

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: P252374

Luminaire Tested: **LE_6B20D010 EC6B10209730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252374
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_6B20D010 EC6B10209730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1720.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

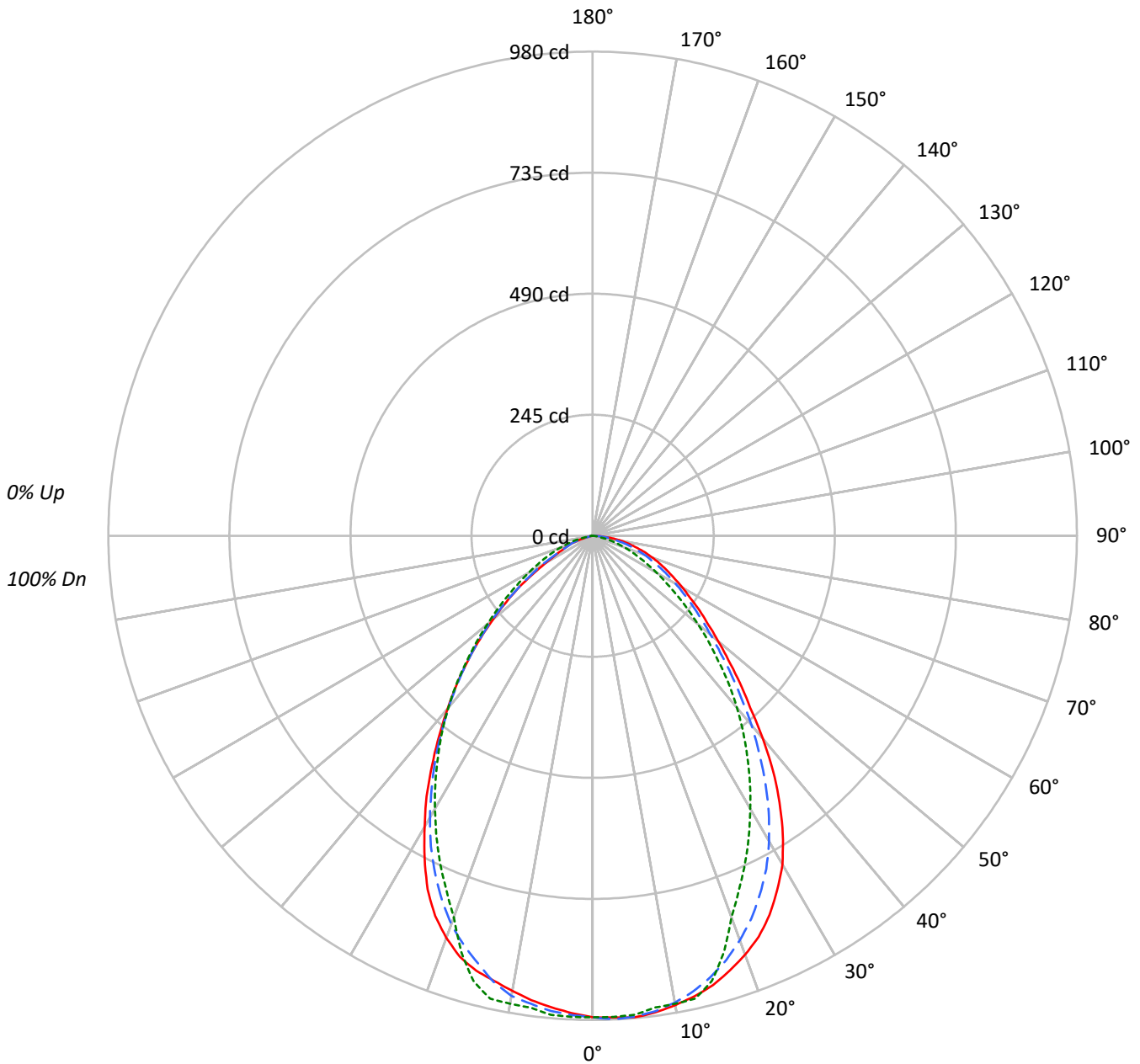
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	63584	63584	63584
5°	64075	63735	62746
10°	63895	63723	61968
15°	63598	63003	61544
20°	62651	57028	60110
25°	60957	52563	56854
30°	57871	48055	51197
35°	52517	43446	45063
40°	45598	38699	38801
45°	38889	33289	32929
50°	33656	28125	26592
55°	30085	23454	20588
60°	27414	19494	13883
65°	25595	16024	10358
70°	24397	13047	8698
75°	22964	9276	2874
80°	21866	4734	939
85°	17965	2844	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	5.4
10°-20°	257.4	15.0
20°-30°	355.3	20.7
30°-40°	361.6	21.0
40°-50°	290.6	16.9
50°-60°	193.2	11.2
60°-70°	110.1	6.4
70°-80°	49.5	2.9
80°-90°	10.4	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°	704.7	41.0
0°-40°	1066.3	62.0
0°-60°	1550.0	90.1
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	975	975	975	975	975	
5°	978	977	973	966	958	93
15°	942	924	933	896	911	265
25°	847	801	730	754	790	388
35°	659	609	546	556	566	410
45°	422	396	361	357	357	327
55°	264	247	206	184	181	238
65°	166	148	104	67	67	165
75°	91	76	37	15	11	97
85°	24	16	4	1	0	29
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°	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6
2.5°	975.9	980.9	979.6	978.4	979.6	978.4	975.9	975.9	973.2	973.2	979.6
5°	978.4	980.9	979.6	978.4	978.4	979.6	974.6	974.6	972.0	970.8	977.1
7.5°	973.2	977.1	974.6	974.6	973.2	974.6	969.5	969.5	965.8	964.5	970.8
10°	964.5	969.5	967.0	967.0	967.0	964.5	961.9	960.6	956.9	955.6	959.4
12.5°	954.4	958.1	956.9	954.4	954.4	954.4	949.2	948.0	942.9	940.4	944.2
15°	941.6	944.2	942.9	941.6	939.1	939.1	934.1	931.5	926.5	921.4	924.0
17.5°	922.6	926.5	924.0	922.6	918.9	918.9	913.9	911.2	903.8	898.6	899.9
20°	902.4	903.8	902.4	899.9	896.1	894.9	889.8	884.8	878.4	872.0	870.8
22.5°	878.4	879.6	875.9	873.4	869.5	868.2	861.9	858.1	848.0	840.4	839.1
25°	846.8	848.0	848.0	841.6	839.1	836.6	830.2	824.0	815.1	805.0	801.1
27.5°	808.8	812.5	810.0	803.8	798.6	797.4	791.0	786.0	774.6	765.8	760.6
30°	768.2	767.0	765.8	761.9	754.4	753.1	746.8	740.4	731.5	720.1	713.9
32.5°	716.4	716.4	715.1	711.2	703.8	701.1	696.1	688.5	678.4	669.5	663.2
35°	659.4	660.6	659.4	651.9	646.8	644.2	641.8	632.9	624.0	613.9	608.8
37.5°	599.9	596.1	597.4	591.1	584.8	587.2	579.6	575.9	565.8	558.1	553.1
40°	535.4	537.9	532.9	530.4	526.5	522.8	522.8	516.4	511.4	502.5	500.0
42.5°	472.1	475.9	474.6	472.1	467.0	468.2	462.0	459.5	453.1	449.4	445.5
45°	421.5	421.5	421.5	418.9	417.6	415.1	411.4	407.5	403.8	398.6	396.1
47.5°	372.1	372.1	373.4	370.9	368.2	367.0	364.5	364.5	358.1	353.1	350.6
50°	331.6	331.6	331.6	329.1	326.5	326.5	324.0	321.5	317.6	313.9	311.4
52.5°	294.9	294.9	294.9	292.4	291.1	289.9	288.6	287.2	282.2	279.8	277.1
55°	264.5	263.2	263.2	262.0	259.5	259.5	258.2	255.6	251.9	248.1	246.8
57.5°	234.1	235.4	234.1	234.1	231.6	231.6	229.1	227.9	224.0	221.5	219.0
60°	210.1	210.1	210.1	208.9	206.2	207.6	205.0	203.8	200.0	196.1	193.6
62.5°	186.0	187.4	187.4	186.0	183.5	183.5	182.2	181.0	177.2	173.4	169.6
65°	165.8	165.8	165.8	164.5	163.2	163.2	162.0	160.8	157.0	151.9	148.1
67.5°	146.9	145.5	145.5	145.5	144.2	143.0	141.8	140.5	136.8	132.9	127.9
70°	127.9	127.9	127.9	126.6	124.0	125.2	124.0	122.8	119.0	115.1	111.4
72.5°	110.1	110.1	108.9	107.6	107.6	106.4	106.4	105.0	101.2	96.2	92.4
75°	91.1	91.1	91.1	91.1	88.6	89.9	87.4	86.1	83.5	79.8	76.0
77.5°	74.6	74.6	74.6	73.4	72.1	72.1	70.9	69.6	65.9	63.2	58.2
80°	58.2	58.2	58.2	58.2	57.0	55.8	54.4	53.1	50.6	46.9	43.0
82.5°	43.0	43.0	41.8	41.8	41.8	40.5	39.2	38.0	35.5	32.9	30.4
85°	24.0	25.4	25.4	22.8	24.0	22.8	22.8	20.2	20.2	17.8	16.5
87.5°	8.9	7.6	7.6	7.6	7.6	7.6	7.6	6.4	6.4	6.4	5.1
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°	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6
2.5°	974.6	973.2	978.4	978.4	970.8	974.6	975.9	973.2	973.2	974.6	970.8
5°	972.0	969.5	974.6	975.9	968.2	972.0	973.2	970.8	972.0	973.2	968.2
7.5°	963.1	963.1	967.0	968.2	960.6	964.5	964.5	961.9	963.1	963.1	959.4
10°	954.4	950.5	954.4	954.4	948.0	949.2	951.8	950.5	955.6	961.9	961.9
12.5°	937.9	934.1	940.4	940.4	936.6	941.6	948.0	951.8	956.9	959.4	951.8
15°	917.6	918.9	930.2	939.1	935.4	942.9	949.2	946.8	940.4	932.8	921.4
17.5°	891.0	887.2	897.4	902.4	897.4	899.9	905.0	899.9	889.8	883.5	868.2
20°	860.6	850.5	850.5	848.0	839.1	839.1	837.9	829.0	825.2	821.4	815.1
22.5°	826.5	815.1	811.2	803.8	796.1	794.9	791.0	782.1	777.1	774.6	767.0
25°	787.2	777.1	770.8	763.2	751.8	749.2	745.5	736.6	734.1	730.2	724.0
27.5°	746.8	734.1	725.2	717.6	707.5	706.2	698.6	692.4	687.2	684.8	679.6
30°	699.9	686.0	679.6	669.5	662.0	659.4	653.1	644.2	640.4	637.9	634.1
32.5°	648.0	636.6	630.2	621.5	611.4	612.6	605.0	597.4	594.9	592.4	588.5
35°	597.4	586.0	578.4	570.9	564.5	562.0	556.9	550.6	546.8	545.5	543.0
37.5°	541.8	532.9	526.5	518.9	513.9	511.4	508.8	502.5	500.0	500.0	494.9
40°	487.2	479.8	474.6	470.9	464.5	463.2	460.8	456.9	455.6	454.4	450.6
42.5°	437.9	427.8	424.0	421.5	417.6	415.1	413.9	411.4	410.1	408.8	405.0
45°	391.1	382.2	378.4	375.9	372.1	370.9	369.6	365.8	363.2	360.8	359.5
47.5°	345.5	339.2	337.9	331.6	329.1	326.5	324.0	321.5	320.2	319.0	313.9
50°	306.2	302.5	296.1	292.4	289.9	288.6	283.5	279.8	278.5	277.1	273.4
52.5°	270.9	265.8	262.0	255.6	254.4	251.9	249.4	244.2	241.8	240.5	236.6
55°	239.2	235.4	230.4	225.2	221.5	220.2	216.4	211.4	208.9	206.2	203.8
57.5°	212.6	206.2	201.2	196.1	193.6	189.9	186.0	183.5	179.8	175.9	172.1
60°	187.4	182.2	175.9	170.9	168.4	165.8	160.8	157.0	153.1	149.4	145.5
62.5°	163.2	158.2	151.9	146.9	144.2	141.8	136.8	132.9	129.1	125.2	120.2
65°	141.8	136.8	131.6	126.6	124.0	121.5	116.5	111.4	107.6	103.8	98.8
67.5°	124.0	117.8	112.6	107.6	105.0	102.5	97.5	93.6	88.6	84.8	79.8
70°	105.0	100.0	96.2	91.1	88.6	86.1	81.0	76.0	72.1	68.4	63.2
72.5°	88.6	82.2	78.5	73.4	70.9	69.6	64.5	60.8	57.0	51.9	48.1
75°	70.9	65.9	60.8	57.0	54.4	53.1	48.1	44.2	40.5	36.8	32.9
77.5°	54.4	50.6	45.6	41.8	39.2	38.0	32.9	29.1	25.4	22.8	19.0
80°	40.5	35.5	32.9	29.1	27.9	25.4	22.8	19.0	16.5	12.6	10.1
82.5°	27.9	24.0	21.5	19.0	17.8	16.5	13.9	11.4	8.9	7.6	6.4
85°	15.2	12.6	11.4	10.1	8.9	8.9	7.6	6.4	5.1	3.8	2.5
87.5°	5.1	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°	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6
2.5°	973.2	973.2	973.2	972.0	972.0	972.0	970.8	975.9	970.8	969.5	973.2
5°	972.0	969.5	969.5	969.5	969.5	968.2	967.0	969.5	965.8	964.5	964.5
7.5°	964.5	963.1	963.1	961.9	960.6	959.4	958.1	959.4	955.6	954.4	954.4
10°	965.8	963.1	963.1	959.4	956.9	953.0	949.2	950.5	945.5	941.6	941.6
12.5°	950.5	944.2	940.4	936.6	934.1	932.8	927.8	930.2	925.2	924.0	924.0
15°	916.4	908.8	902.4	899.9	899.9	897.4	893.6	898.6	896.1	897.4	903.8
17.5°	863.1	859.4	855.6	854.4	855.6	858.1	860.6	868.2	868.2	872.0	878.4
20°	816.4	813.9	816.4	816.4	817.6	822.6	827.8	834.1	836.6	840.4	849.2
22.5°	770.8	770.8	773.4	777.1	775.9	784.8	786.0	797.4	797.4	805.0	812.5
25°	726.5	726.5	729.0	730.2	732.9	737.9	743.0	751.8	754.4	761.9	768.2
27.5°	683.5	682.2	682.2	683.5	686.0	692.4	694.9	705.0	708.8	713.9	720.1
30°	635.4	634.1	636.6	639.1	637.9	644.2	648.0	655.6	658.1	663.2	668.2
32.5°	589.8	589.8	589.8	592.4	592.4	597.4	597.4	606.2	606.2	610.0	615.1
35°	543.0	543.0	544.2	545.5	546.8	548.0	549.2	554.4	555.6	556.9	559.4
37.5°	498.6	497.4	498.6	498.6	496.1	501.2	501.2	506.2	502.5	506.2	507.5
40°	453.1	453.1	451.9	451.9	451.9	454.4	451.9	455.6	453.1	455.6	454.4
42.5°	406.2	406.2	403.8	406.2	405.0	405.0	405.0	407.5	403.8	406.2	407.5
45°	359.5	358.1	358.1	356.9	356.9	356.9	358.1	358.1	356.9	359.5	359.5
47.5°	313.9	312.6	312.6	312.6	312.6	313.9	310.1	312.6	310.1	310.1	310.1
50°	274.6	273.4	272.1	270.9	269.6	269.6	268.4	268.4	265.8	264.5	263.2
52.5°	236.6	235.4	232.9	232.9	231.6	230.4	226.5	226.5	222.8	221.5	221.5
55°	202.5	198.8	197.5	194.9	194.9	192.4	189.9	187.4	183.5	181.0	181.0
57.5°	170.9	167.1	164.5	163.2	162.0	159.5	154.4	153.1	148.1	146.9	145.5
60°	143.0	139.2	135.4	132.9	131.6	127.9	122.8	120.2	117.8	113.9	110.1
62.5°	116.5	112.6	107.6	106.4	103.8	100.0	96.2	92.4	89.9	86.1	83.5
65°	93.6	89.9	86.1	83.5	81.0	77.2	73.4	69.6	67.1	65.9	64.5
67.5°	76.0	70.9	67.1	65.9	63.2	60.8	57.0	55.8	53.1	53.1	53.1
70°	59.5	55.8	51.9	50.6	49.4	46.9	44.2	44.2	44.2	44.2	44.2
72.5°	44.2	41.8	38.0	36.8	35.5	34.1	31.6	32.9	31.6	31.6	31.6
75°	27.9	25.4	22.8	21.5	20.2	19.0	17.8	16.5	15.2	13.9	13.9
77.5°	15.2	12.6	11.4	10.1	10.1	8.9	7.6	7.6	6.4	6.4	6.4
80°	8.9	7.6	6.4	5.1	5.1	3.8	3.8	3.8	3.8	2.5	2.5
82.5°	5.1	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°	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6
2.5°	967.0	970.8	967.0	970.8	970.8	970.8	970.8	967.0
5°	960.6	963.1	959.4	961.9	963.1	961.9	961.9	958.1
7.5°	949.2	951.8	948.0	951.8	953.0	951.8	950.5	948.0
10°	937.9	939.1	935.4	937.9	940.4	940.4	939.1	935.4
12.5°	920.1	924.0	920.1	922.6	925.2	926.5	926.5	922.6
15°	899.9	906.2	903.8	907.5	911.2	912.5	912.5	911.2
17.5°	879.6	886.0	882.1	888.5	892.2	894.9	896.1	893.6
20°	850.5	858.1	855.6	860.6	865.8	869.5	869.5	865.8
22.5°	812.5	822.6	821.4	825.2	831.5	832.8	835.4	832.8
25°	770.8	778.4	777.1	780.9	788.5	788.5	789.8	789.8
27.5°	722.8	730.2	729.0	731.5	736.6	737.9	739.1	736.6
30°	670.8	674.6	674.6	678.4	682.2	683.5	683.5	679.6
32.5°	613.9	618.9	621.5	620.1	624.0	626.5	625.2	625.2
35°	562.0	563.2	564.5	565.8	567.0	569.5	567.0	565.8
37.5°	506.2	510.1	507.5	510.1	512.6	511.4	510.1	510.1
40°	455.6	456.9	454.4	456.9	458.1	458.1	458.1	455.6
42.5°	405.0	407.5	405.0	407.5	407.5	407.5	407.5	406.2
45°	354.4	356.9	356.9	358.1	358.1	356.9	356.9	356.9
47.5°	307.5	310.1	307.5	310.1	311.4	308.9	308.9	308.9
50°	263.2	262.0	262.0	263.2	263.2	263.2	263.2	262.0
52.5°	217.8	219.0	219.0	219.0	220.2	219.0	220.2	220.2
55°	178.5	178.5	178.5	179.8	178.5	178.5	179.8	181.0
57.5°	143.0	141.8	140.5	140.5	141.8	140.5	140.5	140.5
60°	110.1	108.9	107.6	107.6	107.6	107.6	107.6	106.4
62.5°	82.2	82.2	82.2	83.5	83.5	83.5	83.5	84.8
65°	65.9	65.9	65.9	65.9	65.9	65.9	65.9	67.1
67.5°	53.1	53.1	53.1	54.4	54.4	54.4	54.4	54.4
70°	44.2	44.2	45.6	44.2	45.6	45.6	45.6	45.6
72.5°	30.4	30.4	30.4	30.4	30.4	29.1	30.4	29.1
75°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.4
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)