

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: P252440

Luminaire Tested: **LE_6B10D010 EC6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252440
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: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208027 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: 1078.8 lumens
Efficiency: N/A
Efficacy: 107.9 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

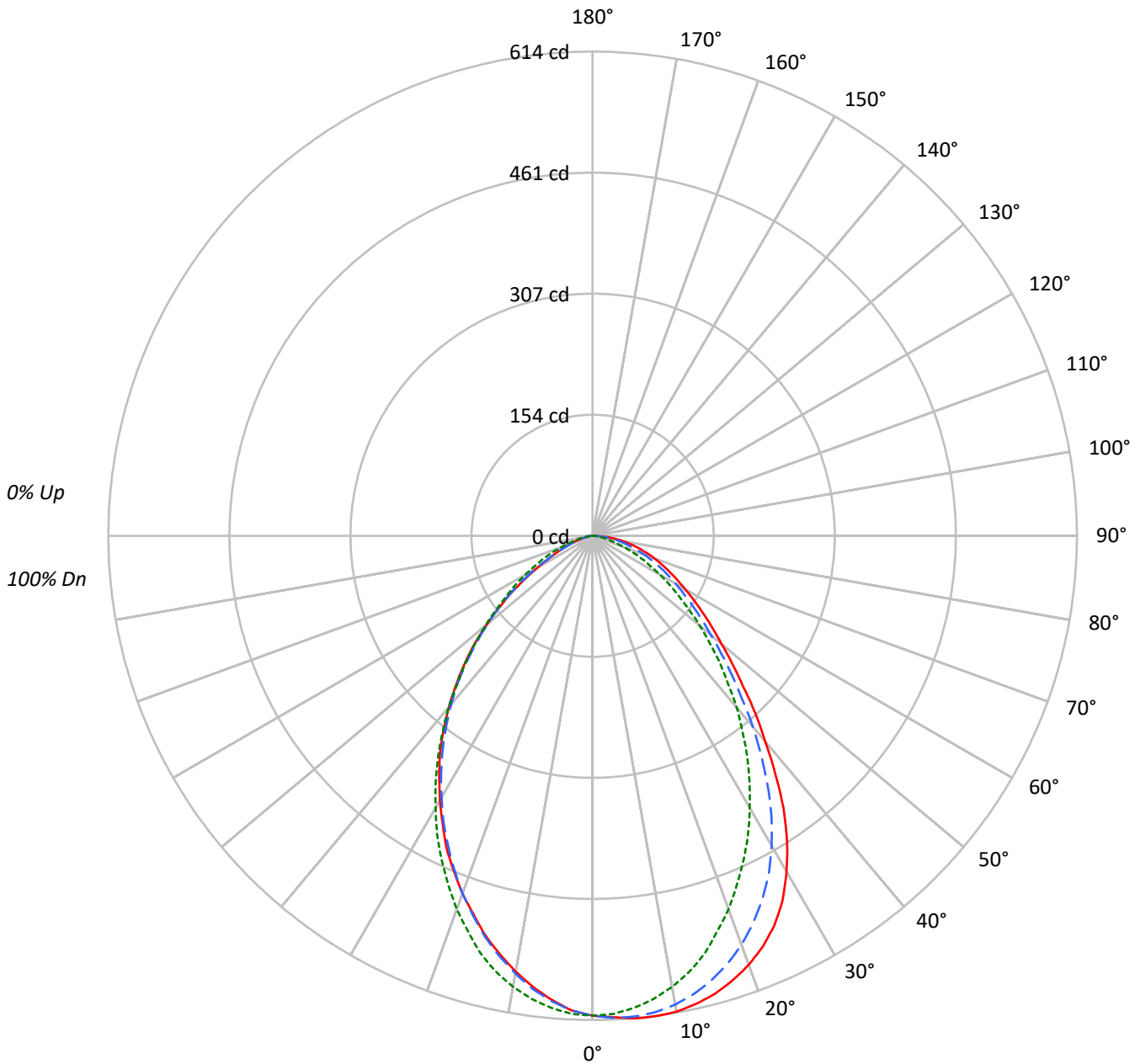
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	39705	39705	39705
5°	40244	39359	38698
10°	40596	38463	37178
15°	40593	37047	35453
20°	40199	34978	33506
25°	39239	32609	31522
30°	37056	29990	29162
35°	33594	27198	26856
40°	29007	24187	24110
45°	24874	21055	21212
50°	21619	18016	17762
55°	19427	15185	14229
60°	17641	12787	10465
65°	16580	10575	7703
70°	15813	8221	5646
75°	15124	5949	3831
80°	14277	4133	2555
85°	12651	2545	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	5.3
10°-20°	155.9	14.5
20°-30°	216.5	20.1
30°-40°	224.2	20.8
40°-50°	184.2	17.1
50°-60°	126.6	11.7
60°-70°	72.8	6.7
70°-80°	33.5	3.1
80°-90°	8.2	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°	429.3	39.8
0°-40°	653.5	60.6
0°-60°	964.3	89.4
0°-90°	1078.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	609	609	609	609	609	
5°	614	612	601	592	591	59
15°	601	583	548	527	525	169
25°	545	509	453	434	438	249
35°	422	387	342	331	337	262
45°	270	249	228	226	230	210
55°	171	155	134	126	125	154
65°	107	94	68	48	50	107
75°	60	47	24	15	15	63
85°	17	12	3	2	2	19
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°	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6
2.5°	611.1	616.1	612.8	612.0	613.6	613.6	613.6	611.1	612.8	610.2	612.0
5°	614.5	618.8	615.4	613.6	615.4	616.1	613.6	612.0	614.5	611.1	612.0
7.5°	614.5	618.8	615.4	614.5	615.4	615.4	614.5	611.1	612.8	609.4	609.4
10°	612.8	616.1	612.8	611.1	612.0	611.1	611.1	606.9	607.8	603.5	603.5
12.5°	607.8	612.0	607.8	606.0	606.0	606.0	603.5	600.1	601.0	595.9	595.0
15°	601.0	604.4	600.1	598.4	598.4	597.6	595.9	590.9	590.9	585.8	583.2
17.5°	590.9	594.2	590.9	588.2	587.5	585.8	584.1	579.0	577.2	571.4	568.9
20°	579.0	581.5	578.1	575.6	573.9	572.2	568.9	563.8	562.1	556.1	552.0
22.5°	563.8	567.1	562.1	559.5	557.9	555.4	552.0	546.9	544.4	536.8	531.6
25°	545.1	546.9	542.6	540.1	536.8	535.0	532.5	525.8	523.2	514.8	508.9
27.5°	521.5	523.2	518.1	516.5	512.2	510.5	507.1	501.2	497.9	489.4	483.5
30°	491.9	493.6	490.2	487.8	484.4	481.0	478.4	472.5	467.4	459.0	453.9
32.5°	459.0	461.5	458.1	454.8	448.9	449.6	445.5	439.5	435.2	427.8	421.8
35°	421.8	423.5	419.2	418.4	415.0	411.6	407.4	403.1	400.6	392.2	387.1
37.5°	380.4	384.6	380.4	377.0	375.2	372.8	370.2	364.2	362.6	357.5	350.8
40°	340.6	343.1	340.6	337.2	334.8	334.8	331.4	328.0	323.8	318.6	316.1
42.5°	305.1	303.5	302.6	300.9	297.5	296.6	295.9	291.6	289.1	284.0	279.8
45°	269.6	270.5	268.8	268.0	265.4	263.8	262.0	258.6	257.8	252.8	249.4
47.5°	240.0	239.2	237.5	237.5	235.9	234.1	232.5	229.9	229.0	224.9	221.5
50°	213.0	213.9	213.0	212.1	209.6	208.8	207.1	205.4	203.8	199.5	196.1
52.5°	191.0	190.1	189.4	189.4	186.8	186.0	184.2	182.6	180.9	176.6	174.1
55°	170.8	170.8	169.9	169.0	166.5	165.6	164.9	163.1	160.6	157.2	154.6
57.5°	152.1	152.1	151.2	150.5	148.8	148.8	147.1	145.4	143.8	140.2	136.9
60°	135.2	136.1	135.2	134.4	132.8	132.8	131.9	129.4	128.5	124.2	121.8
62.5°	120.9	120.9	120.9	120.0	119.1	117.5	117.5	115.0	113.2	110.8	107.4
65°	107.4	107.4	107.4	106.5	104.8	104.0	103.1	101.4	99.8	97.2	93.9
67.5°	94.6	94.6	94.6	93.9	92.1	91.2	90.5	89.6	87.0	84.5	81.1
70°	82.9	82.9	82.0	81.1	80.2	79.5	78.6	76.9	75.2	71.9	69.2
72.5°	71.0	71.0	71.0	69.2	68.5	68.5	66.8	65.9	64.2	60.9	58.4
75°	60.0	59.1	59.1	58.4	57.5	56.6	55.8	55.0	52.4	50.8	47.4
77.5°	49.0	49.0	48.1	47.4	47.4	46.5	45.6	44.0	43.1	40.6	38.0
80°	38.0	38.0	38.0	38.0	37.2	36.4	36.4	34.6	33.8	31.2	29.6
82.5°	28.8	27.9	27.9	27.9	27.0	26.2	26.2	25.4	24.5	22.9	21.1
85°	16.9	16.0	16.0	16.0	15.2	15.2	14.4	14.4	13.5	11.9	11.9
87.5°	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
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°	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6
2.5°	610.2	612.8	609.4	608.6	612.0	610.2	609.4	607.8	608.6	606.9	604.4
5°	609.4	612.8	608.6	606.0	610.2	607.8	606.0	604.4	604.4	601.0	599.2
7.5°	606.9	608.6	604.4	601.9	604.4	601.9	600.1	597.6	596.8	592.5	590.0
10°	600.1	601.9	596.8	593.4	595.9	592.5	590.0	587.5	585.8	580.6	577.2
12.5°	590.9	591.6	585.8	581.5	583.2	580.6	576.5	573.1	571.4	566.4	562.1
15°	578.1	579.0	572.2	566.4	568.0	564.6	559.5	556.1	553.6	548.5	542.6
17.5°	562.9	562.1	554.5	548.5	549.4	545.1	540.1	535.0	531.6	525.8	521.5
20°	546.0	543.5	535.0	528.2	529.1	524.0	518.1	513.0	508.9	503.8	497.9
22.5°	524.9	521.5	513.9	505.5	506.2	502.1	493.6	489.4	485.1	478.4	473.4
25°	502.1	497.0	489.4	481.0	481.0	475.9	469.1	464.0	459.8	453.0	447.1
27.5°	475.0	472.5	462.4	455.6	454.8	449.6	443.8	437.9	432.8	426.9	420.9
30°	445.5	441.2	433.6	426.0	424.2	420.1	414.1	407.4	404.0	398.1	393.0
32.5°	414.1	410.0	401.5	393.9	393.0	389.6	384.6	377.9	374.5	370.2	366.9
35°	378.6	377.0	368.5	362.6	362.6	359.2	354.1	348.2	345.8	341.5	337.2
37.5°	344.9	342.4	334.8	329.6	329.6	325.4	320.4	317.8	315.2	311.9	309.4
40°	309.4	307.6	301.8	296.6	297.5	294.1	290.8	287.4	285.8	284.0	281.5
42.5°	276.4	274.8	270.5	266.2	266.2	263.8	260.4	257.8	256.1	253.6	252.8
45°	246.8	244.2	240.9	236.6	236.6	234.1	232.5	230.8	229.9	228.2	225.6
47.5°	218.1	216.4	213.0	208.8	208.8	208.8	205.4	202.9	202.9	201.1	200.4
50°	193.5	191.0	188.5	185.1	185.1	183.4	180.9	178.4	178.4	177.5	175.8
52.5°	170.8	169.0	165.6	162.2	162.2	160.6	158.0	157.2	156.4	153.9	153.0
55°	151.2	149.6	147.1	142.9	142.0	141.1	138.6	136.9	136.1	133.5	133.5
57.5°	133.5	131.9	127.6	125.1	124.2	122.5	120.0	118.4	117.5	115.8	114.1
60°	118.4	115.8	112.4	109.0	108.2	106.5	104.0	102.2	101.4	98.0	96.4
62.5°	104.0	101.4	98.0	94.6	93.9	92.1	88.8	87.0	85.4	82.0	80.2
65°	90.5	87.9	84.5	81.1	79.5	78.6	75.2	72.8	71.0	68.5	65.1
67.5°	77.8	75.2	71.9	67.6	67.6	65.1	62.5	60.0	57.5	55.0	52.4
70°	65.9	63.4	60.0	56.6	55.8	54.1	51.5	48.1	46.5	43.1	40.6
72.5°	55.0	52.4	49.0	45.6	44.8	43.1	40.6	37.2	34.6	32.1	29.6
75°	44.8	42.2	38.9	36.4	35.5	33.8	31.2	27.9	25.4	23.6	21.1
77.5°	35.5	33.0	30.4	27.9	27.0	25.4	22.9	21.1	18.6	16.9	14.4
80°	27.0	25.4	22.9	21.1	20.2	18.6	16.9	14.4	12.6	11.0	10.1
82.5°	19.5	17.8	16.0	13.5	13.5	11.9	11.0	9.2	7.6	6.8	5.9
85°	11.0	9.2	8.5	7.6	6.8	6.8	5.9	5.1	4.2	3.4	3.4
87.5°	3.4	3.4	2.5	2.5	2.5	2.5	1.8	1.8	1.8	1.8	1.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6
2.5°	604.4	605.2	603.5	605.2	603.5	604.4	602.6	604.4	602.6	604.4	601.0
5°	598.4	598.4	595.9	597.6	595.9	596.8	593.4	594.2	592.5	594.2	590.9
7.5°	588.2	589.1	584.9	586.6	584.1	584.1	581.5	582.4	579.9	580.6	578.1
10°	576.5	575.6	571.4	573.1	569.8	569.8	567.1	567.1	563.8	564.6	561.2
12.5°	559.5	558.8	553.6	555.4	552.0	552.0	549.4	549.4	546.0	547.8	544.4
15°	540.1	539.2	534.2	535.0	531.6	531.6	528.2	529.1	526.6	528.2	524.9
17.5°	518.1	517.2	512.2	513.0	508.9	509.6	507.1	506.2	504.6	505.5	502.9
20°	495.2	493.6	488.5	489.4	487.8	485.1	483.5	484.4	482.6	484.4	481.8
22.5°	471.6	468.2	464.0	464.0	462.4	462.4	459.8	461.5	458.1	460.6	459.0
25°	444.6	442.0	438.6	440.4	437.0	437.0	434.5	435.2	433.6	435.2	433.6
27.5°	418.4	416.8	411.6	413.4	410.8	411.6	409.1	410.0	409.1	410.8	409.1
30°	390.5	389.6	386.2	386.2	385.4	384.6	383.8	383.8	382.9	385.4	383.8
32.5°	364.2	361.8	358.4	360.9	356.8	359.2	357.5	359.2	357.5	359.2	358.4
35°	337.2	336.4	332.1	333.0	332.1	332.1	331.4	331.4	331.4	333.9	333.9
37.5°	308.5	307.6	305.1	306.0	304.2	303.5	303.5	305.1	305.1	306.9	306.9
40°	280.6	281.5	278.9	278.9	278.1	278.1	278.1	279.8	278.9	280.6	279.8
42.5°	252.8	252.8	250.2	251.0	250.2	251.0	251.0	252.8	252.8	253.6	252.8
45°	226.5	226.5	225.6	226.5	224.9	225.6	224.9	226.5	225.6	226.5	226.5
47.5°	200.4	200.4	200.4	199.5	199.5	199.5	199.5	199.5	198.6	200.4	199.5
50°	175.8	176.6	175.8	175.8	175.0	175.8	175.0	175.0	173.2	174.1	174.1
52.5°	153.9	153.9	152.1	152.1	152.1	151.2	151.2	151.2	150.5	150.5	148.8
55°	132.8	132.8	131.0	131.0	130.1	129.4	128.5	128.5	126.0	126.0	123.4
57.5°	113.2	112.4	109.9	109.9	108.2	107.4	106.5	105.6	104.0	102.2	101.4
60°	95.5	93.9	92.1	91.2	89.6	87.9	86.2	84.5	82.9	82.0	81.1
62.5°	78.6	76.1	74.4	73.5	71.9	69.2	67.6	65.9	64.2	63.4	61.8
65°	63.4	60.9	58.4	57.5	55.8	54.1	51.5	49.9	48.1	47.4	47.4
67.5°	49.9	47.4	44.0	44.0	42.2	40.6	38.9	37.2	36.4	37.2	37.2
70°	37.2	35.5	33.0	32.1	30.4	28.8	27.9	27.9	27.9	28.8	27.9
72.5°	27.9	25.4	23.6	22.9	22.0	21.1	21.1	21.1	20.2	21.1	21.1
75°	19.5	17.8	16.0	16.0	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	13.5	11.9	11.0	11.0	11.0	10.1	10.1	10.1	10.1	10.1	10.1
80°	8.5	8.5	7.6	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.5	2.5	2.5	2.5	2.5	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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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CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	608.6	608.6	608.6	608.6	608.6	608.6	608.6	608.6
2.5°	601.0	603.5	600.1	602.6	601.9	601.0	599.2	602.6
5°	590.9	591.6	588.2	591.6	590.9	589.1	587.5	590.9
7.5°	576.5	579.0	574.8	578.1	577.2	575.6	573.9	577.2
10°	560.4	562.9	559.5	562.1	562.1	560.4	557.9	561.2
12.5°	542.6	544.4	541.0	544.4	543.5	541.8	541.0	543.5
15°	523.2	525.8	522.4	524.9	524.0	523.2	522.4	524.9
17.5°	502.1	504.6	502.1	504.6	504.6	502.1	501.2	502.9
20°	481.0	482.6	480.1	482.6	481.8	481.8	480.1	482.6
22.5°	457.2	459.8	458.1	459.8	459.0	459.0	458.1	459.8
25°	433.6	436.1	433.6	436.1	435.2	435.2	433.6	437.9
27.5°	410.0	411.6	409.1	412.5	411.6	410.0	410.8	411.6
30°	384.6	386.2	384.6	387.1	387.1	387.1	385.4	387.1
32.5°	359.2	361.8	359.2	361.8	360.9	360.9	360.1	361.8
35°	333.9	334.8	333.0	335.5	335.5	336.4	334.8	337.2
37.5°	307.6	308.5	307.6	308.5	310.2	307.6	309.4	310.2
40°	280.6	282.2	281.5	282.2	282.2	283.1	282.2	283.1
42.5°	253.6	255.2	253.6	256.1	255.2	255.2	256.1	256.1
45°	225.6	228.2	226.5	228.2	229.0	228.2	228.2	229.9
47.5°	199.5	201.1	200.4	201.1	201.1	201.1	201.1	202.9
50°	173.2	174.1	174.1	175.0	175.0	175.8	174.1	175.0
52.5°	147.1	148.8	148.8	148.8	147.9	148.8	148.8	148.8
55°	123.4	124.2	122.5	124.2	124.2	123.4	123.4	125.1
57.5°	100.6	100.6	100.6	100.6	100.6	99.8	100.6	100.6
60°	79.5	80.2	79.5	79.5	79.5	79.5	78.6	80.2
62.5°	61.8	61.8	60.9	61.8	61.8	61.8	62.5	62.5
65°	48.1	49.0	48.1	49.0	49.0	49.0	49.0	49.9
67.5°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
70°	28.8	28.8	28.8	29.6	28.8	28.8	28.8	29.6
72.5°	21.1	21.1	21.1	21.1	21.1	21.1	22.0	22.0
75°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	10.1	10.1	10.1	11.0	10.1	11.0	10.1	10.1
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	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)