

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: P136512

Luminaire Tested: **LD6A15D010TE ERW6A15827 6LW121LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23360)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15827 6LW121LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.14
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

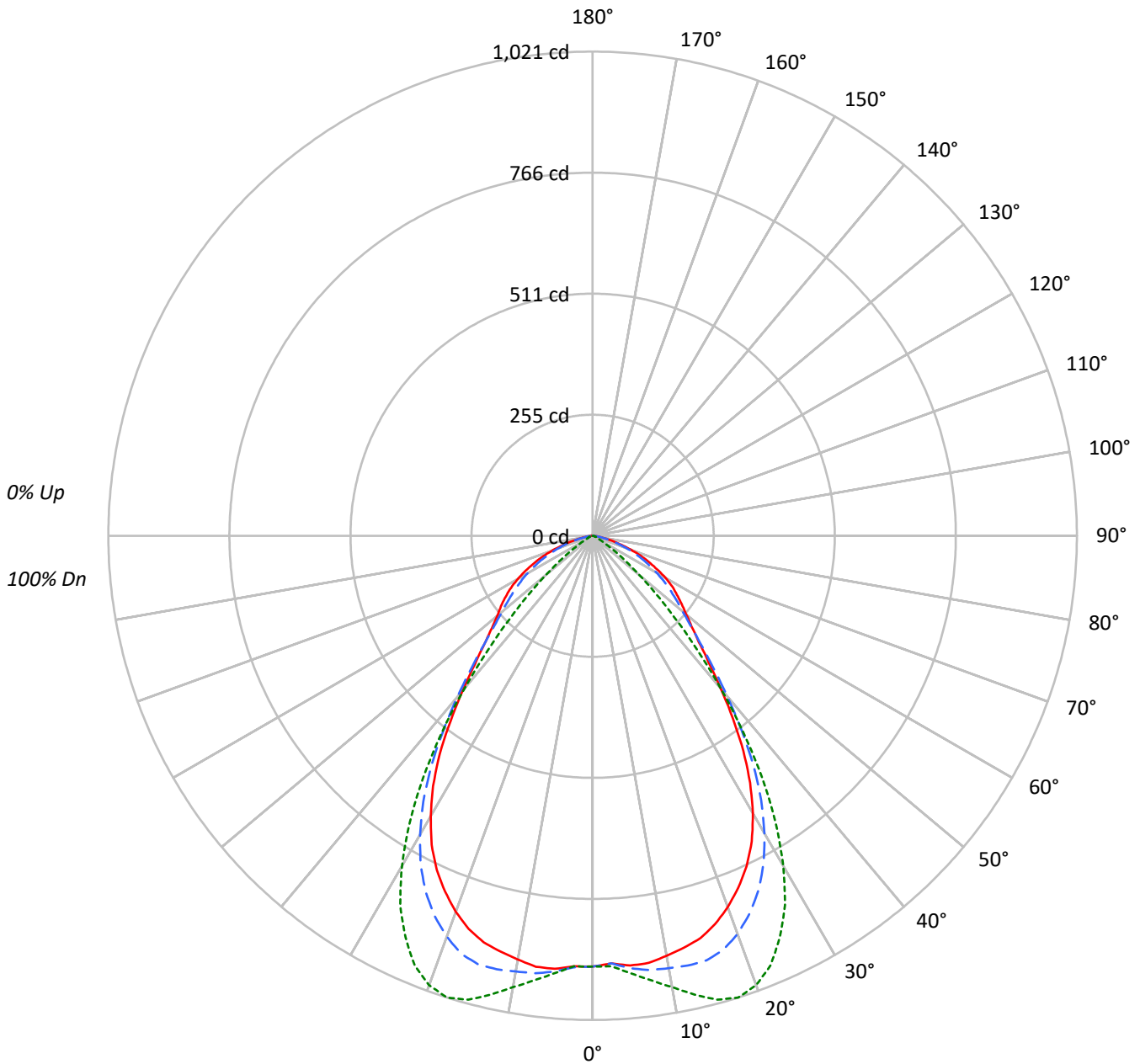
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63																			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59271	59271	59271
5°	59576	60637	60028
10°	59569	64028	60113
15°	59329	68407	59957
20°	57847	69997	58569
25°	55306	67234	55976
30°	50895	60583	51415
35°	44115	49650	44760
40°	35727	35727	36221
45°	29192	22669	29728
50°	26115	12941	26582
55°	24648	6586	25444
60°	23134	2871	23735
65°	20207	1605	20933
70°	16366	1335	17015
75°	11394	882	11696
80°	6951	451	6951
85°	3443	898	3443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	5.5
10°-20°	264.8	16.4
20°-30°	385.3	23.8
30°-40°	366.1	22.6
40°-50°	237.2	14.7
50°-60°	148.8	9.2
60°-70°	89.0	5.5
70°-80°	34.7	2.1
80°-90°	4.8	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°	738.4	45.6
0°-40°	1104.6	68.2
0°-60°	1490.6	92.1
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	908	908	908	908	908	
5°	910	916	926	922	917	86
15°	878	927	1013	935	888	247
25°	768	826	934	831	778	351
35°	554	591	623	593	562	343
45°	316	321	246	322	322	250
55°	217	199	58	202	224	194
65°	131	115	10	117	136	130
75°	45	39	4	41	46	50
85°	5	5	1	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	902.7	896.9	913.2	903.9	905.0	916.6	907.4	903.9	915.5	902.7	908.5
5°	909.7	905.0	921.3	913.2	914.3	925.9	917.8	914.3	927.1	915.5	921.3
7.5°	908.5	905.0	920.1	913.2	914.3	928.2	920.1	918.9	934.0	923.6	931.7
10°	899.2	894.6	910.8	905.0	907.4	922.4	915.5	915.5	932.9	925.9	937.5
12.5°	890.0	885.3	901.6	896.9	899.2	915.5	910.8	913.2	932.9	928.2	943.3
15°	878.4	873.8	891.1	886.5	888.8	906.2	903.9	906.2	928.2	927.1	944.4
17.5°	858.7	856.4	871.4	869.1	871.4	888.8	887.7	891.1	915.5	915.5	937.5
20°	833.2	829.7	845.9	843.6	844.8	862.2	862.2	865.6	891.1	893.5	915.5
22.5°	803.1	800.7	817.0	813.5	815.8	832.0	832.0	835.5	859.8	863.3	886.5
25°	768.3	766.0	781.0	779.9	781.0	797.3	796.1	800.7	823.9	826.2	848.3
27.5°	726.6	723.1	738.2	738.2	739.3	754.4	754.4	756.7	777.6	779.9	800.7
30°	675.6	672.1	686.0	687.2	687.2	702.2	702.2	703.4	723.1	724.3	742.8
32.5°	617.7	617.7	628.1	629.2	629.2	643.1	644.3	644.3	661.7	661.7	676.8
35°	553.9	555.1	563.2	564.3	565.5	578.3	578.3	577.1	592.2	591.0	603.7
37.5°	485.5	485.5	493.7	494.8	494.8	506.4	506.4	505.2	518.0	514.5	523.8
40°	419.5	419.5	426.4	428.8	427.6	436.9	436.9	435.7	445.0	440.4	445.0
42.5°	361.6	363.9	368.5	369.7	368.5	376.6	375.5	374.3	381.3	374.3	375.5
45°	316.4	318.7	322.2	323.3	322.2	327.9	326.8	324.5	327.9	321.0	317.5
47.5°	282.8	283.9	289.7	288.5	287.4	292.0	292.0	287.4	288.5	279.3	272.3
50°	257.3	258.4	263.1	263.1	260.7	265.4	263.1	258.4	257.3	246.8	236.4
52.5°	236.4	237.6	242.2	242.2	239.9	243.4	241.0	234.1	232.9	222.5	209.7
55°	216.7	217.9	222.5	222.5	220.2	222.5	219.0	213.2	210.9	199.3	185.4
57.5°	199.3	198.2	201.6	201.6	199.3	200.5	198.2	192.4	187.7	177.3	163.4
60°	177.3	176.1	178.5	178.5	176.1	177.3	175.0	168.0	165.7	155.3	141.4
62.5°	153.0	153.0	155.3	155.3	153.0	153.0	151.8	144.9	142.5	133.3	121.7
65°	130.9	130.9	133.3	133.3	130.9	132.1	129.8	125.2	122.8	114.7	104.3
67.5°	108.9	108.9	110.1	110.1	108.9	108.9	107.8	104.3	100.8	95.0	85.8
70°	85.8	85.8	86.9	86.9	85.8	85.8	85.8	82.3	81.1	75.3	68.4
72.5°	63.7	63.7	64.9	64.9	64.9	66.1	64.9	62.6	60.3	56.8	51.0
75°	45.2	45.2	45.2	46.4	45.2	45.2	46.4	44.0	42.9	39.4	35.9
77.5°	30.1	30.1	30.1	30.1	30.1	31.3	30.1	30.1	29.0	26.7	24.3
80°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	17.4	17.4	15.1
82.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	9.3	8.1
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	907.4	908.5	908.5	912.0	915.5	906.2	910.8	908.5	906.2	915.5	909.7
5°	922.4	923.6	923.6	928.2	932.9	922.4	927.1	925.9	923.6	931.7	925.9
7.5°	934.0	937.5	939.8	945.6	951.4	942.1	947.9	945.6	944.4	952.6	944.4
10°	942.1	949.1	952.6	961.8	969.9	960.7	968.8	966.5	965.3	972.3	963.0
12.5°	951.4	960.7	969.9	980.4	992.0	983.8	994.3	990.8	990.8	996.6	985.0
15°	957.2	968.8	981.5	996.6	1010.5	1004.7	1016.3	1012.8	1012.8	1017.4	1004.7
17.5°	951.4	966.5	981.5	998.9	1015.1	1011.7	1024.4	1020.9	1019.8	1024.4	1009.3
20°	931.7	949.1	966.5	983.8	1002.4	1000.1	1014.0	1008.2	1009.3	1011.7	996.6
22.5°	900.4	918.9	936.3	954.9	972.3	971.1	983.8	980.4	979.2	982.7	966.5
25°	863.3	879.5	895.8	912.0	929.4	927.1	939.8	934.0	935.2	936.3	922.4
27.5°	813.5	828.6	841.3	855.2	871.4	868.0	880.7	878.4	874.9	876.1	864.5
30°	752.1	764.8	774.1	785.7	798.4	795.0	806.5	804.2	801.9	801.9	795.0
32.5°	682.5	691.8	697.6	705.7	715.0	711.5	720.8	718.5	716.2	716.2	711.5
35°	604.9	610.7	610.7	615.3	622.3	616.5	624.6	623.4	620.0	621.1	620.0
37.5°	520.3	522.6	518.0	518.0	522.6	514.5	521.5	521.5	518.0	519.2	519.2
40°	438.0	436.9	427.6	423.0	423.0	414.9	420.7	419.5	417.2	418.3	420.7
42.5°	365.0	358.1	345.3	336.1	333.7	324.5	327.9	326.8	324.5	326.8	330.3
45°	303.6	290.9	273.5	260.7	254.9	245.7	246.8	245.7	244.5	246.8	252.6
47.5°	254.9	237.6	215.5	199.3	191.2	180.8	180.8	179.6	179.6	185.4	188.9
50°	216.7	195.8	170.3	151.8	140.2	130.9	128.6	127.5	128.6	133.3	140.2
52.5°	187.7	162.2	134.4	114.7	102.0	91.5	89.2	88.1	89.2	93.9	100.8
55°	162.2	135.6	106.6	84.6	70.7	61.4	57.9	57.9	57.9	63.7	70.7
57.5°	139.1	112.4	83.4	61.4	48.7	39.4	35.9	34.8	37.1	40.6	47.5
60°	119.4	93.9	66.1	46.4	33.6	25.5	22.0	22.0	22.0	26.7	33.6
62.5°	102.0	78.8	53.3	34.8	24.3	17.4	13.9	13.9	15.1	17.4	24.3
65°	86.9	67.2	45.2	30.1	19.7	13.9	11.6	10.4	11.6	13.9	19.7
67.5°	71.8	55.6	38.2	25.5	17.4	11.6	10.4	9.3	9.3	12.7	16.2
70°	56.8	44.0	31.3	20.9	13.9	9.3	8.1	7.0	8.1	10.4	13.9
72.5°	42.9	33.6	23.2	16.2	10.4	8.1	5.8	5.8	5.8	8.1	10.4
75°	30.1	24.3	17.4	11.6	7.0	4.6	4.6	3.5	4.6	5.8	7.0
77.5°	19.7	16.2	11.6	7.0	4.6	3.5	2.3	2.3	2.3	3.5	4.6
80°	12.7	10.4	7.0	4.6	3.5	2.3	1.2	1.2	1.2	2.3	2.3
82.5°	7.0	5.8	3.5	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2
85°	3.5	2.3	2.3	1.2	1.2	1.2	0.0	1.2	1.2	1.2	1.2
87.5°	1.2	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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	910.8	907.4	912.0	915.5	914.3	910.8	916.6	907.4	910.8	907.4	901.6
5°	927.1	923.6	927.1	929.4	928.2	922.4	927.1	918.9	921.3	916.6	910.8
7.5°	944.4	939.8	941.0	942.1	938.6	930.5	934.0	923.6	924.7	918.9	912.0
10°	960.7	953.7	952.6	950.2	943.3	932.9	934.0	921.3	920.1	912.0	903.9
12.5°	981.5	969.9	965.3	960.7	950.2	936.3	934.0	918.9	916.6	907.4	898.1
15°	996.6	983.8	975.7	966.5	952.6	935.2	930.5	913.2	908.5	898.1	888.8
17.5°	1000.1	983.8	972.3	960.7	944.4	923.6	916.6	898.1	892.3	880.7	871.4
20°	985.0	967.6	954.9	939.8	923.6	899.2	892.3	872.6	865.6	855.2	845.9
22.5°	956.0	936.3	923.6	908.5	892.3	869.1	861.0	842.5	835.5	825.1	815.8
25°	914.3	895.8	883.0	869.1	854.1	830.9	823.9	806.5	800.7	790.3	781.0
27.5°	856.4	839.0	832.0	818.1	804.2	784.5	777.6	762.5	756.7	749.8	739.3
30°	786.8	771.8	768.3	755.6	745.1	727.7	721.9	709.2	703.4	697.6	688.3
32.5°	706.9	695.3	695.3	684.9	677.9	664.0	659.4	648.9	644.3	639.7	631.6
35°	616.5	608.4	613.0	606.1	602.6	593.3	589.8	581.7	578.3	574.8	566.7
37.5°	520.3	514.5	523.8	524.9	524.9	516.8	514.5	509.9	507.6	504.1	497.1
40°	425.3	424.1	438.0	440.4	447.3	442.7	443.8	440.4	438.0	435.7	431.1
42.5°	337.2	341.9	359.2	369.7	376.6	376.6	380.1	378.9	377.8	375.5	372.0
45°	261.9	271.2	292.0	304.8	318.7	322.2	327.9	327.9	329.1	327.9	324.5
47.5°	200.5	214.4	238.7	258.4	273.5	280.4	288.5	290.9	292.0	292.0	289.7
50°	151.8	169.2	197.0	219.0	239.9	249.1	258.4	261.9	266.5	265.4	263.1
52.5°	114.7	134.4	164.6	191.2	213.2	223.7	234.1	238.7	243.4	243.4	242.2
55°	84.6	105.5	137.9	165.7	188.9	201.6	212.1	216.7	222.5	223.7	222.5
57.5°	61.4	82.3	113.6	143.7	165.7	179.6	190.0	194.7	200.5	201.6	201.6
60°	45.2	66.1	96.2	124.0	144.9	158.8	166.9	172.7	177.3	179.6	179.6
62.5°	34.8	53.3	81.1	106.6	125.2	136.7	144.9	149.5	154.1	155.3	156.4
65°	29.0	45.2	68.4	90.4	106.6	117.0	124.0	128.6	132.1	133.3	133.3
67.5°	24.3	38.2	56.8	74.2	88.1	96.2	102.0	105.5	108.9	110.1	110.1
70°	19.7	30.1	45.2	59.1	69.5	76.5	81.1	84.6	86.9	86.9	86.9
72.5°	15.1	23.2	33.6	44.0	52.1	57.9	61.4	62.6	64.9	64.9	64.9
75°	10.4	16.2	24.3	31.3	35.9	40.6	42.9	44.0	45.2	46.4	45.2
77.5°	7.0	10.4	15.1	19.7	24.3	26.7	27.8	29.0	30.1	30.1	30.1
80°	4.6	7.0	9.3	12.7	15.1	16.2	17.4	17.4	18.5	18.5	18.5
82.5°	2.3	3.5	5.8	7.0	8.1	9.3	9.3	9.3	10.4	10.4	9.3
85°	1.2	1.2	2.3	3.5	3.5	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	0.0	0.0	0.0	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



TEST NUMBER: P136512

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW121LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	908.5	908.5	908.5	908.5
2.5°	903.9	906.2	896.9	908.5
5°	912.0	914.3	905.0	916.6
7.5°	913.2	914.3	905.0	916.6
10°	905.0	905.0	895.8	907.4
12.5°	898.1	896.9	886.5	898.1
15°	887.7	886.5	876.1	887.7
17.5°	870.3	869.1	858.7	869.1
20°	843.6	842.5	833.2	843.6
22.5°	814.7	812.3	803.1	812.3
25°	781.0	778.7	769.5	777.6
27.5°	738.2	735.9	726.6	734.7
30°	687.2	683.7	676.8	682.5
32.5°	629.2	626.9	618.8	625.8
35°	565.5	562.0	556.2	562.0
37.5°	496.0	493.7	487.9	491.3
40°	428.8	427.6	423.0	425.3
42.5°	370.8	368.5	365.0	367.3
45°	324.5	323.3	319.8	322.2
47.5°	289.7	288.5	285.1	287.4
50°	264.2	263.1	260.7	261.9
52.5°	243.4	242.2	239.9	243.4
55°	224.8	223.7	220.2	223.7
57.5°	204.0	202.8	199.3	204.0
60°	180.8	180.8	177.3	181.9
62.5°	157.6	157.6	155.3	158.8
65°	135.6	134.4	133.3	135.6
67.5°	111.2	110.1	110.1	112.4
70°	88.1	86.9	86.9	89.2
72.5°	66.1	64.9	64.9	66.1
75°	46.4	45.2	45.2	46.4
77.5°	30.1	30.1	30.1	30.1
80°	18.5	18.5	18.5	18.5
82.5°	10.4	10.4	9.3	10.4
85°	4.6	4.6	4.6	4.6
87.5°	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)