

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: P252448

Luminaire Tested: **LE_6B10D010 EC6B10209035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252448
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 EC6B10209035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 977.5 lumens
Efficiency: N/A
Efficacy: 97.7 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

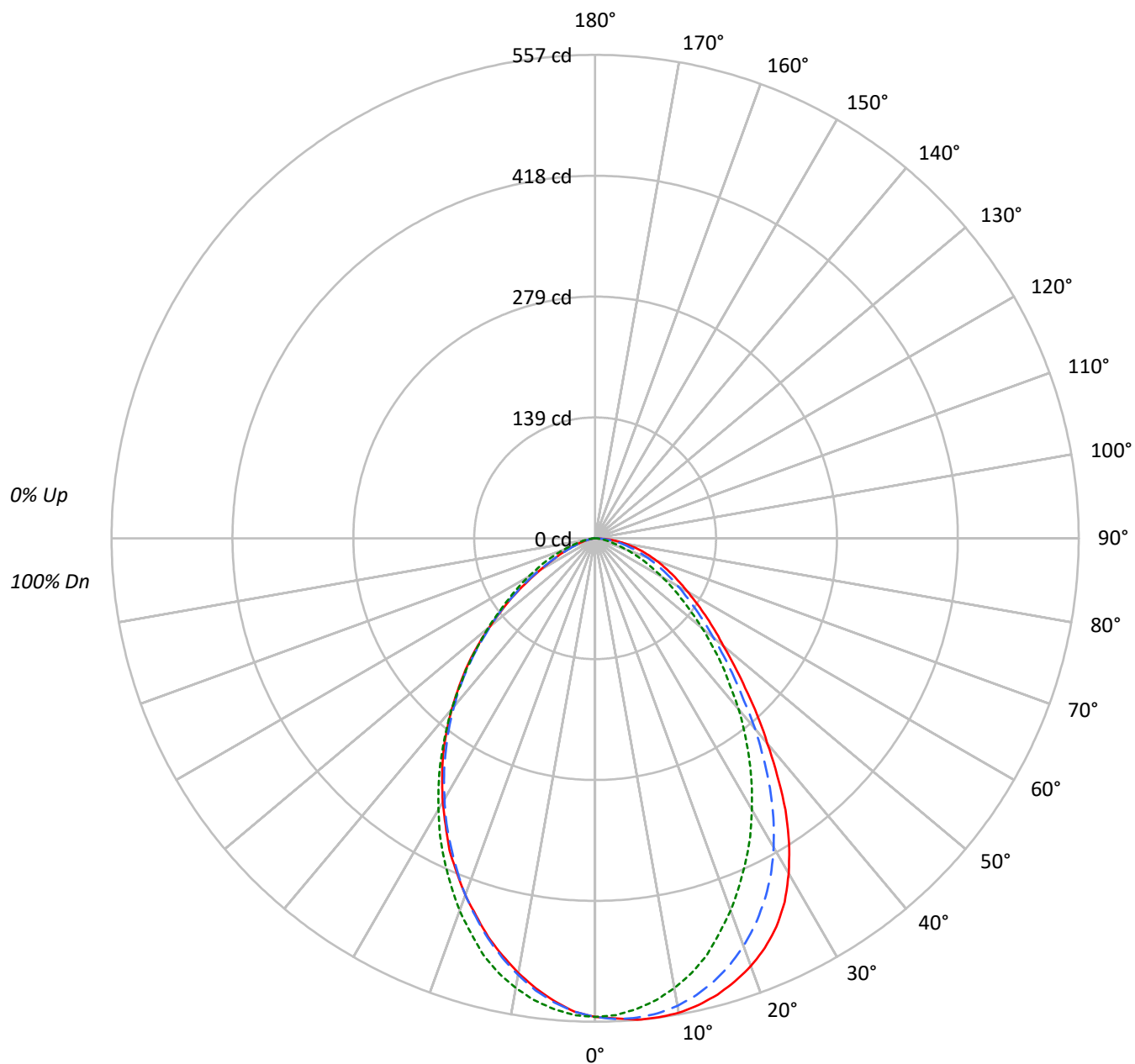
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	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°	35980	35980	35980
5°	36471	35659	35063
10°	36780	34853	33693
15°	36777	33575	32123
20°	36422	31694	30368
25°	35561	29550	28564
30°	33584	27180	26427
35°	30440	24642	24339
40°	26282	21922	21853
45°	22549	19080	19228
50°	19589	16331	16087
55°	17608	13763	12899
60°	15984	11600	9499
65°	15005	9571	6978
70°	14306	7439	5112
75°	13713	5420	3479
80°	12962	3757	2292
85°	11528	2321	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	5.3
10°-20°	141.3	14.5
20°-30°	196.1	20.1
30°-40°	203.2	20.8
40°-50°	166.9	17.1
50°-60°	114.7	11.7
60°-70°	66.0	6.7
70°-80°	30.3	3.1
80°-90°	7.4	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°	389.0	39.8
0°-40°	592.2	60.6
0°-60°	873.8	89.4
0°-90°	977.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	557	554	544	537	535	53
15°	544	528	497	477	476	153
25°	494	461	410	393	397	226
35°	382	351	309	300	306	237
45°	244	226	207	204	208	190
55°	155	140	121	114	113	139
65°	97	85	62	44	45	97
75°	54	43	22	14	14	57
85°	15	11	3	2	2	17
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°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	553.8	558.4	555.2	554.5	556.0	556.0	556.0	553.8	555.2	553.0	554.5
5°	556.9	560.6	557.6	556.0	557.6	558.4	556.0	554.5	556.9	553.8	554.5
7.5°	556.9	560.6	557.6	556.9	557.6	557.6	556.9	553.8	555.2	552.2	552.2
10°	555.2	558.4	555.2	553.8	554.5	553.8	553.8	549.9	550.8	546.9	546.9
12.5°	550.8	554.5	550.8	549.1	549.1	549.1	546.9	543.8	544.5	540.0	539.2
15°	544.5	547.6	543.8	542.2	542.2	541.5	540.0	535.4	535.4	530.8	528.5
17.5°	535.4	538.4	535.4	533.1	532.2	530.8	529.2	524.6	523.1	517.8	515.5
20°	524.6	527.0	523.9	521.6	520.0	518.5	515.5	510.9	509.4	504.0	500.1
22.5°	510.9	513.9	509.4	507.0	505.5	503.2	500.1	495.5	493.2	486.4	481.8
25°	494.0	495.5	491.8	489.4	486.4	484.9	482.5	476.4	474.1	466.5	461.1
27.5°	472.6	474.1	469.5	468.0	464.1	462.6	459.5	454.1	451.1	443.5	438.1
30°	445.8	447.2	444.2	441.9	438.9	435.8	433.5	428.1	423.5	415.9	411.2
32.5°	415.9	418.1	415.1	412.0	406.8	407.5	403.6	398.2	394.5	387.5	382.2
35°	382.2	383.8	379.9	379.1	376.0	373.0	369.1	365.4	363.0	355.4	350.8
37.5°	344.6	348.5	344.6	341.6	340.1	337.8	335.5	330.1	328.6	324.0	317.9
40°	308.6	311.0	308.6	305.6	303.2	303.2	300.2	297.1	293.4	288.8	286.5
42.5°	276.5	275.0	274.2	272.6	269.6	268.9	268.1	264.2	262.0	257.4	253.5
45°	244.4	245.1	243.5	242.8	240.5	239.0	237.4	234.4	233.6	229.0	226.0
47.5°	217.5	216.8	215.2	215.2	213.8	212.1	210.6	208.4	207.5	203.8	200.6
50°	193.0	193.8	193.0	192.2	190.0	189.1	187.6	186.1	184.6	180.8	177.8
52.5°	173.1	172.4	171.6	171.6	169.2	168.5	167.0	165.4	163.9	160.1	157.8
55°	154.8	154.8	154.0	153.1	150.9	150.1	149.4	147.9	145.5	142.5	140.1
57.5°	137.9	137.9	137.1	136.4	134.8	134.8	133.2	131.8	130.2	127.1	124.1
60°	122.5	123.2	122.5	121.8	120.2	120.2	119.5	117.1	116.4	112.6	110.2
62.5°	109.5	109.5	109.5	108.8	108.0	106.5	106.5	104.1	102.6	100.4	97.2
65°	97.2	97.2	97.2	96.5	95.0	94.2	93.5	91.9	90.4	88.1	85.0
67.5°	85.8	85.8	85.8	85.0	83.5	82.8	82.0	81.1	78.9	76.6	73.5
70°	75.0	75.0	74.2	73.5	72.8	72.0	71.2	69.8	68.1	65.1	62.8
72.5°	64.4	64.4	64.4	62.8	62.0	62.0	60.5	59.8	58.2	55.1	52.9
75°	54.4	53.6	53.6	52.9	52.1	51.4	50.5	49.8	47.5	46.0	42.9
77.5°	44.4	44.4	43.6	42.9	42.9	42.1	41.4	39.9	39.0	36.8	34.5
80°	34.5	34.5	34.5	34.5	33.8	32.9	32.9	31.4	30.6	28.4	26.8
82.5°	26.0	25.2	25.2	25.2	24.5	23.8	23.8	23.0	22.2	20.6	19.1
85°	15.4	14.5	14.5	14.5	13.8	13.8	13.0	13.0	12.2	10.8	10.8
87.5°	4.6	4.6	5.4	5.4	4.6	4.6	4.6	4.6	4.6	3.9	3.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	553.0	555.2	552.2	551.5	554.5	553.0	552.2	550.8	551.5	549.9	547.6
5°	552.2	555.2	551.5	549.1	553.0	550.8	549.1	547.6	547.6	544.5	543.0
7.5°	549.9	551.5	547.6	545.4	547.6	545.4	543.8	541.5	540.8	536.9	534.6
10°	543.8	545.4	540.8	537.6	540.0	536.9	534.6	532.2	530.8	526.1	523.1
12.5°	535.4	536.1	530.8	527.0	528.5	526.1	522.4	519.2	517.8	513.1	509.4
15°	523.9	524.6	518.5	513.1	514.8	511.6	507.0	504.0	501.6	497.1	491.8
17.5°	510.1	509.4	502.4	497.1	497.9	494.0	489.4	484.9	481.8	476.4	472.6
20°	494.8	492.5	484.9	478.8	479.5	474.9	469.5	464.9	461.1	456.5	451.1
22.5°	475.6	472.6	465.6	458.0	458.8	455.0	447.2	443.5	439.6	433.5	428.9
25°	455.0	450.4	443.5	435.8	435.8	431.2	425.1	420.5	416.6	410.5	405.1
27.5°	430.5	428.1	419.0	412.9	412.0	407.5	402.1	396.8	392.1	386.8	381.4
30°	403.6	399.8	392.9	386.0	384.5	380.6	375.2	369.1	366.1	360.8	356.1
32.5°	375.2	371.5	363.8	356.9	356.1	353.1	348.5	342.4	339.2	335.5	332.4
35°	343.1	341.6	333.9	328.6	328.6	325.5	320.9	315.5	313.2	309.4	305.6
37.5°	312.5	310.2	303.2	298.8	298.8	294.9	290.2	288.0	285.6	282.6	280.4
40°	280.4	278.8	273.4	268.9	269.6	266.5	263.5	260.4	258.9	257.4	255.0
42.5°	250.5	248.9	245.1	241.2	241.2	239.0	235.9	233.6	232.1	229.8	229.0
45°	223.6	221.4	218.2	214.5	214.5	212.1	210.6	209.1	208.4	206.8	204.5
47.5°	197.6	196.1	193.0	189.1	189.1	189.1	186.1	183.9	183.9	182.2	181.5
50°	175.4	173.1	170.8	167.8	167.8	166.2	163.9	161.6	161.6	160.9	159.2
52.5°	154.8	153.1	150.1	147.0	147.0	145.5	143.2	142.5	141.8	139.4	138.6
55°	137.1	135.6	133.2	129.5	128.6	127.9	125.6	124.1	123.2	121.0	121.0
57.5°	121.0	119.5	115.6	113.4	112.6	111.0	108.8	107.2	106.5	104.9	103.4
60°	107.2	104.9	101.9	98.8	98.0	96.5	94.2	92.6	91.9	88.9	87.4
62.5°	94.2	91.9	88.9	85.8	85.0	83.5	80.4	78.9	77.4	74.2	72.8
65°	82.0	79.6	76.6	73.5	72.0	71.2	68.1	65.9	64.4	62.0	59.0
67.5°	70.5	68.1	65.1	61.2	61.2	59.0	56.6	54.4	52.1	49.8	47.5
70°	59.8	57.5	54.4	51.4	50.5	49.0	46.8	43.6	42.1	39.0	36.8
72.5°	49.8	47.5	44.4	41.4	40.6	39.0	36.8	33.8	31.4	29.1	26.8
75°	40.6	38.2	35.2	32.9	32.1	30.6	28.4	25.2	23.0	21.5	19.1
77.5°	32.1	29.9	27.6	25.2	24.5	23.0	20.6	19.1	16.9	15.4	13.0
80°	24.5	23.0	20.6	19.1	18.4	16.9	15.4	13.0	11.5	10.0	9.2
82.5°	17.6	16.1	14.5	12.2	12.2	10.8	10.0	8.4	6.9	6.1	5.4
85°	10.0	8.4	7.6	6.9	6.1	6.1	5.4	4.6	3.9	3.1	3.1
87.5°	3.1	3.1	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	547.6	548.4	546.9	548.4	546.9	547.6	546.1	547.6	546.1	547.6	544.5
5°	542.2	542.2	540.0	541.5	540.0	540.8	537.6	538.4	536.9	538.4	535.4
7.5°	533.1	533.9	530.0	531.5	529.2	529.2	527.0	527.8	525.4	526.1	523.9
10°	522.4	521.6	517.8	519.2	516.2	516.2	513.9	513.9	510.9	511.6	508.6
12.5°	507.0	506.2	501.6	503.2	500.1	500.1	497.9	497.9	494.8	496.2	493.2
15°	489.4	488.6	484.0	484.9	481.8	481.8	478.8	479.5	477.1	478.8	475.6
17.5°	469.5	468.8	464.1	464.9	461.1	461.9	459.5	458.8	457.2	458.0	455.8
20°	448.9	447.2	442.8	443.5	441.9	439.6	438.1	438.9	437.4	438.9	436.6
22.5°	427.4	424.4	420.5	420.5	419.0	419.0	416.6	418.1	415.1	417.4	415.9
25°	402.9	400.6	397.5	399.0	396.0	396.0	393.6	394.5	392.9	394.5	392.9
27.5°	379.1	377.6	373.0	374.5	372.2	373.0	370.8	371.5	370.8	372.2	370.8
30°	353.9	353.1	350.0	350.0	349.2	348.5	347.8	347.8	347.0	349.2	347.8
32.5°	330.1	327.8	324.8	327.0	323.2	325.5	324.0	325.5	324.0	325.5	324.8
35°	305.6	304.9	301.0	301.8	301.0	301.0	300.2	300.2	300.2	302.5	302.5
37.5°	279.5	278.8	276.5	277.2	275.8	275.0	275.0	276.5	276.5	278.0	278.0
40°	254.2	255.0	252.8	252.8	252.0	252.0	252.0	253.5	252.8	254.2	253.5
42.5°	229.0	229.0	226.8	227.5	226.8	227.5	227.5	229.0	229.0	229.8	229.0
45°	205.2	205.2	204.5	205.2	203.8	204.5	203.8	205.2	204.5	205.2	205.2
47.5°	181.5	181.5	181.5	180.8	180.8	180.8	180.8	180.8	180.0	181.5	180.8
50°	159.2	160.1	159.2	159.2	158.5	159.2	158.5	158.5	157.0	157.8	157.8
52.5°	139.4	139.4	137.9	137.9	137.9	137.1	137.1	137.1	136.4	136.4	134.8
55°	120.2	120.2	118.8	118.8	118.0	117.1	116.4	116.4	114.1	114.1	111.9
57.5°	102.6	101.9	99.6	99.6	98.0	97.2	96.5	95.8	94.2	92.6	91.9
60°	86.5	85.0	83.5	82.8	81.1	79.6	78.1	76.6	75.0	74.2	73.5
62.5°	71.2	68.9	67.4	66.6	65.1	62.8	61.2	59.8	58.2	57.5	55.9
65°	57.5	55.1	52.9	52.1	50.5	49.0	46.8	45.2	43.6	42.9	42.9
67.5°	45.2	42.9	39.9	39.9	38.2	36.8	35.2	33.8	32.9	33.8	33.8
70°	33.8	32.1	29.9	29.1	27.6	26.0	25.2	25.2	25.2	26.0	25.2
72.5°	25.2	23.0	21.5	20.6	19.9	19.1	19.1	19.1	18.4	19.1	19.1
75°	17.6	16.1	14.5	14.5	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	12.2	10.8	10.0	10.0	10.0	9.2	9.2	9.2	9.2	9.2	9.2
80°	7.6	7.6	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5
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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CATALOG NUMBER: LE_6B10D010 EC6B10209035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	544.5	546.9	543.8	546.1	545.4	544.5	543.0	546.1
5°	535.4	536.1	533.1	536.1	535.4	533.9	532.2	535.4
7.5°	522.4	524.6	520.9	523.9	523.1	521.6	520.0	523.1
10°	507.8	510.1	507.0	509.4	509.4	507.8	505.5	508.6
12.5°	491.8	493.2	490.1	493.2	492.5	491.0	490.1	492.5
15°	474.1	476.4	473.4	475.6	474.9	474.1	473.4	475.6
17.5°	455.0	457.2	455.0	457.2	457.2	455.0	454.1	455.8
20°	435.8	437.4	435.0	437.4	436.6	436.6	435.0	437.4
22.5°	414.4	416.6	415.1	416.6	415.9	415.9	415.1	416.6
25°	392.9	395.2	392.9	395.2	394.5	394.5	392.9	396.8
27.5°	371.5	373.0	370.8	373.8	373.0	371.5	372.2	373.0
30°	348.5	350.0	348.5	350.8	350.8	350.8	349.2	350.8
32.5°	325.5	327.8	325.5	327.8	327.0	327.0	326.2	327.8
35°	302.5	303.2	301.8	304.1	304.1	304.9	303.2	305.6
37.5°	278.8	279.5	278.8	279.5	281.1	278.8	280.4	281.1
40°	254.2	255.9	255.0	255.9	255.9	256.6	255.9	256.6
42.5°	229.8	231.2	229.8	232.1	231.2	231.2	232.1	232.1
45°	204.5	206.8	205.2	206.8	207.5	206.8	206.8	208.4
47.5°	180.8	182.2	181.5	182.2	182.2	182.2	182.2	183.9
50°	157.0	157.8	157.8	158.5	158.5	159.2	157.8	158.5
52.5°	133.2	134.8	134.8	134.8	134.0	134.8	134.8	134.8
55°	111.9	112.6	111.0	112.6	112.6	111.9	111.9	113.4
57.5°	91.1	91.1	91.1	91.1	91.1	90.4	91.1	91.1
60°	72.0	72.8	72.0	72.0	72.0	72.0	71.2	72.8
62.5°	55.9	55.9	55.1	55.9	55.9	55.9	56.6	56.6
65°	43.6	44.4	43.6	44.4	44.4	44.4	44.4	45.2
67.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
70°	26.0	26.0	26.0	26.8	26.0	26.0	26.0	26.8
72.5°	19.1	19.1	19.1	19.1	19.1	19.1	19.9	19.9
75°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	9.2	9.2	9.2	10.0	9.2	10.0	9.2	9.2
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
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)