

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: P252360

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252360
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 EC6B10209727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1183.8 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

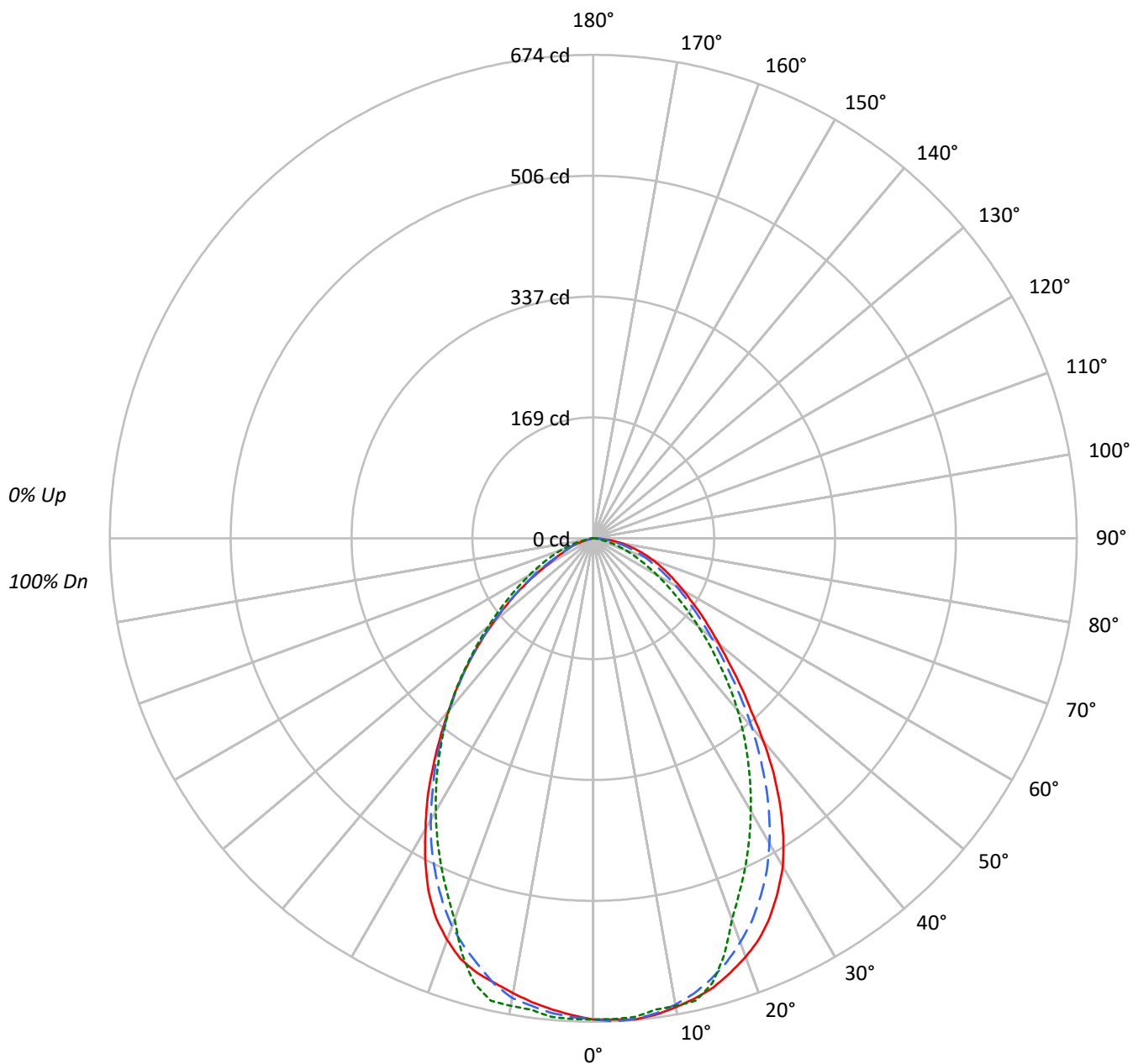
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	80	74		93	85	79	73		82	77	72		79	75	71		77	73	70
4	88	78	71	65		86	77	70	64		74	68	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	62	57		66	60	56		64	59	55
6	77	65	57	51		75	64	57	51		62	56	51		61	55	50		59	54	50
7	72	60	52	46		70	59	51	46		57	51	46		56	50	46		55	49	45
8	67	55	47	42		66	54	47	42		53	46	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	40	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43763	43763	43763
5°	44101	43872	43184
10°	43975	43856	42650
15°	43774	43362	42356
20°	43121	39254	41365
25°	41953	36180	39124
30°	39836	33071	35241
35°	36150	29898	31013
40°	31384	26640	26708
45°	26766	22900	22660
50°	23161	19366	18290
55°	20701	16152	14172
60°	18868	13413	9538
65°	17614	11022	7117
70°	16786	8965	5990
75°	15830	6352	1991
80°	15066	3306	676
85°	12351	1946	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	5.4
10°-20°	177.2	15.0
20°-30°	244.5	20.7
30°-40°	248.8	21.0
40°-50°	200.0	16.9
50°-60°	133.0	11.2
60°-70°	75.8	6.4
70°-80°	34.0	2.9
80°-90°	7.2	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°	485.0	41.0
0°-40°	733.8	62.0
0°-60°	1066.8	90.1
0°-90°	1183.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	673	672	670	665	659	64
15°	648	636	642	617	627	182
25°	583	551	503	519	544	267
35°	454	419	375	382	389	282
45°	290	273	248	246	246	225
55°	182	170	142	126	125	164
65°	114	102	71	46	46	114
75°	63	52	25	10	8	67
85°	16	11	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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	671.6	675.1	674.2	673.4	674.2	673.4	671.6	671.6	669.9	669.9	674.2
5°	673.4	675.1	674.2	673.4	673.4	674.2	670.8	670.8	669.0	668.1	672.5
7.5°	669.9	672.5	670.8	670.8	669.9	670.8	667.2	667.2	664.6	663.8	668.1
10°	663.8	667.2	665.5	665.5	665.5	663.8	662.0	661.1	658.5	657.6	660.2
12.5°	656.8	659.4	658.5	656.8	656.8	656.8	653.2	652.4	649.0	647.2	649.9
15°	648.1	649.9	649.0	648.1	646.4	646.4	642.9	641.1	637.6	634.1	635.9
17.5°	635.0	637.6	635.9	635.0	632.4	632.4	628.9	627.1	622.0	618.5	619.4
20°	621.1	622.0	621.1	619.4	616.8	615.9	612.4	608.9	604.5	600.1	599.2
22.5°	604.5	605.4	602.8	601.0	598.4	597.5	593.2	590.6	583.6	578.4	577.5
25°	582.8	583.6	583.6	579.2	577.5	575.8	571.4	567.1	561.0	554.0	551.4
27.5°	556.6	559.2	557.5	553.1	549.6	548.8	544.4	540.9	533.1	527.0	523.5
30°	528.8	527.9	527.0	524.4	519.1	518.2	513.9	509.6	503.5	495.6	491.2
32.5°	493.0	493.0	492.1	489.5	484.4	482.6	479.1	473.9	466.9	460.8	456.5
35°	453.9	454.8	453.9	448.6	445.1	443.4	441.6	435.5	429.4	422.5	419.0
37.5°	412.9	410.2	411.1	406.8	402.4	404.1	399.0	396.4	389.4	384.1	380.6
40°	368.5	370.2	366.8	365.0	362.4	359.8	359.8	355.4	351.9	345.9	344.1
42.5°	324.9	327.5	326.6	324.9	321.4	322.2	318.0	316.2	311.9	309.2	306.6
45°	290.1	290.1	290.1	288.4	287.5	285.8	283.1	280.5	277.9	274.4	272.6
47.5°	256.1	256.1	257.0	255.2	253.5	252.6	250.9	250.9	246.5	243.0	241.2
50°	228.2	228.2	228.2	226.5	224.8	224.8	223.0	221.2	218.6	216.0	214.2
52.5°	203.0	203.0	203.0	201.2	200.4	199.5	198.6	197.8	194.2	192.5	190.8
55°	182.0	181.1	181.1	180.2	178.6	178.6	177.8	176.0	173.4	170.8	169.9
57.5°	161.1	162.0	161.1	161.1	159.4	159.4	157.6	156.8	154.1	152.4	150.8
60°	144.6	144.6	144.6	143.8	142.0	142.9	141.1	140.2	137.6	135.0	133.2
62.5°	128.0	128.9	128.9	128.0	126.2	126.2	125.4	124.6	122.0	119.4	116.8
65°	114.1	114.1	114.1	113.2	112.4	112.4	111.5	110.6	108.0	104.5	101.9
67.5°	101.0	100.1	100.1	100.1	99.2	98.4	97.5	96.8	94.1	91.5	88.0
70°	88.0	88.0	88.0	87.1	85.4	86.2	85.4	84.5	81.9	79.2	76.6
72.5°	75.8	75.8	74.9	74.0	74.0	73.1	73.1	72.2	69.6	66.2	63.6
75°	62.8	62.8	62.8	62.8	61.0	61.9	60.1	59.2	57.5	54.9	52.2
77.5°	51.4	51.4	51.4	50.5	49.6	49.6	48.8	47.9	45.2	43.5	40.1
80°	40.1	40.1	40.1	40.1	39.2	38.4	37.5	36.6	34.9	32.2	29.6
82.5°	29.6	29.6	28.8	28.8	28.8	27.9	27.0	26.1	24.4	22.6	20.9
85°	16.5	17.4	17.4	15.6	16.5	15.6	15.6	13.9	13.9	12.2	11.4
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	670.8	669.9	673.4	673.4	668.1	670.8	671.6	669.9	669.9	670.8	668.1
5°	669.0	667.2	670.8	671.6	666.4	669.0	669.9	668.1	669.0	669.9	666.4
7.5°	662.9	662.9	665.5	666.4	661.1	663.8	663.8	662.0	662.9	662.9	660.2
10°	656.8	654.1	656.8	656.8	652.4	653.2	655.0	654.1	657.6	662.0	662.0
12.5°	645.5	642.9	647.2	647.2	644.6	648.1	652.4	655.0	658.5	660.2	655.0
15°	631.5	632.4	640.2	646.4	643.8	649.0	653.2	651.5	647.2	642.0	634.1
17.5°	613.2	610.6	617.6	621.1	617.6	619.4	622.9	619.4	612.4	608.0	597.5
20°	592.4	585.4	585.4	583.6	577.5	577.5	576.6	570.5	567.9	565.4	561.0
22.5°	568.8	561.0	558.4	553.1	547.9	547.0	544.4	538.4	534.9	533.1	527.9
25°	541.8	534.9	530.5	525.2	517.4	515.6	513.0	507.0	505.2	502.6	498.2
27.5°	513.9	505.2	499.1	493.9	486.9	486.0	480.9	476.5	473.0	471.2	467.8
30°	481.8	472.1	467.8	460.8	455.6	453.9	449.5	443.4	440.8	439.0	436.4
32.5°	446.0	438.1	433.8	427.8	420.8	421.6	416.4	411.1	409.4	407.6	405.0
35°	411.1	403.2	398.1	392.9	388.5	386.8	383.2	378.9	376.2	375.4	373.8
37.5°	372.9	366.8	362.4	357.1	353.6	351.9	350.1	345.9	344.1	344.1	340.6
40°	335.4	330.1	326.6	324.0	319.6	318.8	317.1	314.5	313.6	312.8	310.1
42.5°	301.4	294.4	291.8	290.1	287.5	285.8	284.9	283.1	282.2	281.4	278.8
45°	269.1	263.1	260.5	258.8	256.1	255.2	254.4	251.8	250.0	248.2	247.4
47.5°	237.8	233.5	232.6	228.2	226.5	224.8	223.0	221.2	220.4	219.5	216.0
50°	210.8	208.1	203.9	201.2	199.5	198.6	195.1	192.5	191.6	190.8	188.1
52.5°	186.4	182.9	180.2	176.0	175.1	173.4	171.6	168.1	166.4	165.5	162.9
55°	164.6	162.0	158.5	155.0	152.4	151.6	149.0	145.5	143.8	142.0	140.2
57.5°	146.4	142.0	138.5	135.0	133.2	130.6	128.0	126.2	123.8	121.1	118.5
60°	128.9	125.4	121.1	117.6	115.9	114.1	110.6	108.0	105.4	102.8	100.1
62.5°	112.4	108.9	104.5	101.0	99.2	97.5	94.1	91.5	88.9	86.2	82.8
65°	97.5	94.1	90.6	87.1	85.4	83.6	80.1	76.6	74.0	71.4	68.0
67.5°	85.4	81.0	77.5	74.0	72.2	70.5	67.1	64.5	61.0	58.4	54.9
70°	72.2	68.9	66.2	62.8	61.0	59.2	55.8	52.2	49.6	47.0	43.5
72.5°	61.0	56.6	54.0	50.5	48.8	47.9	44.4	41.8	39.2	35.8	33.1
75°	48.8	45.2	41.8	39.2	37.5	36.6	33.1	30.5	27.9	25.2	22.6
77.5°	37.5	34.9	31.4	28.8	27.0	26.1	22.6	20.0	17.4	15.6	13.1
80°	27.9	24.4	22.6	20.0	19.1	17.4	15.6	13.1	11.4	8.8	7.0
82.5°	19.1	16.5	14.8	13.1	12.2	11.4	9.6	7.9	6.1	5.2	4.4
85°	10.5	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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	669.9	669.9	669.9	669.0	669.0	669.0	668.1	671.6	668.1	667.2	669.9
5°	669.0	667.2	667.2	667.2	667.2	666.4	665.5	667.2	664.6	663.8	663.8
7.5°	663.8	662.9	662.9	662.0	661.1	660.2	659.4	660.2	657.6	656.8	656.8
10°	664.6	662.9	662.9	660.2	658.5	655.9	653.2	654.1	650.8	648.1	648.1
12.5°	654.1	649.9	647.2	644.6	642.9	642.0	638.5	640.2	636.8	635.9	635.9
15°	630.6	625.4	621.1	619.4	619.4	617.6	615.0	618.5	616.8	617.6	622.0
17.5°	594.1	591.5	588.9	588.0	588.9	590.6	592.4	597.5	597.5	600.1	604.5
20°	561.9	560.1	561.9	561.9	562.8	566.2	569.6	574.0	575.8	578.4	584.5
22.5°	530.5	530.5	532.2	534.9	534.0	540.0	540.9	548.8	548.8	554.0	559.2
25°	500.0	500.0	501.8	502.6	504.4	507.9	511.4	517.4	519.1	524.4	528.8
27.5°	470.4	469.5	469.5	470.4	472.1	476.5	478.2	485.1	487.8	491.2	495.6
30°	437.2	436.4	438.1	439.9	439.0	443.4	446.0	451.2	453.0	456.5	459.9
32.5°	405.9	405.9	405.9	407.6	407.6	411.1	411.1	417.2	417.2	419.9	423.4
35°	373.8	373.8	374.5	375.4	376.2	377.1	378.0	381.5	382.4	383.2	385.0
37.5°	343.2	342.4	343.2	343.2	341.5	345.0	345.0	348.4	345.9	348.4	349.2
40°	311.9	311.9	311.0	311.0	311.0	312.8	311.0	313.6	311.9	313.6	312.8
42.5°	279.6	279.6	277.9	279.6	278.8	278.8	278.8	280.5	277.9	279.6	280.5
45°	247.4	246.5	246.5	245.6	245.6	245.6	246.5	246.5	245.6	247.4	247.4
47.5°	216.0	215.1	215.1	215.1	215.1	216.0	213.4	215.1	213.4	213.4	213.4
50°	189.0	188.1	187.2	186.4	185.5	185.5	184.6	184.6	182.9	182.0	181.1
52.5°	162.9	162.0	160.2	160.2	159.4	158.5	155.9	155.9	153.2	152.4	152.4
55°	139.4	136.8	135.9	134.1	134.1	132.4	130.6	128.9	126.2	124.6	124.6
57.5°	117.6	115.0	113.2	112.4	111.5	109.8	106.2	105.4	101.9	101.0	100.1
60°	98.4	95.9	93.2	91.5	90.6	88.0	84.5	82.8	81.0	78.4	75.8
62.5°	80.1	77.5	74.0	73.1	71.4	68.9	66.2	63.6	61.9	59.2	57.5
65°	64.5	61.9	59.2	57.5	55.8	53.1	50.5	47.9	46.1	45.2	44.4
67.5°	52.2	48.8	46.1	45.2	43.5	41.8	39.2	38.4	36.6	36.6	36.6
70°	41.0	38.4	35.8	34.9	34.0	32.2	30.5	30.5	30.5	30.5	30.5
72.5°	30.5	28.8	26.1	25.2	24.4	23.5	21.8	22.6	21.8	21.8	21.8
75°	19.1	17.4	15.6	14.8	13.9	13.1	12.2	11.4	10.5	9.6	9.6
77.5°	10.5	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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	665.5	668.1	665.5	668.1	668.1	668.1	668.1	665.5
5°	661.1	662.9	660.2	662.0	662.9	662.0	662.0	659.4
7.5°	653.2	655.0	652.4	655.0	655.9	655.0	654.1	652.4
10°	645.5	646.4	643.8	645.5	647.2	647.2	646.4	643.8
12.5°	633.2	635.9	633.2	635.0	636.8	637.6	637.6	635.0
15°	619.4	623.6	622.0	624.5	627.1	628.0	628.0	627.1
17.5°	605.4	609.8	607.1	611.5	614.1	615.9	616.8	615.0
20°	585.4	590.6	588.9	592.4	595.8	598.4	598.4	595.8
22.5°	559.2	566.2	565.4	567.9	572.2	573.1	574.9	573.1
25°	530.5	535.8	534.9	537.5	542.6	542.6	543.5	543.5
27.5°	497.4	502.6	501.8	503.5	507.0	507.9	508.8	507.0
30°	461.6	464.2	464.2	466.9	469.5	470.4	470.4	467.8
32.5°	422.5	426.0	427.8	426.9	429.4	431.1	430.2	430.2
35°	386.8	387.6	388.5	389.4	390.2	392.0	390.2	389.4
37.5°	348.4	351.0	349.2	351.0	352.8	351.9	351.0	351.0
40°	313.6	314.5	312.8	314.5	315.4	315.4	315.4	313.6
42.5°	278.8	280.5	278.8	280.5	280.5	280.5	280.5	279.6
45°	243.9	245.6	245.6	246.5	246.5	245.6	245.6	245.6
47.5°	211.6	213.4	211.6	213.4	214.2	212.5	212.5	212.5
50°	181.1	180.2	180.2	181.1	181.1	181.1	181.1	180.2
52.5°	149.9	150.8	150.8	150.8	151.6	150.8	151.6	151.6
55°	122.9	122.9	122.9	123.8	122.9	122.9	123.8	124.6
57.5°	98.4	97.5	96.8	96.8	97.5	96.8	96.8	96.8
60°	75.8	74.9	74.0	74.0	74.0	74.0	74.0	73.1
62.5°	56.6	56.6	56.6	57.5	57.5	57.5	57.5	58.4
65°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	46.1
67.5°	36.6	36.6	36.6	37.5	37.5	37.5	37.5	37.5
70°	30.5	30.5	31.4	30.5	31.4	31.4	31.4	31.4
72.5°	20.9	20.9	20.9	20.9	20.9	20.0	20.9	20.0
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)