

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: P252354

Luminaire Tested: **LE\_6B15D010 EC6B10209024 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B15D010 EC6B10209024 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1197.5 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

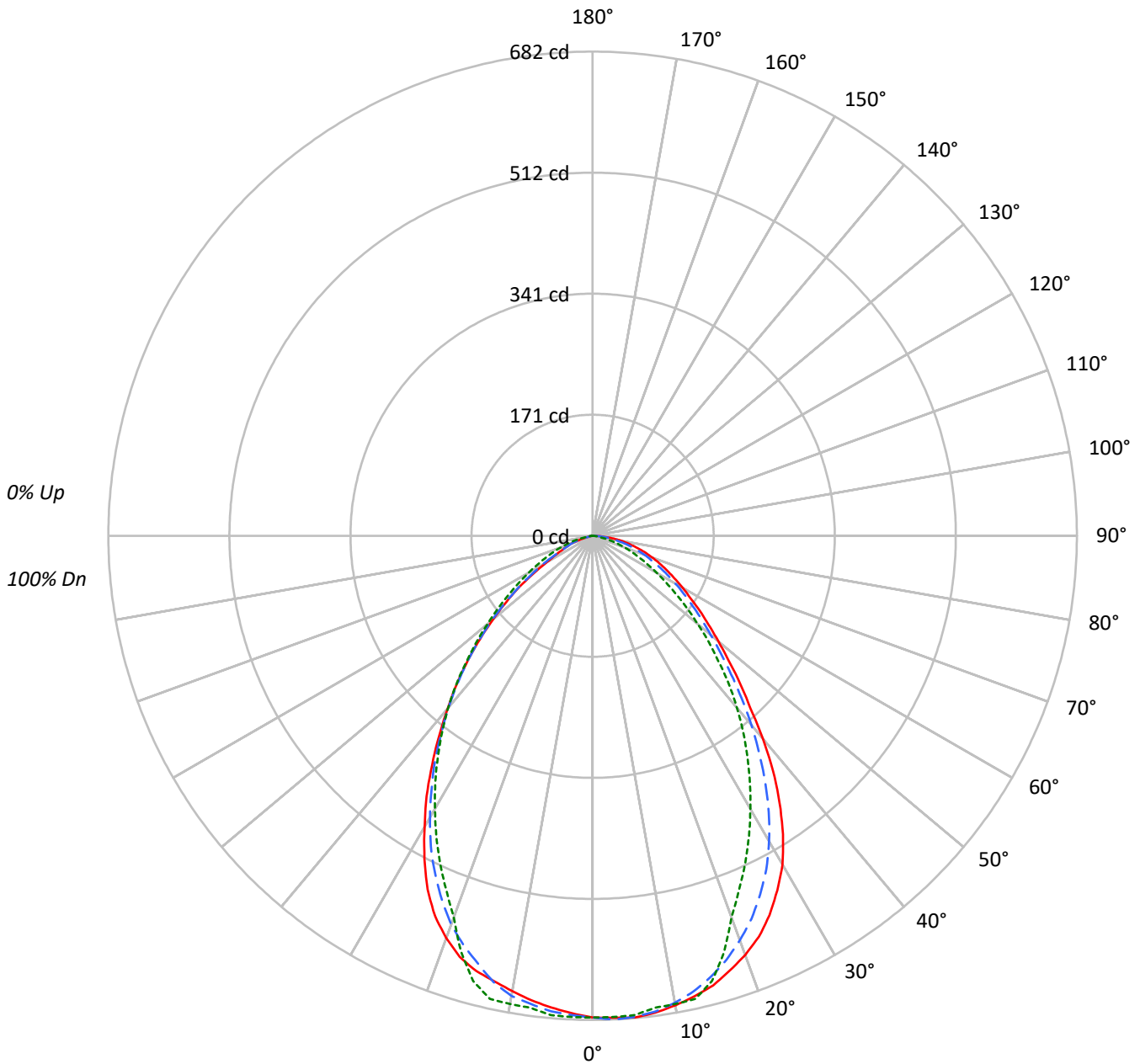
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	44266	44266	44266
5°	44605	44376	43682
10°	44485	44372	43140
15°	44281	43862	42855
20°	43614	39706	41851
25°	42435	36604	39585
30°	40296	33456	35648
35°	36565	30249	31372
40°	31750	26946	27015
45°	27070	23168	22928
50°	23436	19589	18513
55°	20940	16334	14332
60°	19076	13570	9656
65°	17815	11146	7225
70°	16977	9080	6066
75°	16006	6428	1991
80°	15216	3306	676
85°	12576	1946	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	5.4
10°-20°	179.2	15.0
20°-30°	247.4	20.7
30°-40°	251.7	21.0
40°-50°	202.3	16.9
50°-60°	134.5	11.2
60°-70°	76.7	6.4
70°-80°	34.4	2.9
80°-90°	7.3	0.6
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°	490.6	41.0
0°-40°	742.4	62.0
0°-60°	1079.2	90.1
0°-90°	1197.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	678	678	678	678	678	
5°	681	680	678	672	667	65
15°	656	643	649	624	634	184
25°	590	558	508	525	550	270
35°	459	424	380	387	394	285
45°	293	276	251	248	248	228
55°	184	172	144	128	126	165
65°	115	103	72	47	47	115
75°	64	53	26	11	8	68
85°	17	12	3	1	0	20
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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	679.4	682.9	682.0	681.1	682.0	681.1	679.4	679.4	677.6	677.6	682.0
5°	681.1	682.9	682.0	681.1	681.1	682.0	678.5	678.5	676.8	675.9	680.2
7.5°	677.6	680.2	678.5	678.5	677.6	678.5	675.0	675.0	672.4	671.5	675.9
10°	671.5	675.0	673.2	673.2	673.2	671.5	669.8	668.9	666.1	665.2	668.0
12.5°	664.4	667.0	666.1	664.4	664.4	664.4	660.9	660.0	656.5	654.8	657.4
15°	655.6	657.4	656.5	655.6	653.9	653.9	650.4	648.5	645.0	641.5	643.2
17.5°	642.4	645.0	643.2	642.4	639.8	639.8	636.2	634.5	629.1	625.6	626.5
20°	628.2	629.1	628.2	626.5	623.9	623.0	619.5	616.0	611.5	607.1	606.2
22.5°	611.5	612.4	609.8	608.0	605.4	604.5	600.1	597.5	590.4	585.1	584.2
25°	589.5	590.4	590.4	586.0	584.2	582.5	578.0	573.6	567.5	560.4	557.8
27.5°	563.1	565.8	564.0	559.5	556.0	555.1	550.8	547.2	539.2	533.1	529.6
30°	534.9	534.0	533.1	530.5	525.1	524.2	519.9	515.5	509.4	501.4	497.0
32.5°	498.8	498.8	497.9	495.2	490.0	488.1	484.6	479.4	472.4	466.1	461.8
35°	459.1	460.0	459.1	453.8	450.2	448.5	446.8	440.6	434.4	427.4	423.9
37.5°	417.6	415.0	415.9	411.5	407.1	408.9	403.6	401.0	393.9	388.6	385.1
40°	372.8	374.5	371.0	369.2	366.6	363.9	363.9	359.5	356.0	349.9	348.1
42.5°	328.6	331.4	330.5	328.6	325.1	326.0	321.6	319.9	315.5	312.9	310.1
45°	293.4	293.4	293.4	291.6	290.8	289.0	286.4	283.8	281.1	277.6	275.8
47.5°	259.1	259.1	260.0	258.2	256.4	255.5	253.8	253.8	249.4	245.9	244.1
50°	230.9	230.9	230.9	229.1	227.4	227.4	225.6	223.9	221.1	218.5	216.8
52.5°	205.4	205.4	205.4	203.5	202.6	201.8	200.9	200.0	196.5	194.8	193.0
55°	184.1	183.2	183.2	182.4	180.6	180.6	179.8	178.0	175.4	172.8	171.9
57.5°	163.0	163.9	163.0	163.0	161.2	161.2	159.5	158.6	156.0	154.2	152.5
60°	146.2	146.2	146.2	145.4	143.6	144.5	142.8	141.9	139.2	136.6	134.9
62.5°	129.5	130.4	130.4	129.5	127.8	127.8	126.9	126.0	123.4	120.8	118.1
65°	115.4	115.4	115.4	114.5	113.6	113.6	112.8	111.9	109.2	105.8	103.1
67.5°	102.2	101.4	101.4	101.4	100.5	99.6	98.8	97.8	95.1	92.5	89.0
70°	89.0	89.0	89.0	88.1	86.4	87.2	86.4	85.5	82.9	80.2	77.5
72.5°	76.6	76.6	75.8	74.9	74.9	74.0	74.0	73.1	70.5	67.0	64.4
75°	63.5	63.5	63.5	63.5	61.6	62.6	60.8	59.9	58.1	55.5	52.9
77.5°	52.0	52.0	52.0	51.1	50.2	50.2	49.4	48.5	45.9	44.0	40.5
80°	40.5	40.5	40.5	40.5	39.6	38.8	37.9	37.0	35.2	32.6	30.0
82.5°	30.0	30.0	29.1	29.1	29.1	28.2	27.4	26.4	24.6	22.9	21.1
85°	16.8	17.6	17.6	15.9	16.8	15.9	15.9	14.1	14.1	12.4	11.5
87.5°	6.1	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4	4.4	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	678.5	677.6	681.1	681.1	675.9	678.5	679.4	677.6	677.6	678.5	675.9
5°	676.8	675.0	678.5	679.4	674.1	676.8	677.6	675.9	676.8	677.6	674.1
7.5°	670.6	670.6	673.2	674.1	668.9	671.5	671.5	669.8	670.6	670.6	668.0
10°	664.4	661.8	664.4	664.4	660.0	660.9	662.6	661.8	665.2	669.8	669.8
12.5°	653.0	650.4	654.8	654.8	652.1	655.6	660.0	662.6	666.1	668.0	662.6
15°	638.9	639.8	647.6	653.9	651.2	656.5	660.9	659.1	654.8	649.4	641.5
17.5°	620.4	617.8	624.8	628.2	624.8	626.5	630.0	626.5	619.5	615.1	604.5
20°	599.2	592.1	592.1	590.4	584.2	584.2	583.4	577.1	574.5	571.9	567.5
22.5°	575.4	567.5	564.9	559.5	554.2	553.4	550.8	544.6	541.0	539.2	534.0
25°	548.1	541.0	536.6	531.4	523.4	521.6	519.0	512.9	511.1	508.5	504.0
27.5°	519.9	511.1	504.9	499.6	492.6	491.8	486.4	482.0	478.5	476.8	473.2
30°	487.2	477.6	473.2	466.1	460.9	459.1	454.8	448.5	445.9	444.1	441.5
32.5°	451.1	443.2	438.9	432.6	425.6	426.5	421.2	415.9	414.1	412.4	409.8
35°	415.9	408.0	402.8	397.4	393.0	391.2	387.8	383.4	380.6	379.8	378.0
37.5°	377.1	371.0	366.6	361.2	357.8	356.0	354.2	349.9	348.1	348.1	344.5
40°	339.2	334.0	330.5	327.8	323.4	322.5	320.8	318.1	317.2	316.4	313.8
42.5°	304.9	297.9	295.2	293.4	290.8	289.0	288.1	286.4	285.5	284.6	282.0
45°	272.2	266.1	263.5	261.8	259.1	258.2	257.2	254.6	252.9	251.1	250.2
47.5°	240.6	236.1	235.2	230.9	229.1	227.4	225.6	223.9	223.0	222.0	218.5
50°	213.2	210.6	206.2	203.5	201.8	200.9	197.4	194.8	193.9	193.0	190.4
52.5°	188.6	185.0	182.4	178.0	177.1	175.4	173.6	170.1	168.2	167.4	164.8
55°	166.5	163.9	160.4	156.9	154.2	153.4	150.6	147.1	145.4	143.6	141.9
57.5°	148.0	143.6	140.1	136.6	134.9	132.1	129.5	127.8	125.1	122.5	119.9
60°	130.4	126.9	122.5	119.0	117.2	115.4	111.9	109.2	106.6	104.0	101.4
62.5°	113.6	110.1	105.8	102.2	100.5	98.8	95.1	92.5	89.9	87.2	83.8
65°	98.8	95.1	91.6	88.1	86.4	84.6	81.1	77.5	74.9	72.2	68.8
67.5°	86.4	82.0	78.4	74.9	73.1	71.4	67.9	65.2	61.6	59.0	55.5
70°	73.1	69.6	67.0	63.5	61.6	59.9	56.4	52.9	50.2	47.6	44.0
72.5°	61.6	57.2	54.6	51.1	49.4	48.5	45.0	42.2	39.6	36.1	33.5
75°	49.4	45.9	42.2	39.6	37.9	37.0	33.5	30.9	28.2	25.5	22.9
77.5°	37.9	35.2	31.8	29.1	27.4	26.4	22.9	20.2	17.6	15.9	13.2
80°	28.2	24.6	22.9	20.2	19.4	17.6	15.9	13.2	11.5	8.8	7.0
82.5°	19.4	16.8	15.0	13.2	12.4	11.5	9.8	7.9	6.1	5.2	4.4
85°	10.6	8.8	7.9	7.0	6.1	6.1	5.2	4.4	3.5	2.6	1.8
87.5°	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	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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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	677.6	677.6	677.6	676.8	676.8	676.8	675.9	679.4	675.9	675.0	677.6
5°	676.8	675.0	675.0	675.0	675.0	674.1	673.2	675.0	672.4	671.5	671.5
7.5°	671.5	670.6	670.6	669.8	668.9	668.0	667.0	668.0	665.2	664.4	664.4
10°	672.4	670.6	670.6	668.0	666.1	663.5	660.9	661.8	658.2	655.6	655.6
12.5°	661.8	657.4	654.8	652.1	650.4	649.4	645.9	647.6	644.1	643.2	643.2
15°	638.0	632.8	628.2	626.5	626.5	624.8	622.1	625.6	623.9	624.8	629.1
17.5°	601.0	598.4	595.6	594.8	595.6	597.5	599.2	604.5	604.5	607.1	611.5
20°	568.4	566.6	568.4	568.4	569.2	572.8	576.2	580.8	582.5	585.1	591.2
22.5°	536.6	536.6	538.4	541.0	540.1	546.4	547.2	555.1	555.1	560.4	565.8
25°	505.8	505.8	507.6	508.5	510.2	513.8	517.2	523.4	525.1	530.5	534.9
27.5°	475.9	475.0	475.0	475.9	477.6	482.0	483.8	490.9	493.5	497.0	501.4
30°	442.4	441.5	443.2	445.0	444.1	448.5	451.1	456.5	458.2	461.8	465.2
32.5°	410.6	410.6	410.6	412.4	412.4	415.9	415.9	422.1	422.1	424.8	428.2
35°	378.0	378.0	378.9	379.8	380.6	381.5	382.4	386.0	386.9	387.8	389.5
37.5°	347.1	346.2	347.1	347.1	345.4	349.0	349.0	352.5	349.9	352.5	353.4
40°	315.5	315.5	314.6	314.6	314.6	316.4	314.6	317.2	315.5	317.2	316.4
42.5°	282.9	282.9	281.1	282.9	282.0	282.0	282.0	283.8	281.1	282.9	283.8
45°	250.2	249.4	249.4	248.5	248.5	248.5	249.4	249.4	248.5	250.2	250.2
47.5°	218.5	217.6	217.6	217.6	217.6	218.5	215.9	217.6	215.9	215.9	215.9
50°	191.2	190.4	189.5	188.6	187.8	187.8	186.8	186.8	185.0	184.1	183.2
52.5°	164.8	163.9	162.1	162.1	161.2	160.4	157.8	157.8	155.1	154.2	154.2
55°	141.0	138.4	137.5	135.8	135.8	134.0	132.1	130.4	127.8	126.0	126.0
57.5°	119.0	116.4	114.5	113.6	112.8	111.0	107.5	106.6	103.1	102.2	101.4
60°	99.6	96.9	94.2	92.5	91.6	89.0	85.5	83.8	82.0	79.2	76.6
62.5°	81.1	78.4	74.9	74.0	72.2	69.6	67.0	64.4	62.6	59.9	58.1
65°	65.2	62.6	59.9	58.1	56.4	53.8	51.1	48.5	46.8	45.9	45.0
67.5°	52.9	49.4	46.8	45.9	44.0	42.2	39.6	38.8	37.0	37.0	37.0
70°	41.4	38.8	36.1	35.2	34.4	32.6	30.9	30.9	30.9	30.9	30.9
72.5°	30.9	29.1	26.4	25.5	24.6	23.8	22.0	22.9	22.0	22.0	22.0
75°	19.4	17.6	15.9	15.0	14.1	13.2	12.4	11.5	10.6	9.8	9.8
77.5°	10.6	8.8	7.9	7.0	7.0	6.1	5.2	5.2	4.4	4.4	4.4
80°	6.1	5.2	4.4	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8
82.5°	3.5	2.6	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
85°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
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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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	673.2	675.9	673.2	675.9	675.9	675.9	675.9	673.2
5°	668.9	670.6	668.0	669.8	670.6	669.8	669.8	667.0
7.5°	660.9	662.6	660.0	662.6	663.5	662.6	661.8	660.0
10°	653.0	653.9	651.2	653.0	654.8	654.8	653.9	651.2
12.5°	640.6	643.2	640.6	642.4	644.1	645.0	645.0	642.4
15°	626.5	630.9	629.1	631.8	634.5	635.4	635.4	634.5
17.5°	612.4	616.9	614.1	618.6	621.2	623.0	623.9	622.1
20°	592.1	597.5	595.6	599.2	602.8	605.4	605.4	602.8
22.5°	565.8	572.8	571.9	574.5	579.0	579.9	581.6	579.9
25°	536.6	541.9	541.0	543.8	549.0	549.0	549.9	549.9
27.5°	503.1	508.5	507.6	509.4	512.9	513.8	514.6	512.9
30°	467.0	469.6	469.6	472.4	475.0	475.9	475.9	473.2
32.5°	427.4	430.9	432.6	431.8	434.4	436.1	435.2	435.2
35°	391.2	392.1	393.0	393.9	394.8	396.5	394.8	393.9
37.5°	352.5	355.1	353.4	355.1	356.9	356.0	355.1	355.1
40°	317.2	318.1	316.4	318.1	319.0	319.0	319.0	317.2
42.5°	282.0	283.8	282.0	283.8	283.8	283.8	283.8	282.9
45°	246.8	248.5	248.5	249.4	249.4	248.5	248.5	248.5
47.5°	214.1	215.9	214.1	215.9	216.8	215.0	215.0	215.0
50°	183.2	182.4	182.4	183.2	183.2	183.2	183.2	182.4
52.5°	151.6	152.5	152.5	152.5	153.4	152.5	153.4	153.4
55°	124.2	124.2	124.2	125.1	124.2	124.2	125.1	126.0
57.5°	99.6	98.8	97.8	97.8	98.8	97.8	97.8	97.8
60°	76.6	75.8	74.9	74.9	74.9	74.9	74.9	74.0
62.5°	57.2	57.2	57.2	58.1	58.1	58.1	58.1	59.0
65°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	46.8
67.5°	37.0	37.0	37.0	37.9	37.9	37.9	37.9	37.9
70°	30.9	30.9	31.8	30.9	31.8	31.8	31.8	31.8
72.5°	21.1	21.1	21.1	21.1	21.1	20.2	21.1	20.2
75°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	7.9
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
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)