

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: P252139

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252139
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: LD6B10D010 EU6B10209727 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 966.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

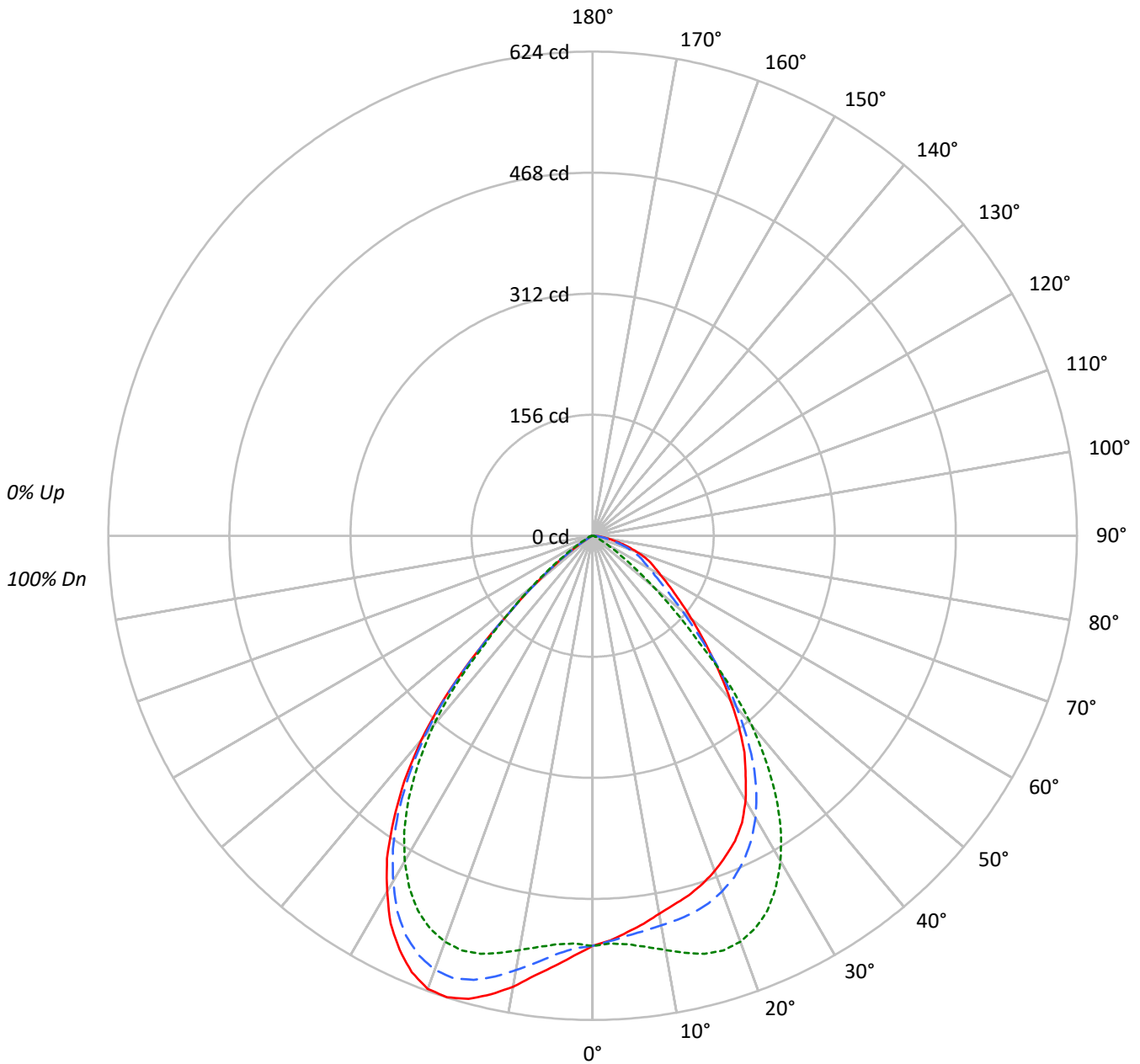
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

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	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°	34480	34480	34480
5°	33583	34611	36432
10°	32766	35913	39092
15°	32386	37675	41734
20°	31923	38657	43142
25°	31242	38368	42370
30°	29689	36461	39889
35°	27159	32877	35609
40°	23497	27151	29220
45°	19809	17807	19108
50°	16818	10312	9693
55°	14593	4948	3731
60°	13179	2310	926
65°	12797	1328	309
70°	11464	1068	286
75°	9427	756	126
80°	7026	376	0
85°	6063	0	0



TEST NUMBER: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	5.3
10°-20°	155.6	16.1
20°-30°	237.7	24.6
30°-40°	248.6	25.7
40°-50°	161.3	16.7
50°-60°	64.0	6.6
60°-70°	30.4	3.1
70°-80°	14.4	1.5
80°-90°	2.9	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°	444.3	46.0
0°-40°	692.9	71.7
0°-60°	918.2	95.1
0°-90°	966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	528	528	528	528	528	
5°	513	517	528	542	556	48
15°	480	503	558	593	618	135
25°	434	461	533	569	589	199
35°	341	362	413	437	447	211
45°	215	213	193	205	207	167
55°	128	109	44	34	33	116
65°	83	69	9	2	2	81
75°	37	30	3	1	0	40
85°	8	5	0	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	521.9	522.9	517.4	515.8	519.9	521.4	521.9	520.4	520.9	522.9	522.9
5°	512.8	513.8	508.8	507.3	511.3	512.3	513.8	513.3	514.8	517.9	517.4
7.5°	504.2	505.7	500.2	498.2	503.2	505.7	506.8	506.8	508.8	512.8	513.3
10°	494.6	496.6	491.6	490.6	496.1	498.7	499.2	500.2	503.2	508.8	509.8
12.5°	486.5	488.6	485.0	483.5	489.6	492.1	493.1	495.1	498.7	505.7	506.8
15°	479.5	481.0	476.9	475.9	482.0	485.0	485.5	488.6	493.1	501.2	502.7
17.5°	470.4	471.4	468.4	467.3	473.4	476.4	476.9	480.5	486.0	494.1	496.6
20°	459.8	460.8	457.7	456.7	462.8	466.3	466.8	469.9	476.4	485.0	487.6
22.5°	447.1	449.2	445.6	444.6	450.7	453.7	455.2	457.7	464.3	472.9	476.4
25°	434.0	434.0	431.5	431.0	436.5	440.1	439.6	443.1	449.7	458.3	461.3
27.5°	416.8	416.3	413.8	413.3	419.3	422.4	421.4	424.9	431.0	439.6	442.6
30°	394.1	395.1	391.6	390.5	395.6	400.7	400.1	403.7	409.7	417.8	419.9
32.5°	366.8	367.8	367.3	365.8	370.3	372.9	374.4	376.9	382.0	390.5	392.6
35°	341.0	339.5	337.5	337.5	342.0	346.1	344.6	347.6	352.7	361.2	361.7
37.5°	309.2	308.7	307.7	306.7	311.7	312.7	313.2	315.3	319.8	326.9	325.9
40°	275.9	276.4	275.9	273.8	276.9	280.9	280.4	281.4	285.5	290.5	289.0
42.5°	244.5	244.5	244.5	242.5	246.1	248.1	249.1	248.6	249.6	254.1	252.1
45°	214.7	215.2	214.7	214.2	214.7	215.7	214.7	214.2	214.2	215.7	212.7
47.5°	189.0	189.0	187.4	185.9	187.4	187.9	186.4	184.9	184.4	183.9	178.9
50°	165.7	165.2	164.7	162.2	163.7	164.2	162.2	161.2	159.1	156.6	150.6
52.5°	145.5	145.0	144.5	142.0	143.0	143.5	141.5	139.4	136.9	134.9	127.3
55°	128.3	127.8	127.8	126.3	125.3	126.3	124.3	122.8	119.2	116.7	109.1
57.5°	113.7	113.7	112.7	111.2	111.7	111.7	109.6	107.6	104.6	101.6	95.5
60°	101.0	101.0	101.0	99.5	99.5	99.5	98.5	96.5	94.0	90.9	84.9
62.5°	90.9	90.9	90.4	88.9	89.4	89.4	88.4	86.4	83.9	81.8	75.8
65°	82.9	82.9	82.9	81.3	81.3	81.8	80.8	78.8	76.8	74.3	68.7
67.5°	72.8	72.2	72.2	71.2	71.7	72.2	71.2	69.7	67.2	65.7	60.6
70°	60.1	60.6	61.1	59.6	60.1	60.1	59.6	58.1	56.6	55.1	50.5
72.5°	49.0	49.0	48.5	48.0	48.0	48.5	47.5	46.0	45.0	44.0	40.4
75°	37.4	36.9	37.4	36.4	36.4	36.4	35.4	34.9	34.4	32.8	30.3
77.5°	27.3	26.8	26.8	25.8	26.3	26.3	25.8	24.8	23.7	23.2	21.2
80°	18.7	18.7	18.7	18.2	18.2	17.7	17.7	17.2	16.2	15.7	14.7
82.5°	12.6	12.6	12.6	12.1	12.1	12.1	11.6	11.1	10.6	10.1	9.1
85°	8.1	8.1	8.1	7.6	7.6	7.6	7.1	7.1	6.6	6.1	5.1
87.5°	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.5
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: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	526.5	519.4	523.9	523.9	522.4	526.5	529.0	531.0	530.5	526.0	525.4
5°	522.4	516.4	521.4	521.9	520.4	526.0	529.5	532.0	532.5	528.5	529.0
7.5°	519.4	514.3	520.9	522.9	522.4	527.5	531.5	535.6	537.6	534.5	535.0
10°	517.9	513.8	520.9	523.9	524.4	530.0	536.1	541.6	544.1	542.1	543.6
12.5°	515.8	513.3	521.4	526.0	528.0	533.5	541.1	547.7	551.7	550.7	553.7
15°	513.8	511.8	521.4	528.0	530.5	535.6	544.1	553.7	558.3	557.8	561.8
17.5°	508.8	508.3	518.4	525.4	529.0	535.0	543.1	554.8	559.3	560.3	565.4
20°	500.7	500.7	511.8	519.4	523.4	529.0	539.1	550.2	555.8	556.8	562.3
22.5°	489.6	490.6	501.2	508.8	514.8	518.9	529.5	541.1	546.2	547.7	553.7
25°	474.9	475.9	486.0	493.6	500.2	504.7	514.8	525.4	531.5	533.0	537.6
27.5°	455.7	457.7	467.3	474.9	480.5	483.5	494.1	505.2	509.8	511.3	515.8
30°	433.5	434.0	443.6	450.2	455.7	458.3	467.3	479.0	482.5	484.0	490.6
32.5°	406.2	405.7	414.8	420.9	425.4	428.4	438.0	445.6	449.2	451.7	455.2
35°	373.4	372.9	379.4	386.5	390.0	391.1	400.7	408.7	410.8	412.8	417.3
37.5°	336.5	336.5	342.0	345.6	349.6	351.1	355.7	364.8	368.3	367.8	371.3
40°	297.6	295.6	299.6	303.1	304.2	304.7	309.2	316.3	318.8	318.8	321.3
42.5°	256.7	253.6	254.1	256.2	257.2	253.6	256.7	261.2	259.7	261.7	262.2
45°	213.2	208.7	206.6	202.1	203.1	199.6	197.5	198.6	198.1	193.0	194.0
47.5°	177.8	169.8	166.2	159.7	158.1	154.1	151.6	147.0	143.0	143.0	140.5
50°	148.0	140.0	132.9	125.3	122.8	119.2	113.7	107.6	104.6	101.6	99.0
52.5°	124.3	115.7	107.1	99.0	95.5	90.9	83.4	77.3	71.7	68.7	65.7
55°	105.1	95.5	86.4	77.8	73.3	68.7	61.1	54.1	47.5	43.5	40.9
57.5°	90.4	81.3	71.7	62.6	58.6	53.6	45.5	37.9	31.8	27.3	24.8
60°	79.8	70.7	62.1	52.5	48.5	43.5	34.9	27.8	21.7	17.7	14.7
62.5°	70.7	62.6	53.6	45.0	40.9	35.9	27.8	20.7	15.2	11.1	8.6
65°	64.2	56.1	48.5	39.9	36.4	31.3	23.7	17.2	12.1	8.6	6.1
67.5°	56.6	49.5	41.9	34.9	31.3	27.3	20.2	14.7	10.1	7.1	5.1
70°	47.5	41.9	35.4	28.8	26.3	22.7	16.7	12.1	8.1	5.6	4.0
72.5°	37.9	33.3	28.3	23.2	21.2	17.7	13.6	9.6	6.1	4.0	3.0
75°	28.8	25.3	21.2	17.7	15.7	13.6	10.1	7.1	4.5	3.0	2.0
77.5°	19.7	18.2	15.2	12.1	11.1	9.6	6.6	4.5	3.0	2.0	1.0
80°	13.6	12.1	10.1	8.1	7.1	6.1	4.0	3.0	1.5	1.0	0.5
82.5°	8.6	7.1	6.1	5.1	4.5	3.5	2.5	1.5	1.0	0.5	0.5
85°	4.5	4.0	3.5	2.5	2.5	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.5	2.0	1.5	1.0	1.0	0.5	0.5	0.5	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: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	531.5	531.5	531.0	537.1	530.0	537.1	533.5	537.1	532.0	531.5	532.0
5°	535.6	537.1	537.6	543.1	536.6	545.2	542.1	545.2	541.6	542.6	544.1
7.5°	543.6	546.2	545.7	552.7	546.2	555.8	553.7	558.3	554.8	555.8	557.8
10°	552.7	555.8	556.3	563.3	557.3	568.9	566.4	571.4	568.4	569.9	572.4
12.5°	563.3	566.9	567.4	575.5	568.9	581.0	579.5	584.6	582.0	583.5	586.6
15°	571.4	576.5	577.5	585.6	578.5	591.1	590.1	596.7	592.6	595.2	597.7
17.5°	575.5	580.0	582.0	589.6	583.5	596.2	595.2	600.7	597.7	600.2	603.3
20°	572.9	578.5	580.0	587.6	581.5	594.2	592.6	598.2	595.2	597.2	600.2
22.5°	563.8	569.4	571.4	578.5	572.9	584.6	584.1	589.1	585.1	587.6	590.1
25°	547.7	553.7	554.8	561.3	555.3	567.4	566.4	571.9	568.9	570.4	573.9
27.5°	524.4	531.5	533.0	538.6	534.0	544.1	544.1	548.7	545.2	545.2	548.7
30°	496.6	503.7	504.7	509.3	505.2	514.3	514.8	519.4	513.8	516.9	517.4
32.5°	462.8	467.3	470.4	474.4	468.4	480.0	478.5	482.0	479.0	479.0	481.5
35°	421.9	427.4	428.9	434.0	428.9	438.0	438.0	440.1	437.0	437.0	441.1
37.5°	377.4	381.5	382.0	387.0	383.0	390.5	390.0	391.6	388.5	390.5	390.5
40°	325.4	328.4	329.4	331.9	331.4	337.0	336.5	337.5	336.0	336.5	337.5
42.5°	264.7	268.8	270.8	272.8	269.8	277.4	275.9	277.4	276.9	277.4	278.9
45°	195.0	198.1	199.6	200.1	199.1	203.6	207.1	204.1	204.6	203.6	205.6
47.5°	141.0	141.5	140.5	143.5	141.0	143.0	144.0	144.5	141.5	141.0	143.0
50°	96.5	99.0	95.5	97.0	96.5	98.5	97.5	98.0	95.0	96.5	95.5
52.5°	64.2	63.7	62.6	63.2	62.1	62.1	62.1	63.2	61.1	60.1	59.1
55°	38.9	37.9	35.9	35.4	35.4	35.9	34.9	33.9	33.9	33.3	33.3
57.5°	22.7	21.2	20.2	19.7	18.7	18.2	17.7	17.7	16.7	16.7	16.7
60°	12.6	11.1	10.1	9.1	9.1	8.6	8.1	7.6	7.6	7.6	7.1
62.5°	6.6	5.6	4.5	4.0	4.0	3.5	3.0	3.0	3.0	3.0	2.5
65°	4.5	3.5	3.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	3.5	3.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
70°	3.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P252139

CATALOG NUMBER: LD6B10D010 EU6B10209727 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	536.6	536.1	536.6	537.6	535.6	541.6	538.6	541.6
5°	548.2	548.7	549.2	550.7	548.2	555.8	551.7	556.3
7.5°	563.3	563.8	564.4	565.9	564.4	571.9	567.4	571.4
10°	579.0	580.0	580.0	582.5	581.0	588.1	585.1	590.1
12.5°	593.7	594.7	595.7	597.2	596.2	603.8	601.2	605.3
15°	605.3	607.3	607.8	609.8	608.8	616.9	613.9	617.9
17.5°	610.8	612.9	612.9	615.4	614.4	623.0	618.9	623.5
20°	607.8	609.3	609.8	612.3	611.3	619.9	615.9	621.4
22.5°	598.2	598.7	599.2	601.7	601.2	608.8	605.3	608.8
25°	580.5	582.0	581.5	583.5	583.5	589.6	585.6	588.6
27.5°	555.3	556.8	556.8	559.3	557.3	563.3	559.3	563.8
30°	524.4	526.0	524.9	527.0	524.9	531.0	528.0	529.5
32.5°	487.6	487.6	488.1	488.6	487.6	493.1	490.1	493.1
35°	443.6	444.6	445.1	445.6	444.6	448.7	445.1	447.1
37.5°	394.1	396.6	396.1	396.6	395.1	400.1	397.1	398.1
40°	341.0	341.0	340.5	341.5	340.0	344.1	342.0	343.1
42.5°	279.4	280.9	278.9	281.4	277.4	282.9	280.9	279.4
45°	209.7	207.7	207.1	207.7	206.1	206.6	208.2	207.1
47.5°	143.0	143.0	142.0	140.5	142.5	143.0	141.0	141.0
50°	96.0	96.0	95.0	94.5	95.5	95.0	94.0	95.5
52.5°	61.1	59.1	59.1	60.1	59.1	58.1	59.6	58.6
55°	33.3	32.3	32.3	33.3	32.3	32.3	31.8	32.8
57.5°	16.2	16.7	16.2	16.2	16.2	16.2	15.7	16.2
60°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
62.5°	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.5	1.5	1.5	1.5	1.5	2.0	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
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)