

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: P252445

Luminaire Tested: **LE_6B10D010 EC6B10209024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252445
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 EC6B10209024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

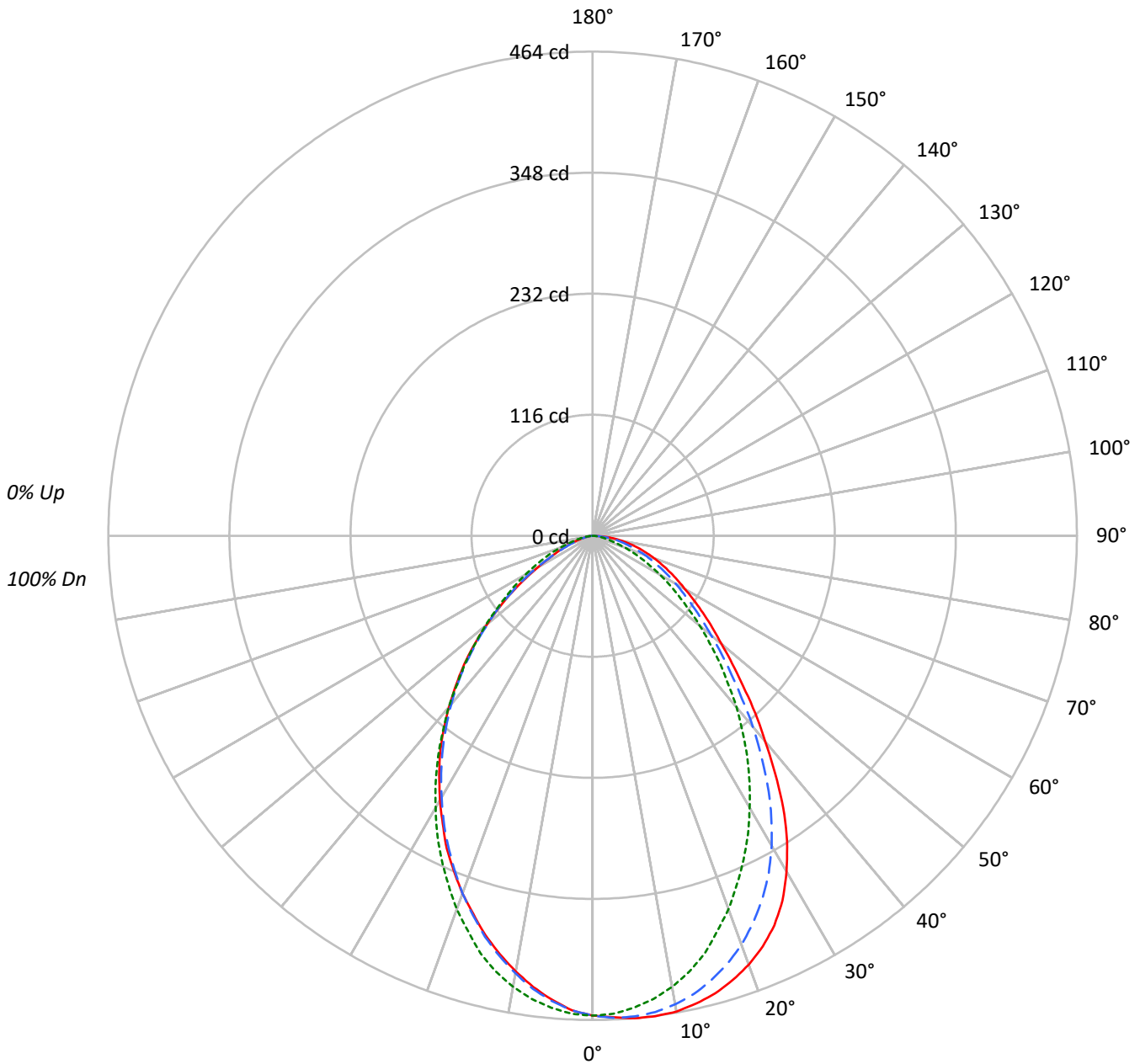
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29998	29998	29998
5°	30400	29732	29235
10°	30672	29069	28089
15°	30664	27996	26780
20°	30368	26424	25313
25°	29651	24633	23813
30°	27994	22660	22035
35°	25375	20548	20293
40°	21922	18277	18217
45°	18803	15906	16036
50°	16331	13611	13408
55°	14673	11477	10749
60°	13322	9669	7907
65°	12520	7996	5804
70°	11941	6218	4273
75°	11444	4512	2899
80°	10820	3081	1916
85°	9581	1871	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	5.3
10°-20°	117.8	14.5
20°-30°	163.5	20.1
30°-40°	169.4	20.8
40°-50°	139.2	17.1
50°-60°	95.7	11.7
60°-70°	55.0	6.7
70°-80°	25.3	3.1
80°-90°	6.1	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°	324.3	39.8
0°-40°	493.7	60.6
0°-60°	728.6	89.4
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	464	462	454	448	446	44
15°	454	441	414	398	396	128
25°	412	384	342	328	331	188
35°	319	292	258	250	255	198
45°	204	188	172	170	174	159
55°	129	117	101	95	94	116
65°	81	71	52	36	38	81
75°	45	36	18	12	12	48
85°	13	9	2	1	1	14
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°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	461.8	465.5	463.0	462.4	463.6	463.6	463.6	461.8	463.0	461.0	462.4
5°	464.2	467.5	464.9	463.6	464.9	465.5	463.6	462.4	464.2	461.8	462.4
7.5°	464.2	467.5	464.9	464.2	464.9	464.9	464.2	461.8	463.0	460.4	460.4
10°	463.0	465.5	463.0	461.8	462.4	461.8	461.8	458.5	459.1	456.0	456.0
12.5°	459.1	462.4	459.1	457.9	457.9	457.9	456.0	453.4	454.0	450.2	449.6
15°	454.0	456.6	453.4	452.1	452.1	451.5	450.2	446.4	446.4	442.5	440.6
17.5°	446.4	448.9	446.4	444.5	443.9	442.5	441.2	437.4	436.1	431.6	429.8
20°	437.4	439.4	436.8	434.9	433.6	432.4	429.8	425.9	424.6	420.2	417.0
22.5°	425.9	428.5	424.6	422.8	421.5	419.5	417.0	413.1	411.2	405.5	401.6
25°	411.9	413.1	410.0	408.0	405.5	404.2	402.2	397.2	395.2	388.9	384.4
27.5°	394.0	395.2	391.5	390.1	387.0	385.8	383.1	378.6	376.1	369.8	365.2
30°	371.6	372.9	370.4	368.5	365.9	363.4	361.5	357.0	353.1	346.8	342.9
32.5°	346.8	348.6	346.1	343.5	339.1	339.8	336.5	332.1	328.9	323.1	318.6
35°	318.6	319.9	316.8	316.1	313.5	311.0	307.8	304.6	302.8	296.2	292.5
37.5°	287.4	290.5	287.4	284.8	283.5	281.6	279.8	275.2	274.0	270.1	265.0
40°	257.4	259.2	257.4	254.8	252.9	252.9	250.4	247.8	244.6	240.8	238.9
42.5°	230.5	229.2	228.6	227.4	224.8	224.1	223.5	220.2	218.4	214.6	211.4
45°	203.8	204.4	203.1	202.4	200.5	199.2	198.0	195.4	194.8	190.9	188.4
47.5°	181.4	180.8	179.5	179.5	178.1	176.9	175.6	173.8	173.0	169.9	167.2
50°	160.9	161.5	160.9	160.2	158.4	157.8	156.5	155.1	153.9	150.8	148.1
52.5°	144.4	143.6	143.0	143.0	141.1	140.5	139.2	137.9	136.6	133.5	131.5
55°	129.0	129.0	128.4	127.8	125.8	125.1	124.5	123.2	121.4	118.8	116.9
57.5°	115.0	115.0	114.2	113.6	112.4	112.4	111.1	109.9	108.5	106.0	103.5
60°	102.1	102.8	102.1	101.5	100.2	100.2	99.6	97.8	97.1	93.9	92.0
62.5°	91.4	91.4	91.4	90.6	90.0	88.8	88.8	86.9	85.6	83.6	81.1
65°	81.1	81.1	81.1	80.5	79.1	78.5	77.9	76.6	75.4	73.4	70.9
67.5°	71.5	71.5	71.5	70.9	69.6	69.0	68.4	67.8	65.8	63.9	61.2
70°	62.6	62.6	62.0	61.2	60.6	60.0	59.4	58.1	56.9	54.2	52.4
72.5°	53.6	53.6	53.6	52.4	51.8	51.8	50.5	49.8	48.5	46.0	44.0
75°	45.4	44.8	44.8	44.0	43.4	42.8	42.1	41.5	39.6	38.4	35.8
77.5°	37.0	37.0	36.4	35.8	35.8	35.1	34.5	33.2	32.6	30.6	28.8
80°	28.8	28.8	28.8	28.8	28.1	27.5	27.5	26.1	25.5	23.6	22.4
82.5°	21.8	21.1	21.1	21.1	20.4	19.8	19.8	19.1	18.5	17.2	16.0
85°	12.8	12.1	12.1	12.1	11.5	11.5	10.9	10.9	10.2	9.0	9.0
87.5°	3.9	3.9	4.5	4.5	3.9	3.9	3.9	3.9	3.9	3.2	3.2
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°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	461.0	463.0	460.4	459.8	462.4	461.0	460.4	459.1	459.8	458.5	456.6
5°	460.4	463.0	459.8	457.9	461.0	459.1	457.9	456.6	456.6	454.0	452.8
7.5°	458.5	459.8	456.6	454.6	456.6	454.6	453.4	451.5	450.9	447.6	445.8
10°	453.4	454.6	450.9	448.2	450.2	447.6	445.8	443.9	442.5	438.8	436.1
12.5°	446.4	447.0	442.5	439.4	440.6	438.8	435.5	433.0	431.6	427.9	424.6
15°	436.8	437.4	432.4	427.9	429.1	426.6	422.8	420.2	418.2	414.5	410.0
17.5°	425.2	424.6	418.9	414.5	415.1	411.9	408.0	404.2	401.6	397.2	394.0
20°	412.5	410.6	404.2	399.1	399.8	395.9	391.5	387.6	384.4	380.6	376.1
22.5°	396.5	394.0	388.2	381.9	382.5	379.4	372.9	369.8	366.5	361.5	357.6
25°	379.4	375.5	369.8	363.4	363.4	359.5	354.4	350.6	347.4	342.2	337.8
27.5°	358.9	357.0	349.2	344.2	343.5	339.8	335.2	330.8	327.0	322.5	318.0
30°	336.5	333.4	327.6	321.9	320.6	317.4	312.9	307.8	305.2	300.8	297.0
32.5°	312.9	309.8	303.4	297.6	297.0	294.4	290.5	285.5	282.9	279.8	277.1
35°	286.1	284.8	278.4	274.0	274.0	271.4	267.6	263.1	261.1	258.0	254.8
37.5°	260.5	258.6	252.9	249.0	249.0	245.9	242.0	240.1	238.2	235.6	233.8
40°	233.8	232.5	228.0	224.1	224.8	222.2	219.6	217.1	215.9	214.6	212.6
42.5°	208.9	207.5	204.4	201.1	201.1	199.2	196.6	194.8	193.5	191.6	190.9
45°	186.5	184.5	182.0	178.8	178.8	176.9	175.6	174.4	173.8	172.4	170.5
47.5°	164.8	163.5	160.9	157.8	157.8	157.8	155.1	153.2	153.2	152.0	151.4
50°	146.2	144.4	142.4	139.9	139.9	138.6	136.6	134.8	134.8	134.1	132.9
52.5°	129.0	127.8	125.1	122.6	122.6	121.4	119.4	118.8	118.1	116.2	115.6
55°	114.2	113.0	111.1	107.9	107.2	106.6	104.8	103.5	102.8	100.9	100.9
57.5°	100.9	99.6	96.4	94.5	93.9	92.6	90.6	89.4	88.8	87.5	86.2
60°	89.4	87.5	84.9	82.4	81.8	80.5	78.5	77.2	76.6	74.1	72.8
62.5°	78.5	76.6	74.1	71.5	70.9	69.6	67.0	65.8	64.5	62.0	60.6
65°	68.4	66.4	63.9	61.2	60.0	59.4	56.9	54.9	53.6	51.8	49.1
67.5°	58.8	56.9	54.2	51.1	51.1	49.1	47.2	45.4	43.4	41.5	39.6
70°	49.8	47.9	45.4	42.8	42.1	40.9	39.0	36.4	35.1	32.6	30.6
72.5°	41.5	39.6	37.0	34.5	33.9	32.6	30.6	28.1	26.1	24.2	22.4
75°	33.9	31.9	29.4	27.5	26.9	25.5	23.6	21.1	19.1	17.9	16.0
77.5°	26.9	24.9	23.0	21.1	20.4	19.1	17.2	16.0	14.0	12.8	10.9
80°	20.4	19.1	17.2	16.0	15.4	14.0	12.8	10.9	9.6	8.2	7.6
82.5°	14.6	13.4	12.1	10.2	10.2	9.0	8.2	7.0	5.8	5.1	4.5
85°	8.2	7.0	6.4	5.8	5.1	5.1	4.5	3.9	3.2	2.5	2.5
87.5°	2.5	2.5	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	456.6	457.2	456.0	457.2	456.0	456.6	455.2	456.6	455.2	456.6	454.0
5°	452.1	452.1	450.2	451.5	450.2	450.9	448.2	448.9	447.6	448.9	446.4
7.5°	444.5	445.1	441.9	443.1	441.2	441.2	439.4	440.0	438.1	438.8	436.8
10°	435.5	434.9	431.6	433.0	430.4	430.4	428.5	428.5	425.9	426.6	424.0
12.5°	422.8	422.1	418.2	419.5	417.0	417.0	415.1	415.1	412.5	413.8	411.2
15°	408.0	407.4	403.6	404.2	401.6	401.6	399.1	399.8	397.9	399.1	396.5
17.5°	391.5	390.9	387.0	387.6	384.4	385.1	383.1	382.5	381.2	381.9	380.0
20°	374.2	372.9	369.1	369.8	368.5	366.5	365.2	365.9	364.6	365.9	364.0
22.5°	356.4	353.8	350.6	350.6	349.2	349.2	347.4	348.6	346.1	348.0	346.8
25°	335.9	334.0	331.4	332.8	330.1	330.1	328.2	328.9	327.6	328.9	327.6
27.5°	316.1	314.9	311.0	312.2	310.4	311.0	309.1	309.8	309.1	310.4	309.1
30°	295.0	294.4	291.9	291.9	291.2	290.5	289.9	289.9	289.2	291.2	289.9
32.5°	275.2	273.4	270.8	272.6	269.5	271.4	270.1	271.4	270.1	271.4	270.8
35°	254.8	254.1	251.0	251.6	251.0	251.0	250.4	250.4	250.4	252.2	252.2
37.5°	233.1	232.5	230.5	231.1	229.9	229.2	229.2	230.5	230.5	231.8	231.8
40°	212.0	212.6	210.8	210.8	210.1	210.1	210.1	211.4	210.8	212.0	211.4
42.5°	190.9	190.9	189.0	189.6	189.0	189.6	189.6	190.9	190.9	191.6	190.9
45°	171.1	171.1	170.5	171.1	169.9	170.5	169.9	171.1	170.5	171.1	171.1
47.5°	151.4	151.4	151.4	150.8	150.8	150.8	150.8	150.8	150.1	151.4	150.8
50°	132.9	133.5	132.9	132.9	132.1	132.9	132.1	132.1	130.9	131.5	131.5
52.5°	116.2	116.2	115.0	115.0	115.0	114.2	114.2	114.2	113.6	113.6	112.4
55°	100.2	100.2	99.0	99.0	98.4	97.8	97.1	97.1	95.1	95.1	93.2
57.5°	85.6	84.9	83.0	83.0	81.8	81.1	80.5	79.9	78.5	77.2	76.6
60°	72.1	70.9	69.6	69.0	67.8	66.4	65.1	63.9	62.6	62.0	61.2
62.5°	59.4	57.5	56.2	55.5	54.2	52.4	51.1	49.8	48.5	47.9	46.6
65°	47.9	46.0	44.0	43.4	42.1	40.9	39.0	37.6	36.4	35.8	35.8
67.5°	37.6	35.8	33.2	33.2	31.9	30.6	29.4	28.1	27.5	28.1	28.1
70°	28.1	26.9	24.9	24.2	23.0	21.8	21.1	21.1	21.1	21.8	21.1
72.5°	21.1	19.1	17.9	17.2	16.6	16.0	16.0	16.0	15.4	16.0	16.0
75°	14.6	13.4	12.1	12.1	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	10.2	9.0	8.2	8.2	8.2	7.6	7.6	7.6	7.6	7.6	7.6
80°	6.4	6.4	5.8	5.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	3.9	3.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.9	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252445

CATALOG NUMBER: LE_6B10D010 EC6B10209024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	454.0	456.0	453.4	455.2	454.6	454.0	452.8	455.2
5°	446.4	447.0	444.5	447.0	446.4	445.1	443.9	446.4
7.5°	435.5	437.4	434.2	436.8	436.1	434.9	433.6	436.1
10°	423.4	425.2	422.8	424.6	424.6	423.4	421.5	424.0
12.5°	410.0	411.2	408.8	411.2	410.6	409.4	408.8	410.6
15°	395.2	397.2	394.6	396.5	395.9	395.2	394.6	396.5
17.5°	379.4	381.2	379.4	381.2	381.2	379.4	378.6	380.0
20°	363.4	364.6	362.8	364.6	364.0	364.0	362.8	364.6
22.5°	345.5	347.4	346.1	347.4	346.8	346.8	346.1	347.4
25°	327.6	329.5	327.6	329.5	328.9	328.9	327.6	330.8
27.5°	309.8	311.0	309.1	311.6	311.0	309.8	310.4	311.0
30°	290.5	291.9	290.5	292.5	292.5	292.5	291.2	292.5
32.5°	271.4	273.4	271.4	273.4	272.6	272.6	272.0	273.4
35°	252.2	252.9	251.6	253.5	253.5	254.1	252.9	254.8
37.5°	232.5	233.1	232.5	233.1	234.4	232.5	233.8	234.4
40°	212.0	213.2	212.6	213.2	213.2	213.9	213.2	213.9
42.5°	191.6	192.9	191.6	193.5	192.9	192.9	193.5	193.5
45°	170.5	172.4	171.1	172.4	173.0	172.4	172.4	173.8
47.5°	150.8	152.0	151.4	152.0	152.0	152.0	152.0	153.2
50°	130.9	131.5	131.5	132.1	132.1	132.9	131.5	132.1
52.5°	111.1	112.4	112.4	112.4	111.8	112.4	112.4	112.4
55°	93.2	93.9	92.6	93.9	93.9	93.2	93.2	94.5
57.5°	76.0	76.0	76.0	76.0	76.0	75.4	76.0	76.0
60°	60.0	60.6	60.0	60.0	60.0	60.0	59.4	60.6
62.5°	46.6	46.6	46.0	46.6	46.6	46.6	47.2	47.2
65°	36.4	37.0	36.4	37.0	37.0	37.0	37.0	37.6
67.5°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
70°	21.8	21.8	21.8	22.4	21.8	21.8	21.8	22.4
72.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.6	16.6
75°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	7.6	7.6	7.6	8.2	7.6	8.2	7.6	7.6
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
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)