

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: P252562

Luminaire Tested: **LE_6B15D010 EC6B10209024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1320.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

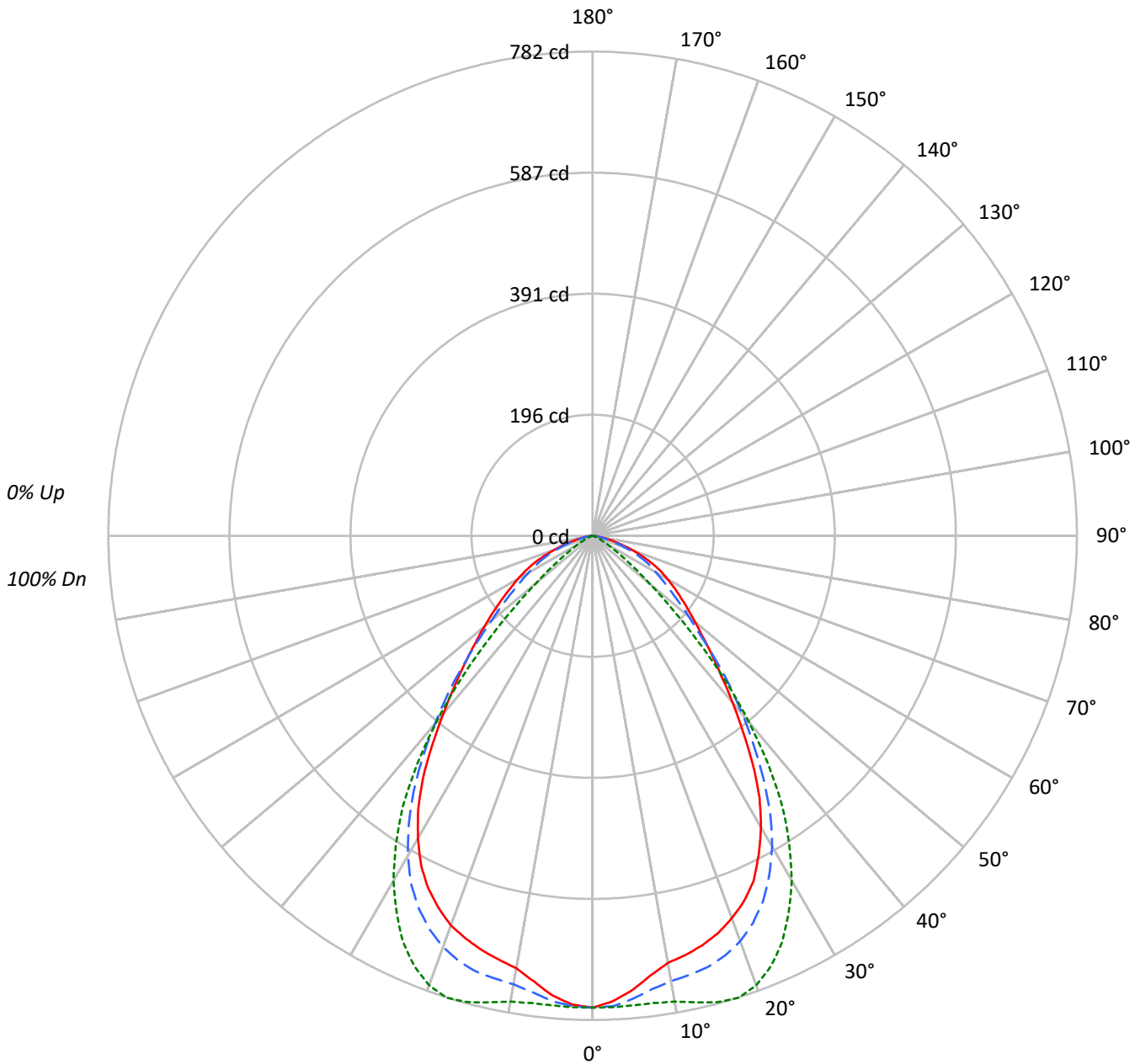
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49720	49720	49720
5°	48233	49851	48816
10°	46399	50606	46982
15°	46239	52669	46773
20°	45628	53640	46489
25°	44271	52132	45214
30°	40951	48447	42480
35°	35927	42594	38030
40°	29936	33393	31895
45°	25197	22033	26904
50°	21822	12078	23161
55°	19746	6415	20246
60°	18163	3327	18163
65°	16456	1775	16055
70°	13276	992	12284
75°	9100	655	8444
80°	5974	338	5297
85°	3892	674	3294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	5.4
10°-20°	205.5	15.6
20°-30°	303.6	23.0
30°-40°	306.7	23.2
40°-50°	211.4	16.0
50°-60°	121.4	9.2
60°-70°	70.7	5.4
70°-80°	25.8	2.0
80°-90°	3.9	0.3
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°	580.2	44.0
0°-40°	886.8	67.2
0°-60°	1219.6	92.4
0°-90°	1320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	762	762	762	762	762	
5°	736	751	761	754	745	69
15°	685	721	780	729	692	193
25°	615	651	724	664	628	280
35°	451	482	535	504	478	280
45°	273	277	239	294	292	212
55°	174	152	56	159	178	156
65°	107	90	12	89	104	104
75°	36	29	3	28	34	41
85°	5	3	1	4	4	7
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°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	752.4	753.2	754.1	753.2	754.1	757.8	755.0	756.9	756.9	757.8	760.4
5°	736.5	736.5	738.4	737.4	740.1	743.6	741.0	743.6	744.5	746.2	750.6
7.5°	716.2	716.2	717.1	717.1	720.8	724.2	722.5	726.0	729.5	733.0	738.4
10°	700.4	702.2	702.2	703.1	706.6	711.0	710.1	714.5	718.0	723.4	730.4
12.5°	693.4	694.2	694.2	696.0	699.5	704.0	703.1	707.5	712.8	718.9	726.0
15°	684.6	686.4	685.5	687.2	690.8	695.1	694.2	698.6	704.9	711.0	720.8
17.5°	673.1	674.0	674.9	674.9	678.4	681.9	681.9	686.4	693.4	700.4	711.0
20°	657.2	659.0	659.0	659.9	662.5	667.9	667.0	671.4	678.4	685.5	696.9
22.5°	638.8	639.6	639.6	640.5	644.9	647.6	648.5	652.0	658.1	666.1	676.6
25°	615.0	615.9	615.0	617.6	619.4	624.6	622.9	627.2	634.4	640.5	651.1
27.5°	580.6	582.4	582.4	583.2	587.6	592.0	592.0	596.5	602.6	607.0	617.6
30°	543.6	546.2	543.6	548.0	549.8	553.2	556.0	558.6	563.9	570.0	579.8
32.5°	501.4	500.4	501.4	503.1	508.4	511.0	512.8	515.4	520.8	526.0	533.9
35°	451.1	452.9	453.8	457.2	457.2	461.6	462.5	464.2	472.2	475.8	481.9
37.5°	398.2	400.0	400.9	402.6	406.1	407.9	410.6	413.2	418.5	424.6	428.1
40°	351.5	351.5	352.4	354.1	356.9	357.8	360.4	363.9	367.4	372.6	376.2
42.5°	307.5	308.4	307.5	309.2	311.9	315.4	314.5	318.9	319.9	323.4	326.0
45°	273.1	273.1	271.4	273.1	273.1	276.6	275.8	277.5	276.6	278.4	276.6
47.5°	240.5	241.4	240.5	241.4	241.4	241.4	242.2	240.5	241.4	238.8	233.5
50°	215.0	215.9	214.1	215.0	214.1	213.2	214.1	211.5	210.6	207.0	201.8
52.5°	193.0	192.1	191.1	191.1	191.1	190.2	189.4	186.8	184.1	180.6	174.5
55°	173.6	172.6	171.8	171.8	170.0	169.1	169.1	166.5	163.9	159.5	152.4
57.5°	156.0	155.1	154.1	154.1	153.2	151.5	151.5	148.9	145.4	140.1	133.9
60°	139.2	139.2	139.2	138.4	138.4	136.5	136.5	133.9	130.4	125.1	118.0
62.5°	124.2	123.4	123.4	123.4	123.4	122.5	121.6	119.9	116.2	111.0	104.9
65°	106.6	106.6	106.6	106.6	105.8	105.8	105.8	103.1	101.4	96.0	89.9
67.5°	87.2	87.2	87.2	87.2	86.4	87.2	87.2	85.5	83.8	78.4	73.1
70°	69.6	68.8	67.9	68.8	67.9	67.9	68.8	67.0	66.1	61.6	56.4
72.5°	51.1	52.0	51.1	51.1	51.1	50.2	51.1	50.2	48.5	44.9	41.4
75°	36.1	37.0	37.0	36.1	36.1	36.1	35.2	35.2	33.5	30.9	29.1
77.5°	24.6	24.6	24.6	24.6	23.8	23.8	23.8	22.9	22.0	20.2	18.5
80°	15.9	15.9	15.9	15.9	15.0	15.0	15.0	14.1	14.1	12.4	10.6
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	8.8	8.8	7.9	7.0	6.1
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4	3.5	2.6
87.5°	1.8	1.8	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	758.6	759.5	759.5	759.5	762.1	763.0	760.4	757.8	763.0	762.1	763.9
5°	749.8	752.4	754.1	755.0	757.8	759.5	756.9	755.9	760.4	761.2	762.1
7.5°	739.2	743.6	748.0	749.8	753.2	755.0	754.1	754.1	759.5	761.2	761.2
10°	732.1	738.4	743.6	748.0	752.4	755.0	755.0	755.9	762.1	763.9	765.6
12.5°	730.4	738.4	745.4	751.5	755.0	759.5	760.4	763.0	769.1	771.8	771.8
15°	726.0	736.5	745.4	753.2	758.6	763.9	765.6	770.9	778.0	779.8	781.5
17.5°	718.0	728.6	739.2	748.9	755.9	760.4	765.6	770.9	779.8	782.4	783.2
20°	704.0	716.2	726.9	736.5	743.6	749.8	755.0	761.2	769.1	772.6	773.5
22.5°	682.8	695.1	705.8	716.2	723.4	728.6	733.9	741.0	748.9	752.4	752.4
25°	657.2	668.8	680.1	688.1	695.1	701.2	704.0	711.9	719.8	724.2	724.2
27.5°	624.6	635.2	645.8	654.6	659.0	664.2	668.8	675.8	681.9	685.5	689.0
30°	583.2	593.9	603.5	612.4	617.6	622.9	627.2	632.6	638.8	643.1	644.0
32.5°	538.4	547.1	556.9	565.6	570.9	572.6	577.1	582.4	587.6	591.1	592.0
35°	489.0	495.1	501.4	509.2	514.5	514.5	518.9	522.5	526.9	534.8	533.0
37.5°	430.9	439.6	444.0	446.8	450.2	453.8	454.6	459.0	464.2	466.1	468.8
40°	376.2	378.9	381.5	381.5	385.0	385.0	385.0	385.9	391.1	392.1	395.6
42.5°	321.6	321.6	318.9	316.2	317.1	316.2	311.9	311.9	314.5	318.0	318.0
45°	270.5	264.4	256.4	250.2	245.8	244.0	238.8	238.8	237.9	238.8	242.2
47.5°	227.2	216.8	203.5	191.1	186.8	183.2	175.4	171.8	170.0	170.9	172.6
50°	191.1	179.8	164.8	149.8	141.9	137.5	127.8	121.6	120.8	119.0	122.5
52.5°	164.8	150.6	134.8	117.1	109.2	102.2	91.6	86.4	82.9	82.9	83.8
55°	141.9	126.9	109.2	91.6	83.8	78.4	67.9	60.8	57.2	56.4	59.0
57.5°	122.5	108.4	90.8	73.1	65.2	59.0	48.5	42.2	39.6	37.9	38.8
60°	107.5	93.4	75.8	59.0	52.0	44.9	36.1	29.1	25.5	25.5	26.4
62.5°	93.4	80.1	64.4	48.5	42.2	36.1	26.4	20.2	17.6	16.8	17.6
65°	79.2	67.0	53.8	40.5	34.4	29.1	21.1	15.9	12.4	11.5	12.4
67.5°	64.4	54.6	43.1	32.6	27.2	22.9	15.9	11.5	8.8	7.9	8.8
70°	50.2	41.4	32.6	23.8	20.2	16.8	11.5	8.8	6.1	5.2	6.1
72.5°	36.1	30.0	22.9	16.8	14.1	11.5	7.9	6.1	4.4	3.5	4.4
75°	24.6	20.2	15.0	10.6	8.8	7.9	5.2	3.5	2.6	2.6	2.6
77.5°	15.9	12.4	9.8	7.0	5.2	4.4	2.6	1.8	1.8	1.8	1.8
80°	8.8	7.0	5.2	3.5	2.6	2.6	1.8	1.8	0.9	0.9	0.9
82.5°	5.2	3.5	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.6	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	760.4	761.2	758.6	762.1	759.5	763.0	763.0	759.5	760.4	758.6	762.1
5°	758.6	758.6	756.9	759.5	755.9	759.5	758.6	752.4	754.1	750.6	754.1
7.5°	758.6	756.9	754.1	756.9	752.4	755.0	751.5	745.4	743.6	739.2	739.2
10°	761.2	758.6	755.0	755.9	751.5	752.4	747.1	738.4	735.6	730.4	728.6
12.5°	767.4	764.8	759.5	761.2	755.0	755.0	748.0	737.4	732.1	725.1	723.4
15°	776.2	771.8	765.6	766.5	760.4	756.9	748.0	735.6	728.6	718.9	716.2
17.5°	778.0	773.5	765.6	765.6	757.8	753.2	742.8	728.6	719.8	710.1	704.9
20°	768.2	763.9	755.0	754.1	747.1	741.0	729.5	715.4	706.6	696.0	691.6
22.5°	748.0	742.8	734.8	733.9	726.9	723.4	711.0	696.9	688.1	677.5	674.0
25°	718.0	715.4	707.5	706.6	700.4	696.0	685.5	672.2	664.2	653.8	650.2
27.5°	682.8	680.1	672.2	672.2	665.1	662.5	652.9	640.5	634.4	624.6	620.2
30°	640.5	637.0	632.6	631.8	625.5	622.9	614.1	602.6	596.5	588.5	586.8
32.5°	590.2	587.6	585.0	584.1	578.0	575.4	569.1	557.8	552.4	545.4	542.8
35°	532.1	530.4	527.8	526.9	524.2	521.6	515.4	506.6	504.0	498.6	496.0
37.5°	465.2	467.0	465.2	465.2	462.5	463.4	458.1	452.9	450.2	446.8	444.9
40°	393.0	396.5	399.1	399.1	398.2	401.8	400.9	396.5	395.6	393.9	393.0
42.5°	319.9	321.6	326.9	330.4	329.5	338.4	339.2	342.8	345.4	343.6	344.5
45°	243.1	248.5	255.5	259.0	263.4	274.9	281.0	288.1	294.2	297.8	296.9
47.5°	175.4	181.5	189.4	194.8	202.6	216.8	232.6	241.4	250.2	254.6	259.0
50°	126.9	133.0	142.8	150.6	156.0	175.4	192.1	203.5	213.2	219.4	223.8
52.5°	89.0	96.0	106.6	113.6	121.6	140.1	159.5	172.6	183.2	191.1	195.6
55°	61.6	69.6	79.2	86.4	95.1	114.5	133.0	147.1	158.6	165.6	170.9
57.5°	43.1	50.2	59.9	66.1	74.9	93.4	111.9	126.0	137.5	144.5	150.6
60°	29.1	36.1	45.9	52.0	59.0	77.5	94.2	109.2	119.9	126.9	133.0
62.5°	20.2	26.4	36.1	42.2	48.5	64.4	80.1	93.4	104.0	111.9	117.1
65°	15.9	21.1	29.1	34.4	40.5	53.8	67.0	78.4	89.0	96.9	100.5
67.5°	11.5	16.8	22.9	27.2	31.8	43.1	54.6	63.4	73.1	79.2	83.8
70°	7.9	11.5	16.8	20.2	23.8	32.6	41.4	49.4	56.4	60.8	64.4
72.5°	6.1	7.9	11.5	14.1	16.8	22.9	30.0	36.1	41.4	44.9	48.5
75°	3.5	5.2	7.9	9.8	11.5	15.9	20.2	24.6	28.2	30.9	32.6
77.5°	1.8	2.6	4.4	5.2	7.0	9.8	13.2	15.9	18.5	20.2	22.0
80°	1.8	1.8	2.6	2.6	3.5	5.2	7.0	8.8	10.6	12.4	13.2
82.5°	0.9	0.9	1.8	1.8	1.8	2.6	3.5	5.2	6.1	7.0	7.9
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.6	3.5	4.4	4.4
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.6
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°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	759.5	761.2	760.4	762.1	759.5	758.6	760.4	757.8
5°	749.8	750.6	749.8	749.8	748.0	746.2	748.0	745.4
7.5°	734.8	734.8	732.1	732.1	728.6	726.9	726.9	726.0
10°	722.5	719.8	717.1	718.0	712.8	711.0	710.1	709.2
12.5°	716.2	714.5	710.1	710.1	704.9	703.1	702.2	701.2
15°	709.2	705.8	702.2	701.2	696.9	695.1	694.2	692.5
17.5°	696.9	694.2	689.9	689.9	685.5	684.6	682.8	681.9
20°	683.8	680.1	676.6	676.6	671.4	671.4	668.8	669.6
22.5°	665.1	662.5	659.0	659.0	654.6	653.8	651.1	650.2
25°	643.1	639.6	637.0	636.1	632.6	630.9	630.0	628.1
27.5°	614.1	611.5	608.8	607.0	602.6	601.8	599.1	600.0
30°	578.0	576.2	575.4	573.5	568.2	566.5	566.5	563.9
32.5°	538.4	535.6	533.9	531.2	526.9	526.0	523.4	524.2
35°	489.9	486.4	483.8	484.6	479.2	478.4	476.6	477.5
37.5°	439.6	436.1	432.6	431.8	427.2	427.2	424.6	424.6
40°	387.6	384.1	382.4	382.4	377.1	378.0	375.4	374.5
42.5°	341.0	337.5	336.5	335.6	333.0	332.1	329.5	330.4
45°	296.9	296.0	296.0	294.2	291.6	290.8	291.6	291.6
47.5°	258.1	259.0	258.1	258.1	256.4	258.1	256.4	257.2
50°	225.5	227.2	227.2	227.2	226.4	227.2	227.2	228.2
52.5°	198.2	200.9	200.0	200.9	200.0	201.8	200.9	201.8
55°	174.5	176.2	177.1	178.0	178.0	178.0	178.0	178.0
57.5°	152.4	155.1	156.0	156.9	156.9	158.6	156.9	156.9
60°	134.8	137.5	138.4	139.2	139.2	140.1	138.4	139.2
62.5°	119.0	121.6	121.6	122.5	122.5	122.5	120.8	121.6
65°	103.1	104.0	104.9	104.9	104.0	104.0	103.1	104.0
67.5°	85.5	86.4	85.5	85.5	84.6	84.6	82.9	83.8
70°	66.1	66.1	67.0	66.1	65.2	66.1	65.2	64.4
72.5°	49.4	49.4	49.4	48.5	48.5	47.6	48.5	48.5
75°	33.5	33.5	34.4	34.4	34.4	34.4	33.5	33.5
77.5°	22.0	22.0	22.0	22.0	22.9	22.0	22.0	22.0
80°	14.1	14.1	15.0	15.0	14.1	14.1	14.1	14.1
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8
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)