

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857336

Luminaire Tested: **LX4C25D010 EX4C259027 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259027 4LBLWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

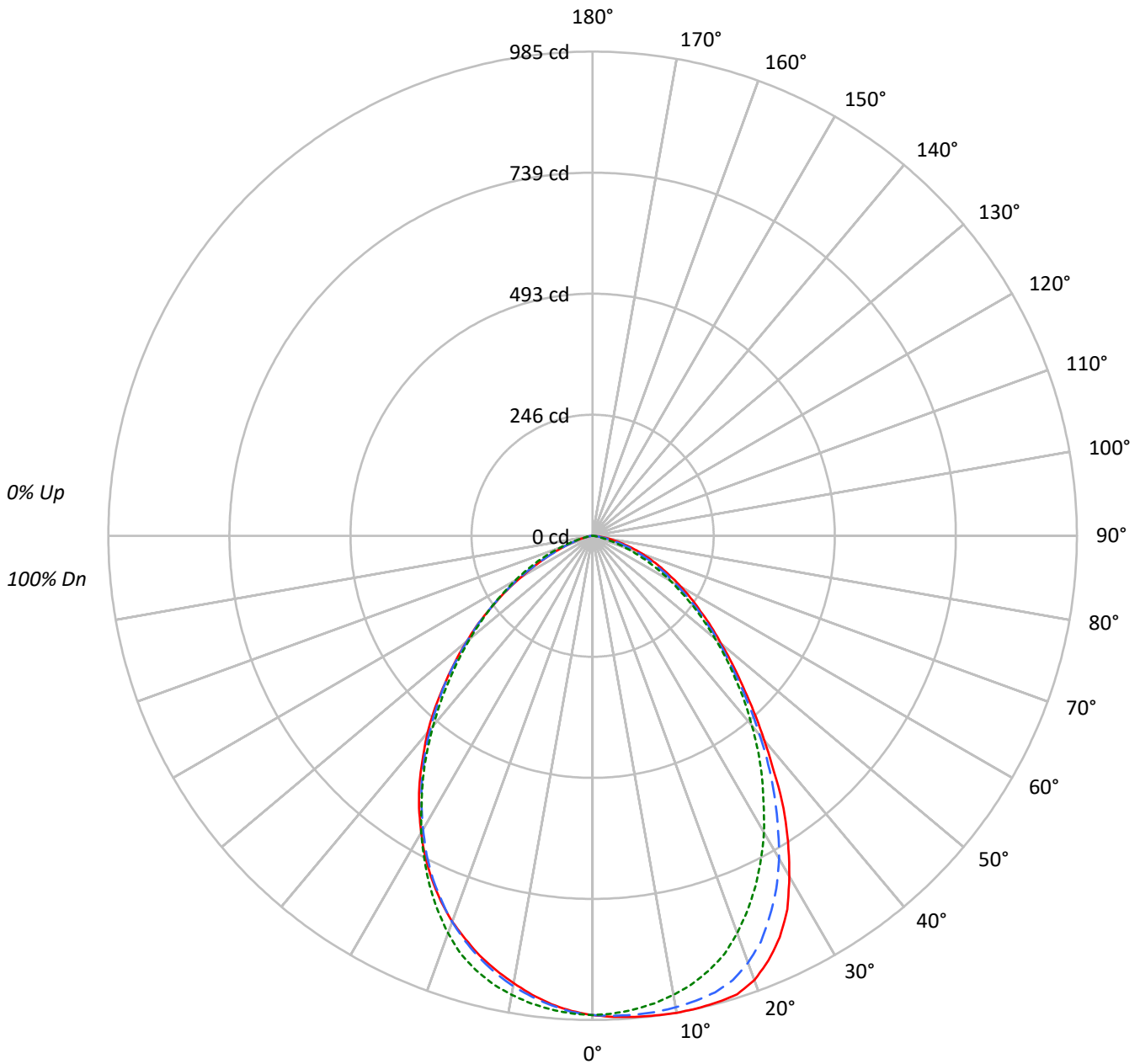
Lumens per Lamp: N/A
Luminaire Lumens: 1838.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (A_{in}): 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	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	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	119819	119819	119819
5°	121152	119302	118008
10°	122927	118299	115305
15°	124949	116415	112548
20°	125744	112448	109218
25°	122134	106369	104742
30°	113501	98876	98918
35°	101594	90121	92041
40°	86987	80796	83747
45°	74882	71234	73909
50°	65098	62020	63874
55°	57295	53354	52862
60°	50960	44522	41008
65°	44709	35668	29651
70°	38398	25180	20079
75°	31138	14620	11772
80°	22286	6367	5872
85°	8458	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	5.0
10°-20°	260.2	14.2
20°-30°	371.5	20.2
30°-40°	388.7	21.1
40°-50°	325.7	17.7
50°-60°	227.9	12.4
60°-70°	124.1	6.8
70°-80°	43.1	2.3
80°-90°	5.0	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°	723.6	39.4
0°-40°	1112.3	60.5
0°-60°	1665.9	90.6
0°-90°	1838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	975	975	975	975	975	
5°	982	978	967	959	957	94
15°	982	962	915	889	885	277
25°	901	853	785	769	773	411
35°	677	644	601	605	614	420
45°	431	421	410	424	425	335
55°	268	258	249	249	247	242
65°	154	140	123	103	102	153
75°	66	53	31	25	25	71
85°	6	3	2	2	2	11
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°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
2.5°	979.8	978.7	979.0	979.0	979.0	978.7	979.0	978.7	978.7	978.3	977.5
5°	982.4	981.7	981.7	981.7	981.3	980.9	980.9	980.5	979.8	979.4	977.9
7.5°	984.3	983.5	983.5	983.2	982.8	982.4	982.0	980.9	979.8	979.0	977.2
10°	985.4	984.3	984.3	983.5	982.8	982.4	981.7	980.2	978.7	976.8	974.2
12.5°	984.7	983.5	983.2	982.4	980.9	980.2	979.4	977.5	974.9	972.3	968.9
15°	982.4	981.7	980.9	979.8	977.9	976.8	976.0	973.0	969.7	965.9	961.8
17.5°	977.9	976.8	975.3	973.8	971.2	970.0	968.2	964.4	959.5	954.3	947.9
20°	961.8	961.0	959.5	956.9	952.8	951.3	948.7	943.8	937.4	931.0	924.3
22.5°	935.2	934.0	931.8	929.5	925.8	923.1	920.9	914.1	907.0	900.3	893.9
25°	901.0	899.9	896.9	893.9	890.1	885.6	883.4	878.1	871.0	862.4	853.0
27.5°	857.1	853.4	852.3	848.9	843.2	841.7	838.4	831.6	824.9	817.4	809.5
30°	800.1	800.1	797.9	796.4	791.1	789.6	785.9	778.7	775.0	764.5	758.5
32.5°	739.7	739.0	737.1	736.0	733.0	730.3	726.6	722.8	714.6	709.3	701.1
35°	677.4	672.9	673.7	671.4	669.6	666.6	666.2	662.1	654.6	651.6	644.1
37.5°	606.6	604.7	607.3	603.9	602.1	602.4	599.4	596.8	593.8	588.5	587.0
40°	542.4	543.9	543.5	540.5	542.0	540.2	537.2	534.5	533.0	529.7	528.5
42.5°	485.0	482.8	482.0	482.0	482.4	482.4	480.9	479.0	479.0	475.6	472.3
45°	431.0	431.0	430.3	432.5	429.1	429.1	428.0	427.6	426.1	425.4	421.2
47.5°	384.5	384.1	383.7	383.4	383.0	383.0	380.7	378.9	378.5	376.2	374.0
50°	340.6	342.9	342.1	340.2	339.5	339.9	338.3	337.2	336.8	333.1	333.5
52.5°	303.8	303.5	304.2	303.1	301.2	301.6	300.1	298.6	297.1	295.2	293.7
55°	267.5	269.3	268.6	267.5	267.1	266.3	265.2	263.3	263.0	258.8	258.5
57.5°	237.1	236.7	235.9	234.1	233.7	232.6	232.6	231.1	228.8	226.6	224.7
60°	207.4	207.4	206.3	205.9	204.4	204.1	203.7	202.2	199.6	197.7	194.7
62.5°	178.9	179.7	178.9	177.8	176.7	175.2	174.4	173.3	171.1	169.2	166.5
65°	153.8	153.4	153.0	151.5	151.2	149.7	149.3	147.0	144.8	143.3	140.3
67.5°	129.8	128.7	128.7	127.9	127.2	126.0	125.3	123.0	120.4	118.9	115.9
70°	106.9	106.2	106.2	106.2	104.3	103.2	102.8	101.7	97.9	96.4	93.4
72.5°	85.9	85.5	85.2	84.0	82.9	82.9	81.4	79.1	77.3	75.4	73.1
75°	65.6	66.4	65.6	64.1	63.8	63.0	61.9	60.0	58.1	55.9	53.3
77.5°	48.0	47.3	46.5	46.5	45.8	44.3	43.9	42.4	40.1	38.6	36.0
80°	31.5	31.1	30.4	29.6	29.3	28.9	28.5	27.0	24.8	23.6	21.4
82.5°	17.3	16.9	16.9	16.5	15.4	15.4	15.0	13.5	12.4	11.6	10.5
85°	6.0	6.0	6.0	5.6	5.6	5.6	5.3	4.9	4.5	4.1	3.4
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
2.5°	976.8	976.0	975.7	975.3	974.9	974.5	974.2	973.4	973.0	972.7	971.9
5°	976.8	975.3	974.5	973.4	972.7	971.9	970.8	969.7	968.5	967.4	966.3
7.5°	975.3	973.0	971.5	969.3	968.5	967.4	965.2	963.7	961.8	959.5	956.9
10°	971.5	968.9	965.9	962.9	961.8	959.9	956.9	954.3	951.3	948.3	945.7
12.5°	965.5	961.4	957.7	953.5	951.3	949.4	945.3	941.5	937.8	934.4	929.9
15°	956.5	951.7	946.8	941.2	938.5	936.3	930.3	925.8	919.8	915.3	910.8
17.5°	941.9	934.4	928.4	921.3	917.5	914.9	909.6	902.5	896.9	892.0	886.8
20°	916.8	909.6	901.4	893.5	889.4	886.0	878.5	871.0	865.4	860.1	854.5
22.5°	883.8	874.8	868.8	859.0	855.6	851.5	842.5	835.7	829.4	824.1	818.9
25°	843.6	835.7	827.5	818.5	814.4	809.5	802.0	794.9	790.7	784.7	778.4
27.5°	797.5	791.1	781.0	773.1	769.0	765.2	758.1	751.7	745.7	741.6	735.6
30°	748.7	741.2	732.2	724.0	721.7	717.2	710.8	706.0	699.6	697.0	694.3
32.5°	695.1	686.5	679.7	674.4	669.9	666.2	662.8	654.9	653.8	647.1	646.3
35°	636.6	632.8	626.4	621.9	618.2	615.6	609.9	606.2	602.1	600.9	598.3
37.5°	581.4	576.9	570.9	566.8	564.2	563.8	559.7	557.4	554.4	552.9	549.9
40°	523.7	521.8	516.5	515.8	511.7	511.3	509.0	506.4	503.8	503.8	504.1
42.5°	470.4	468.1	465.9	463.3	461.0	461.0	459.9	459.1	458.4	457.3	459.1
45°	420.5	417.5	416.0	413.4	414.5	412.2	411.5	411.5	410.4	410.0	412.6
47.5°	374.0	370.6	369.1	368.4	368.4	368.7	365.4	366.5	366.1	366.9	368.0
50°	331.6	328.6	326.3	326.3	326.7	325.2	323.7	324.8	323.7	324.5	327.1
52.5°	292.2	289.2	288.1	288.1	285.8	285.5	286.2	284.7	285.1	285.5	287.0
55°	255.8	253.9	252.1	250.2	250.6	249.8	248.3	247.9	248.7	249.1	250.9
57.5°	223.2	220.6	217.9	217.2	216.4	216.4	214.6	214.2	214.9	213.1	213.1
60°	192.1	190.6	187.2	186.1	186.1	184.2	182.7	183.4	181.6	181.2	181.6
62.5°	163.2	162.0	159.8	157.5	156.8	156.0	154.2	153.4	152.7	151.2	148.9
65°	138.0	135.4	132.8	131.3	130.2	128.3	127.2	125.7	123.4	122.7	120.4
67.5°	112.9	110.3	107.7	106.5	105.4	104.3	102.4	100.5	97.9	94.9	92.3
70°	90.8	87.4	85.9	82.9	82.1	80.6	78.0	76.1	73.5	70.1	67.5
72.5°	69.4	67.1	64.9	62.3	60.4	59.3	57.0	54.0	51.0	49.1	46.5
75°	49.9	48.8	45.8	42.8	42.0	40.5	37.9	36.0	33.8	30.8	28.5
77.5°	33.8	31.5	29.6	27.0	26.3	24.8	23.3	21.4	19.9	18.0	16.5
80°	19.9	18.0	16.9	15.0	14.3	13.5	12.4	10.9	9.8	9.0	8.6
82.5°	9.8	8.3	7.9	6.8	6.4	6.0	5.3	4.9	4.1	4.1	4.1
85°	3.4	2.6	2.6	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
2.5°	971.5	971.2	970.8	970.4	970.4	970.0	970.0	969.7	969.7	969.3	969.3
5°	964.8	963.7	962.9	962.2	962.2	961.0	960.3	959.5	959.2	959.2	958.4
7.5°	955.4	953.9	952.4	951.3	950.9	949.0	947.5	947.5	946.0	945.3	944.5
10°	943.0	940.4	938.2	937.0	935.5	934.4	932.5	931.4	930.3	928.4	928.0
12.5°	926.1	924.3	920.9	919.4	918.6	916.4	913.4	911.9	911.5	910.0	908.9
15°	907.0	902.9	899.9	898.0	898.0	894.3	892.8	890.5	889.0	887.9	887.5
17.5°	882.3	878.1	875.1	872.5	871.8	868.8	866.5	865.8	863.9	864.6	862.8
20°	850.4	847.0	844.7	841.4	841.4	839.5	838.7	836.9	836.1	835.4	836.1
22.5°	816.2	812.1	808.4	808.0	808.0	805.4	805.0	804.6	803.1	804.2	803.9
25°	776.1	773.1	770.9	770.5	770.5	769.0	767.5	768.2	769.4	769.0	770.1
27.5°	734.5	731.5	730.7	730.3	729.6	729.2	730.0	730.0	731.1	732.6	734.1
30°	689.5	688.7	687.6	687.2	686.5	688.3	689.1	690.2	689.8	692.1	693.6
32.5°	644.4	642.9	642.6	643.3	644.4	644.1	646.3	647.1	647.8	650.4	651.6
35°	599.1	598.7	597.9	597.9	598.3	601.3	601.3	603.9	605.4	606.2	609.2
37.5°	550.3	551.8	552.5	553.7	554.0	555.2	555.9	558.5	560.0	561.5	563.0
40°	505.6	504.9	508.3	506.0	506.8	510.2	511.7	511.3	513.5	515.8	517.3
42.5°	458.0	459.1	459.9	460.6	462.5	462.9	464.8	467.4	468.1	470.8	471.5
45°	411.9	412.2	413.7	415.2	416.4	419.4	420.1	421.2	423.5	423.5	424.6
47.5°	368.4	369.9	369.9	372.1	374.0	373.6	376.2	377.0	376.6	378.5	379.2
50°	326.7	329.0	328.6	330.1	330.8	331.2	333.5	334.2	332.7	334.6	335.0
52.5°	287.0	288.1	289.6	290.0	289.2	291.1	290.3	291.8	291.5	293.0	291.5
55°	250.6	250.2	250.2	250.9	250.2	250.9	251.7	250.2	249.1	250.6	250.2
57.5°	214.2	214.2	213.4	214.6	213.4	212.3	211.9	210.8	209.7	209.7	209.3
60°	180.1	179.3	177.8	177.4	177.4	175.6	174.8	173.3	173.3	171.8	170.3
62.5°	148.2	146.3	145.2	145.2	144.4	142.5	139.2	136.9	136.2	133.9	133.5
65°	118.2	116.3	115.2	112.9	111.0	110.3	106.9	104.3	103.2	100.9	101.3
67.5°	90.8	87.8	84.4	82.9	81.8	79.1	78.0	76.1	75.0	75.0	75.0
70°	65.3	62.6	59.3	58.1	57.4	55.1	54.0	53.6	54.8	54.4	54.8
72.5°	43.9	41.3	39.8	39.0	38.3	37.1	37.9	38.3	37.5	37.9	38.3
75°	26.6	25.9	24.8	24.4	24.4	24.8	24.4	24.4	24.8	24.8	25.1
77.5°	15.4	14.6	14.6	14.3	15.0	14.6	14.6	14.6	15.0	15.0	15.0
80°	8.3	8.3	8.3	8.3	8.6	8.3	8.6	8.6	8.6	8.6	8.6
82.5°	4.1	4.1	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.1
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
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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CATALOG NUMBER: LX4C25D010 EX4C259027 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
2.5°	968.5	968.5	968.5	967.8	968.2	968.2	967.8	967.8
5°	958.0	957.7	956.9	956.9	956.2	956.9	956.5	956.9
7.5°	943.8	943.8	942.7	942.7	942.3	941.9	941.5	941.9
10°	926.9	926.9	926.1	925.8	926.1	924.6	924.6	924.3
12.5°	908.1	907.4	906.6	907.0	906.6	905.5	905.1	905.5
15°	886.4	885.3	885.6	884.5	884.5	884.1	884.9	884.9
17.5°	862.4	861.6	860.9	861.3	860.5	860.9	860.5	860.1
20°	835.7	835.4	835.4	833.9	834.2	833.9	834.2	835.4
22.5°	805.0	804.6	805.0	803.9	804.6	804.6	805.7	805.7
25°	771.2	770.9	771.6	772.0	772.4	773.5	772.4	772.7
27.5°	733.7	734.8	736.0	736.3	737.8	736.7	736.0	737.1
30°	695.8	695.8	695.5	697.0	698.1	699.2	697.3	697.3
32.5°	652.3	654.2	654.2	654.6	655.7	655.7	655.7	657.2
35°	610.7	611.8	612.2	610.7	611.4	611.1	613.7	613.7
37.5°	564.2	564.2	564.5	567.2	567.2	566.0	566.8	566.8
40°	519.9	520.3	518.8	519.5	521.4	520.7	521.4	522.2
42.5°	471.5	474.1	472.6	473.4	473.0	473.4	473.8	473.8
45°	425.4	426.1	426.1	426.5	427.3	428.0	425.8	425.4
47.5°	380.4	380.7	381.9	380.0	382.2	380.0	382.2	379.6
50°	335.0	336.5	335.3	336.1	335.0	335.0	334.6	334.2
52.5°	291.8	291.5	291.5	291.1	291.1	291.8	291.1	292.2
55°	248.7	249.1	248.3	247.9	247.6	248.7	247.6	246.8
57.5°	207.8	208.6	207.1	207.8	205.2	206.3	206.7	207.1
60°	169.9	168.8	168.8	167.3	167.3	168.4	166.9	166.9
62.5°	131.7	132.4	131.3	132.8	132.8	134.3	133.5	134.3
65°	100.9	101.3	101.7	101.7	101.7	103.9	103.2	102.0
67.5°	76.1	76.5	76.9	76.5	77.6	76.9	76.9	77.3
70°	55.1	55.5	55.9	55.9	55.5	55.9	55.9	55.9
72.5°	38.3	38.6	38.3	38.6	39.0	38.6	38.6	39.0
75°	25.1	25.1	24.8	24.8	24.8	24.8	25.1	24.8
77.5°	14.6	15.0	14.6	15.0	15.0	15.0	15.0	15.0
80°	8.6	8.6	8.6	8.3	8.6	8.6	8.6	8.3
82.5°	4.5	4.5	4.1	4.1	4.5	4.5	4.5	4.5
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)