

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: P252138

Luminaire Tested: **LE_6B10D010 EC6B10209050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252138
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 EC6B10209050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1473.7 lumens
Efficiency: N/A
Efficacy: 147.4 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

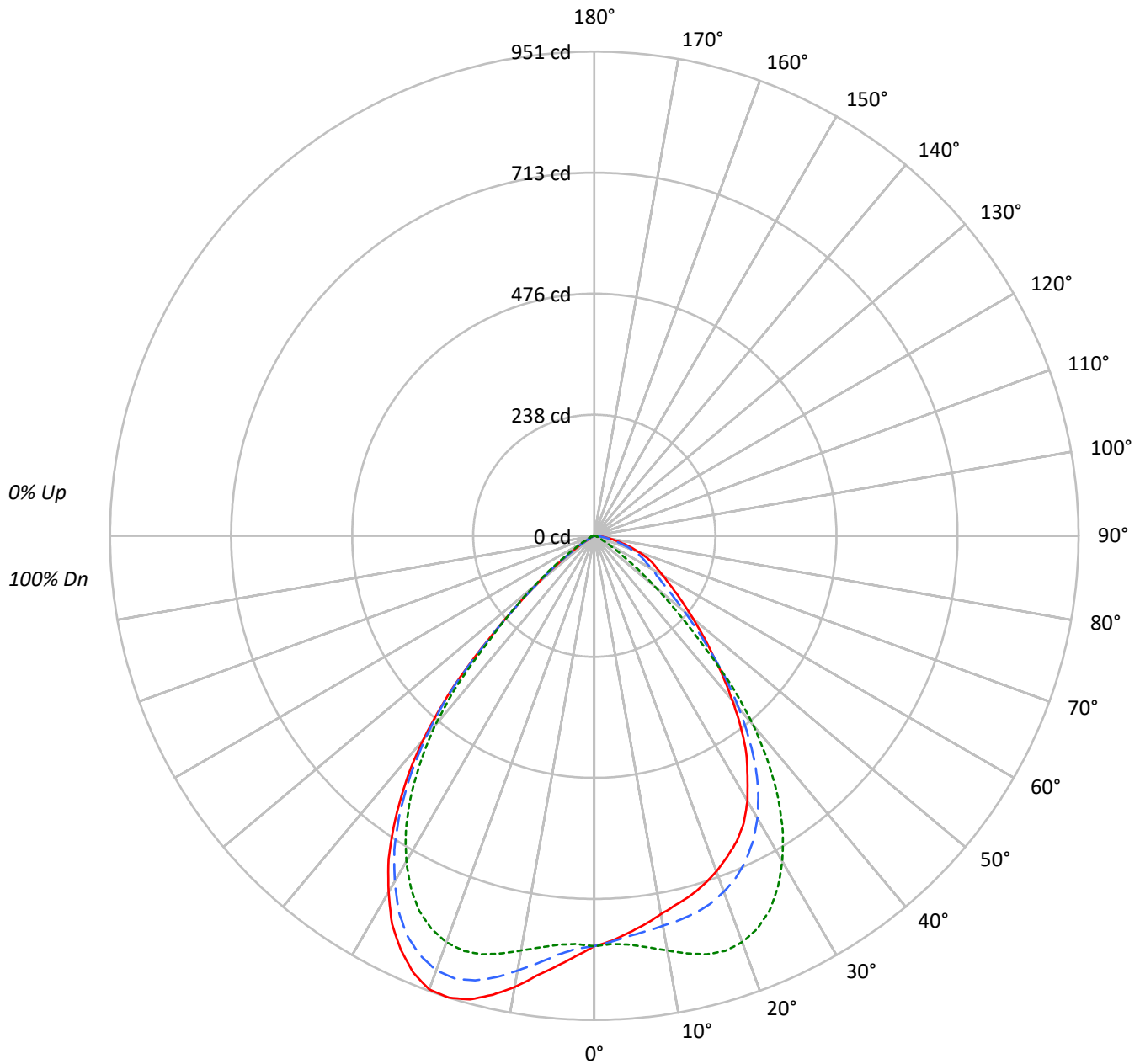
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	103		109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89		102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	89	83	78		95	88	82	78		85	80	76		83	78	75		80	77	74
4	91	82	75	69		89	80	74	69		78	72	68		76	71	67		74	70	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	61	56		78	68	61	56		66	60	55		64	59	55		63	58	54
7	74	63	56	51		73	62	55	50		61	55	50		60	54	50		58	53	50
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	42		64	54	47	42		53	46	42		52	46	42		51	45	42
10	62	50	43	39		61	50	43	39		49	43	39		48	43	39		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52597	52597	52597
5°	51239	52798	55575
10°	49990	54793	59636
15°	49407	57478	63679
20°	48697	58972	65824
25°	47661	58538	64643
30°	45290	55626	60854
35°	41431	50160	54325
40°	35846	41425	44576
45°	30226	27172	29155
50°	25668	15722	14778
55°	22271	7530	5699
60°	20107	3523	1409
65°	19513	2022	479
70°	17511	1621	420
75°	14368	1160	202
80°	10708	564	0
85°	9282	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	5.3
10°-20°	237.3	16.1
20°-30°	362.6	24.6
30°-40°	379.3	25.7
40°-50°	246.0	16.7
50°-60°	97.7	6.6
60°-70°	46.3	3.1
70°-80°	22.0	1.5
80°-90°	4.5	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°	677.9	46.0
0°-40°	1057.1	71.7
0°-60°	1400.9	95.1
0°-90°	1473.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	806	806	806	806	806	
5°	782	789	806	826	849	74
15°	732	767	851	904	943	206
25°	662	704	813	868	898	303
35°	520	552	630	667	682	322
45°	328	324	294	312	316	255
55°	196	166	66	52	50	177
65°	126	105	13	3	3	123
75°	57	46	5	2	1	62
85°	12	8	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	796.2	797.8	789.2	787.0	793.1	795.5	796.2	793.9	794.8	797.8	797.8
5°	782.4	783.9	776.2	773.9	780.0	781.6	783.9	783.1	785.5	790.1	789.2
7.5°	769.2	771.6	763.1	760.0	767.8	771.6	773.1	773.1	776.2	782.4	783.1
10°	754.6	757.8	750.0	748.5	756.9	760.8	761.5	763.1	767.8	776.2	777.8
12.5°	742.2	745.4	740.0	737.6	746.9	750.8	752.2	755.4	760.8	771.6	773.1
15°	731.5	733.8	727.6	726.1	735.4	740.0	740.8	745.4	752.2	764.6	767.0
17.5°	717.6	719.1	714.5	713.0	722.2	726.9	727.6	733.0	741.5	753.9	757.8
20°	701.4	703.0	698.4	696.8	706.0	711.5	712.2	716.9	726.9	740.0	743.9
22.5°	682.1	685.2	679.9	678.2	687.5	692.1	694.5	698.4	708.4	721.5	726.9
25°	662.1	662.1	658.2	657.5	666.0	671.4	670.6	676.0	686.0	699.1	703.8
27.5°	635.9	635.1	631.2	630.5	639.8	644.4	642.9	648.2	657.5	670.6	675.2
30°	601.2	602.8	597.4	595.9	603.5	611.2	610.5	615.9	625.1	637.5	640.5
32.5°	559.6	561.1	560.4	558.0	565.0	568.9	571.1	575.0	582.8	595.9	598.9
35°	520.2	518.0	514.9	514.9	521.9	528.0	525.6	530.2	538.0	551.1	551.9
37.5°	471.8	471.0	469.4	467.9	475.6	477.1	477.9	481.0	487.9	498.8	497.1
40°	420.9	421.6	420.9	417.8	422.4	428.6	427.8	429.4	435.5	443.2	440.9
42.5°	373.1	373.1	373.1	370.0	375.4	378.5	380.0	379.2	380.8	387.8	384.6
45°	327.6	328.4	327.6	326.9	327.6	329.1	327.6	326.9	326.9	329.1	324.5
47.5°	288.2	288.2	286.0	283.6	286.0	286.8	284.4	282.1	281.4	280.6	272.9
50°	252.9	252.0	251.2	247.4	249.8	250.5	247.4	245.9	242.8	239.0	229.8
52.5°	222.0	221.2	220.5	216.6	218.1	218.9	215.9	212.8	208.9	205.8	194.2
55°	195.8	195.0	195.0	192.8	191.1	192.8	189.6	187.2	181.9	178.0	166.5
57.5°	173.4	173.4	171.9	169.6	170.4	170.4	167.2	164.1	159.5	154.9	145.6
60°	154.1	154.1	154.1	151.9	151.9	151.9	150.2	147.2	143.4	138.8	129.5
62.5°	138.8	138.8	138.0	135.6	136.4	136.4	134.9	131.8	128.0	124.9	115.6
65°	126.4	126.4	126.4	124.1	124.1	124.9	123.4	120.2	117.1	113.2	104.9
67.5°	111.0	110.2	110.2	108.6	109.5	110.2	108.6	106.4	102.5	100.2	92.5
70°	91.8	92.5	93.2	91.0	91.8	91.8	91.0	88.6	86.4	84.0	77.1
72.5°	74.8	74.8	74.0	73.2	73.2	74.0	72.5	70.1	68.6	67.0	61.6
75°	57.0	56.2	57.0	55.5	55.5	55.5	54.0	53.1	52.4	50.1	46.2
77.5°	41.6	40.9	40.9	39.2	40.1	40.1	39.2	37.8	36.2	35.5	32.4
80°	28.5	28.5	28.5	27.8	27.8	27.0	27.0	26.2	24.6	23.9	22.4
82.5°	19.2	19.2	19.2	18.5	18.5	18.5	17.8	17.0	16.1	15.4	13.9
85°	12.4	12.4	12.4	11.5	11.5	11.5	10.8	10.8	10.0	9.2	7.8
87.5°	6.9	6.9	6.9	6.1	6.1	6.1	6.1	6.1	5.4	4.6	3.9
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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	803.1	792.4	799.4	799.4	797.0	803.1	807.0	810.1	809.4	802.4	801.6
5°	797.0	787.8	795.5	796.2	793.9	802.4	807.8	811.6	812.4	806.2	807.0
7.5°	792.4	784.6	794.8	797.8	797.0	804.8	810.9	817.0	820.1	815.5	816.2
10°	790.1	783.9	794.8	799.4	800.1	808.6	817.9	826.2	830.1	827.1	829.4
12.5°	787.0	783.1	795.5	802.4	805.5	814.0	825.5	835.5	841.8	840.1	844.8
15°	783.9	780.9	795.5	805.5	809.4	817.0	830.1	844.8	851.8	851.0	857.1
17.5°	776.2	775.4	790.9	801.6	807.0	816.2	828.6	846.4	853.2	854.9	862.5
20°	763.9	763.9	780.9	792.4	798.5	807.0	822.5	839.4	847.9	849.4	857.9
22.5°	746.9	748.5	764.6	776.2	785.5	791.6	807.8	825.5	833.2	835.5	844.8
25°	724.5	726.1	741.5	753.1	763.1	770.0	785.5	801.6	810.9	813.2	820.1
27.5°	695.2	698.4	713.0	724.5	733.0	737.6	753.9	770.8	777.8	780.0	787.0
30°	661.4	662.1	676.8	686.8	695.2	699.1	713.0	730.8	736.1	738.4	748.5
32.5°	619.8	619.0	632.9	642.1	649.0	653.6	668.2	679.9	685.2	689.1	694.5
35°	569.6	568.9	578.9	589.6	595.0	596.6	611.2	623.6	626.6	629.8	636.6
37.5°	513.4	513.4	521.9	527.2	533.4	535.8	542.6	556.5	561.9	561.1	566.5
40°	454.0	450.9	457.1	462.5	464.0	464.8	471.8	482.5	486.4	486.4	490.2
42.5°	391.6	387.0	387.8	390.8	392.4	387.0	391.6	398.5	396.2	399.2	400.0
45°	325.2	318.4	315.2	308.4	309.9	304.5	301.4	302.9	302.1	294.5	296.0
47.5°	271.4	259.0	253.6	243.6	241.2	235.1	231.2	224.2	218.1	218.1	214.2
50°	225.9	213.5	202.8	191.1	187.2	181.9	173.4	164.1	159.5	154.9	151.1
52.5°	189.6	176.5	163.4	151.1	145.6	138.8	127.1	117.9	109.5	104.9	100.2
55°	160.4	145.6	131.8	118.8	111.8	104.9	93.2	82.5	72.5	66.2	62.4
57.5°	138.0	124.1	109.5	95.6	89.4	81.8	69.4	57.8	48.5	41.6	37.8
60°	121.8	107.9	94.8	80.1	74.0	66.2	53.1	42.4	33.1	27.0	22.4
62.5°	107.9	95.6	81.8	68.6	62.4	54.8	42.4	31.6	23.1	17.0	13.1
65°	97.9	85.5	74.0	60.9	55.5	47.8	36.2	26.2	18.5	13.1	9.2
67.5°	86.4	75.5	64.0	53.1	47.8	41.6	30.9	22.4	15.4	10.8	7.8
70°	72.5	64.0	54.0	43.9	40.1	34.6	25.4	18.5	12.4	8.5	6.1
72.5°	57.8	50.9	43.1	35.5	32.4	27.0	20.8	14.6	9.2	6.1	4.6
75°	43.9	38.5	32.4	27.0	23.9	20.8	15.4	10.8	6.9	4.6	3.1
77.5°	30.0	27.8	23.1	18.5	17.0	14.6	10.0	6.9	4.6	3.1	1.5
80°	20.8	18.5	15.4	12.4	10.8	9.2	6.1	4.6	2.2	1.5	0.8
82.5°	13.1	10.8	9.2	7.8	6.9	5.4	3.9	2.2	1.5	0.8	0.8
85°	6.9	6.1	5.4	3.9	3.9	3.1	2.2	1.5	0.8	0.0	0.0
87.5°	3.9	3.1	2.2	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	810.9	810.9	810.1	819.4	808.6	819.4	814.0	819.4	811.6	810.9	811.6
5°	817.0	819.4	820.1	828.6	818.6	831.8	827.1	831.8	826.2	827.9	830.1
7.5°	829.4	833.2	832.5	843.2	833.2	847.9	844.8	851.8	846.4	847.9	851.0
10°	843.2	847.9	848.6	859.5	850.2	867.9	864.1	871.8	867.1	869.5	873.4
12.5°	859.5	864.9	865.6	878.0	867.9	886.4	884.1	891.9	888.0	890.2	894.9
15°	871.8	879.5	881.0	893.4	882.6	901.9	900.2	910.4	904.1	908.0	911.9
17.5°	878.0	884.9	888.0	899.5	890.2	909.5	908.0	916.5	911.9	915.8	920.4
20°	874.1	882.6	884.9	896.5	887.2	906.5	904.1	912.6	908.0	911.1	915.8
22.5°	860.2	868.8	871.8	882.6	874.1	891.9	891.0	898.8	892.6	896.5	900.2
25°	835.5	844.8	846.4	856.4	847.1	865.6	864.1	872.5	867.9	870.2	875.6
27.5°	800.1	810.9	813.2	821.6	814.8	830.1	830.1	837.1	831.8	831.8	837.1
30°	757.8	768.5	770.0	777.0	770.8	784.6	785.5	792.4	783.9	788.5	789.2
32.5°	706.0	713.0	717.6	723.8	714.5	732.2	730.0	735.4	730.8	730.8	734.6
35°	643.6	652.1	654.4	662.1	654.4	668.2	668.2	671.4	666.8	666.8	672.9
37.5°	575.8	582.0	582.8	590.4	584.2	595.9	595.0	597.4	592.8	595.9	595.9
40°	496.4	501.0	502.5	506.4	505.6	514.1	513.4	514.9	512.6	513.4	514.9
42.5°	403.9	410.1	413.1	416.2	411.6	423.1	420.9	423.1	422.4	423.1	425.5
45°	297.5	302.1	304.5	305.2	303.8	310.6	316.0	311.4	312.1	310.6	313.8
47.5°	215.0	215.9	214.2	218.9	215.0	218.1	219.6	220.5	215.9	215.0	218.1
50°	147.2	151.1	145.6	148.0	147.2	150.2	148.8	149.5	144.9	147.2	145.6
52.5°	97.9	97.1	95.6	96.4	94.8	94.8	94.8	96.4	93.2	91.8	90.1
55°	59.4	57.8	54.8	54.0	54.0	54.8	53.1	51.6	51.6	50.9	50.9
57.5°	34.6	32.4	30.9	30.0	28.5	27.8	27.0	27.0	25.4	25.4	25.4
60°	19.2	17.0	15.4	13.9	13.9	13.1	12.4	11.5	11.5	11.5	10.8
62.5°	10.0	8.5	6.9	6.1	6.1	5.4	4.6	4.6	4.6	4.6	3.9
65°	6.9	5.4	4.6	3.9	3.9	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	5.4	4.6	3.9	3.1	3.1	3.1	2.2	2.2	2.2	2.2	2.2
70°	4.6	3.1	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	3.1	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	2.2	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	818.6	817.9	818.6	820.1	817.0	826.2	821.6	826.2
5°	836.4	837.1	837.9	840.1	836.4	847.9	841.8	848.6
7.5°	859.5	860.2	861.0	863.2	861.0	872.5	865.6	871.8
10°	883.4	884.9	884.9	888.8	886.4	897.2	892.6	900.2
12.5°	905.8	907.2	908.8	911.1	909.5	921.1	917.2	923.4
15°	923.4	926.5	927.2	930.4	928.9	941.1	936.5	942.8
17.5°	931.9	935.0	935.0	938.9	937.2	950.4	944.2	951.1
20°	927.2	929.6	930.4	934.2	932.6	945.8	939.6	948.1
22.5°	912.6	913.4	914.1	918.0	917.2	928.9	923.4	928.9
25°	885.6	888.0	887.2	890.2	890.2	899.5	893.4	898.0
27.5°	847.1	849.4	849.4	853.2	850.2	859.5	853.2	860.2
30°	800.1	802.4	800.9	804.0	800.9	810.1	805.5	807.8
32.5°	743.9	743.9	744.6	745.4	743.9	752.2	747.6	752.2
35°	676.8	678.2	679.1	679.9	678.2	684.5	679.1	682.1
37.5°	601.2	605.1	604.2	605.1	602.8	610.5	605.9	607.4
40°	520.2	520.2	519.5	521.0	518.8	524.9	521.9	523.4
42.5°	426.2	428.6	425.5	429.4	423.1	431.6	428.6	426.2
45°	319.9	316.8	316.0	316.8	314.5	315.2	317.6	316.0
47.5°	218.1	218.1	216.6	214.2	217.4	218.1	215.0	215.0
50°	146.5	146.5	144.9	144.1	145.6	144.9	143.4	145.6
52.5°	93.2	90.1	90.1	91.8	90.1	88.6	91.0	89.4
55°	50.9	49.4	49.4	50.9	49.4	49.4	48.5	50.1
57.5°	24.6	25.4	24.6	24.6	24.6	24.6	23.9	24.6
60°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
62.5°	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.9
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	2.2	2.2	2.2	2.2	2.2	3.1	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	3.1	3.1	3.1	3.1	3.1	3.1
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)