

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: P252658

Luminaire Tested: **LE_6B10D010 EC6B10209050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1081.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

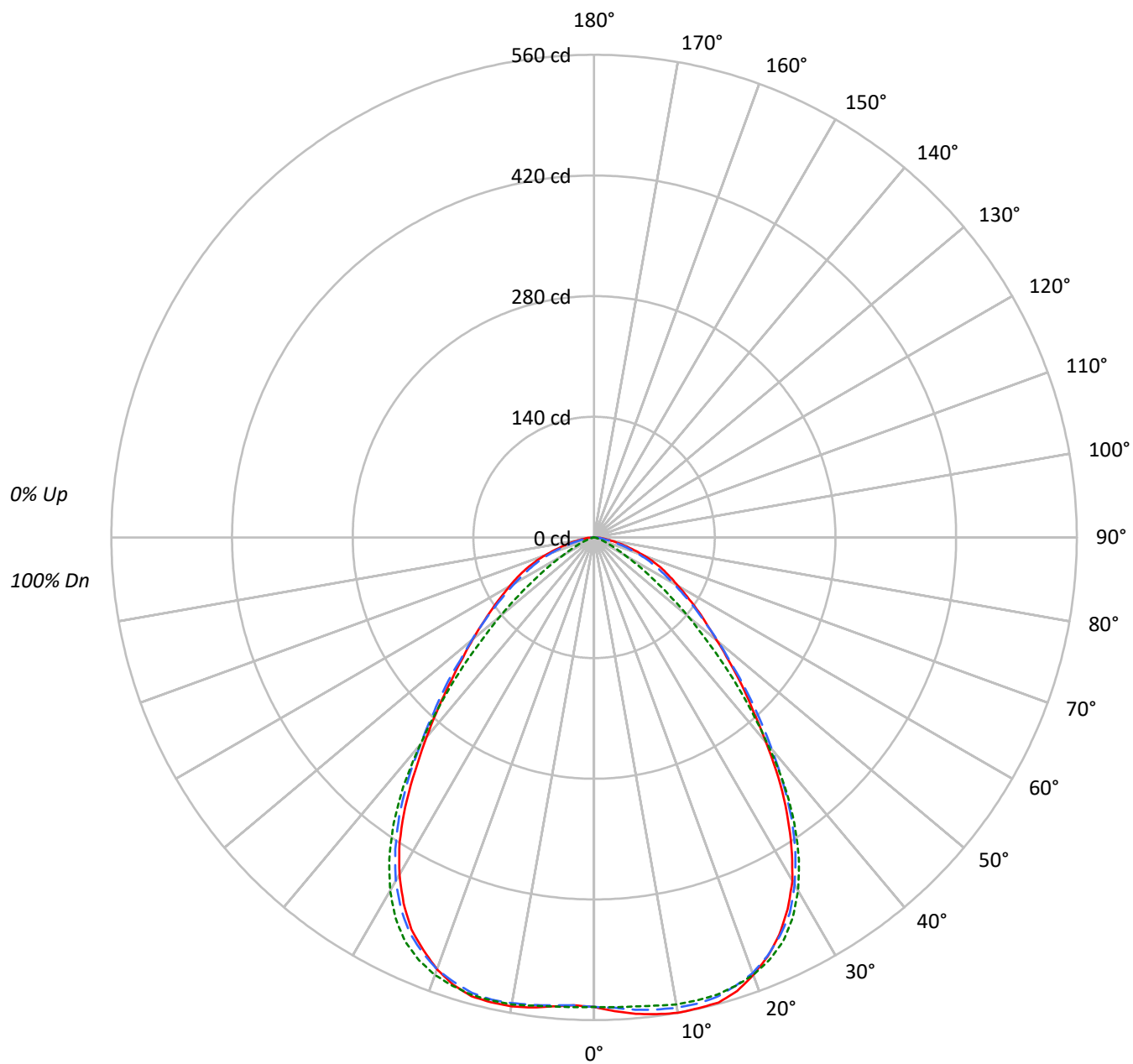
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75	93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65	87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58	80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52	75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47	70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42	66	54	47	42		53	47	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	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	35543	35543	35543
5°	36334	35771	35771
10°	37105	36443	36602
15°	37729	37108	37209
20°	37498	37498	37019
25°	36604	37274	36108
30°	34653	35640	34013
35°	31053	32272	30432
40°	26384	26708	25720
45°	22328	20400	21544
50°	18858	14392	18614
55°	16561	9281	16390
60°	14679	5532	14770
65°	13569	3334	13569
70°	11750	1908	11464
75°	9327	1160	8722
80°	6951	827	6688
85°	6363	599	5839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	4.9
10°-20°	155.2	14.4
20°-30°	233.4	21.6
30°-40°	245.4	22.7
40°-50°	183.4	17.0
50°-60°	114.1	10.6
60°-70°	64.9	6.0
70°-80°	26.7	2.5
80°-90°	5.5	0.5
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°	441.1	40.8
0°-40°	686.6	63.5
0°-60°	984.1	91.0
0°-90°	1081.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	545	545	545	545	545	
5°	555	550	546	545	546	53
15°	559	552	549	547	551	157
25°	508	510	518	506	502	233
35°	390	400	405	394	382	242
45°	242	247	221	243	234	188
55°	146	142	82	140	144	131
65°	88	79	22	79	88	87
75°	37	29	5	28	35	40
85°	8	5	1	5	8	9
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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	550.1	549.4	550.1	548.6	547.9	547.9	548.6	547.1	546.2	547.1	546.2
5°	554.8	553.2	554.0	553.2	551.8	551.8	552.5	550.1	550.1	550.9	550.1
7.5°	557.9	557.9	557.9	556.4	555.5	554.8	556.4	554.0	553.2	553.2	552.5
10°	560.1	559.4	560.1	558.6	557.1	556.4	557.9	556.4	554.8	556.4	554.0
12.5°	559.4	559.4	559.4	558.6	557.1	556.4	557.9	555.5	554.8	555.5	554.0
15°	558.6	556.4	557.1	556.4	554.0	554.0	554.8	552.5	550.9	553.2	551.8
17.5°	551.8	550.1	550.9	549.4	547.9	547.1	547.9	547.1	545.5	547.1	545.5
20°	540.1	540.1	540.9	539.4	537.9	537.0	538.6	537.0	535.5	537.9	537.9
22.5°	526.2	526.2	526.2	525.5	524.8	524.8	524.8	524.0	523.1	524.8	525.5
25°	508.5	507.8	508.5	509.4	508.5	507.8	508.5	508.5	507.0	510.1	510.1
27.5°	486.2	486.2	487.8	487.0	487.0	486.2	487.8	487.8	487.0	489.2	491.6
30°	460.0	458.5	460.0	460.0	460.8	460.8	461.5	461.5	461.5	463.9	465.4
32.5°	426.1	426.9	429.1	428.4	427.6	430.0	430.0	431.5	432.2	433.8	434.6
35°	389.9	390.6	390.6	391.4	393.0	391.4	395.2	394.5	395.2	398.4	399.9
37.5°	351.4	349.0	352.9	351.4	352.1	352.1	353.6	354.5	356.8	360.6	360.6
40°	309.8	310.5	312.0	312.9	313.6	313.6	313.6	315.9	316.6	321.2	320.5
42.5°	273.5	273.5	275.1	275.9	275.9	275.9	275.9	278.1	279.8	281.2	282.8
45°	242.0	239.6	241.1	241.1	242.8	242.0	243.5	245.0	245.8	248.1	247.4
47.5°	211.9	211.1	211.9	212.6	211.9	212.6	213.4	214.2	215.0	215.0	215.0
50°	185.8	185.8	186.5	187.2	187.2	187.2	187.2	188.0	188.0	189.5	188.0
52.5°	164.1	164.9	164.9	164.1	164.9	164.9	165.6	165.6	164.9	164.9	162.6
55°	145.6	144.9	145.6	144.9	145.6	145.6	144.9	144.9	144.1	143.4	142.5
57.5°	127.9	127.9	127.9	127.9	127.1	127.9	127.1	126.4	126.4	124.9	122.5
60°	112.5	112.5	112.5	112.5	112.5	111.8	112.5	111.8	110.1	108.6	105.5
62.5°	99.4	98.6	99.4	98.6	98.6	97.9	97.9	97.1	95.5	94.0	90.9
65°	87.9	88.6	87.9	87.9	87.1	86.2	86.2	85.5	83.2	81.6	78.6
67.5°	75.5	74.8	74.8	74.8	74.0	74.0	74.0	72.4	70.9	68.6	65.5
70°	61.6	61.6	61.6	60.9	60.9	60.1	60.1	59.4	57.8	56.2	52.4
72.5°	48.5	48.5	48.5	47.0	47.8	47.0	47.0	45.5	44.8	42.4	40.1
75°	37.0	37.0	36.2	36.2	35.5	34.6	34.6	33.9	33.1	31.6	29.2
77.5°	27.0	27.0	27.0	26.2	25.4	24.6	24.6	23.9	23.1	22.4	20.8
80°	18.5	18.5	18.5	18.5	17.8	17.0	17.0	16.1	16.1	15.4	13.9
82.5°	12.4	12.4	12.4	12.4	11.5	11.5	11.5	10.8	10.0	10.0	8.5
85°	8.5	8.5	7.8	7.8	7.8	7.8	6.9	6.9	6.1	5.4	5.4
87.5°	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.9	3.1	3.1	2.2
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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	548.6	548.6	547.9	545.5	546.2	545.5	546.2	545.5	543.2	545.5	543.2
5°	551.8	552.5	550.9	547.9	548.6	547.9	547.9	547.1	544.8	546.2	544.8
7.5°	554.8	554.0	553.2	550.1	550.9	550.1	550.1	548.6	546.2	547.9	545.5
10°	556.4	556.4	554.8	551.8	551.8	550.9	551.8	550.9	547.9	550.1	548.6
12.5°	556.4	555.5	555.5	551.8	552.5	551.8	552.5	550.9	548.6	550.1	549.4
15°	554.0	554.0	553.2	549.4	550.1	550.1	550.9	549.4	547.1	549.4	547.9
17.5°	549.4	549.4	548.6	545.5	547.1	547.1	547.9	546.2	544.0	545.5	545.5
20°	540.1	540.9	540.9	538.6	540.1	540.1	540.9	540.1	539.4	540.1	538.6
22.5°	529.4	530.9	530.9	528.6	530.1	530.1	532.4	531.6	530.1	530.9	530.1
25°	513.1	514.8	516.2	514.8	516.2	516.2	518.5	517.8	516.2	517.8	515.5
27.5°	494.6	495.5	497.0	495.5	497.8	497.0	499.2	498.5	496.2	498.5	497.8
30°	468.5	471.5	473.9	471.5	473.9	473.9	475.4	474.6	473.9	473.1	473.1
32.5°	439.2	442.2	442.2	441.5	443.0	443.0	443.9	442.2	441.5	442.2	443.0
35°	403.0	404.5	406.1	405.2	406.1	406.9	406.1	406.9	404.5	405.2	405.2
37.5°	363.6	365.2	365.2	362.9	364.5	364.5	362.9	362.9	361.4	362.9	359.9
40°	322.1	320.5	321.2	319.8	318.2	318.2	317.5	314.4	312.9	313.6	314.4
42.5°	281.2	281.2	278.9	275.1	271.2	271.2	268.9	267.4	264.2	265.9	265.0
45°	246.6	242.8	239.6	233.5	231.1	229.6	225.8	221.9	220.4	221.1	220.4
47.5°	213.4	210.4	202.6	194.1	191.9	189.5	184.9	180.2	178.8	177.2	177.2
50°	185.8	180.2	171.9	162.6	158.8	154.9	148.8	144.1	141.0	141.8	141.8
52.5°	160.2	154.1	144.1	132.5	127.9	123.2	117.9	112.5	110.1	109.4	109.4
55°	137.9	131.0	121.0	107.9	104.0	98.6	91.8	85.5	82.5	81.6	83.2
57.5°	117.9	111.8	100.1	87.1	82.5	77.0	70.1	64.8	60.9	60.1	60.9
60°	101.8	93.2	83.2	70.9	64.8	60.1	52.4	47.8	43.9	42.4	43.1
62.5°	85.5	77.9	67.8	55.5	50.9	46.2	39.2	33.9	30.9	30.0	30.9
65°	73.2	65.5	56.2	45.5	40.9	36.2	30.0	24.6	22.4	21.6	22.4
67.5°	60.9	53.9	46.2	36.2	32.4	28.5	22.4	18.5	15.4	14.6	15.4
70°	49.4	43.1	35.5	28.5	24.6	21.6	17.0	13.1	10.8	10.0	10.8
72.5°	37.0	32.4	27.0	20.8	18.5	16.1	12.4	9.2	7.8	6.9	7.8
75°	27.0	23.1	19.2	14.6	13.1	11.5	8.5	6.1	5.4	4.6	5.4
77.5°	18.5	16.1	13.1	10.0	8.5	7.8	5.4	4.6	3.9	3.1	3.1
80°	12.4	10.8	8.5	6.9	6.1	5.4	3.9	3.1	2.2	2.2	2.2
82.5°	7.8	6.1	5.4	3.9	3.1	3.1	2.2	1.5	1.5	1.5	1.5
85°	4.6	3.9	3.1	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8
87.5°	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8
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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	544.8	543.2	543.2	544.0	544.8	545.5	544.0	543.2	543.2	545.5	544.0
5°	544.8	544.0	544.0	544.0	545.5	546.2	544.8	544.0	544.8	547.1	546.2
7.5°	547.1	545.5	546.2	546.2	547.1	548.6	547.1	546.2	547.1	549.4	547.9
10°	548.6	547.1	547.9	547.1	549.4	550.1	548.6	547.9	548.6	551.8	550.9
12.5°	549.4	548.6	548.6	547.9	550.1	550.9	549.4	548.6	549.4	551.8	550.9
15°	547.9	547.1	547.1	547.1	548.6	550.1	547.9	547.1	547.1	549.4	548.6
17.5°	544.8	543.2	543.2	543.2	544.0	544.8	542.5	541.6	540.9	543.2	542.5
20°	539.4	537.9	536.2	536.2	537.0	537.0	535.5	533.2	533.2	534.0	532.4
22.5°	529.4	528.6	527.0	526.2	527.8	527.0	524.0	521.6	520.9	521.6	520.1
25°	515.5	513.9	513.1	512.4	513.1	512.4	509.4	506.2	506.2	506.2	503.9
27.5°	496.2	494.6	493.9	493.9	494.6	493.1	490.0	487.0	485.4	485.4	483.1
30°	471.5	471.5	470.8	470.0	469.2	469.2	464.6	461.5	460.0	460.8	459.2
32.5°	441.5	440.8	440.0	437.6	438.4	437.6	433.8	431.5	429.1	427.6	426.9
35°	403.0	403.0	402.2	402.2	402.2	401.5	397.6	395.2	393.8	393.0	390.6
37.5°	360.6	359.9	359.0	359.0	359.0	359.0	356.8	354.5	354.5	353.6	352.1
40°	312.9	313.6	314.4	313.6	315.9	318.2	315.1	313.6	312.9	315.1	312.0
42.5°	266.6	265.9	269.6	270.5	270.5	274.2	275.1	275.9	275.1	276.6	276.6
45°	221.9	221.1	225.0	226.5	230.4	235.0	237.4	241.1	242.8	244.2	242.8
47.5°	179.5	182.6	185.8	189.5	192.6	200.4	205.0	208.8	210.4	212.6	212.6
50°	144.1	147.1	152.6	155.6	159.5	168.8	176.5	181.9	184.9	187.2	186.5
52.5°	111.0	116.4	123.2	126.4	131.8	142.5	151.0	157.1	161.0	163.4	164.1
55°	85.5	90.1	97.1	101.8	107.1	118.6	129.5	136.4	140.2	143.4	144.9
57.5°	63.1	68.6	76.2	80.1	86.2	99.4	108.6	117.1	121.8	125.6	126.4
60°	46.2	51.6	58.5	63.1	69.4	82.5	93.2	101.0	106.4	109.4	111.0
62.5°	33.1	38.5	45.5	50.1	55.5	67.0	77.9	85.5	90.9	94.8	97.1
65°	23.9	29.2	36.2	40.1	44.8	55.5	65.5	73.2	78.6	83.2	84.8
67.5°	17.8	21.6	27.8	31.6	36.2	44.8	53.1	60.1	65.5	69.4	70.9
70°	13.1	16.1	21.6	23.9	27.0	34.6	41.6	47.8	52.4	55.5	57.0
72.5°	9.2	11.5	15.4	17.8	20.0	26.2	31.6	36.2	39.2	42.4	43.9
75°	6.1	7.8	10.8	12.4	13.9	18.5	22.4	26.2	28.5	30.9	31.6
77.5°	3.9	5.4	7.8	8.5	10.0	12.4	15.4	17.8	19.2	20.8	22.4
80°	2.2	3.1	4.6	5.4	6.1	8.5	10.0	11.5	13.1	14.6	15.4
82.5°	1.5	2.2	3.1	3.1	3.9	4.6	6.1	7.8	8.5	9.2	10.0
85°	0.8	0.8	1.5	1.5	2.2	2.2	3.1	3.9	4.6	5.4	6.1
87.5°	0.8	0.8	0.8	0.8	1.5	1.5	2.2	2.2	2.2	3.1	3.1
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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	542.5	544.8	542.5	544.0	543.2	543.2	542.5	543.2
5°	544.8	547.9	544.8	547.1	545.5	545.5	545.5	546.2
7.5°	547.1	550.1	547.9	550.1	549.4	548.6	548.6	550.1
10°	549.4	551.8	550.1	552.5	551.8	550.9	550.9	552.5
12.5°	549.4	552.5	550.9	553.2	552.5	551.8	551.8	552.5
15°	547.1	550.9	548.6	550.9	550.1	549.4	549.4	550.9
17.5°	540.1	543.2	541.6	543.2	543.2	542.5	543.2	544.0
20°	530.9	533.2	531.6	533.2	533.2	531.6	532.4	533.2
22.5°	517.8	520.1	518.5	520.1	519.4	518.5	518.5	517.8
25°	501.6	504.8	502.4	503.9	502.4	500.9	500.9	501.6
27.5°	481.6	483.9	480.8	482.4	480.8	479.2	479.2	478.5
30°	455.4	456.1	453.9	455.4	453.9	453.1	451.5	451.5
32.5°	423.8	424.5	422.2	422.2	420.8	420.8	417.6	419.9
35°	386.8	387.6	386.8	386.0	383.8	383.0	382.1	382.1
37.5°	348.2	348.2	346.0	345.2	343.6	342.1	342.9	340.6
40°	309.0	308.2	305.9	306.6	305.9	303.6	302.9	302.0
42.5°	272.0	272.0	269.6	270.5	268.9	268.1	265.9	266.6
45°	239.6	239.6	237.4	237.4	236.5	234.2	235.0	233.5
47.5°	210.4	210.4	209.6	209.6	207.2	206.5	206.5	206.5
50°	184.9	184.9	184.9	184.9	184.1	183.4	182.6	183.4
52.5°	163.4	164.9	164.1	164.1	163.4	162.6	161.8	161.8
55°	144.1	144.9	144.9	145.6	144.9	144.1	144.9	144.1
57.5°	127.1	128.6	128.6	128.6	128.6	128.6	127.9	127.1
60°	112.5	113.2	113.2	114.0	114.0	114.0	113.2	113.2
62.5°	97.9	99.4	100.1	100.1	101.0	100.1	100.1	100.1
65°	86.2	87.9	88.6	87.9	88.6	88.6	87.9	87.9
67.5°	72.4	74.0	74.0	74.0	74.0	74.8	74.0	74.0
70°	58.5	60.1	59.4	60.1	60.1	60.1	60.1	60.1
72.5°	44.8	45.5	46.2	46.2	47.0	46.2	46.2	46.2
75°	32.4	33.9	33.9	33.9	33.9	34.6	34.6	34.6
77.5°	23.1	23.9	23.9	24.6	24.6	24.6	24.6	25.4
80°	16.1	16.1	17.0	17.0	17.8	17.8	17.8	17.8
82.5°	10.8	11.5	11.5	11.5	11.5	11.5	11.5	11.5
85°	6.1	6.9	6.9	6.9	6.9	7.8	7.8	7.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.1	3.1
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)