

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: P252139

Luminaire Tested: **LE_6B10D010 EC6B10209727 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209727 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1207.5 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

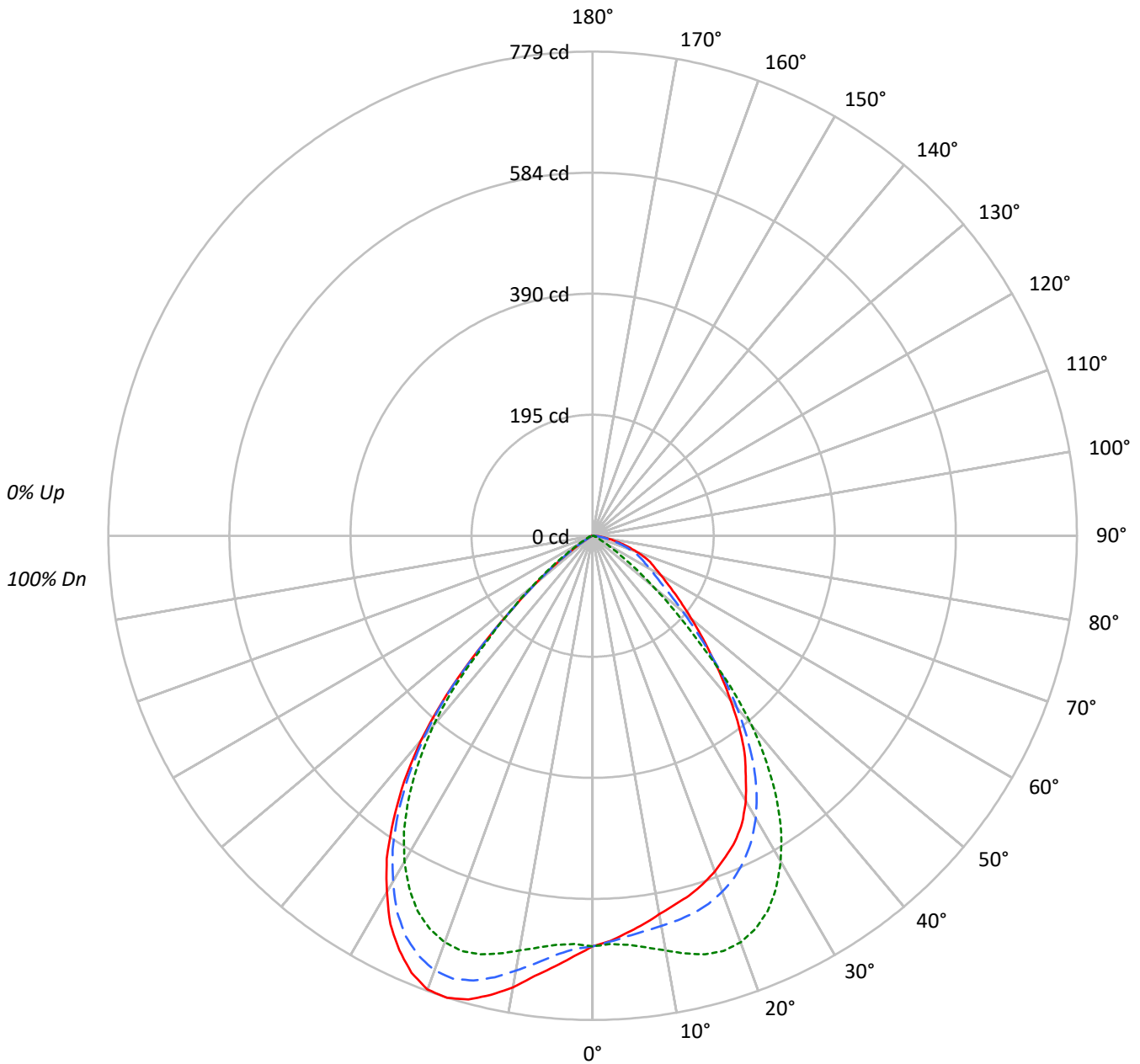
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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								
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80								
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72								
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65								
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53								
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48								
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44								
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40								
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43098	43098	43098
5°	41979	43263	45542
10°	40954	44889	48864
15°	40485	47090	52169
20°	39907	48322	53931
25°	39052	47956	52967
30°	37109	45577	49863
35°	33944	41096	44513
40°	29374	33938	36528
45°	24764	22254	23887
50°	21020	12890	12119
55°	18244	6188	4663
60°	16467	2884	1161
65°	15993	1667	386
70°	14325	1335	362
75°	11797	958	151
80°	8792	451	0
85°	7560	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	5.3
10°-20°	194.5	16.1
20°-30°	297.1	24.6
30°-40°	310.8	25.7
40°-50°	201.6	16.7
50°-60°	80.0	6.6
60°-70°	38.0	3.1
70°-80°	18.0	1.5
80°-90°	3.7	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°	555.4	46.0
0°-40°	866.2	71.7
0°-60°	1147.8	95.1
0°-90°	1207.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	661	661	661	661	661	
5°	641	647	661	677	695	61
15°	599	628	697	741	772	169
25°	542	577	666	711	736	248
35°	426	452	516	546	559	264
45°	268	266	241	256	259	209
55°	160	136	54	42	41	145
65°	104	86	11	2	2	101
75°	47	38	4	1	1	50
85°	10	6	0	0	0	12
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°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	652.4	653.6	646.8	644.8	649.9	651.8	652.4	650.5	651.1	653.6	653.6
5°	641.0	642.2	636.0	634.1	639.1	640.4	642.2	641.6	643.5	647.4	646.8
7.5°	630.2	632.1	625.2	622.8	629.0	632.1	633.5	633.5	636.0	641.0	641.6
10°	618.2	620.8	614.5	613.2	620.1	623.4	624.0	625.2	629.0	636.0	637.2
12.5°	608.1	610.8	606.2	604.4	612.0	615.1	616.4	618.9	623.4	632.1	633.5
15°	599.4	601.2	596.1	594.9	602.5	606.2	606.9	610.8	616.4	626.5	628.4
17.5°	588.0	589.2	585.5	584.1	591.8	595.5	596.1	600.6	607.5	617.6	620.8
20°	574.8	576.0	572.1	570.9	578.5	582.9	583.5	587.4	595.5	606.2	609.5
22.5°	558.9	561.5	557.0	555.8	563.4	567.1	569.0	572.1	580.4	591.1	595.5
25°	542.5	542.5	539.4	538.8	545.6	550.1	549.5	553.9	562.1	572.9	576.6
27.5°	521.0	520.4	517.2	516.6	524.1	528.0	526.8	531.1	538.8	549.5	553.2
30°	492.6	493.9	489.5	488.1	494.5	500.9	500.1	504.6	512.1	522.2	524.9
32.5°	458.5	459.8	459.1	457.2	462.9	466.1	468.0	471.1	477.5	488.1	490.8
35°	426.2	424.4	421.9	421.9	427.5	432.6	430.8	434.5	440.9	451.5	452.1
37.5°	386.5	385.9	384.6	383.4	389.6	390.9	391.5	394.1	399.8	408.6	407.4
40°	344.9	345.5	344.9	342.2	346.1	351.1	350.5	351.8	356.9	363.1	361.2
42.5°	305.6	305.6	305.6	303.1	307.6	310.1	311.4	310.8	312.0	317.6	315.1
45°	268.4	269.0	268.4	267.8	268.4	269.6	268.4	267.8	267.8	269.6	265.9
47.5°	236.2	236.2	234.2	232.4	234.2	234.9	233.0	231.1	230.5	229.9	223.6
50°	207.1	206.5	205.9	202.8	204.6	205.2	202.8	201.5	198.9	195.8	188.2
52.5°	181.9	181.2	180.6	177.5	178.8	179.4	176.9	174.2	171.1	168.6	159.1
55°	160.4	159.8	159.8	157.9	156.6	157.9	155.4	153.5	149.0	145.9	136.4
57.5°	142.1	142.1	140.9	139.0	139.6	139.6	137.0	134.5	130.8	127.0	119.4
60°	126.2	126.2	126.2	124.4	124.4	124.4	123.1	120.6	117.5	113.6	106.1
62.5°	113.6	113.6	113.0	111.1	111.8	111.8	110.5	108.0	104.9	102.2	94.8
65°	103.6	103.6	103.6	101.6	101.6	102.2	101.0	98.5	96.0	92.9	85.9
67.5°	91.0	90.2	90.2	89.0	89.6	90.2	89.0	87.1	84.0	82.1	75.8
70°	75.1	75.8	76.4	74.5	75.1	75.1	74.5	72.6	70.8	68.9	63.1
72.5°	61.2	61.2	60.6	60.0	60.0	60.6	59.4	57.5	56.2	55.0	50.5
75°	46.8	46.1	46.8	45.5	45.5	45.5	44.2	43.6	43.0	41.0	37.9
77.5°	34.1	33.5	33.5	32.2	32.9	32.9	32.2	31.0	29.6	29.0	26.5
80°	23.4	23.4	23.4	22.8	22.8	22.1	22.1	21.5	20.2	19.6	18.4
82.5°	15.8	15.8	15.8	15.1	15.1	15.1	14.5	13.9	13.2	12.6	11.4
85°	10.1	10.1	10.1	9.5	9.5	9.5	8.9	8.9	8.2	7.6	6.4
87.5°	5.6	5.6	5.6	5.0	5.0	5.0	5.0	5.0	4.4	3.8	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	658.1	649.2	654.9	654.9	653.0	658.1	661.2	663.8	663.1	657.5	656.8
5°	653.0	645.5	651.8	652.4	650.5	657.5	661.9	665.0	665.6	660.6	661.2
7.5°	649.2	642.9	651.1	653.6	653.0	659.4	664.4	669.5	672.0	668.1	668.8
10°	647.4	642.2	651.1	654.9	655.5	662.5	670.1	677.0	680.1	677.6	679.5
12.5°	644.8	641.6	651.8	657.5	660.0	666.9	676.4	684.6	689.6	688.4	692.1
15°	642.2	639.8	651.8	660.0	663.1	669.5	680.1	692.1	697.9	697.2	702.2
17.5°	636.0	635.4	648.0	656.8	661.2	668.8	678.9	693.5	699.1	700.4	706.8
20°	625.9	625.9	639.8	649.2	654.2	661.2	673.9	687.8	694.8	696.0	702.9
22.5°	612.0	613.2	626.5	636.0	643.5	648.6	661.9	676.4	682.8	684.6	692.1
25°	593.6	594.9	607.5	617.0	625.2	630.9	643.5	656.8	664.4	666.2	672.0
27.5°	569.6	572.1	584.1	593.6	600.6	604.4	617.6	631.5	637.2	639.1	644.8
30°	541.9	542.5	554.5	562.8	569.6	572.9	584.1	598.8	603.1	605.0	613.2
32.5°	507.8	507.1	518.5	526.1	531.8	535.5	547.5	557.0	561.5	564.6	569.0
35°	466.8	466.1	474.2	483.1	487.5	488.9	500.9	510.9	513.5	516.0	521.6
37.5°	420.6	420.6	427.5	432.0	437.0	438.9	444.6	456.0	460.4	459.8	464.1
40°	372.0	369.5	374.5	378.9	380.2	380.9	386.5	395.4	398.5	398.5	401.6
42.5°	320.9	317.0	317.6	320.2	321.5	317.0	320.9	326.5	324.6	327.1	327.8
45°	266.5	260.9	258.2	252.6	253.9	249.5	246.9	248.2	247.6	241.2	242.5
47.5°	222.2	212.2	207.8	199.6	197.6	192.6	189.5	183.8	178.8	178.8	175.6
50°	185.0	175.0	166.1	156.6	153.5	149.0	142.1	134.5	130.8	127.0	123.8
52.5°	155.4	144.6	133.9	123.8	119.4	113.6	104.2	96.6	89.6	85.9	82.1
55°	131.4	119.4	108.0	97.2	91.6	85.9	76.4	67.6	59.4	54.4	51.1
57.5°	113.0	101.6	89.6	78.2	73.2	67.0	56.9	47.4	39.8	34.1	31.0
60°	99.8	88.4	77.6	65.6	60.6	54.4	43.6	34.8	27.1	22.1	18.4
62.5°	88.4	78.2	67.0	56.2	51.1	44.9	34.8	25.9	19.0	13.9	10.8
65°	80.2	70.1	60.6	49.9	45.5	39.1	29.6	21.5	15.1	10.8	7.6
67.5°	70.8	61.9	52.4	43.6	39.1	34.1	25.2	18.4	12.6	8.9	6.4
70°	59.4	52.4	44.2	36.0	32.9	28.4	20.9	15.1	10.1	7.0	5.0
72.5°	47.4	41.6	35.4	29.0	26.5	22.1	17.0	12.0	7.6	5.0	3.8
75°	36.0	31.6	26.5	22.1	19.6	17.0	12.6	8.9	5.6	3.8	2.5
77.5°	24.6	22.8	19.0	15.1	13.9	12.0	8.2	5.6	3.8	2.5	1.2
80°	17.0	15.1	12.6	10.1	8.9	7.6	5.0	3.8	1.9	1.2	0.6
82.5°	10.8	8.9	7.6	6.4	5.6	4.4	3.1	1.9	1.2	0.6	0.6
85°	5.6	5.0	4.4	3.1	3.1	2.5	1.9	1.2	0.6	0.0	0.0
87.5°	3.1	2.5	1.9	1.2	1.2	0.6	0.6	0.6	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°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	664.4	664.4	663.8	671.4	662.5	671.4	666.9	671.4	665.0	664.4	665.0
5°	669.5	671.4	672.0	678.9	670.8	681.5	677.6	681.5	677.0	678.2	680.1
7.5°	679.5	682.8	682.1	690.9	682.8	694.8	692.1	697.9	693.5	694.8	697.2
10°	690.9	694.8	695.4	704.1	696.6	711.1	708.0	714.2	710.5	712.4	715.5
12.5°	704.1	708.6	709.2	719.4	711.1	726.2	724.4	730.8	727.5	729.4	733.2
15°	714.2	720.6	721.9	732.0	723.1	738.9	737.6	745.9	740.8	744.0	747.1
17.5°	719.4	725.0	727.5	737.0	729.4	745.2	744.0	750.9	747.1	750.2	754.1
20°	716.1	723.1	725.0	734.5	726.9	742.8	740.8	747.8	744.0	746.5	750.2
22.5°	704.8	711.8	714.2	723.1	716.1	730.8	730.1	736.4	731.4	734.5	737.6
25°	684.6	692.1	693.5	701.6	694.1	709.2	708.0	714.9	711.1	713.0	717.4
27.5°	655.5	664.4	666.2	673.2	667.5	680.1	680.1	685.9	681.5	681.5	685.9
30°	620.8	629.6	630.9	636.6	631.5	642.9	643.5	649.2	642.2	646.1	646.8
32.5°	578.5	584.1	588.0	593.0	585.5	600.0	598.1	602.5	598.8	598.8	601.9
35°	527.4	534.2	536.1	542.5	536.1	547.5	547.5	550.1	546.2	546.2	551.4
37.5°	471.8	476.9	477.5	483.8	478.8	488.1	487.5	489.5	485.6	488.1	488.1
40°	406.8	410.5	411.8	414.9	414.2	421.2	420.6	421.9	420.0	420.6	421.9
42.5°	330.9	336.0	338.5	341.0	337.2	346.8	344.9	346.8	346.1	346.8	348.6
45°	243.8	247.6	249.5	250.1	248.9	254.5	258.9	255.1	255.8	254.5	257.0
47.5°	176.2	176.9	175.6	179.4	176.2	178.8	180.0	180.6	176.9	176.2	178.8
50°	120.6	123.8	119.4	121.2	120.6	123.1	121.9	122.5	118.8	120.6	119.4
52.5°	80.2	79.6	78.2	79.0	77.6	77.6	77.6	79.0	76.4	75.1	73.9
55°	48.6	47.4	44.9	44.2	44.2	44.9	43.6	42.4	42.4	41.6	41.6
57.5°	28.4	26.5	25.2	24.6	23.4	22.8	22.1	22.1	20.9	20.9	20.9
60°	15.8	13.9	12.6	11.4	11.4	10.8	10.1	9.5	9.5	9.5	8.9
62.5°	8.2	7.0	5.6	5.0	5.0	4.4	3.8	3.8	3.8	3.8	3.1
65°	5.6	4.4	3.8	3.1	3.1	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	4.4	3.8	3.1	2.5	2.5	2.5	1.9	1.9	1.9	1.9	1.9
70°	3.8	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	670.8	670.1	670.8	672.0	669.5	677.0	673.2	677.0
5°	685.2	685.9	686.5	688.4	685.2	694.8	689.6	695.4
7.5°	704.1	704.8	705.5	707.4	705.5	714.9	709.2	714.2
10°	723.8	725.0	725.0	728.1	726.2	735.1	731.4	737.6
12.5°	742.1	743.4	744.6	746.5	745.2	754.8	751.5	756.6
15°	756.6	759.1	759.8	762.2	761.0	771.1	767.4	772.4
17.5°	763.5	766.1	766.1	769.2	768.0	778.8	773.6	779.4
20°	759.8	761.6	762.2	765.4	764.1	774.9	769.9	776.8
22.5°	747.8	748.4	749.0	752.1	751.5	761.0	756.6	761.0
25°	725.6	727.5	726.9	729.4	729.4	737.0	732.0	735.8
27.5°	694.1	696.0	696.0	699.1	696.6	704.1	699.1	704.8
30°	655.5	657.5	656.1	658.8	656.1	663.8	660.0	661.9
32.5°	609.5	609.5	610.1	610.8	609.5	616.4	612.6	616.4
35°	554.5	555.8	556.4	557.0	555.8	560.9	556.4	558.9
37.5°	492.6	495.8	495.1	495.8	493.9	500.1	496.4	497.6
40°	426.2	426.2	425.6	426.9	425.0	430.1	427.5	428.9
42.5°	349.2	351.1	348.6	351.8	346.8	353.6	351.1	349.2
45°	262.1	259.6	258.9	259.6	257.6	258.2	260.2	258.9
47.5°	178.8	178.8	177.5	175.6	178.1	178.8	176.2	176.2
50°	120.0	120.0	118.8	118.1	119.4	118.8	117.5	119.4
52.5°	76.4	73.9	73.9	75.1	73.9	72.6	74.5	73.2
55°	41.6	40.4	40.4	41.6	40.4	40.4	39.8	41.0
57.5°	20.2	20.9	20.2	20.2	20.2	20.2	19.6	20.2
60°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
62.5°	3.8	3.8	3.1	3.1	3.1	3.1	3.1	3.1
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	1.9	1.9	1.9	1.9	1.9	2.5	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)