

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: P252462

Luminaire Tested: **LE_6B15D010 EC6B10209040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252462
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 EC6B10209040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1350.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

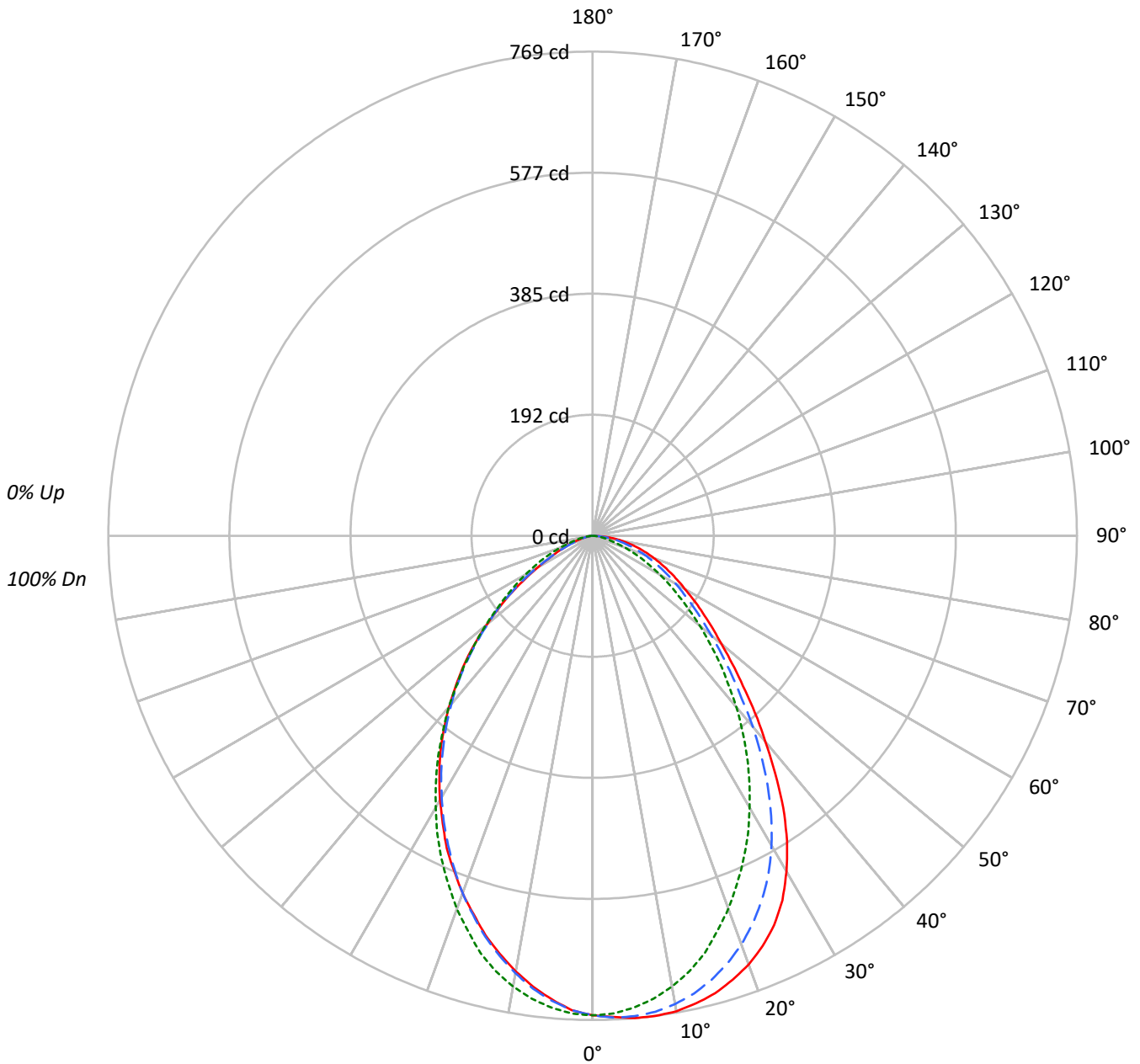
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	49687	49687	49687
5°	50362	49255	48423
10°	50805	48148	46532
15°	50798	46368	44368
20°	50307	43767	41934
25°	49108	40816	39441
30°	46375	37531	36499
35°	42044	34040	33610
40°	36298	30268	30183
45°	31130	26351	26554
50°	27049	22542	22228
55°	24296	19007	17801
60°	22077	16023	13113
65°	20748	13214	9633
70°	19762	10301	7058
75°	18930	7461	4789
80°	17884	5185	3193
85°	15794	3144	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	5.3
10°-20°	195.1	14.5
20°-30°	270.9	20.1
30°-40°	280.6	20.8
40°-50°	230.6	17.1
50°-60°	158.5	11.7
60°-70°	91.1	6.7
70°-80°	41.9	3.1
80°-90°	10.2	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°	537.2	39.8
0°-40°	817.8	60.6
0°-60°	1206.8	89.4
0°-90°	1350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	762	762	762	762	762	
5°	769	766	752	742	739	73
15°	752	730	686	659	657	212
25°	682	637	567	543	548	312
35°	528	484	427	415	422	327
45°	337	312	286	282	288	263
55°	214	194	167	158	156	192
65°	134	117	86	60	62	134
75°	75	59	30	19	19	79
85°	21	15	4	2	2	24
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°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6
2.5°	764.8	771.1	766.9	765.9	768.0	768.0	768.0	764.8	766.9	763.8	765.9
5°	769.0	774.2	770.0	768.0	770.0	771.1	768.0	765.9	769.0	764.8	765.9
7.5°	769.0	774.2	770.0	769.0	770.0	770.0	769.0	764.8	766.9	762.6	762.6
10°	766.9	771.1	766.9	764.8	765.9	764.8	764.8	759.5	760.5	755.2	755.2
12.5°	760.5	765.9	760.5	758.4	758.4	758.4	755.2	751.0	752.1	745.8	744.6
15°	752.1	756.2	751.0	748.9	748.9	747.9	745.8	739.4	739.4	733.0	729.9
17.5°	739.4	743.6	739.4	736.2	735.1	733.0	730.9	724.6	722.5	715.0	711.9
20°	724.6	727.8	723.5	720.4	718.2	716.1	711.9	705.5	703.4	696.0	690.8
22.5°	705.5	709.8	703.4	700.2	698.1	695.0	690.8	684.4	681.2	671.8	665.4
25°	682.2	684.4	679.1	675.9	671.8	669.6	666.4	658.0	654.8	644.1	636.8
27.5°	652.6	654.8	648.4	646.2	641.0	638.9	634.6	627.2	623.0	612.5	605.0
30°	615.6	617.8	613.5	610.4	606.1	601.9	598.8	591.2	585.0	574.4	568.0
32.5°	574.4	577.5	573.4	569.1	561.6	562.8	557.5	550.0	544.8	535.2	527.9
35°	527.9	530.0	524.6	523.6	519.4	515.1	509.9	504.5	501.4	490.8	484.5
37.5°	476.0	481.2	476.0	471.8	469.6	466.5	463.2	455.9	453.8	447.5	439.0
40°	426.2	429.5	426.2	422.0	418.9	418.9	414.6	410.4	405.1	398.8	395.6
42.5°	381.9	379.8	378.6	376.6	372.4	371.2	370.2	364.9	361.8	355.4	350.1
45°	337.4	338.5	336.4	335.4	332.1	330.0	327.9	323.6	322.6	316.2	312.0
47.5°	300.4	299.4	297.2	297.2	295.1	293.0	290.9	287.8	286.6	281.4	277.1
50°	266.5	267.6	266.5	265.5	262.4	261.2	259.1	257.0	254.9	249.6	245.4
52.5°	239.0	238.0	237.0	237.0	233.8	232.8	230.6	228.5	226.4	221.1	217.9
55°	213.6	213.6	212.6	211.5	208.4	207.4	206.2	204.1	201.0	196.8	193.6
57.5°	190.4	190.4	189.4	188.2	186.1	186.1	184.0	182.0	179.9	175.6	171.4
60°	169.2	170.2	169.2	168.1	166.1	166.1	165.0	161.9	160.8	155.5	152.4
62.5°	151.2	151.2	151.2	150.2	149.1	147.0	147.0	143.9	141.8	138.6	134.4
65°	134.4	134.4	134.4	133.2	131.1	130.1	129.0	126.9	124.9	121.6	117.4
67.5°	118.5	118.5	118.5	117.4	115.2	114.2	113.1	112.1	109.0	105.8	101.5
70°	103.6	103.6	102.6	101.5	100.5	99.4	98.4	96.2	94.1	89.9	86.8
72.5°	88.9	88.9	88.9	86.8	85.6	85.6	83.6	82.5	80.4	76.1	73.0
75°	75.1	74.0	74.0	73.0	71.9	70.9	69.9	68.8	65.6	63.5	59.2
77.5°	61.4	61.4	60.2	59.2	59.2	58.1	57.1	55.0	54.0	50.8	47.6
80°	47.6	47.6	47.6	47.6	46.5	45.5	45.5	43.4	42.2	39.1	37.0
82.5°	36.0	34.9	34.9	34.9	33.9	32.8	32.8	31.8	30.6	28.5	26.5
85°	21.1	20.1	20.1	20.1	19.0	19.0	18.0	18.0	16.9	14.8	14.8
87.5°	6.4	6.4	7.4	7.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2
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°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6
2.5°	763.8	766.9	762.6	761.6	765.9	763.8	762.6	760.5	761.6	759.5	756.2
5°	762.6	766.9	761.6	758.4	763.8	760.5	758.4	756.2	756.2	752.1	750.0
7.5°	759.5	761.6	756.2	753.1	756.2	753.1	751.0	747.9	746.8	741.5	738.4
10°	751.0	753.1	746.8	742.5	745.8	741.5	738.4	735.1	733.0	726.8	722.5
12.5°	739.4	740.5	733.0	727.8	729.9	726.8	721.4	717.1	715.0	708.8	703.4
15°	723.5	724.6	716.1	708.8	710.9	706.6	700.2	696.0	692.9	686.5	679.1
17.5°	704.5	703.4	693.9	686.5	687.5	682.2	675.9	669.6	665.4	658.0	652.6
20°	683.4	680.1	669.6	661.1	662.1	655.9	648.4	642.1	636.8	630.4	623.0
22.5°	656.9	652.6	643.1	632.5	633.6	628.4	617.8	612.5	607.1	598.8	592.4
25°	628.4	622.0	612.5	601.9	601.9	595.5	587.1	580.8	575.4	567.0	559.6
27.5°	594.5	591.2	578.6	570.1	569.1	562.8	555.4	547.9	541.6	534.1	526.8
30°	557.5	552.1	542.6	533.1	531.0	525.8	518.2	509.9	505.6	498.2	491.9
32.5°	518.2	513.0	502.5	492.9	491.9	487.6	481.2	472.9	468.6	463.2	459.1
35°	473.9	471.8	461.2	453.8	453.8	449.5	443.2	435.8	432.6	427.4	422.0
37.5°	431.6	428.4	418.9	412.5	412.5	407.2	400.9	397.8	394.5	390.4	387.1
40°	387.1	385.0	377.6	371.2	372.4	368.1	363.9	359.6	357.5	355.4	352.2
42.5°	345.9	343.8	338.5	333.2	333.2	330.0	325.8	322.6	320.5	317.4	316.2
45°	308.9	305.8	301.5	296.1	296.1	293.0	290.9	288.8	287.8	285.6	282.4
47.5°	272.9	270.8	266.5	261.2	261.2	261.2	257.0	253.9	253.9	251.8	250.8
50°	242.2	239.0	235.9	231.6	231.6	229.5	226.4	223.2	223.2	222.1	220.0
52.5°	213.6	211.5	207.4	203.1	203.1	201.0	197.8	196.8	195.8	192.5	191.5
55°	189.4	187.2	184.0	178.8	177.8	176.6	173.5	171.4	170.2	167.1	167.1
57.5°	167.1	165.0	159.8	156.5	155.5	153.4	150.2	148.1	147.0	144.9	142.8
60°	148.1	144.9	140.6	136.5	135.4	133.2	130.1	128.0	126.9	122.8	120.6
62.5°	130.1	126.9	122.8	118.5	117.4	115.2	111.1	109.0	106.9	102.6	100.5
65°	113.1	110.0	105.8	101.5	99.4	98.4	94.1	91.0	88.9	85.6	81.5
67.5°	97.4	94.1	89.9	84.6	84.6	81.5	78.2	75.1	71.9	68.8	65.6
70°	82.5	79.4	75.1	70.9	69.9	67.8	64.5	60.2	58.1	54.0	50.8
72.5°	68.8	65.6	61.4	57.1	56.0	54.0	50.8	46.5	43.4	40.2	37.0
75°	56.0	52.9	48.6	45.5	44.4	42.2	39.1	34.9	31.8	29.6	26.5
77.5°	44.4	41.2	38.1	34.9	33.9	31.8	28.5	26.5	23.2	21.1	18.0
80°	33.9	31.8	28.5	26.5	25.4	23.2	21.1	18.0	15.9	13.8	12.8
82.5°	24.4	22.2	20.1	16.9	16.9	14.8	13.8	11.6	9.5	8.5	7.4
85°	13.8	11.6	10.6	9.5	8.5	8.5	7.4	6.4	5.2	4.2	4.2
87.5°	4.2	4.2	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6
2.5°	756.2	757.4	755.2	757.4	755.2	756.2	754.2	756.2	754.2	756.2	752.1
5°	748.9	748.9	745.8	747.9	745.8	746.8	742.5	743.6	741.5	743.6	739.4
7.5°	736.2	737.2	732.0	734.1	730.9	730.9	727.8	728.8	725.6	726.8	723.5
10°	721.4	720.4	715.0	717.1	713.0	713.0	709.8	709.8	705.5	706.6	702.4
12.5°	700.2	699.2	692.9	695.0	690.8	690.8	687.5	687.5	683.4	685.5	681.2
15°	675.9	674.9	668.5	669.6	665.4	665.4	661.1	662.1	659.0	661.1	656.9
17.5°	648.4	647.4	641.0	642.1	636.8	637.9	634.6	633.6	631.5	632.5	629.4
20°	619.9	617.8	611.4	612.5	610.4	607.1	605.0	606.1	604.0	606.1	602.9
22.5°	590.2	586.0	580.8	580.8	578.6	578.6	575.4	577.5	573.4	576.5	574.4
25°	556.4	553.2	549.0	551.1	546.9	546.9	543.8	544.8	542.6	544.8	542.6
27.5°	523.6	521.5	515.1	517.2	514.1	515.1	512.0	513.0	512.0	514.1	512.0
30°	488.8	487.6	483.4	483.4	482.4	481.2	480.2	480.2	479.1	482.4	480.2
32.5°	455.9	452.8	448.5	451.6	446.4	449.5	447.5	449.5	447.5	449.5	448.5
35°	422.0	421.0	415.8	416.8	415.8	415.8	414.6	414.6	414.6	417.9	417.9
37.5°	386.1	385.0	381.9	382.9	380.8	379.8	379.8	381.9	381.9	384.0	384.0
40°	351.1	352.2	349.1	349.1	348.0	348.0	348.0	350.1	349.1	351.1	350.1
42.5°	316.2	316.2	313.1	314.1	313.1	314.1	314.1	316.2	316.2	317.4	316.2
45°	283.5	283.5	282.4	283.5	281.4	282.4	281.4	283.5	282.4	283.5	283.5
47.5°	250.8	250.8	250.8	249.6	249.6	249.6	249.6	249.6	248.6	250.8	249.6
50°	220.0	221.1	220.0	220.0	219.0	220.0	219.0	219.0	216.9	217.9	217.9
52.5°	192.5	192.5	190.4	190.4	190.4	189.4	189.4	189.4	188.2	188.2	186.1
55°	166.1	166.1	164.0	164.0	162.9	161.9	160.8	160.8	157.6	157.6	154.4
57.5°	141.8	140.6	137.5	137.5	135.4	134.4	133.2	132.2	130.1	128.0	126.9
60°	119.5	117.4	115.2	114.2	112.1	110.0	107.9	105.8	103.6	102.6	101.5
62.5°	98.4	95.2	93.1	92.0	89.9	86.8	84.6	82.5	80.4	79.4	77.2
65°	79.4	76.1	73.0	71.9	69.9	67.8	64.5	62.4	60.2	59.2	59.2
67.5°	62.4	59.2	55.0	55.0	52.9	50.8	48.6	46.5	45.5	46.5	46.5
70°	46.5	44.4	41.2	40.2	38.1	36.0	34.9	34.9	34.9	36.0	34.9
72.5°	34.9	31.8	29.6	28.5	27.5	26.5	26.5	26.5	25.4	26.5	26.5
75°	24.4	22.2	20.1	20.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	16.9	14.8	13.8	13.8	13.8	12.8	12.8	12.8	12.8	12.8	12.8
80°	10.6	10.6	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	6.4	6.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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_6B15D010 EC6B10209040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6
2.5°	752.1	755.2	751.0	754.2	753.1	752.1	750.0	754.2
5°	739.4	740.5	736.2	740.5	739.4	737.2	735.1	739.4
7.5°	721.4	724.6	719.2	723.5	722.5	720.4	718.2	722.5
10°	701.2	704.5	700.2	703.4	703.4	701.2	698.1	702.4
12.5°	679.1	681.2	677.0	681.2	680.1	678.0	677.0	680.1
15°	654.8	658.0	653.8	656.9	655.9	654.8	653.8	656.9
17.5°	628.4	631.5	628.4	631.5	631.5	628.4	627.2	629.4
20°	601.9	604.0	600.9	604.0	602.9	602.9	600.9	604.0
22.5°	572.2	575.4	573.4	575.4	574.4	574.4	573.4	575.4
25°	542.6	545.9	542.6	545.9	544.8	544.8	542.6	547.9
27.5°	513.0	515.1	512.0	516.2	515.1	513.0	514.1	515.1
30°	481.2	483.4	481.2	484.5	484.5	484.5	482.4	484.5
32.5°	449.5	452.8	449.5	452.8	451.6	451.6	450.6	452.8
35°	417.9	418.9	416.8	420.0	420.0	421.0	418.9	422.0
37.5°	385.0	386.1	385.0	386.1	388.2	385.0	387.1	388.2
40°	351.1	353.2	352.2	353.2	353.2	354.4	353.2	354.4
42.5°	317.4	319.5	317.4	320.5	319.5	319.5	320.5	320.5
45°	282.4	285.6	283.5	285.6	286.6	285.6	285.6	287.8
47.5°	249.6	251.8	250.8	251.8	251.8	251.8	251.8	253.9
50°	216.9	217.9	217.9	219.0	219.0	220.0	217.9	219.0
52.5°	184.0	186.1	186.1	186.1	185.1	186.1	186.1	186.1
55°	154.4	155.5	153.4	155.5	155.5	154.4	154.4	156.5
57.5°	125.9	125.9	125.9	125.9	125.9	124.9	125.9	125.9
60°	99.4	100.5	99.4	99.4	99.4	99.4	98.4	100.5
62.5°	77.2	77.2	76.1	77.2	77.2	77.2	78.2	78.2
65°	60.2	61.4	60.2	61.4	61.4	61.4	61.4	62.4
67.5°	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
70°	36.0	36.0	36.0	37.0	36.0	36.0	36.0	37.0
72.5°	26.5	26.5	26.5	26.5	26.5	26.5	27.5	27.5
75°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	12.8	12.8	12.8	13.8	12.8	13.8	12.8	12.8
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	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)