

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: P684846

Luminaire Tested: **LX6C15D010 EX6159027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C15D010 EX6159027 6LCSWLI
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

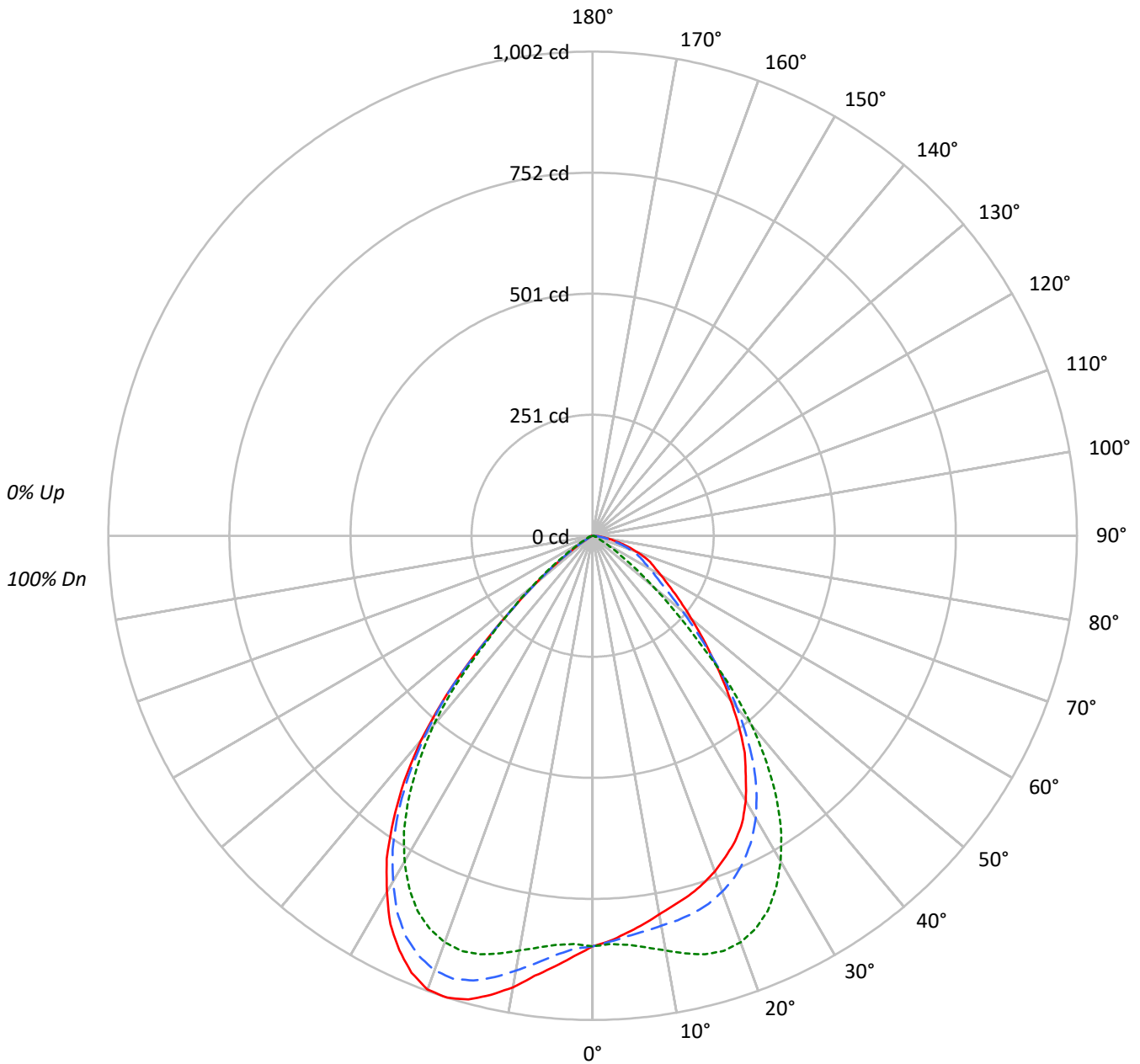
Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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									
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°	46575	46575	46575
5°	45366	46753	49213
10°	44265	48513	52810
15°	43746	50891	56379
20°	43118	52219	58286
25°	42202	51832	57239
30°	40107	49254	53882
35°	36694	44410	48104
40°	31738	36676	39467
45°	26762	24057	25817
50°	22720	13927	13091
55°	19717	6671	5046
60°	17806	3114	1250
65°	17278	1790	415
70°	15499	1427	385
75°	12730	1038	169
80°	9471	505	0
85°	8177	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	5.3
10°-20°	250.1	16.1
20°-30°	382.1	24.6
30°-40°	399.7	25.7
40°-50°	259.3	16.7
50°-60°	102.9	6.6
60°-70°	48.8	3.1
70°-80°	23.2	1.5
80°-90°	4.7	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°	714.3	46.0
0°-40°	1114.0	71.7
0°-60°	1476.2	95.1
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	850	850	850	850	850	
5°	824	832	850	871	894	78
15°	771	808	897	953	993	217
25°	698	742	857	915	946	319
35°	548	582	664	703	719	339
45°	345	342	310	329	333	269
55°	206	175	70	54	53	187
65°	133	110	14	3	3	130
75°	60	49	5	2	1	65
85°	13	8	0	0	0	15
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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	839.1	840.7	831.8	829.3	835.8	838.2	839.1	836.6	837.4	840.7	840.7
5°	824.4	826.0	817.9	815.5	822.0	823.6	826.0	825.3	827.7	832.6	831.8
7.5°	810.6	813.1	804.1	800.9	809.0	813.1	814.7	814.7	817.9	824.4	825.3
10°	795.2	798.4	790.3	788.7	797.6	801.7	802.5	804.1	809.0	817.9	819.5
12.5°	782.2	785.4	779.8	777.3	787.1	791.1	792.7	796.0	801.7	813.1	814.7
15°	770.8	773.3	766.8	765.1	774.9	779.8	780.6	785.4	792.7	805.7	808.2
17.5°	756.2	757.8	753.0	751.3	761.1	765.9	766.8	772.4	781.4	794.4	798.4
20°	739.1	740.8	735.9	734.3	744.0	749.7	750.5	755.4	765.9	779.8	783.8
22.5°	718.8	722.1	716.4	714.8	724.5	729.4	731.8	735.9	746.5	760.3	765.9
25°	697.7	697.7	693.7	692.9	701.8	707.5	706.6	712.3	722.9	736.7	741.6
27.5°	670.1	669.3	665.2	664.4	674.2	679.1	677.4	683.1	692.9	706.6	711.5
30°	633.6	635.2	629.5	627.9	636.0	644.1	643.3	649.0	658.7	671.7	675.0
32.5°	589.7	591.3	590.5	588.1	595.4	599.4	601.9	605.9	614.1	627.9	631.1
35°	548.3	545.8	542.6	542.6	549.9	556.4	553.9	558.8	567.0	580.7	581.6
37.5°	497.1	496.3	494.7	493.0	501.2	502.8	503.6	506.8	514.2	525.5	523.9
40°	443.5	444.3	443.5	440.2	445.1	451.6	450.8	452.4	458.9	467.0	464.6
42.5°	393.1	393.1	393.1	389.9	395.6	398.8	400.4	399.6	401.2	408.6	405.3
45°	345.2	346.0	345.2	344.4	345.2	346.8	345.2	344.4	344.4	346.8	342.0
47.5°	303.8	303.8	301.3	298.9	301.3	302.1	299.7	297.3	296.5	295.7	287.6
50°	266.4	265.6	264.8	260.7	263.2	264.0	260.7	259.1	255.9	251.8	242.1
52.5°	233.9	233.1	232.3	228.2	229.9	230.7	227.4	224.2	220.1	216.9	204.7
55°	206.3	205.5	205.5	203.1	201.4	203.1	199.8	197.4	191.7	187.6	175.4
57.5°	182.7	182.7	181.1	178.7	179.5	179.5	176.3	173.0	168.1	163.3	153.5
60°	162.4	162.4	162.4	160.0	160.0	160.0	158.4	155.1	151.1	146.2	136.5
62.5°	146.2	146.2	145.4	143.0	143.8	143.8	142.1	138.9	134.8	131.6	121.8
65°	133.2	133.2	133.2	130.8	130.8	131.6	130.0	126.7	123.5	119.4	110.5
67.5°	117.0	116.2	116.2	114.5	115.3	116.2	114.5	112.1	108.0	105.6	97.5
70°	96.7	97.5	98.3	95.9	96.7	96.7	95.9	93.4	91.0	88.5	81.2
72.5°	78.8	78.8	78.0	77.2	77.2	78.0	76.4	73.9	72.3	70.7	65.0
75°	60.1	59.3	60.1	58.5	58.5	58.5	56.8	56.1	55.2	52.8	48.7
77.5°	43.9	43.0	43.0	41.4	42.3	42.3	41.4	39.8	38.2	37.4	34.1
80°	30.0	30.0	30.0	29.2	29.2	28.4	28.4	27.6	26.0	25.2	23.6
82.5°	20.3	20.3	20.3	19.5	19.5	19.5	18.7	17.9	17.1	16.2	14.6
85°	13.0	13.0	13.0	12.2	12.2	12.2	11.4	11.4	10.6	9.7	8.1
87.5°	7.3	7.3	7.3	6.5	6.5	6.5	6.5	6.5	5.7	4.9	4.1
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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	846.3	835.0	842.3	842.3	839.9	846.3	850.4	853.7	852.9	845.6	844.7
5°	839.9	830.1	838.2	839.1	836.6	845.6	851.2	855.3	856.1	849.6	850.4
7.5°	835.0	826.9	837.4	840.7	839.9	848.0	854.5	861.0	864.2	859.4	860.2
10°	832.6	826.0	837.4	842.3	843.1	852.1	861.8	870.7	874.8	871.5	874.0
12.5°	829.3	825.3	838.2	845.6	848.8	857.7	869.9	880.5	887.0	885.4	890.2
15°	826.0	822.8	838.2	848.8	852.9	861.0	874.8	890.2	897.5	896.7	903.2
17.5°	817.9	817.1	833.4	844.7	850.4	860.2	873.2	891.8	899.2	900.8	908.9
20°	805.0	805.0	822.8	835.0	841.5	850.4	866.7	884.5	893.5	895.1	904.0
22.5°	787.1	788.7	805.7	817.9	827.7	834.2	851.2	869.9	878.0	880.5	890.2
25°	763.5	765.1	781.4	793.6	804.1	811.4	827.7	844.7	854.5	856.9	864.2
27.5°	732.7	735.9	751.3	763.5	772.4	777.3	794.4	812.2	819.5	822.0	829.3
30°	696.9	697.7	713.2	723.7	732.7	736.7	751.3	770.0	775.7	778.1	788.7
32.5°	653.0	652.2	666.9	676.6	683.9	688.8	704.2	716.4	722.1	726.2	731.8
35°	600.3	599.4	610.0	621.4	627.1	628.7	644.1	657.1	660.4	663.6	670.9
37.5°	541.0	541.0	549.9	555.6	562.1	564.5	571.8	586.5	592.1	591.3	597.0
40°	478.4	475.2	481.7	487.4	489.0	489.8	497.1	508.5	512.5	512.5	516.6
42.5°	412.6	407.7	408.6	411.8	413.4	407.7	412.6	419.9	417.5	420.7	421.6
45°	342.8	335.5	332.2	324.9	326.5	320.8	317.6	319.2	318.4	310.3	311.9
47.5°	285.9	272.9	267.2	256.7	254.2	247.7	243.7	236.4	229.9	229.9	225.8
50°	238.0	225.0	213.6	201.4	197.4	191.7	182.7	173.0	168.1	163.3	159.2
52.5°	199.8	186.0	172.2	159.2	153.5	146.2	134.0	124.3	115.3	110.5	105.6
55°	168.9	153.5	138.9	125.1	117.8	110.5	98.3	86.9	76.4	69.8	65.8
57.5°	145.4	130.8	115.3	100.7	94.2	86.1	73.1	60.9	51.2	43.9	39.8
60°	128.3	113.7	99.9	84.5	78.0	69.8	56.1	44.7	34.9	28.4	23.6
62.5°	113.7	100.7	86.1	72.3	65.8	57.7	44.7	33.3	24.4	17.9	13.8
65°	103.2	90.2	78.0	64.2	58.5	50.4	38.2	27.6	19.5	13.8	9.7
67.5°	91.0	79.6	67.4	56.1	50.4	43.9	32.5	23.6	16.2	11.4	8.1
70°	76.4	67.4	56.8	46.3	42.3	36.5	26.8	19.5	13.0	8.9	6.5
72.5°	60.9	53.6	45.5	37.4	34.1	28.4	21.9	15.4	9.7	6.5	4.9
75°	46.3	40.6	34.1	28.4	25.2	21.9	16.2	11.4	7.3	4.9	3.2
77.5°	31.7	29.2	24.4	19.5	17.9	15.4	10.6	7.3	4.9	3.2	1.6
80°	21.9	19.5	16.2	13.0	11.4	9.7	6.5	4.9	2.4	1.6	0.8
82.5°	13.8	11.4	9.7	8.1	7.3	5.7	4.1	2.4	1.6	0.8	0.8
85°	7.3	6.5	5.7	4.1	4.1	3.2	2.4	1.6	0.8	0.0	0.0
87.5°	4.1	3.2	2.4	1.6	1.6	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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	854.5	854.5	853.7	863.4	852.1	863.4	857.7	863.4	855.3	854.5	855.3
5°	861.0	863.4	864.2	873.2	862.6	876.4	871.5	876.4	870.7	872.4	874.8
7.5°	874.0	878.0	877.2	888.6	878.0	893.5	890.2	897.5	891.8	893.5	896.7
10°	888.6	893.5	894.3	905.7	895.9	914.6	910.5	918.6	913.8	916.2	920.3
12.5°	905.7	911.3	912.2	925.1	914.6	934.1	931.6	939.8	935.7	938.1	943.0
15°	918.6	926.8	928.4	941.4	930.0	950.3	948.7	959.3	952.8	956.8	960.9
17.5°	925.1	932.5	935.7	947.9	938.1	958.5	956.8	965.8	960.9	965.0	969.8
20°	921.1	930.0	932.5	944.7	934.9	955.2	952.8	961.7	956.8	960.1	965.0
22.5°	906.5	915.4	918.6	930.0	921.1	939.8	939.0	947.1	940.6	944.7	948.7
25°	880.5	890.2	891.8	902.4	892.7	912.2	910.5	919.5	914.6	917.0	922.7
27.5°	843.1	854.5	856.9	865.9	858.6	874.8	874.8	882.1	876.4	876.4	882.1
30°	798.4	809.8	811.4	818.8	812.2	826.9	827.7	835.0	826.0	830.9	831.8
32.5°	744.0	751.3	756.2	762.7	753.0	771.6	769.2	774.9	770.0	770.0	774.1
35°	678.2	687.2	689.6	697.7	689.6	704.2	704.2	707.5	702.6	702.6	709.1
37.5°	606.8	613.3	614.1	622.2	615.7	627.9	627.1	629.5	624.6	627.9	627.9
40°	523.1	528.0	529.6	533.6	532.8	541.8	541.0	542.6	540.1	541.0	542.6
42.5°	425.6	432.1	435.4	438.6	433.8	445.9	443.5	445.9	445.1	445.9	448.4
45°	313.5	318.4	320.8	321.7	320.0	327.3	333.0	328.2	328.9	327.3	330.6
47.5°	226.6	227.4	225.8	230.7	226.6	229.9	231.5	232.3	227.4	226.6	229.9
50°	155.1	159.2	153.5	155.9	155.1	158.4	156.8	157.6	152.7	155.1	153.5
52.5°	103.2	102.3	100.7	101.5	99.9	99.9	99.9	101.5	98.3	96.7	95.0
55°	62.6	60.9	57.7	56.8	56.8	57.7	56.1	54.4	54.4	53.6	53.6
57.5°	36.5	34.1	32.5	31.7	30.0	29.2	28.4	28.4	26.8	26.8	26.8
60°	20.3	17.9	16.2	14.6	14.6	13.8	13.0	12.2	12.2	12.2	11.4
62.5°	10.6	8.9	7.3	6.5	6.5	5.7	4.9	4.9	4.9	4.9	4.1
65°	7.3	5.7	4.9	4.1	4.1	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	5.7	4.9	4.1	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4
70°	4.9	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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



TEST NUMBER: P684846

CATALOG NUMBER: LX6C15D010 EX6159027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	862.6	861.8	862.6	864.2	861.0	870.7	865.9	870.7
5°	881.3	882.1	882.9	885.4	881.3	893.5	887.0	894.3
7.5°	905.7	906.5	907.3	909.7	907.3	919.5	912.2	918.6
10°	930.9	932.5	932.5	936.5	934.1	945.4	940.6	948.7
12.5°	954.4	956.0	957.7	960.1	958.5	970.6	966.6	973.1
15°	973.1	976.3	977.1	980.4	978.8	991.8	986.9	993.4
17.5°	982.0	985.3	985.3	989.3	987.7	1001.5	995.0	1002.3
20°	977.1	979.6	980.4	984.5	982.8	996.6	990.1	999.1
22.5°	961.7	962.5	963.3	967.4	966.6	978.8	973.1	978.8
25°	933.3	935.7	934.9	938.1	938.1	947.9	941.4	946.3
27.5°	892.7	895.1	895.1	899.2	895.9	905.7	899.2	906.5
30°	843.1	845.6	843.9	847.2	843.9	853.7	848.8	851.2
32.5°	783.8	783.8	784.6	785.4	783.8	792.7	787.9	792.7
35°	713.2	714.8	715.6	716.4	714.8	721.3	715.6	718.8
37.5°	633.6	637.6	636.8	637.6	635.2	643.3	638.4	640.1
40°	548.3	548.3	547.4	549.1	546.6	553.2	549.9	551.5
42.5°	449.2	451.6	448.4	452.4	445.9	454.8	451.6	449.2
45°	337.1	333.8	333.0	333.8	331.4	332.2	334.7	333.0
47.5°	229.9	229.9	228.2	225.8	229.1	229.9	226.6	226.6
50°	154.3	154.3	152.7	151.9	153.5	152.7	151.1	153.5
52.5°	98.3	95.0	95.0	96.7	95.0	93.4	95.9	94.2
55°	53.6	52.0	52.0	53.6	52.0	52.0	51.2	52.8
57.5°	26.0	26.8	26.0	26.0	26.0	26.0	25.2	26.0
60°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
62.5°	4.9	4.9	4.1	4.1	4.1	4.1	4.1	4.1
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	2.4	2.4	2.4	2.4	2.4	3.2	2.4	2.4
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2
75°	1.6	1.6	1.6	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)