

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: P252459

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252459
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_6B15D010 EC6B10209027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1278.7 lumens
Efficiency: N/A
Efficacy: 88.8 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

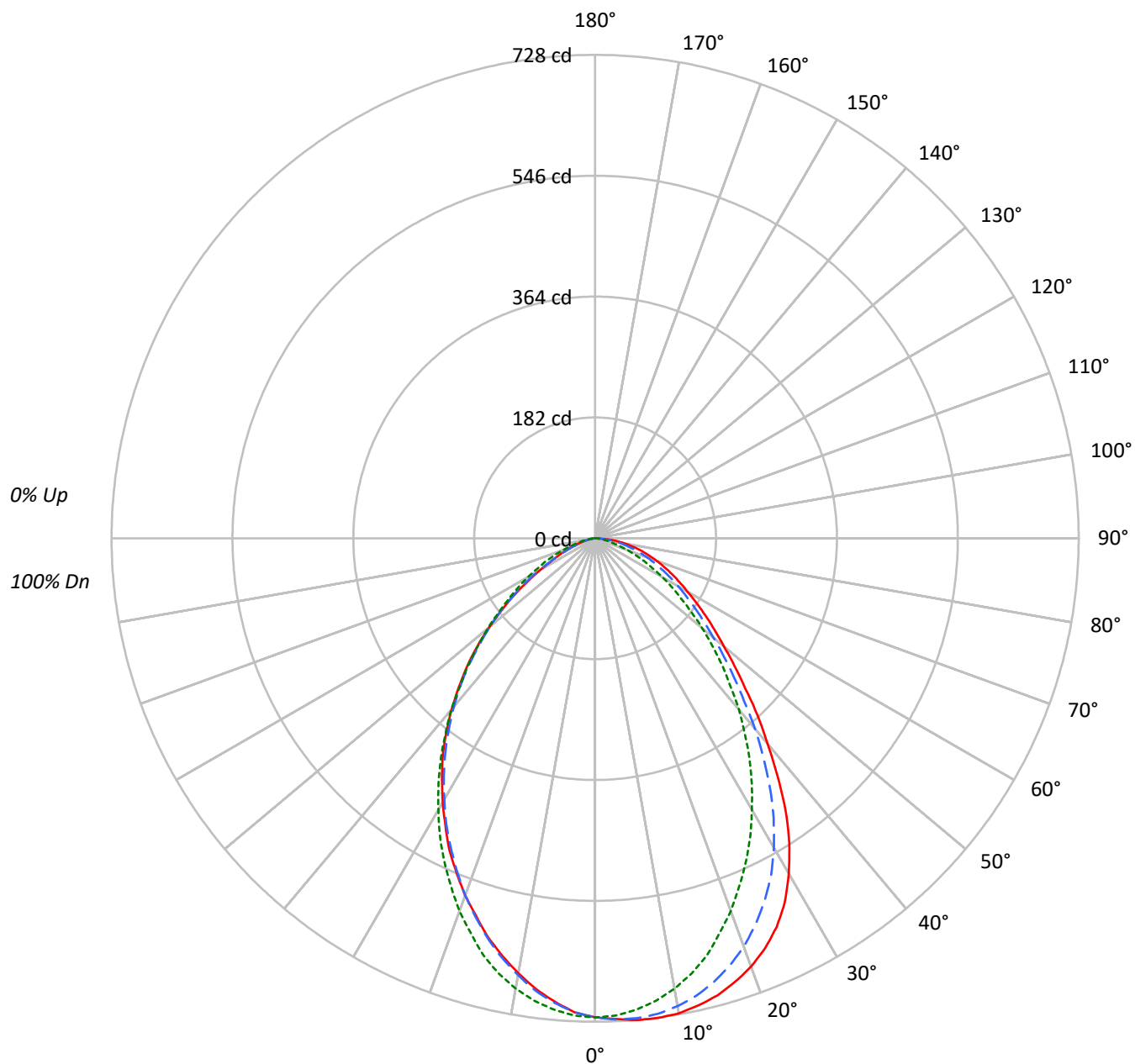
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47065	47065	47065
5°	47703	46655	45869
10°	48122	45604	44068
15°	48117	43916	42025
20°	47655	41455	39720
25°	46517	38656	37360
30°	43927	35550	34570
35°	39822	32240	31842
40°	34390	28667	28582
45°	29488	24957	25142
50°	25628	21355	21050
55°	23022	17994	16857
60°	20903	15162	12409
65°	19636	12520	9123
70°	18732	9747	6695
75°	17922	7058	4537
80°	16944	4884	3006
85°	14971	2994	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	5.3
10°-20°	184.8	14.5
20°-30°	256.6	20.1
30°-40°	265.8	20.8
40°-50°	218.4	17.1
50°-60°	150.1	11.7
60°-70°	86.3	6.7
70°-80°	39.6	3.1
80°-90°	9.6	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°	508.9	39.8
0°-40°	774.7	60.6
0°-60°	1143.1	89.4
0°-90°	1278.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	721	721	721	721	721	
5°	728	725	712	702	700	69
15°	712	691	650	624	622	201
25°	646	603	537	514	519	296
35°	500	459	405	393	400	310
45°	320	296	270	268	272	249
55°	202	183	158	149	148	182
65°	127	111	81	57	59	127
75°	71	56	28	18	18	75
85°	20	14	4	2	2	22
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	724.4	730.4	726.4	725.4	727.4	727.4	727.4	724.4	726.4	723.4	725.4
5°	728.4	733.4	729.4	727.4	729.4	730.4	727.4	725.4	728.4	724.4	725.4
7.5°	728.4	733.4	729.4	728.4	729.4	729.4	728.4	724.4	726.4	722.4	722.4
10°	726.4	730.4	726.4	724.4	725.4	724.4	724.4	719.4	720.4	715.4	715.4
12.5°	720.4	725.4	720.4	718.4	718.4	718.4	715.4	711.4	712.4	706.4	705.4
15°	712.4	716.4	711.4	709.4	709.4	708.4	706.4	700.4	700.4	694.4	691.4
17.5°	700.4	704.4	700.4	697.4	696.4	694.4	692.4	686.4	684.4	677.4	674.4
20°	686.4	689.4	685.4	682.4	680.4	678.4	674.4	668.2	666.2	659.2	654.2
22.5°	668.2	672.2	666.2	663.2	661.2	658.2	654.2	648.2	645.2	636.2	630.2
25°	646.2	648.2	643.2	640.2	636.2	634.2	631.2	623.2	620.2	610.2	603.1
27.5°	618.2	620.2	614.2	612.2	607.1	605.1	601.1	594.1	590.1	580.1	573.1
30°	583.1	585.1	581.1	578.1	574.1	570.1	567.1	560.1	554.1	544.0	538.0
32.5°	544.0	547.1	543.0	539.0	532.0	533.0	528.0	521.0	516.0	507.0	500.0
35°	500.0	502.0	497.0	496.0	492.0	488.0	483.0	477.9	474.9	464.9	458.9
37.5°	450.9	455.9	450.9	446.9	444.9	441.9	438.9	431.9	429.9	423.9	415.8
40°	403.8	406.8	403.8	399.8	396.8	396.8	392.8	388.8	383.8	377.8	374.8
42.5°	361.8	359.8	358.8	356.8	352.6	351.6	350.6	345.6	342.6	336.6	331.6
45°	319.6	320.6	318.6	317.6	314.6	312.6	310.6	306.6	305.6	299.6	295.6
47.5°	284.5	283.5	281.5	281.5	279.5	277.5	275.5	272.5	271.5	266.5	262.5
50°	252.5	253.5	252.5	251.5	248.5	247.5	245.5	243.5	241.5	236.5	232.5
52.5°	226.5	225.5	224.4	224.4	221.4	220.4	218.4	216.4	214.4	209.4	206.4
55°	202.4	202.4	201.4	200.4	197.4	196.4	195.4	193.4	190.4	186.4	183.4
57.5°	180.4	180.4	179.4	178.4	176.4	176.4	174.4	172.4	170.4	166.4	162.4
60°	160.2	161.4	160.2	159.2	157.2	157.2	156.2	153.2	152.2	147.2	144.2
62.5°	143.2	143.2	143.2	142.2	141.2	139.2	139.2	136.2	134.2	131.2	127.2
65°	127.2	127.2	127.2	126.2	124.2	123.2	122.2	120.2	118.2	115.2	111.2
67.5°	112.2	112.2	112.2	111.2	109.2	108.2	107.2	106.2	103.2	100.2	96.1
70°	98.2	98.2	97.2	96.1	95.1	94.1	93.1	91.1	89.1	85.1	82.1
72.5°	84.1	84.1	84.1	82.1	81.1	81.1	79.1	78.1	76.1	72.1	69.1
75°	71.1	70.1	70.1	69.1	68.1	67.1	66.1	65.1	62.1	60.1	56.1
77.5°	58.1	58.1	57.1	56.1	56.1	55.1	54.1	52.1	51.1	48.1	45.1
80°	45.1	45.1	45.1	45.1	44.1	43.1	43.1	41.1	40.1	37.1	35.1
82.5°	34.1	33.1	33.1	33.1	32.0	31.0	31.0	30.0	29.0	27.0	25.0
85°	20.0	19.0	19.0	19.0	18.0	18.0	17.0	17.0	16.0	14.0	14.0
87.5°	6.0	6.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	723.4	726.4	722.4	721.4	725.4	723.4	722.4	720.4	721.4	719.4	716.4
5°	722.4	726.4	721.4	718.4	723.4	720.4	718.4	716.4	716.4	712.4	710.4
7.5°	719.4	721.4	716.4	713.4	716.4	713.4	711.4	708.4	707.4	702.4	699.4
10°	711.4	713.4	707.4	703.4	706.4	702.4	699.4	696.4	694.4	688.4	684.4
12.5°	700.4	701.4	694.4	689.4	691.4	688.4	683.4	679.4	677.4	671.2	666.2
15°	685.4	686.4	678.4	671.2	673.2	669.2	663.2	659.2	656.2	650.2	643.2
17.5°	667.2	666.2	657.2	650.2	651.2	646.2	640.2	634.2	630.2	623.2	618.2
20°	647.2	644.2	634.2	626.2	627.2	621.2	614.2	608.1	603.1	597.1	590.1
22.5°	622.2	618.2	609.1	599.1	600.1	595.1	585.1	580.1	575.1	567.1	561.1
25°	595.1	589.1	580.1	570.1	570.1	564.1	556.1	550.1	545.0	537.0	530.0
27.5°	563.1	560.1	548.1	540.0	539.0	533.0	526.0	519.0	513.0	506.0	499.0
30°	528.0	523.0	514.0	505.0	503.0	498.0	491.0	483.0	478.9	471.9	465.9
32.5°	491.0	486.0	475.9	466.9	465.9	461.9	455.9	447.9	443.9	438.9	434.9
35°	448.9	446.9	436.9	429.9	429.9	425.9	419.9	412.8	409.8	404.8	399.8
37.5°	408.8	405.8	396.8	390.8	390.8	385.8	379.8	376.8	373.8	369.8	366.8
40°	366.8	364.8	357.8	351.6	352.6	348.6	344.6	340.6	338.6	336.6	333.6
42.5°	327.6	325.6	320.6	315.6	315.6	312.6	308.6	305.6	303.6	300.6	299.6
45°	292.6	289.6	285.5	280.5	280.5	277.5	275.5	273.5	272.5	270.5	267.5
47.5°	258.5	256.5	252.5	247.5	247.5	247.5	243.5	240.5	240.5	238.5	237.5
50°	229.5	226.5	223.4	219.4	219.4	217.4	214.4	211.4	211.4	210.4	208.4
52.5°	202.4	200.4	196.4	192.4	192.4	190.4	187.4	186.4	185.4	182.4	181.4
55°	179.4	177.4	174.4	169.4	168.4	167.4	164.4	162.4	161.4	158.2	158.2
57.5°	158.2	156.2	151.2	148.2	147.2	145.2	142.2	140.2	139.2	137.2	135.2
60°	140.2	137.2	133.2	129.2	128.2	126.2	123.2	121.2	120.2	116.2	114.2
62.5°	123.2	120.2	116.2	112.2	111.2	109.2	105.2	103.2	101.2	97.2	95.1
65°	107.2	104.2	100.2	96.1	94.1	93.1	89.1	86.1	84.1	81.1	77.1
67.5°	92.1	89.1	85.1	80.1	80.1	77.1	74.1	71.1	68.1	65.1	62.1
70°	78.1	75.1	71.1	67.1	66.1	64.1	61.1	57.1	55.1	51.1	48.1
72.5°	65.1	62.1	58.1	54.1	53.1	51.1	48.1	44.1	41.1	38.1	35.1
75°	53.1	50.1	46.1	43.1	42.1	40.1	37.1	33.1	30.0	28.0	25.0
77.5°	42.1	39.1	36.1	33.1	32.0	30.0	27.0	25.0	22.0	20.0	17.0
80°	32.0	30.0	27.0	25.0	24.0	22.0	20.0	17.0	15.0	13.0	12.0
82.5°	23.0	21.0	19.0	16.0	16.0	14.0	13.0	11.0	9.0	8.0	7.0
85°	13.0	11.0	10.0	9.0	8.0	8.0	7.0	6.0	5.0	4.0	4.0
87.5°	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	716.4	717.4	715.4	717.4	715.4	716.4	714.4	716.4	714.4	716.4	712.4
5°	709.4	709.4	706.4	708.4	706.4	707.4	703.4	704.4	702.4	704.4	700.4
7.5°	697.4	698.4	693.4	695.4	692.4	692.4	689.4	690.4	687.4	688.4	685.4
10°	683.4	682.4	677.4	679.4	675.4	675.4	672.2	672.2	668.2	669.2	665.2
12.5°	663.2	662.2	656.2	658.2	654.2	654.2	651.2	651.2	647.2	649.2	645.2
15°	640.2	639.2	633.2	634.2	630.2	630.2	626.2	627.2	624.2	626.2	622.2
17.5°	614.2	613.2	607.1	608.1	603.1	604.1	601.1	600.1	598.1	599.1	596.1
20°	587.1	585.1	579.1	580.1	578.1	575.1	573.1	574.1	572.1	574.1	571.1
22.5°	559.1	555.1	550.1	550.1	548.1	548.1	545.0	547.1	543.0	546.1	544.0
25°	527.0	524.0	520.0	522.0	518.0	518.0	515.0	516.0	514.0	516.0	514.0
27.5°	496.0	494.0	488.0	490.0	487.0	488.0	485.0	486.0	485.0	487.0	485.0
30°	462.9	461.9	457.9	457.9	456.9	455.9	454.9	454.9	453.9	456.9	454.9
32.5°	431.9	428.9	424.9	427.9	422.9	425.9	423.9	425.9	423.9	425.9	424.9
35°	399.8	398.8	393.8	394.8	393.8	393.8	392.8	392.8	392.8	395.8	395.8
37.5°	365.8	364.8	361.8	362.8	360.8	359.8	359.8	361.8	361.8	363.8	363.8
40°	332.6	333.6	330.6	330.6	329.6	329.6	329.6	331.6	330.6	332.6	331.6
42.5°	299.6	299.6	296.6	297.6	296.6	297.6	297.6	299.6	299.6	300.6	299.6
45°	268.5	268.5	267.5	268.5	266.5	267.5	266.5	268.5	267.5	268.5	268.5
47.5°	237.5	237.5	237.5	236.5	236.5	236.5	236.5	236.5	235.5	237.5	236.5
50°	208.4	209.4	208.4	208.4	207.4	208.4	207.4	207.4	205.4	206.4	206.4
52.5°	182.4	182.4	180.4	180.4	180.4	179.4	179.4	179.4	178.4	178.4	176.4
55°	157.2	157.2	155.2	155.2	154.2	153.2	152.2	152.2	149.2	149.2	146.2
57.5°	134.2	133.2	130.2	130.2	128.2	127.2	126.2	125.2	123.2	121.2	120.2
60°	113.2	111.2	109.2	108.2	106.2	104.2	102.2	100.2	98.2	97.2	96.1
62.5°	93.1	90.1	88.1	87.1	85.1	82.1	80.1	78.1	76.1	75.1	73.1
65°	75.1	72.1	69.1	68.1	66.1	64.1	61.1	59.1	57.1	56.1	56.1
67.5°	59.1	56.1	52.1	52.1	50.1	48.1	46.1	44.1	43.1	44.1	44.1
70°	44.1	42.1	39.1	38.1	36.1	34.1	33.1	33.1	33.1	34.1	33.1
72.5°	33.1	30.0	28.0	27.0	26.0	25.0	25.0	25.0	24.0	25.0	25.0
75°	23.0	21.0	19.0	19.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	16.0	14.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0
80°	10.0	10.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	712.4	715.4	711.4	714.4	713.4	712.4	710.4	714.4
5°	700.4	701.4	697.4	701.4	700.4	698.4	696.4	700.4
7.5°	683.4	686.4	681.4	685.4	684.4	682.4	680.4	684.4
10°	664.2	667.2	663.2	666.2	666.2	664.2	661.2	665.2
12.5°	643.2	645.2	641.2	645.2	644.2	642.2	641.2	644.2
15°	620.2	623.2	619.2	622.2	621.2	620.2	619.2	622.2
17.5°	595.1	598.1	595.1	598.1	598.1	595.1	594.1	596.1
20°	570.1	572.1	569.1	572.1	571.1	571.1	569.1	572.1
22.5°	542.0	545.0	543.0	545.0	544.0	544.0	543.0	545.0
25°	514.0	517.0	514.0	517.0	516.0	516.0	514.0	519.0
27.5°	486.0	488.0	485.0	489.0	488.0	486.0	487.0	488.0
30°	455.9	457.9	455.9	458.9	458.9	458.9	456.9	458.9
32.5°	425.9	428.9	425.9	428.9	427.9	427.9	426.9	428.9
35°	395.8	396.8	394.8	397.8	397.8	398.8	396.8	399.8
37.5°	364.8	365.8	364.8	365.8	367.8	364.8	366.8	367.8
40°	332.6	334.6	333.6	334.6	334.6	335.6	334.6	335.6
42.5°	300.6	302.6	300.6	303.6	302.6	302.6	303.6	303.6
45°	267.5	270.5	268.5	270.5	271.5	270.5	270.5	272.5
47.5°	236.5	238.5	237.5	238.5	238.5	238.5	238.5	240.5
50°	205.4	206.4	206.4	207.4	207.4	208.4	206.4	207.4
52.5°	174.4	176.4	176.4	176.4	175.4	176.4	176.4	176.4
55°	146.2	147.2	145.2	147.2	147.2	146.2	146.2	148.2
57.5°	119.2	119.2	119.2	119.2	119.2	118.2	119.2	119.2
60°	94.1	95.1	94.1	94.1	94.1	94.1	93.1	95.1
62.5°	73.1	73.1	72.1	73.1	73.1	73.1	74.1	74.1
65°	57.1	58.1	57.1	58.1	58.1	58.1	58.1	59.1
67.5°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
70°	34.1	34.1	34.1	35.1	34.1	34.1	34.1	35.1
72.5°	25.0	25.0	25.0	25.0	25.0	25.0	26.0	26.0
75°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	12.0	12.0	12.0	13.0	12.0	13.0	12.0	12.0
80°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
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)