

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: P252656

Luminaire Tested: **LE_6B10D010 EC6B10209035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252656
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 EC6B10209035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 1075.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

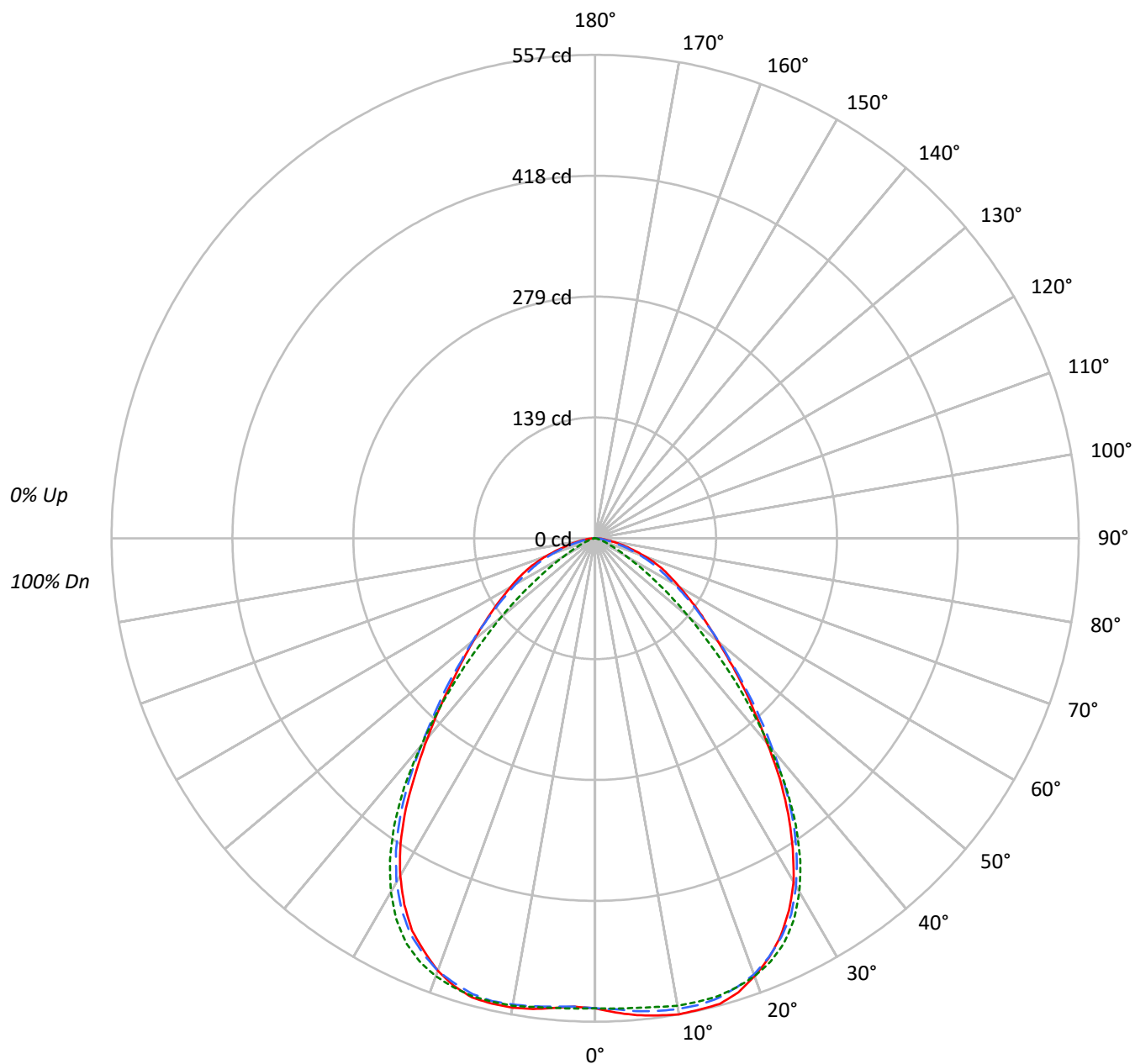
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	35334	35334	35334
5°	36124	35568	35568
10°	36893	36237	36383
15°	37513	36891	37000
20°	37283	37283	36804
25°	36396	37058	35906
30°	34457	35437	33817
35°	30870	32097	30265
40°	26231	26555	25567
45°	22190	20289	21415
50°	18736	14311	18513
55°	16470	9236	16288
60°	14601	5493	14692
65°	13492	3319	13492
70°	11674	1908	11407
75°	9276	1160	8696
80°	6913	827	6612
85°	6288	599	5689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	4.9
10°-20°	154.3	14.4
20°-30°	232.1	21.6
30°-40°	244.0	22.7
40°-50°	182.3	17.0
50°-60°	113.5	10.6
60°-70°	64.5	6.0
70°-80°	26.6	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°	438.6	40.8
0°-40°	682.6	63.5
0°-60°	978.4	91.0
0°-90°	1075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	542	542	542	542	542	
5°	552	547	543	542	543	53
15°	555	548	546	544	548	156
25°	506	507	515	503	499	231
35°	388	398	403	392	380	241
45°	240	246	220	241	232	186
55°	145	142	81	139	143	130
65°	87	78	22	78	87	86
75°	37	29	5	28	34	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°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	547.0	546.2	547.0	545.5	544.6	544.6	545.5	543.9	543.1	543.9	543.1
5°	551.6	550.0	550.8	550.0	548.5	548.5	549.2	547.0	547.0	547.8	547.0
7.5°	554.6	554.6	554.6	553.1	552.4	551.6	553.1	550.8	550.0	550.0	549.2
10°	556.9	556.1	556.9	555.4	553.9	553.1	554.6	553.1	551.6	553.1	550.8
12.5°	556.1	556.1	556.1	555.4	553.9	553.1	554.6	552.4	551.6	552.4	550.8
15°	555.4	553.1	553.9	553.1	550.8	550.8	551.6	549.2	547.8	550.0	548.5
17.5°	548.5	547.0	547.8	546.2	544.6	543.9	544.6	543.9	542.4	543.9	542.4
20°	537.0	537.0	537.8	536.2	534.8	534.0	535.5	534.0	532.4	534.8	534.8
22.5°	523.2	523.2	523.2	522.5	521.8	521.8	521.8	520.9	520.1	521.8	522.5
25°	505.6	504.9	505.6	506.4	505.6	504.9	505.6	505.6	504.1	507.1	507.1
27.5°	483.4	483.4	484.9	484.1	484.1	483.4	484.9	484.9	484.1	486.5	488.8
30°	457.4	455.8	457.4	457.4	458.1	458.1	458.9	458.9	458.9	461.1	462.8
32.5°	423.6	424.4	426.8	425.9	425.1	427.5	427.5	429.0	429.8	431.2	432.0
35°	387.6	388.4	388.4	389.1	390.8	389.1	393.0	392.2	393.0	396.0	397.6
37.5°	349.4	347.0	350.9	349.4	350.1	350.1	351.6	352.4	354.8	358.5	358.5
40°	308.0	308.8	310.2	311.0	311.8	311.8	311.8	314.1	314.9	319.5	318.6
42.5°	272.0	272.0	273.5	274.2	274.2	274.2	274.2	276.5	278.1	279.6	281.1
45°	240.5	238.2	239.8	239.8	241.2	240.5	242.1	243.6	244.4	246.6	245.9
47.5°	210.6	209.9	210.6	211.4	210.6	211.4	212.2	213.0	213.8	213.8	213.8
50°	184.6	184.6	185.4	186.1	186.1	186.1	186.1	186.9	186.9	188.5	186.9
52.5°	163.1	164.0	164.0	163.1	164.0	164.0	164.8	164.8	164.0	164.0	161.6
55°	144.8	144.0	144.8	144.0	144.8	144.8	144.0	144.0	143.2	142.5	141.8
57.5°	127.1	127.1	127.1	127.1	126.4	127.1	126.4	125.6	125.6	124.1	121.8
60°	111.9	111.9	111.9	111.9	111.9	111.1	111.9	111.1	109.5	108.0	105.0
62.5°	98.9	98.0	98.9	98.0	98.0	97.2	97.2	96.5	95.0	93.5	90.4
65°	87.4	88.1	87.4	87.4	86.6	85.8	85.8	85.0	82.8	81.2	78.1
67.5°	75.1	74.2	74.2	74.2	73.5	73.5	73.5	72.0	70.5	68.1	65.1
70°	61.2	61.2	61.2	60.5	60.5	59.8	59.8	59.0	57.5	55.9	52.1
72.5°	48.2	48.2	48.2	46.8	47.5	46.8	46.8	45.2	44.4	42.1	39.9
75°	36.8	36.8	36.0	36.0	35.2	34.5	34.5	33.8	33.0	31.4	29.1
77.5°	26.8	26.8	26.8	26.0	25.2	24.5	24.5	23.8	23.0	22.2	20.6
80°	18.4	18.4	18.4	18.4	17.6	16.9	16.9	16.1	16.1	15.4	13.8
82.5°	12.2	12.2	12.2	12.2	11.5	11.5	11.5	10.8	10.0	10.0	8.4
85°	8.4	8.4	7.6	7.6	7.6	7.6	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°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	545.5	545.5	544.6	542.4	543.1	542.4	543.1	542.4	540.1	542.4	540.1
5°	548.5	549.2	547.8	544.6	545.5	544.6	544.6	543.9	541.6	543.1	541.6
7.5°	551.6	550.8	550.0	547.0	547.8	547.0	547.0	545.5	543.1	544.6	542.4
10°	553.1	553.1	551.6	548.5	548.5	547.8	548.5	547.8	544.6	547.0	545.5
12.5°	553.1	552.4	552.4	548.5	549.2	548.5	549.2	547.8	545.5	547.0	546.2
15°	550.8	550.8	550.0	546.2	547.0	547.0	547.8	546.2	543.9	546.2	544.6
17.5°	546.2	546.2	545.5	542.4	543.9	543.9	544.6	543.1	540.9	542.4	542.4
20°	537.0	537.8	537.8	535.5	537.0	537.0	537.8	537.0	536.2	537.0	535.5
22.5°	526.2	527.9	527.9	525.5	527.0	527.0	529.4	528.6	527.0	527.9	527.0
25°	510.2	511.8	513.2	511.8	513.2	513.2	515.5	514.8	513.2	514.8	512.5
27.5°	491.9	492.6	494.1	492.6	494.9	494.1	496.4	495.6	493.4	495.6	494.9
30°	465.8	468.9	471.1	468.9	471.1	471.1	472.6	471.9	471.1	470.4	470.4
32.5°	436.6	439.8	439.8	439.0	440.5	440.5	441.2	439.8	439.0	439.8	440.5
35°	400.6	402.1	403.8	403.0	403.8	404.5	403.8	404.5	402.1	403.0	403.0
37.5°	361.6	363.1	363.1	360.9	362.4	362.4	360.9	360.9	359.2	360.9	357.8
40°	320.2	318.6	319.5	317.9	316.4	316.4	315.6	312.5	311.0	311.8	312.5
42.5°	279.6	279.6	277.4	273.5	269.6	269.6	267.4	265.9	262.8	264.2	263.5
45°	245.1	241.2	238.2	232.1	229.9	228.2	224.5	220.6	219.1	219.9	219.1
47.5°	212.2	209.1	201.5	193.0	190.8	188.5	183.9	179.2	177.8	176.2	176.2
50°	184.6	179.2	170.9	161.6	157.8	154.0	147.9	143.2	140.2	141.0	141.0
52.5°	159.4	153.2	143.2	131.8	127.1	122.6	117.2	111.9	109.5	108.8	108.8
55°	137.1	130.2	120.2	107.2	103.4	98.0	91.1	85.0	82.0	81.2	82.8
57.5°	117.2	111.1	99.6	86.6	82.0	76.6	69.8	64.4	60.5	59.8	60.5
60°	101.1	92.8	82.8	70.5	64.4	59.8	52.1	47.5	43.6	42.1	42.9
62.5°	85.0	77.4	67.4	55.1	50.5	46.0	39.1	33.8	30.6	29.9	30.6
65°	72.8	65.1	55.9	45.2	40.6	36.0	29.9	24.5	22.2	21.5	22.2
67.5°	60.5	53.6	46.0	36.0	32.1	28.4	22.2	18.4	15.4	14.5	15.4
70°	49.0	42.9	35.2	28.4	24.5	21.5	16.9	13.0	10.8	10.0	10.8
72.5°	36.8	32.1	26.8	20.6	18.4	16.1	12.2	9.2	7.6	6.9	7.6
75°	26.8	23.0	19.1	14.5	13.0	11.5	8.4	6.1	5.4	4.6	5.4
77.5°	18.4	16.1	13.0	10.0	8.4	7.6	5.4	4.6	3.9	3.1	3.1
80°	12.2	10.8	8.4	6.9	6.1	5.4	3.9	3.1	2.2	2.2	2.2
82.5°	7.6	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°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	541.6	540.1	540.1	540.9	541.6	542.4	540.9	540.1	540.1	542.4	540.9
5°	541.6	540.9	540.9	540.9	542.4	543.1	541.6	540.9	541.6	543.9	543.1
7.5°	543.9	542.4	543.1	543.1	543.9	545.5	543.9	543.1	543.9	546.2	544.6
10°	545.5	543.9	544.6	543.9	546.2	547.0	545.5	544.6	545.5	548.5	547.8
12.5°	546.2	545.5	545.5	544.6	547.0	547.8	546.2	545.5	546.2	548.5	547.8
15°	544.6	543.9	543.9	543.9	545.5	547.0	544.6	543.9	543.9	546.2	545.5
17.5°	541.6	540.1	540.1	540.1	540.9	541.6	539.2	538.5	537.8	540.1	539.2
20°	536.2	534.8	533.1	533.1	534.0	534.0	532.4	530.1	530.1	530.9	529.4
22.5°	526.2	525.5	524.0	523.2	524.8	524.0	520.9	518.6	517.9	518.6	517.1
25°	512.5	511.0	510.2	509.4	510.2	509.4	506.4	503.2	503.2	503.2	501.0
27.5°	493.4	491.9	491.0	491.0	491.9	490.2	487.2	484.1	482.6	482.6	480.4
30°	468.9	468.9	468.1	467.2	466.5	466.5	461.9	458.9	457.4	458.1	456.6
32.5°	439.0	438.2	437.4	435.1	435.9	435.1	431.2	429.0	426.8	425.1	424.4
35°	400.6	400.6	399.9	399.9	399.9	399.1	395.2	393.0	391.5	390.8	388.4
37.5°	358.5	357.8	357.0	357.0	357.0	357.0	354.8	352.4	352.4	351.6	350.1
40°	311.0	311.8	312.5	311.8	314.1	316.4	313.4	311.8	311.0	313.4	310.2
42.5°	265.0	264.2	268.1	268.9	268.9	272.8	273.5	274.2	273.5	275.0	275.0
45°	220.6	219.9	223.8	225.2	229.0	233.6	236.0	239.8	241.2	242.9	241.2
47.5°	178.5	181.5	184.6	188.5	191.5	199.1	203.8	207.6	209.1	211.4	211.4
50°	143.2	146.4	151.6	154.8	158.6	167.8	175.4	180.8	183.9	186.1	185.4
52.5°	110.4	115.6	122.6	125.6	131.0	141.8	150.1	156.2	160.1	162.4	163.1
55°	85.0	89.6	96.5	101.1	106.5	118.0	128.8	135.6	139.4	142.5	144.0
57.5°	62.9	68.1	75.9	79.6	85.8	98.9	108.0	116.5	121.0	124.9	125.6
60°	46.0	51.4	58.2	62.9	69.0	82.0	92.8	100.4	105.8	108.8	110.4
62.5°	33.0	38.2	45.2	49.8	55.1	66.6	77.4	85.0	90.4	94.2	96.5
65°	23.8	29.1	36.0	39.9	44.4	55.1	65.1	72.8	78.1	82.8	84.2
67.5°	17.6	21.5	27.6	31.4	36.0	44.4	52.9	59.8	65.1	69.0	70.5
70°	13.0	16.1	21.5	23.8	26.8	34.5	41.4	47.5	52.1	55.1	56.8
72.5°	9.2	11.5	15.4	17.6	19.9	26.0	31.4	36.0	39.1	42.1	43.6
75°	6.1	7.6	10.8	12.2	13.8	18.4	22.2	26.0	28.4	30.6	31.4
77.5°	3.9	5.4	7.6	8.4	10.0	12.2	15.4	17.6	19.1	20.6	22.2
80°	2.2	3.1	4.6	5.4	6.1	8.4	10.0	11.5	13.0	14.5	15.4
82.5°	1.5	2.2	3.1	3.1	3.9	4.6	6.1	7.6	8.4	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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CATALOG NUMBER: LE_6B10D010 EC6B10209035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6
2.5°	539.2	541.6	539.2	540.9	540.1	540.1	539.2	540.1
5°	541.6	544.6	541.6	543.9	542.4	542.4	542.4	543.1
7.5°	543.9	547.0	544.6	547.0	546.2	545.5	545.5	547.0
10°	546.2	548.5	547.0	549.2	548.5	547.8	547.8	549.2
12.5°	546.2	549.2	547.8	550.0	549.2	548.5	548.5	549.2
15°	543.9	547.8	545.5	547.8	547.0	546.2	546.2	547.8
17.5°	537.0	540.1	538.5	540.1	540.1	539.2	540.1	540.9
20°	527.9	530.1	528.6	530.1	530.1	528.6	529.4	530.1
22.5°	514.8	517.1	515.5	517.1	516.4	515.5	515.5	514.8
25°	498.8	501.8	499.5	501.0	499.5	498.0	498.0	498.8
27.5°	478.8	481.1	478.0	479.5	478.0	476.5	476.5	475.8
30°	452.8	453.5	451.2	452.8	451.2	450.5	448.9	448.9
32.5°	421.4	422.1	419.8	419.8	418.2	418.2	415.2	417.5
35°	384.6	385.4	384.6	383.8	381.5	380.8	380.0	380.0
37.5°	346.2	346.2	344.0	343.2	341.6	340.1	340.9	338.6
40°	307.2	306.4	304.1	304.9	304.1	301.9	301.1	300.2
42.5°	270.4	270.4	268.1	268.9	267.4	266.6	264.2	265.0
45°	238.2	238.2	236.0	236.0	235.1	232.9	233.6	232.1
47.5°	209.1	209.1	208.4	208.4	206.1	205.2	205.2	205.2
50°	183.9	183.9	183.9	183.9	183.1	182.4	181.5	182.4
52.5°	162.4	164.0	163.1	163.1	162.4	161.6	160.9	160.9
55°	143.2	144.0	144.0	144.8	144.0	143.2	144.0	143.2
57.5°	126.4	127.9	127.9	127.9	127.9	127.9	127.1	126.4
60°	111.9	112.6	112.6	113.4	113.4	113.4	112.6	112.6
62.5°	97.2	98.9	99.6	99.6	100.4	99.6	99.6	99.6
65°	85.8	87.4	88.1	87.4	88.1	88.1	87.4	87.4
67.5°	72.0	73.5	73.5	73.5	73.5	74.2	73.5	73.5
70°	58.2	59.8	59.0	59.8	59.8	59.8	59.8	59.8
72.5°	44.4	45.2	46.0	46.0	46.8	46.0	46.0	46.0
75°	32.1	33.8	33.8	33.8	33.8	34.5	34.5	34.5
77.5°	23.0	23.8	23.8	24.5	24.5	24.5	24.5	25.2
80°	16.1	16.1	16.9	16.9	17.6	17.6	17.6	17.6
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	7.6	7.6	7.6
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)