

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: io LED

Report Number: P252147

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252147
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: io LED
Catalog Number: LD6B15D010 EU6B10209027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1533.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

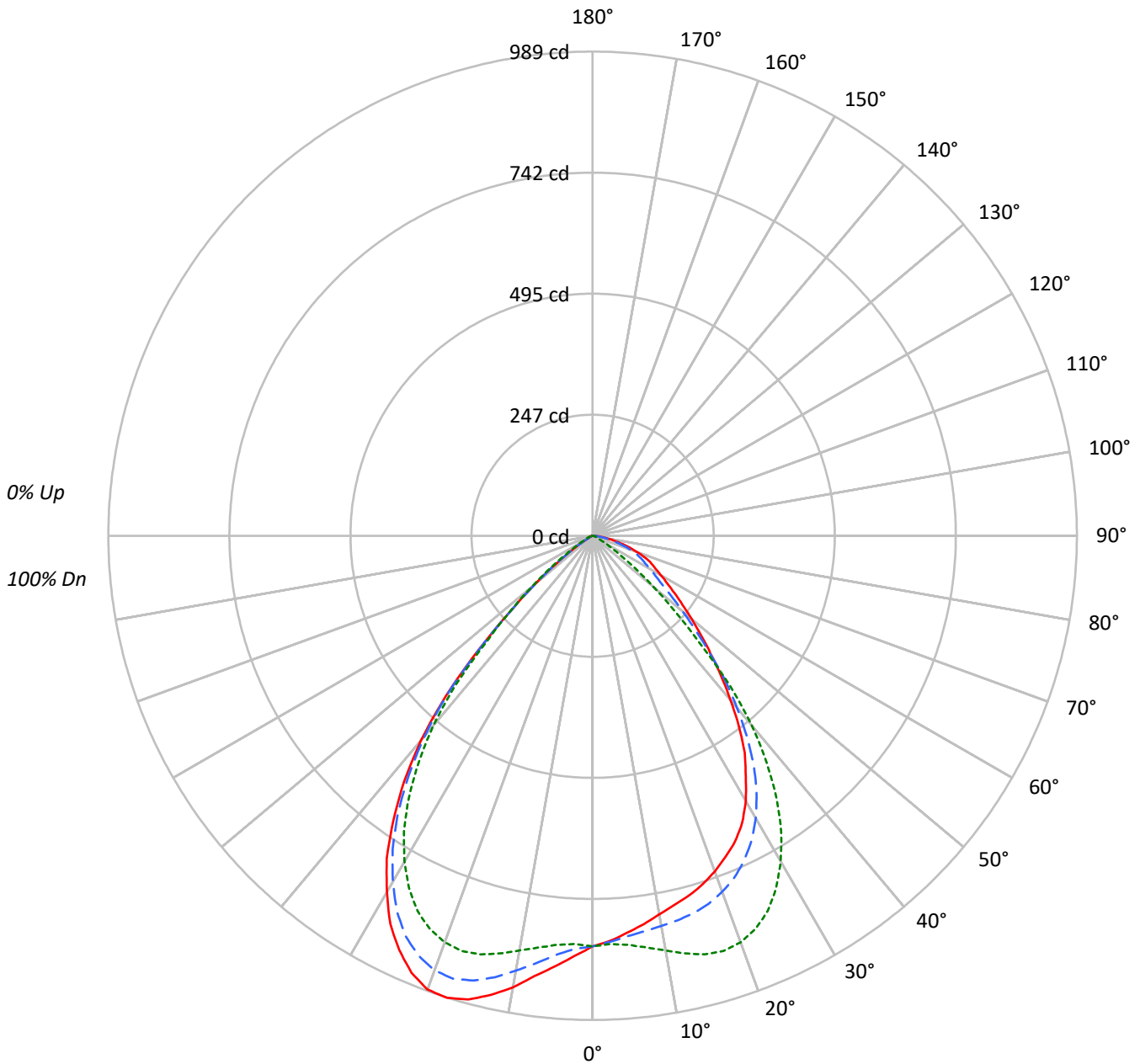
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	54717	54717	54717
5°	53296	54926	57814
10°	52004	56992	62040
15°	51393	59788	66232
20°	50654	61346	68470
25°	49576	60892	67241
30°	47114	57864	63303
35°	43103	52175	56515
40°	37285	43085	46364
45°	31444	28261	30327
50°	26694	16361	15377
55°	23170	7848	5926
60°	20929	3667	1461
65°	20300	2099	494
70°	18198	1679	458
75°	14948	1210	202
80°	11158	601	0
85°	9581	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	5.3
10°-20°	246.9	16.1
20°-30°	377.2	24.6
30°-40°	394.5	25.7
40°-50°	255.9	16.7
50°-60°	101.6	6.6
60°-70°	48.2	3.1
70°-80°	22.9	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°	705.1	46.0
0°-40°	1099.6	71.7
0°-60°	1457.2	95.1
0°-90°	1533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	839	839	839	839	839	
5°	814	821	839	860	883	77
15°	761	798	885	940	981	214
25°	689	732	846	903	934	315
35°	541	574	655	694	710	335
45°	341	338	306	325	329	265
55°	204	173	69	54	52	185
65°	132	109	14	3	3	128
75°	59	48	5	2	1	64
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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	828.2	829.9	821.0	818.6	825.0	827.4	828.2	825.8	826.6	829.9	829.9
5°	813.8	815.4	807.4	805.0	811.4	813.0	815.4	814.6	817.0	821.8	821.0
7.5°	800.2	802.6	793.8	790.6	798.6	802.6	804.2	804.2	807.4	813.8	814.6
10°	785.0	788.2	780.1	778.5	787.4	791.4	792.2	793.8	798.6	807.4	809.0
12.5°	772.1	775.3	769.7	767.3	776.9	780.9	782.5	785.8	791.4	802.6	804.2
15°	760.9	763.3	756.9	755.3	764.9	769.7	770.5	775.3	782.5	795.4	797.8
17.5°	746.5	748.1	743.3	741.7	751.3	756.1	756.9	762.5	771.3	784.2	788.2
20°	729.6	731.2	726.4	724.8	734.4	740.1	740.9	745.7	756.1	769.7	773.7
22.5°	709.6	712.8	707.2	705.6	715.2	720.0	722.4	726.4	736.8	750.5	756.1
25°	688.7	688.7	684.7	683.9	692.7	698.4	697.6	703.2	713.6	727.2	732.0
27.5°	661.5	660.7	656.7	655.9	665.5	670.3	668.7	674.3	683.9	697.6	702.4
30°	625.4	627.0	621.4	619.8	627.8	635.8	635.0	640.6	650.3	663.1	666.3
32.5°	582.1	583.7	582.9	580.5	587.7	591.7	594.1	598.1	606.2	619.8	623.0
35°	541.2	538.8	535.6	535.6	542.8	549.2	546.8	551.6	559.6	573.3	574.1
37.5°	490.7	489.9	488.3	486.7	494.7	496.3	497.1	500.3	507.5	518.8	517.2
40°	437.8	438.6	437.8	434.6	439.4	445.8	445.0	446.6	453.0	461.0	458.6
42.5°	388.1	388.1	388.1	384.9	390.5	393.7	395.3	394.5	396.1	403.3	400.1
45°	340.8	341.6	340.8	340.0	340.8	342.4	340.8	340.0	340.0	342.4	337.6
47.5°	299.9	299.9	297.5	295.1	297.5	298.3	295.9	293.5	292.7	291.9	283.8
50°	263.0	262.2	261.4	257.4	259.8	260.6	257.4	255.8	252.6	248.6	238.9
52.5°	230.9	230.1	229.3	225.3	226.9	227.7	224.5	221.3	217.3	214.1	202.1
55°	203.7	202.9	202.9	200.4	198.8	200.4	197.2	194.8	189.2	185.2	173.2
57.5°	180.4	180.4	178.8	176.4	177.2	177.2	174.0	170.8	166.0	161.2	151.5
60°	160.4	160.4	160.4	158.0	158.0	158.0	156.3	153.1	149.1	144.3	134.7
62.5°	144.3	144.3	143.5	141.1	141.9	141.9	140.3	137.1	133.1	129.9	120.3
65°	131.5	131.5	131.5	129.1	129.1	129.9	128.3	125.1	121.9	117.9	109.0
67.5°	115.5	114.7	114.7	113.1	113.9	114.7	113.1	110.6	106.6	104.2	96.2
70°	95.4	96.2	97.0	94.6	95.4	95.4	94.6	92.2	89.8	87.4	80.2
72.5°	77.8	77.8	77.0	76.2	76.2	77.0	75.4	73.0	71.4	69.8	64.1
75°	59.3	58.5	59.3	57.7	57.7	57.7	56.1	55.3	54.5	52.1	48.1
77.5°	43.3	42.5	42.5	40.9	41.7	41.7	40.9	39.3	37.7	36.9	33.7
80°	29.7	29.7	29.7	28.9	28.9	28.1	28.1	27.3	25.7	24.9	23.3
82.5°	20.0	20.0	20.0	19.2	19.2	19.2	18.4	17.6	16.8	16.0	14.4
85°	12.8	12.8	12.8	12.0	12.0	12.0	11.2	11.2	10.4	9.6	8.0
87.5°	7.2	7.2	7.2	6.4	6.4	6.4	6.4	6.4	5.6	4.8	4.0
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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	835.5	824.2	831.5	831.5	829.1	835.5	839.5	842.7	841.9	834.7	833.9
5°	829.1	819.4	827.4	828.2	825.8	834.7	840.3	844.3	845.1	838.7	839.5
7.5°	824.2	816.2	826.6	829.9	829.1	837.1	843.5	849.9	853.1	848.3	849.1
10°	821.8	815.4	826.6	831.5	832.3	841.1	850.7	859.5	863.5	860.3	862.7
12.5°	818.6	814.6	827.4	834.7	837.9	846.7	858.7	869.1	875.6	874.0	878.8
15°	815.4	812.2	827.4	837.9	841.9	849.9	863.5	878.8	886.0	885.2	891.6
17.5°	807.4	806.6	822.6	833.9	839.5	849.1	861.9	880.4	887.6	889.2	897.2
20°	794.6	794.6	812.2	824.2	830.7	839.5	855.5	873.1	882.0	883.6	892.4
22.5°	776.9	778.5	795.4	807.4	817.0	823.4	840.3	858.7	866.7	869.1	878.8
25°	753.7	755.3	771.3	783.3	793.8	801.0	817.0	833.9	843.5	845.9	853.1
27.5°	723.2	726.4	741.7	753.7	762.5	767.3	784.2	801.8	809.0	811.4	818.6
30°	687.9	688.7	704.0	714.4	723.2	727.2	741.7	760.1	765.7	768.1	778.5
32.5°	644.6	643.8	658.3	667.9	675.1	679.9	695.2	707.2	712.8	716.8	722.4
35°	592.5	591.7	602.1	613.4	619.0	620.6	635.8	648.6	651.9	655.1	662.3
37.5°	534.0	534.0	542.8	548.4	554.8	557.2	564.5	578.9	584.5	583.7	589.3
40°	472.3	469.0	475.5	481.1	482.7	483.5	490.7	501.9	505.9	505.9	509.9
42.5°	407.3	402.5	403.3	406.5	408.1	402.5	407.3	414.5	412.1	415.3	416.1
45°	338.4	331.1	327.9	320.7	322.3	316.7	313.5	315.1	314.3	306.3	307.9
47.5°	282.2	269.4	263.8	253.4	251.0	244.5	240.5	233.3	226.9	226.9	222.9
50°	234.9	222.1	210.9	198.8	194.8	189.2	180.4	170.8	166.0	161.2	157.2
52.5°	197.2	183.6	170.0	157.2	151.5	144.3	132.3	122.7	113.9	109.0	104.2
55°	166.8	151.5	137.1	123.5	116.3	109.0	97.0	85.8	75.4	69.0	64.9
57.5°	143.5	129.1	113.9	99.4	93.0	85.0	72.2	60.1	50.5	43.3	39.3
60°	126.7	112.3	98.6	83.4	77.0	69.0	55.3	44.1	34.5	28.1	23.3
62.5°	112.3	99.4	85.0	71.4	64.9	56.9	44.1	32.9	24.1	17.6	13.6
65°	101.8	89.0	77.0	63.3	57.7	49.7	37.7	27.3	19.2	13.6	9.6
67.5°	89.8	78.6	66.5	55.3	49.7	43.3	32.1	23.3	16.0	11.2	8.0
70°	75.4	66.5	56.1	45.7	41.7	36.1	26.5	19.2	12.8	8.8	6.4
72.5°	60.1	52.9	44.9	36.9	33.7	28.1	21.6	15.2	9.6	6.4	4.8
75°	45.7	40.1	33.7	28.1	24.9	21.6	16.0	11.2	7.2	4.8	3.2
77.5°	31.3	28.9	24.1	19.2	17.6	15.2	10.4	7.2	4.8	3.2	1.6
80°	21.6	19.2	16.0	12.8	11.2	9.6	6.4	4.8	2.4	1.6	0.8
82.5°	13.6	11.2	9.6	8.0	7.2	5.6	4.0	2.4	1.6	0.8	0.8
85°	7.2	6.4	5.6	4.0	4.0	3.2	2.4	1.6	0.8	0.0	0.0
87.5°	4.0	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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	843.5	843.5	842.7	852.3	841.1	852.3	846.7	852.3	844.3	843.5	844.3
5°	849.9	852.3	853.1	861.9	851.5	865.1	860.3	865.1	859.5	861.1	863.5
7.5°	862.7	866.7	865.9	877.2	866.7	882.0	878.8	886.0	880.4	882.0	885.2
10°	877.2	882.0	882.8	894.0	884.4	902.8	898.8	906.8	902.0	904.4	908.4
12.5°	894.0	899.6	900.4	913.2	902.8	922.1	919.7	927.7	923.7	926.1	930.9
15°	906.8	914.8	916.4	929.3	918.0	938.1	936.5	946.9	940.5	944.5	948.5
17.5°	913.2	920.5	923.7	935.7	926.1	946.1	944.5	953.3	948.5	952.5	957.3
20°	909.2	918.0	920.5	932.5	922.9	942.9	940.5	949.3	944.5	947.7	952.5
22.5°	894.8	903.6	906.8	918.0	909.2	927.7	926.9	934.9	928.5	932.5	936.5
25°	869.1	878.8	880.4	890.8	881.2	900.4	898.8	907.6	902.8	905.2	910.8
27.5°	832.3	843.5	845.9	854.7	847.5	863.5	863.5	870.7	865.1	865.1	870.7
30°	788.2	799.4	801.0	808.2	801.8	816.2	817.0	824.2	815.4	820.2	821.0
32.5°	734.4	741.7	746.5	752.9	743.3	761.7	759.3	764.9	760.1	760.1	764.1
35°	669.5	678.3	680.7	688.7	680.7	695.2	695.2	698.4	693.5	693.5	700.0
37.5°	598.9	605.4	606.2	614.2	607.8	619.8	619.0	621.4	616.6	619.8	619.8
40°	516.4	521.2	522.8	526.8	526.0	534.8	534.0	535.6	533.2	534.0	535.6
42.5°	420.1	426.6	429.8	433.0	428.2	440.2	437.8	440.2	439.4	440.2	442.6
45°	309.5	314.3	316.7	317.5	315.9	323.1	328.7	323.9	324.7	323.1	326.3
47.5°	223.7	224.5	222.9	227.7	223.7	226.9	228.5	229.3	224.5	223.7	226.9
50°	153.1	157.2	151.5	153.9	153.1	156.3	154.7	155.5	150.7	153.1	151.5
52.5°	101.8	101.0	99.4	100.2	98.6	98.6	98.6	100.2	97.0	95.4	93.8
55°	61.7	60.1	56.9	56.1	56.1	56.9	55.3	53.7	53.7	52.9	52.9
57.5°	36.1	33.7	32.1	31.3	29.7	28.9	28.1	28.1	26.5	26.5	26.5
60°	20.0	17.6	16.0	14.4	14.4	13.6	12.8	12.0	12.0	12.0	11.2
62.5°	10.4	8.8	7.2	6.4	6.4	5.6	4.8	4.8	4.8	4.8	4.0
65°	7.2	5.6	4.8	4.0	4.0	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	5.6	4.8	4.0	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4
70°	4.8	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



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CATALOG NUMBER: LD6B15D010 EU6B10209027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	851.5	850.7	851.5	853.1	849.9	859.5	854.7	859.5
5°	869.9	870.7	871.5	874.0	869.9	882.0	875.6	882.8
7.5°	894.0	894.8	895.6	898.0	895.6	907.6	900.4	906.8
10°	918.9	920.5	920.5	924.5	922.1	933.3	928.5	936.5
12.5°	942.1	943.7	945.3	947.7	946.1	958.1	954.1	960.5
15°	960.5	963.8	964.6	967.8	966.2	979.0	974.2	980.6
17.5°	969.4	972.6	972.6	976.6	975.0	988.6	982.2	989.4
20°	964.6	967.0	967.8	971.8	970.2	983.8	977.4	986.2
22.5°	949.3	950.1	950.9	954.9	954.1	966.2	960.5	966.2
25°	921.3	923.7	922.9	926.1	926.1	935.7	929.3	934.1
27.5°	881.2	883.6	883.6	887.6	884.4	894.0	887.6	894.8
30°	832.3	834.7	833.1	836.3	833.1	842.7	837.9	840.3
32.5°	773.7	773.7	774.5	775.3	773.7	782.5	777.7	782.5
35°	704.0	705.6	706.4	707.2	705.6	712.0	706.4	709.6
37.5°	625.4	629.4	628.6	629.4	627.0	635.0	630.2	631.8
40°	541.2	541.2	540.4	542.0	539.6	546.0	542.8	544.4
42.5°	443.4	445.8	442.6	446.6	440.2	449.0	445.8	443.4
45°	332.7	329.5	328.7	329.5	327.1	327.9	330.3	328.7
47.5°	226.9	226.9	225.3	222.9	226.1	226.9	223.7	223.7
50°	152.3	152.3	150.7	149.9	151.5	150.7	149.1	151.5
52.5°	97.0	93.8	93.8	95.4	93.8	92.2	94.6	93.0
55°	52.9	51.3	51.3	52.9	51.3	51.3	50.5	52.1
57.5°	25.7	26.5	25.7	25.7	25.7	25.7	24.9	25.7
60°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
62.5°	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0
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)