

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: P252134

Luminaire Tested: **LE_6B10D010 EC6B10209027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252134
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 EC6B10209027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1388.7 lumens
Efficiency: N/A
Efficacy: 138.9 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

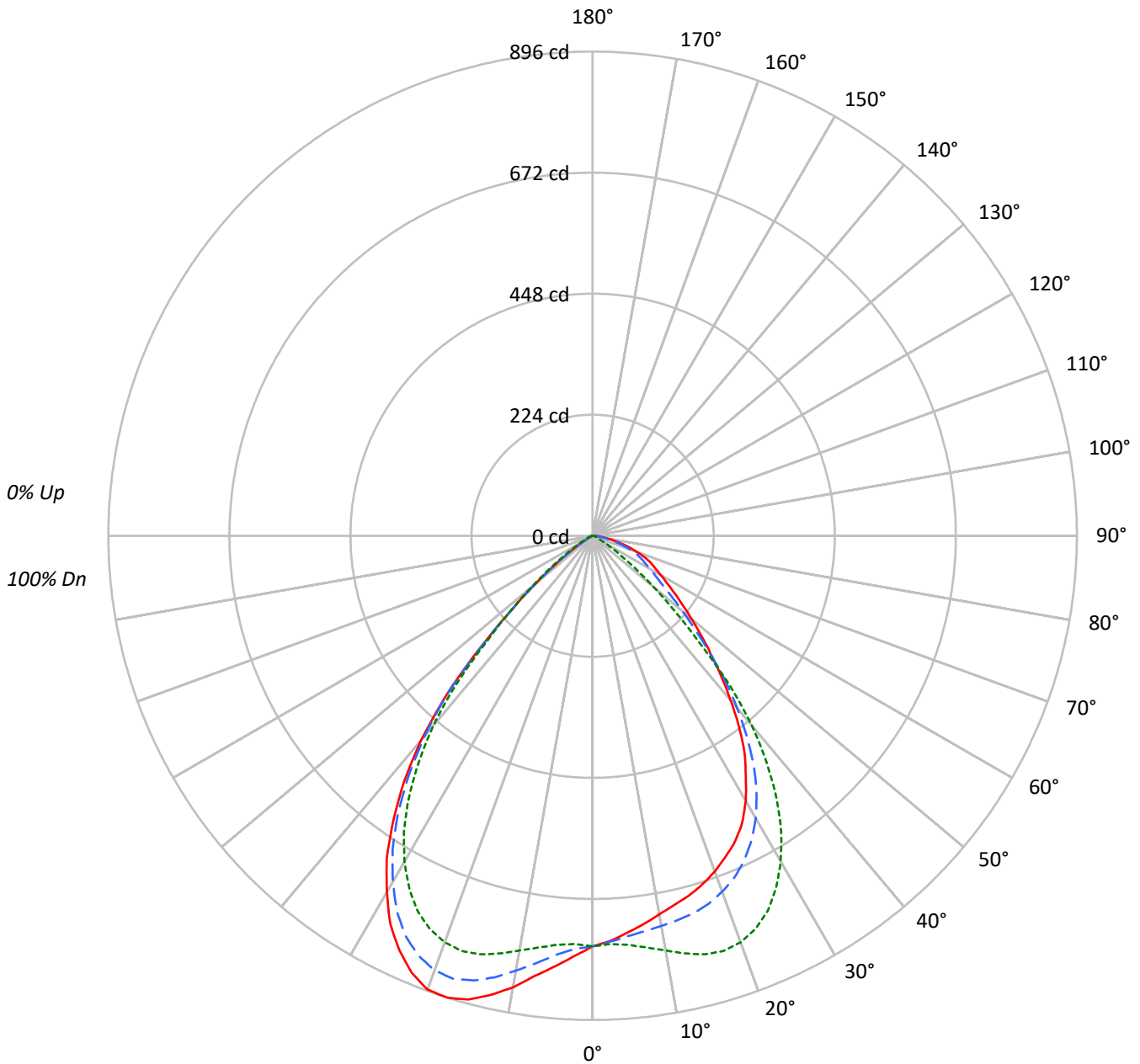
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	49570	49570	49570
5°	48279	49759	52379
10°	47108	51633	56204
15°	46550	54162	60004
20°	45892	55570	62027
25°	44911	55155	60914
30°	42676	52425	57344
35°	39042	47261	51203
40°	33777	39040	42004
45°	28491	25603	27476
50°	24176	14818	13925
55°	20986	7109	5369
60°	18946	3314	1318
65°	18386	1914	448
70°	16481	1526	401
75°	13561	1109	202
80°	10106	564	0
85°	8683	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	5.3
10°-20°	223.7	16.1
20°-30°	341.7	24.6
30°-40°	357.4	25.7
40°-50°	231.9	16.7
50°-60°	92.1	6.6
60°-70°	43.7	3.1
70°-80°	20.8	1.5
80°-90°	4.2	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°	638.8	46.0
0°-40°	996.2	71.7
0°-60°	1320.1	95.1
0°-90°	1388.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	760	760	760	760	760	
5°	737	744	760	779	800	70
15°	689	723	802	852	888	194
25°	624	663	766	818	846	286
35°	490	520	593	628	643	303
45°	309	306	278	294	298	240
55°	184	157	62	49	47	167
65°	119	99	12	3	3	116
75°	54	44	4	2	1	58
85°	12	7	0	0	0	14
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°	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8
2.5°	750.4	751.8	743.8	741.6	747.4	749.6	750.4	748.1	748.9	751.8	751.8
5°	737.2	738.8	731.4	729.2	735.0	736.5	738.8	738.0	740.1	744.5	743.8
7.5°	724.9	727.1	719.1	716.1	723.5	727.1	728.5	728.5	731.4	737.2	738.0
10°	711.1	714.0	706.8	705.2	713.2	716.9	717.6	719.1	723.5	731.4	732.9
12.5°	699.5	702.4	697.2	695.1	703.9	707.5	708.9	711.9	716.9	727.1	728.5
15°	689.2	691.5	685.6	684.2	692.9	697.2	698.0	702.4	708.9	720.5	722.8
17.5°	676.2	677.6	673.4	671.9	680.6	685.0	685.6	690.8	698.8	710.4	714.0
20°	661.0	662.4	658.1	656.6	665.4	670.4	671.1	675.5	685.0	697.2	700.9
22.5°	642.9	645.8	640.6	639.1	647.9	652.2	654.4	658.1	667.5	679.9	685.0
25°	623.9	623.9	620.2	619.6	627.5	632.6	631.9	637.0	646.5	658.8	663.1
27.5°	599.2	598.5	594.9	594.1	602.9	607.2	605.8	610.9	619.6	631.9	636.2
30°	566.5	568.0	562.9	561.5	568.8	576.0	575.2	580.4	589.1	600.6	603.6
32.5°	527.4	528.8	528.0	525.9	532.4	536.0	538.2	541.9	549.1	561.5	564.4
35°	490.2	488.1	485.2	485.2	491.8	497.5	495.4	499.8	507.0	519.4	520.0
37.5°	444.5	443.8	442.4	440.9	448.1	449.6	450.4	453.2	459.8	470.0	468.5
40°	396.6	397.2	396.6	393.6	398.0	403.9	403.1	404.6	410.4	417.6	415.5
42.5°	351.5	351.5	351.5	348.6	353.8	356.6	358.1	357.4	358.9	365.4	362.5
45°	308.8	309.4	308.8	308.0	308.8	310.1	308.8	308.0	308.0	310.1	305.8
47.5°	271.6	271.6	269.5	267.2	269.5	270.2	268.0	265.9	265.1	264.4	257.1
50°	238.2	237.5	236.8	233.1	235.4	236.0	233.1	231.8	228.8	225.1	216.5
52.5°	209.1	208.5	207.8	204.1	205.5	206.2	203.4	200.5	196.9	193.9	183.0
55°	184.5	183.8	183.8	181.6	180.1	181.6	178.6	176.5	171.4	167.8	156.9
57.5°	163.4	163.4	162.0	159.8	160.5	160.5	157.6	154.8	150.4	146.0	137.2
60°	145.2	145.2	145.2	143.1	143.1	143.1	141.6	138.8	135.1	130.8	122.0
62.5°	130.8	130.8	130.0	127.9	128.6	128.6	127.1	124.2	120.6	117.6	109.0
65°	119.1	119.1	119.1	117.0	117.0	117.6	116.2	113.2	110.4	106.8	98.8
67.5°	104.6	103.9	103.9	102.4	103.1	103.9	102.4	100.2	96.6	94.4	87.1
70°	86.4	87.1	87.9	85.8	86.4	86.4	85.8	83.5	81.4	79.1	72.6
72.5°	70.5	70.5	69.8	69.0	69.0	69.8	68.2	66.1	64.6	63.2	58.1
75°	53.8	53.0	53.8	52.2	52.2	52.2	50.9	50.1	49.4	47.2	43.6
77.5°	39.2	38.5	38.5	37.0	37.8	37.8	37.0	35.6	34.1	33.4	30.5
80°	26.9	26.9	26.9	26.1	26.1	25.4	25.4	24.8	23.2	22.5	21.1
82.5°	18.1	18.1	18.1	17.4	17.4	17.4	16.8	16.0	15.2	14.5	13.1
85°	11.6	11.6	11.6	10.9	10.9	10.9	10.1	10.1	9.5	8.8	7.2
87.5°	6.5	6.5	6.5	5.8	5.8	5.8	5.8	5.8	5.1	4.4	3.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8
2.5°	756.9	746.6	753.2	753.2	751.0	756.9	760.5	763.4	762.6	756.1	755.4
5°	751.0	742.4	749.6	750.4	748.1	756.1	761.2	764.9	765.6	759.8	760.5
7.5°	746.6	739.4	748.9	751.8	751.0	758.2	764.1	769.9	772.9	768.5	769.2
10°	744.5	738.8	748.9	753.2	754.0	761.9	770.6	778.6	782.2	779.4	781.5
12.5°	741.6	738.0	749.6	756.1	759.0	767.0	777.9	787.4	793.1	791.8	796.1
15°	738.8	735.8	749.6	759.0	762.6	769.9	782.2	796.1	802.6	801.9	807.8
17.5°	731.4	730.8	745.2	755.4	760.5	769.2	780.9	797.5	804.1	805.5	812.8
20°	719.8	719.8	735.8	746.6	752.5	760.5	775.0	791.0	799.0	800.4	808.4
22.5°	703.9	705.2	720.5	731.4	740.1	746.0	761.2	777.9	785.1	787.4	796.1
25°	682.8	684.2	698.8	709.6	719.1	725.6	740.1	755.4	764.1	766.2	772.9
27.5°	655.1	658.1	671.9	682.8	690.8	695.1	710.4	726.4	732.9	735.0	741.6
30°	623.2	623.9	637.8	647.1	655.1	658.8	671.9	688.6	693.6	695.9	705.2
32.5°	584.0	583.2	596.4	605.0	611.6	616.0	629.8	640.6	645.8	649.4	654.4
35°	536.8	536.0	545.5	555.6	560.8	562.2	576.0	587.6	590.5	593.4	600.0
37.5°	483.8	483.8	491.8	496.9	502.6	504.8	511.4	524.4	529.5	528.8	533.9
40°	427.9	424.9	430.8	435.8	437.2	438.0	444.5	454.8	458.4	458.4	462.0
42.5°	369.0	364.6	365.4	368.2	369.8	364.6	369.0	375.5	373.4	376.2	377.0
45°	306.5	300.0	297.1	290.5	292.0	286.9	284.0	285.5	284.8	277.5	278.9
47.5°	255.6	244.0	239.0	229.5	227.4	221.5	217.9	211.4	205.5	205.5	201.9
50°	212.9	201.2	191.0	180.1	176.5	171.4	163.4	154.8	150.4	146.0	142.4
52.5°	178.6	166.4	154.0	142.4	137.2	130.8	119.9	111.1	103.1	98.8	94.4
55°	151.1	137.2	124.2	111.9	105.4	98.8	87.9	77.8	68.2	62.5	58.9
57.5°	130.0	117.0	103.1	90.1	84.2	77.0	65.4	54.5	45.8	39.2	35.6
60°	114.8	101.8	89.4	75.5	69.8	62.5	50.1	40.0	31.2	25.4	21.1
62.5°	101.8	90.1	77.0	64.6	58.9	51.6	40.0	29.8	21.8	16.0	12.4
65°	92.2	80.6	69.8	57.4	52.2	45.0	34.1	24.8	17.4	12.4	8.8
67.5°	81.4	71.1	60.2	50.1	45.0	39.2	29.0	21.1	14.5	10.1	7.2
70°	68.2	60.2	50.9	41.4	37.8	32.6	24.0	17.4	11.6	8.0	5.8
72.5°	54.5	48.0	40.6	33.4	30.5	25.4	19.6	13.8	8.8	5.8	4.4
75°	41.4	36.4	30.5	25.4	22.5	19.6	14.5	10.1	6.5	4.4	2.9
77.5°	28.4	26.1	21.8	17.4	16.0	13.8	9.5	6.5	4.4	2.9	1.5
80°	19.6	17.4	14.5	11.6	10.1	8.8	5.8	4.4	2.1	1.5	0.8
82.5°	12.4	10.1	8.8	7.2	6.5	5.1	3.6	2.1	1.5	0.8	0.8
85°	6.5	5.8	5.1	3.6	3.6	2.9	2.1	1.5	0.8	0.0	0.0
87.5°	3.6	2.9	2.1	1.5	1.5	0.8	0.8	0.8	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°	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8
2.5°	764.1	764.1	763.4	772.1	761.9	772.1	767.0	772.1	764.9	764.1	764.9
5°	769.9	772.1	772.9	780.9	771.4	783.8	779.4	783.8	778.6	780.1	782.2
7.5°	781.5	785.1	784.5	794.6	785.1	799.0	796.1	802.6	797.5	799.0	801.9
10°	794.6	799.0	799.8	809.9	801.1	817.9	814.2	821.5	817.1	819.4	823.0
12.5°	809.9	815.0	815.6	827.2	817.9	835.2	833.1	840.4	836.8	838.9	843.2
15°	821.5	828.8	830.2	841.9	831.6	849.9	848.4	857.8	852.0	855.6	859.2
17.5°	827.2	833.9	836.8	847.6	838.9	857.1	855.6	863.6	859.2	862.9	867.2
20°	823.6	831.6	833.9	844.8	836.0	854.1	852.0	860.0	855.6	858.5	862.9
22.5°	810.6	818.6	821.5	831.6	823.6	840.4	839.6	846.9	841.1	844.8	848.4
25°	787.4	796.1	797.5	807.0	798.2	815.6	814.2	822.2	817.9	820.0	825.1
27.5°	754.0	764.1	766.2	774.2	767.8	782.2	782.2	788.8	783.8	783.8	788.8
30°	714.0	724.1	725.6	732.1	726.4	739.4	740.1	746.6	738.8	743.0	743.8
32.5°	665.4	671.9	676.2	682.0	673.4	690.0	687.9	692.9	688.6	688.6	692.2
35°	606.5	614.5	616.6	623.9	616.6	629.8	629.8	632.6	628.2	628.2	634.1
37.5°	542.6	548.4	549.1	556.4	550.6	561.5	560.8	562.9	558.5	561.5	561.5
40°	467.8	472.1	473.6	477.2	476.5	484.5	483.8	485.2	483.0	483.8	485.2
42.5°	380.6	386.4	389.4	392.2	387.9	398.8	396.6	398.8	398.0	398.8	401.0
45°	280.4	284.8	286.9	287.6	286.1	292.8	297.8	293.5	294.1	292.8	295.6
47.5°	202.6	203.4	201.9	206.2	202.6	205.5	207.0	207.8	203.4	202.6	205.5
50°	138.8	142.4	137.2	139.5	138.8	141.6	140.1	140.9	136.5	138.8	137.2
52.5°	92.2	91.5	90.1	90.8	89.4	89.4	89.4	90.8	87.9	86.4	85.0
55°	55.9	54.5	51.6	50.9	50.9	51.6	50.1	48.6	48.6	48.0	48.0
57.5°	32.6	30.5	29.0	28.4	26.9	26.1	25.4	25.4	24.0	24.0	24.0
60°	18.1	16.0	14.5	13.1	13.1	12.4	11.6	10.9	10.9	10.9	10.1
62.5°	9.5	8.0	6.5	5.8	5.8	5.1	4.4	4.4	4.4	4.4	3.6
65°	6.5	5.1	4.4	3.6	3.6	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	5.1	4.4	3.6	2.9	2.9	2.9	2.1	2.1	2.1	2.1	2.1
70°	4.4	2.9	2.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.9	2.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	0.8	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°	759.8	759.8	759.8	759.8	759.8	759.8	759.8	759.8
2.5°	771.4	770.6	771.4	772.9	769.9	778.6	774.2	778.6
5°	788.1	788.8	789.5	791.8	788.1	799.0	793.1	799.8
7.5°	809.9	810.6	811.4	813.5	811.4	822.2	815.6	821.5
10°	832.4	833.9	833.9	837.5	835.2	845.5	841.1	848.4
12.5°	853.5	854.9	856.4	858.5	857.1	868.0	864.4	870.1
15°	870.1	873.1	873.8	876.8	875.2	886.9	882.5	888.4
17.5°	878.1	881.0	881.0	884.6	883.2	895.6	889.8	896.2
20°	873.8	876.0	876.8	880.4	878.9	891.2	885.4	893.4
22.5°	860.0	860.8	861.5	865.1	864.4	875.2	870.1	875.2
25°	834.6	836.8	836.0	838.9	838.9	847.6	841.9	846.2
27.5°	798.2	800.4	800.4	804.1	801.1	809.9	804.1	810.6
30°	754.0	756.1	754.6	757.6	754.6	763.4	759.0	761.2
32.5°	700.9	700.9	701.6	702.4	700.9	708.9	704.5	708.9
35°	637.8	639.1	639.9	640.6	639.1	645.0	639.9	642.9
37.5°	566.5	570.1	569.5	570.1	568.0	575.2	570.9	572.4
40°	490.2	490.2	489.5	491.0	488.9	494.6	491.8	493.2
42.5°	401.6	403.9	401.0	404.6	398.8	406.8	403.9	401.6
45°	301.4	298.5	297.8	298.5	296.4	297.1	299.2	297.8
47.5°	205.5	205.5	204.1	201.9	204.9	205.5	202.6	202.6
50°	138.0	138.0	136.5	135.9	137.2	136.5	135.1	137.2
52.5°	87.9	85.0	85.0	86.4	85.0	83.5	85.8	84.2
55°	48.0	46.5	46.5	48.0	46.5	46.5	45.8	47.2
57.5°	23.2	24.0	23.2	23.2	23.2	23.2	22.5	23.2
60°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
62.5°	4.4	4.4	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	2.1	2.1	2.1	2.1	2.1	2.9	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
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)