11.2	11.2	11.2	11.2	11.2
80°	9.3	9.3	8.4	8.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5
82.5°	5.6	5.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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	0.0	0.0	0.0





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CATALOG NUMBER: LD6B15D010 EU6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	663.5	666.3	662.6	665.4	664.4	663.5	661.6	665.4
5°	652.3	653.2	649.5	653.2	652.3	650.4	648.6	652.3
7.5°	636.4	639.2	634.6	638.3	637.4	635.5	633.6	637.4
10°	618.7	621.5	617.8	620.6	620.6	618.7	615.9	619.6
12.5°	599.1	601.0	597.2	601.0	600.0	598.2	597.2	600.0
15°	577.6	580.4	576.7	579.5	578.6	577.6	576.7	579.5
17.5°	554.3	557.1	554.3	557.1	557.1	554.3	553.4	555.3
20°	531.0	532.9	530.1	532.9	531.9	531.9	530.1	532.9
22.5°	504.9	507.7	505.8	507.7	506.7	506.7	505.8	507.7
25°	478.7	481.5	478.7	481.5	480.6	480.6	478.7	483.4
27.5°	452.6	454.5	451.7	455.4	454.5	452.6	453.5	454.5
30°	424.6	426.5	424.6	427.4	427.4	427.4	425.5	427.4
32.5°	396.6	399.4	396.6	399.4	398.5	398.5	397.5	399.4
35°	368.6	369.5	367.7	370.5	370.5	371.4	369.5	372.3
37.5°	339.7	340.6	339.7	340.6	342.5	339.7	341.5	342.5
40°	309.8	311.7	310.8	311.7	311.7	312.6	311.7	312.6
42.5°	280.0	281.8	280.0	282.8	281.8	281.8	282.8	282.8
45°	249.2	252.0	250.1	252.0	252.9	252.0	252.0	253.8
47.5°	220.2	222.1	221.2	222.1	222.1	222.1	222.1	224.0
50°	191.3	192.2	192.2	193.2	193.2	194.1	192.2	193.2
52.5°	162.4	164.2	164.2	164.2	163.3	164.2	164.2	164.2
55°	136.2	137.2	135.3	137.2	137.2	136.2	136.2	138.1
57.5°	111.1	111.1	111.1	111.1	111.1	110.1	111.1	111.1
60°	87.7	88.7	87.7	87.7	87.7	87.7	86.8	88.7
62.5°	68.1	68.1	67.2	68.1	68.1	68.1	69.1	69.1
65°	53.2	54.1	53.2	54.1	54.1	54.1	54.1	55.1
67.5°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
70°	31.7	31.7	31.7	32.7	31.7	31.7	31.7	32.7
72.5°	23.3	23.3	23.3	23.3	23.3	23.3	24.3	24.3
75°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
77.5°	11.2	11.2	11.2	12.1	11.2	12.1	11.2	11.2
80°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	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)