

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: P252351

Luminaire Tested: **LE_6B15D010 EC6B10208035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

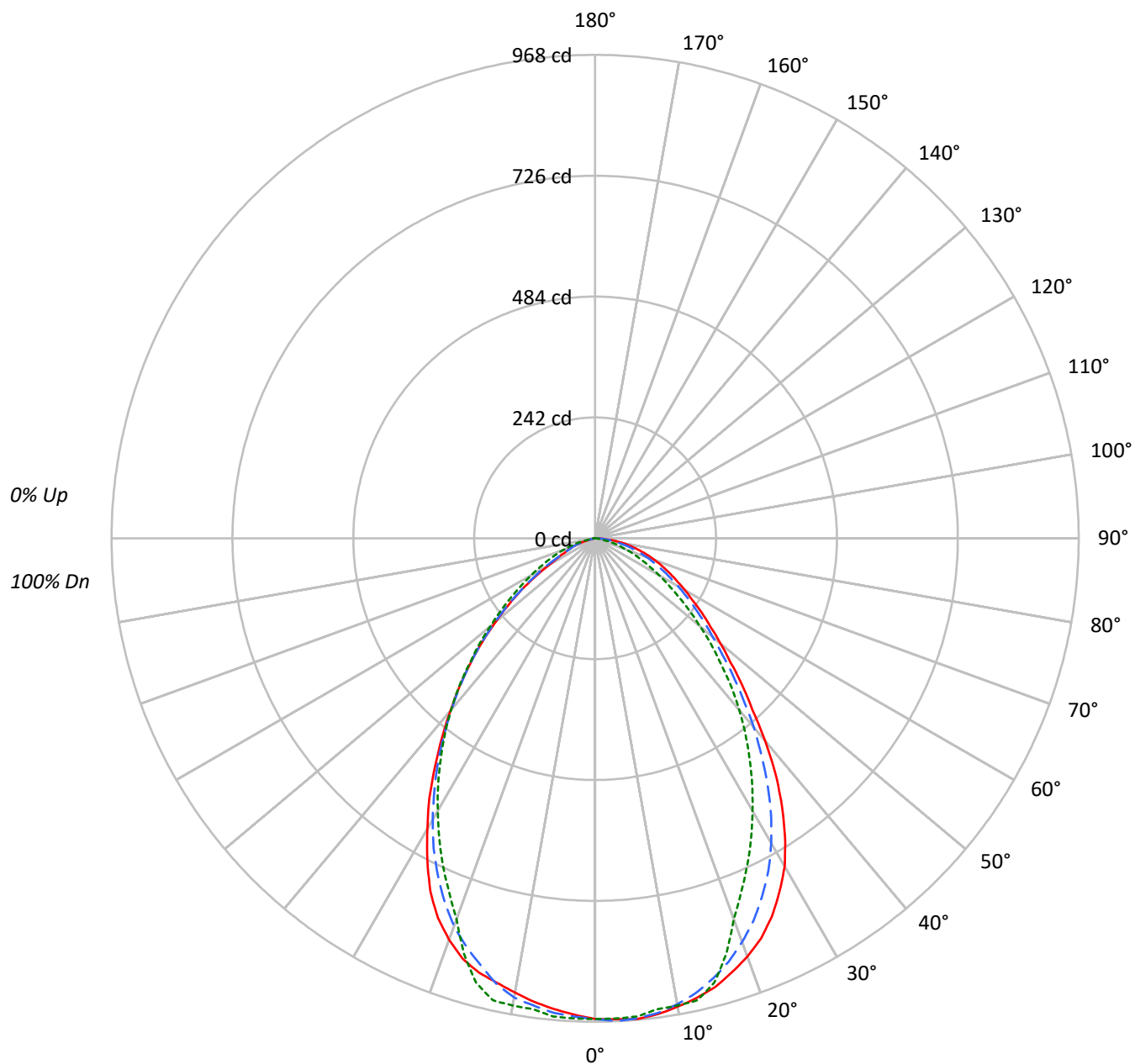
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	62794	62794	62794
5°	63276	62949	61966
10°	63100	62935	61199
15°	62814	62220	60788
20°	61874	56320	59361
25°	60194	51916	56148
30°	57163	47460	50564
35°	51864	42912	44505
40°	45036	38222	38325
45°	38400	32865	32523
50°	33240	27790	26267
55°	29710	23181	20337
60°	27075	19246	13701
65°	25286	15823	10219
70°	24073	12876	8584
75°	22686	9125	2823
80°	21603	4696	939
85°	17816	2844	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	5.4
10°-20°	254.2	15.0
20°-30°	350.9	20.7
30°-40°	357.1	21.0
40°-50°	287.0	16.9
50°-60°	190.8	11.2
60°-70°	108.7	6.4
70°-80°	48.8	2.9
80°-90°	10.3	0.6
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°	696.0	41.0
0°-40°	1053.1	62.0
0°-60°	1530.8	90.1
0°-90°	1698.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	962	962	962	962	962	
5°	966	965	961	954	946	92
15°	930	912	921	885	900	262
25°	836	791	721	745	780	383
35°	651	601	539	549	559	405
45°	416	391	356	352	352	323
55°	261	244	204	181	179	235
65°	164	146	102	66	66	163
75°	90	75	36	15	11	96
85°	24	16	4	1	0	28
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°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	963.8	968.8	967.5	966.2	967.5	966.2	963.8	963.8	961.2	961.2	967.5
5°	966.2	968.8	967.5	966.2	966.2	967.5	962.5	962.5	960.0	958.8	965.0
7.5°	961.2	965.0	962.5	962.5	961.2	962.5	957.5	957.5	953.8	952.5	958.8
10°	952.5	957.5	955.0	955.0	955.0	952.5	950.0	948.8	945.0	943.8	947.5
12.5°	942.5	946.2	945.0	942.5	942.5	942.5	937.5	936.2	931.2	928.8	932.5
15°	930.0	932.5	931.2	930.0	927.5	927.5	922.5	920.0	915.0	910.0	912.5
17.5°	911.2	915.0	912.5	911.2	907.5	907.5	902.5	900.0	892.5	887.5	888.8
20°	891.2	892.5	891.2	888.8	885.0	883.8	878.8	873.8	867.5	861.2	860.0
22.5°	867.5	868.8	865.0	862.5	858.8	857.5	851.2	847.5	837.5	830.0	828.8
25°	836.2	837.5	837.5	831.2	828.8	826.2	820.0	813.8	805.0	795.0	791.2
27.5°	798.8	802.5	800.0	793.8	788.8	787.5	781.2	776.2	765.0	756.2	751.2
30°	758.8	757.5	756.2	752.5	745.0	743.8	737.5	731.2	722.5	711.2	705.0
32.5°	707.5	707.5	706.2	702.5	695.0	692.5	687.5	680.0	670.0	661.2	655.0
35°	651.2	652.5	651.2	643.8	638.8	636.2	633.8	625.0	616.2	606.2	601.2
37.5°	592.5	588.8	590.0	583.8	577.5	580.0	572.5	568.8	558.8	551.2	546.2
40°	528.8	531.2	526.2	523.8	520.0	516.2	516.2	510.0	505.0	496.2	493.8
42.5°	466.2	470.0	468.8	466.2	461.2	462.5	456.2	453.8	447.5	443.8	440.0
45°	416.2	416.2	416.2	413.8	412.5	410.0	406.2	402.5	398.8	393.8	391.2
47.5°	367.5	367.5	368.8	366.2	363.8	362.5	360.0	360.0	353.8	348.8	346.2
50°	327.5	327.5	327.5	325.0	322.5	322.5	320.0	317.5	313.8	310.0	307.5
52.5°	291.2	291.2	291.2	288.8	287.5	286.2	285.0	283.8	278.8	276.2	273.8
55°	261.2	260.0	260.0	258.8	256.2	256.2	255.0	252.5	248.8	245.0	243.8
57.5°	231.2	232.5	231.2	231.2	228.8	228.8	226.2	225.0	221.2	218.8	216.2
60°	207.5	207.5	207.5	206.2	203.8	205.0	202.5	201.2	197.5	193.8	191.2
62.5°	183.8	185.0	185.0	183.8	181.2	181.2	180.0	178.8	175.0	171.2	167.5
65°	163.8	163.8	163.8	162.5	161.2	161.2	160.0	158.8	155.0	150.0	146.2
67.5°	145.0	143.8	143.8	143.8	142.5	141.2	140.0	138.8	135.0	131.2	126.2
70°	126.2	126.2	126.2	125.0	122.5	123.8	122.5	121.2	117.5	113.8	110.0
72.5°	108.8	108.8	107.5	106.2	106.2	105.0	105.0	103.8	100.0	95.0	91.2
75°	90.0	90.0	90.0	90.0	87.5	88.8	86.2	85.0	82.5	78.8	75.0
77.5°	73.8	73.8	73.8	72.5	71.2	71.2	70.0	68.8	65.0	62.5	57.5
80°	57.5	57.5	57.5	57.5	56.2	55.0	53.8	52.5	50.0	46.2	42.5
82.5°	42.5	42.5	41.2	41.2	41.2	40.0	38.8	37.5	35.0	32.5	30.0
85°	23.8	25.0	25.0	22.5	23.8	22.5	22.5	20.0	20.0	17.5	16.2
87.5°	8.8	7.5	7.5	7.5	7.5	7.5	7.5	6.2	6.2	6.2	5.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	962.5	961.2	966.2	966.2	958.8	962.5	963.8	961.2	961.2	962.5	958.8
5°	960.0	957.5	962.5	963.8	956.2	960.0	961.2	958.8	960.0	961.2	956.2
7.5°	951.2	951.2	955.0	956.2	948.8	952.5	952.5	950.0	951.2	951.2	947.5
10°	942.5	938.8	942.5	942.5	936.2	937.5	940.0	938.8	943.8	950.0	950.0
12.5°	926.2	922.5	928.8	928.8	925.0	930.0	936.2	940.0	945.0	947.5	940.0
15°	906.2	907.5	918.8	927.5	923.8	931.2	937.5	935.0	928.8	921.2	910.0
17.5°	880.0	876.2	886.2	891.2	886.2	888.8	893.8	888.8	878.8	872.5	857.5
20°	850.0	840.0	840.0	837.5	828.8	828.8	827.5	818.8	815.0	811.2	805.0
22.5°	816.2	805.0	801.2	793.8	786.2	785.0	781.2	772.5	767.5	765.0	757.5
25°	777.5	767.5	761.2	753.8	742.5	740.0	736.2	727.5	725.0	721.2	715.0
27.5°	737.5	725.0	716.2	708.8	698.8	697.5	690.0	683.8	678.8	676.2	671.2
30°	691.2	677.5	671.2	661.2	653.8	651.2	645.0	636.2	632.5	630.0	626.2
32.5°	640.0	628.8	622.5	613.8	603.8	605.0	597.5	590.0	587.5	585.0	581.2
35°	590.0	578.8	571.2	563.8	557.5	555.0	550.0	543.8	540.0	538.8	536.2
37.5°	535.0	526.2	520.0	512.5	507.5	505.0	502.5	496.2	493.8	493.8	488.8
40°	481.2	473.8	468.8	465.0	458.8	457.5	455.0	451.2	450.0	448.8	445.0
42.5°	432.5	422.5	418.8	416.2	412.5	410.0	408.8	406.2	405.0	403.8	400.0
45°	386.2	377.5	373.8	371.2	367.5	366.2	365.0	361.2	358.8	356.2	355.0
47.5°	341.2	335.0	333.8	327.5	325.0	322.5	320.0	317.5	316.2	315.0	310.0
50°	302.5	298.8	292.5	288.8	286.2	285.0	280.0	276.2	275.0	273.8	270.0
52.5°	267.5	262.5	258.8	252.5	251.2	248.8	246.2	241.2	238.8	237.5	233.8
55°	236.2	232.5	227.5	222.5	218.8	217.5	213.8	208.8	206.2	203.8	201.2
57.5°	210.0	203.8	198.8	193.8	191.2	187.5	183.8	181.2	177.5	173.8	170.0
60°	185.0	180.0	173.8	168.8	166.2	163.8	158.8	155.0	151.2	147.5	143.8
62.5°	161.2	156.2	150.0	145.0	142.5	140.0	135.0	131.2	127.5	123.8	118.8
65°	140.0	135.0	130.0	125.0	122.5	120.0	115.0	110.0	106.2	102.5	97.5
67.5°	122.5	116.2	111.2	106.2	103.8	101.2	96.2	92.5	87.5	83.8	78.8
70°	103.8	98.8	95.0	90.0	87.5	85.0	80.0	75.0	71.2	67.5	62.5
72.5°	87.5	81.2	77.5	72.5	70.0	68.8	63.8	60.0	56.2	51.2	47.5
75°	70.0	65.0	60.0	56.2	53.8	52.5	47.5	43.8	40.0	36.2	32.5
77.5°	53.8	50.0	45.0	41.2	38.8	37.5	32.5	28.8	25.0	22.5	18.8
80°	40.0	35.0	32.5	28.8	27.5	25.0	22.5	18.8	16.2	12.5	10.0
82.5°	27.5	23.8	21.2	18.8	17.5	16.2	13.8	11.2	8.8	7.5	6.2
85°	15.0	12.5	11.2	10.0	8.8	8.8	7.5	6.2	5.0	3.8	2.5
87.5°	5.0	3.8	3.8	3.8	3.8	2.5	2.5	2.5	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	961.2	961.2	961.2	960.0	960.0	960.0	958.8	963.8	958.8	957.5	961.2
5°	960.0	957.5	957.5	957.5	957.5	956.2	955.0	957.5	953.8	952.5	952.5
7.5°	952.5	951.2	951.2	950.0	948.8	947.5	946.2	947.5	943.8	942.5	942.5
10°	953.8	951.2	951.2	947.5	945.0	941.2	937.5	938.8	933.8	930.0	930.0
12.5°	938.8	932.5	928.8	925.0	922.5	921.2	916.2	918.8	913.8	912.5	912.5
15°	905.0	897.5	891.2	888.8	888.8	886.2	882.5	887.5	885.0	886.2	892.5
17.5°	852.5	848.8	845.0	843.8	845.0	847.5	850.0	857.5	857.5	861.2	867.5
20°	806.2	803.8	806.2	806.2	807.5	812.5	817.5	823.8	826.2	830.0	838.8
22.5°	761.2	761.2	763.8	767.5	766.2	775.0	776.2	787.5	787.5	795.0	802.5
25°	717.5	717.5	720.0	721.2	723.8	728.8	733.8	742.5	745.0	752.5	758.8
27.5°	675.0	673.8	673.8	675.0	677.5	683.8	686.2	696.2	700.0	705.0	711.2
30°	627.5	626.2	628.8	631.2	630.0	636.2	640.0	647.5	650.0	655.0	660.0
32.5°	582.5	582.5	582.5	585.0	585.0	590.0	590.0	598.8	598.8	602.5	607.5
35°	536.2	536.2	537.5	538.8	540.0	541.2	542.5	547.5	548.8	550.0	552.5
37.5°	492.5	491.2	492.5	492.5	490.0	495.0	495.0	500.0	496.2	500.0	501.2
40°	447.5	447.5	446.2	446.2	446.2	448.8	446.2	450.0	447.5	450.0	448.8
42.5°	401.2	401.2	398.8	401.2	400.0	400.0	400.0	402.5	398.8	401.2	402.5
45°	355.0	353.8	353.8	352.5	352.5	352.5	353.8	353.8	352.5	355.0	355.0
47.5°	310.0	308.8	308.8	308.8	308.8	310.0	306.2	308.8	306.2	306.2	306.2
50°	271.2	270.0	268.8	267.5	266.2	266.2	265.0	265.0	262.5	261.2	260.0
52.5°	233.8	232.5	230.0	230.0	228.8	227.5	223.8	223.8	220.0	218.8	218.8
55°	200.0	196.2	195.0	192.5	192.5	190.0	187.5	185.0	181.2	178.8	178.8
57.5°	168.8	165.0	162.5	161.2	160.0	157.5	152.5	151.2	146.2	145.0	143.8
60°	141.2	137.5	133.8	131.2	130.0	126.2	121.2	118.8	116.2	112.5	108.8
62.5°	115.0	111.2	106.2	105.0	102.5	98.8	95.0	91.2	88.8	85.0	82.5
65°	92.5	88.8	85.0	82.5	80.0	76.2	72.5	68.8	66.2	65.0	63.8
67.5°	75.0	70.0	66.2	65.0	62.5	60.0	56.2	55.0	52.5	52.5	52.5
70°	58.8	55.0	51.2	50.0	48.8	46.2	43.8	43.8	43.8	43.8	43.8
72.5°	43.8	41.2	37.5	36.2	35.0	33.8	31.2	32.5	31.2	31.2	31.2
75°	27.5	25.0	22.5	21.2	20.0	18.8	17.5	16.2	15.0	13.8	13.8
77.5°	15.0	12.5	11.2	10.0	10.0	8.8	7.5	7.5	6.2	6.2	6.2
80°	8.8	7.5	6.2	5.0	5.0	3.8	3.8	3.8	3.8	2.5	2.5
82.5°	5.0	3.8	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
85°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	955.0	958.8	955.0	958.8	958.8	958.8	958.8	955.0
5°	948.8	951.2	947.5	950.0	951.2	950.0	950.0	946.2
7.5°	937.5	940.0	936.2	940.0	941.2	940.0	938.8	936.2
10°	926.2	927.5	923.8	926.2	928.8	928.8	927.5	923.8
12.5°	908.8	912.5	908.8	911.2	913.8	915.0	915.0	911.2
15°	888.8	895.0	892.5	896.2	900.0	901.2	901.2	900.0
17.5°	868.8	875.0	871.2	877.5	881.2	883.8	885.0	882.5
20°	840.0	847.5	845.0	850.0	855.0	858.8	858.8	855.0
22.5°	802.5	812.5	811.2	815.0	821.2	822.5	825.0	822.5
25°	761.2	768.8	767.5	771.2	778.8	778.8	780.0	780.0
27.5°	713.8	721.2	720.0	722.5	727.5	728.8	730.0	727.5
30°	662.5	666.2	666.2	670.0	673.8	675.0	675.0	671.2
32.5°	606.2	611.2	613.8	612.5	616.2	618.8	617.5	617.5
35°	555.0	556.2	557.5	558.8	560.0	562.5	560.0	558.8
37.5°	500.0	503.8	501.2	503.8	506.2	505.0	503.8	503.8
40°	450.0	451.2	448.8	451.2	452.5	452.5	452.5	450.0
42.5°	400.0	402.5	400.0	402.5	402.5	402.5	402.5	401.2
45°	350.0	352.5	352.5	353.8	353.8	352.5	352.5	352.5
47.5°	303.8	306.2	303.8	306.2	307.5	305.0	305.0	305.0
50°	260.0	258.8	258.8	260.0	260.0	260.0	260.0	258.8
52.5°	215.0	216.2	216.2	216.2	217.5	216.2	217.5	217.5
55°	176.2	176.2	176.2	177.5	176.2	176.2	177.5	178.8
57.5°	141.2	140.0	138.8	138.8	140.0	138.8	138.8	138.8
60°	108.8	107.5	106.2	106.2	106.2	106.2	106.2	105.0
62.5°	81.2	81.2	81.2	82.5	82.5	82.5	82.5	83.8
65°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.2
67.5°	52.5	52.5	52.5	53.8	53.8	53.8	53.8	53.8
70°	43.8	43.8	45.0	43.8	45.0	45.0	45.0	45.0
72.5°	30.0	30.0	30.0	30.0	30.0	28.8	30.0	28.8
75°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	11.2
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)