

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: P252133

Luminaire Tested: **LD6B10D010 EU6B10209024 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252133
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 EU6B10209024 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 977.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

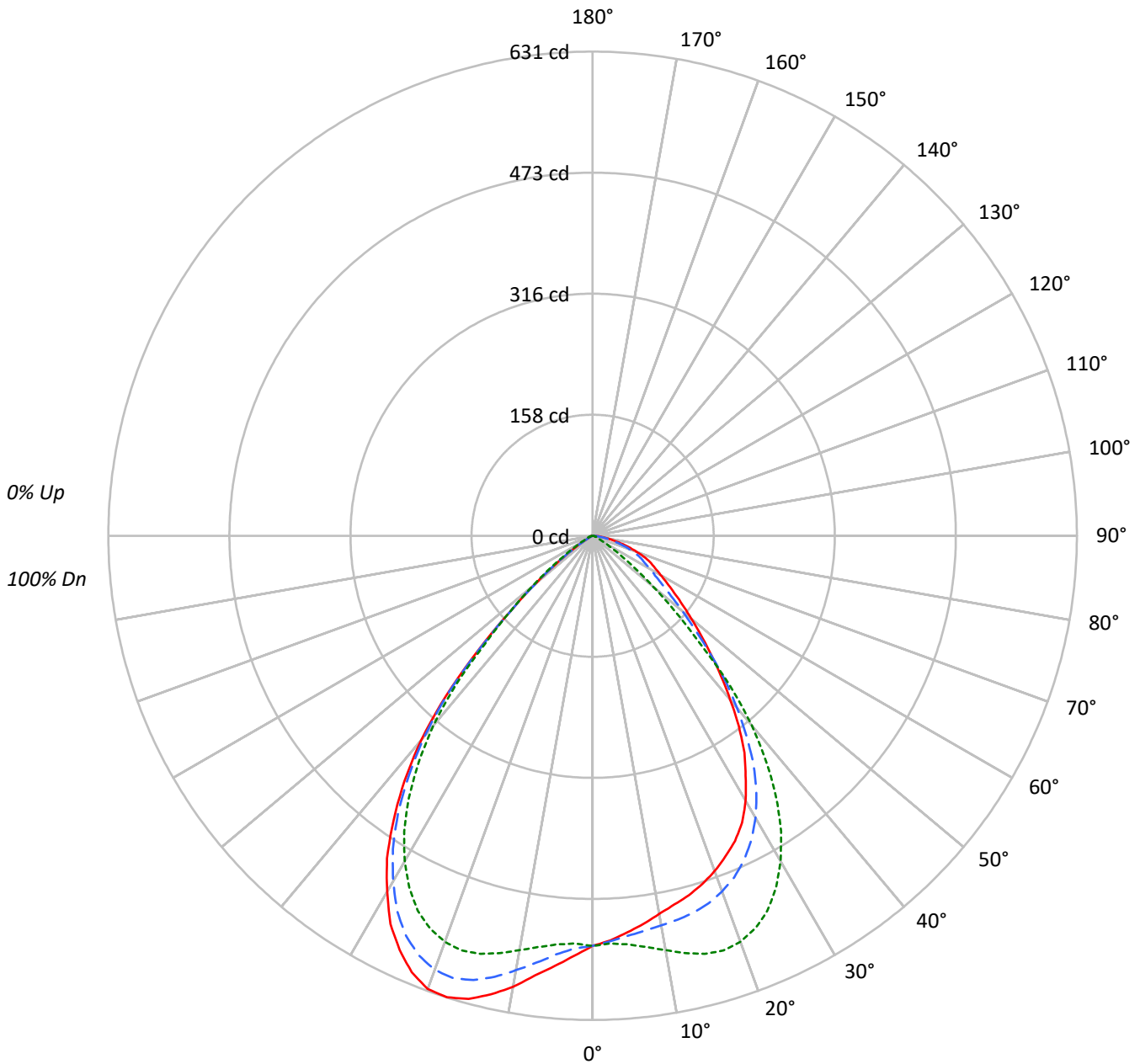
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34871	34871	34871
5°	33970	35004	36845
10°	33143	36323	39536
15°	32751	38100	42207
20°	32284	39095	43635
25°	31594	38807	42853
30°	30028	36876	40341
35°	27469	33251	36015
40°	23761	27457	29552
45°	20040	18010	19329
50°	17011	10424	9805
55°	14764	4993	3776
60°	13335	2336	939
65°	12936	1343	309
70°	11598	1068	286
75°	9528	781	126
80°	7101	376	0
85°	6138	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	5.3
10°-20°	157.3	16.1
20°-30°	240.4	24.6
30°-40°	251.4	25.7
40°-50°	163.1	16.7
50°-60°	64.8	6.6
60°-70°	30.7	3.1
70°-80°	14.6	1.5
80°-90°	3.0	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°	449.4	46.0
0°-40°	700.8	71.7
0°-60°	928.7	95.1
0°-90°	977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	519	523	534	548	563	49
15°	485	508	564	599	625	137
25°	439	466	539	575	595	201
35°	345	366	418	442	452	213
45°	217	215	195	207	210	169
55°	130	110	44	34	33	118
65°	84	70	9	2	2	82
75°	38	31	3	1	0	41
85°	8	5	0	0	0	10
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°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
2.5°	527.9	528.9	523.3	521.7	525.8	527.3	527.9	526.3	526.8	528.9	528.9
5°	518.7	519.7	514.6	513.0	517.1	518.1	519.7	519.2	520.7	523.8	523.3
7.5°	510.0	511.5	505.9	503.8	508.9	511.5	512.5	512.5	514.6	518.7	519.2
10°	500.3	502.3	497.2	496.2	501.8	504.3	504.9	505.9	508.9	514.6	515.6
12.5°	492.1	494.1	490.6	489.0	495.1	497.7	498.7	500.8	504.3	511.5	512.5
15°	484.9	486.5	482.4	481.4	487.5	490.6	491.1	494.1	498.7	506.9	508.4
17.5°	475.7	476.8	473.7	472.7	478.8	481.9	482.4	486.0	491.6	499.7	502.3
20°	465.0	466.0	463.0	461.9	468.1	471.6	472.2	475.2	481.9	490.6	493.1
22.5°	452.2	454.3	450.7	449.7	455.8	458.9	460.4	463.0	469.6	478.3	481.9
25°	438.9	438.9	436.4	435.9	441.5	445.1	444.6	448.1	454.8	463.5	466.5
27.5°	421.6	421.1	418.5	418.0	424.1	427.2	426.2	429.7	435.9	444.6	447.6
30°	398.6	399.6	396.0	395.0	400.1	405.2	404.7	408.3	414.4	422.6	424.6
32.5°	371.0	372.0	371.5	370.0	374.6	377.1	378.6	381.2	386.3	395.0	397.0
35°	344.9	343.4	341.3	341.3	345.9	350.0	348.5	351.6	356.7	365.4	365.9
37.5°	312.7	312.2	311.2	310.2	315.3	316.3	316.8	318.9	323.5	330.6	329.6
40°	279.0	279.5	279.0	277.0	280.0	284.1	283.6	284.6	288.7	293.8	292.3
42.5°	247.3	247.3	247.3	245.3	248.9	250.9	251.9	251.4	252.4	257.0	255.0
45°	217.2	217.7	217.2	216.7	217.2	218.2	217.2	216.7	216.7	218.2	215.1
47.5°	191.1	191.1	189.6	188.0	189.6	190.1	188.6	187.0	186.5	186.0	180.9
50°	167.6	167.1	166.6	164.0	165.6	166.1	164.0	163.0	161.0	158.4	152.3
52.5°	147.2	146.7	146.1	143.6	144.6	145.1	143.1	141.0	138.5	136.4	128.8
55°	129.8	129.3	129.3	127.7	126.7	127.7	125.7	124.2	120.6	118.0	110.4
57.5°	115.0	115.0	114.0	112.4	112.9	112.9	110.9	108.8	105.8	102.7	96.6
60°	102.2	102.2	102.2	100.7	100.7	100.7	99.6	97.6	95.0	92.0	85.8
62.5°	92.0	92.0	91.5	89.9	90.4	90.4	89.4	87.4	84.8	82.8	76.6
65°	83.8	83.8	83.8	82.3	82.3	82.8	81.8	79.7	77.7	75.1	69.5
67.5°	73.6	73.1	73.1	72.0	72.6	73.1	72.0	70.5	68.0	66.4	61.3
70°	60.8	61.3	61.8	60.3	60.8	60.8	60.3	58.8	57.2	55.7	51.1
72.5°	49.6	49.6	49.1	48.5	48.5	49.1	48.0	46.5	45.5	44.5	40.9
75°	37.8	37.3	37.8	36.8	36.8	36.8	35.8	35.3	34.7	33.2	30.7
77.5°	27.6	27.1	27.1	26.1	26.6	26.6	26.1	25.0	24.0	23.5	21.5
80°	18.9	18.9	18.9	18.4	18.4	17.9	17.9	17.4	16.4	15.8	14.8
82.5°	12.8	12.8	12.8	12.3	12.3	12.3	11.8	11.2	10.7	10.2	9.2
85°	8.2	8.2	8.2	7.7	7.7	7.7	7.2	7.2	6.6	6.1	5.1
87.5°	4.6	4.6	4.6	4.1	4.1	4.1	4.1	4.1	3.6	3.1	2.6
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°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
2.5°	532.5	525.3	529.9	529.9	528.4	532.5	535.0	537.1	536.5	531.9	531.4
5°	528.4	522.2	527.3	527.9	526.3	531.9	535.5	538.1	538.6	534.5	535.0
7.5°	525.3	520.2	526.8	528.9	528.4	533.5	537.6	541.6	543.7	540.6	541.1
10°	523.8	519.7	526.8	529.9	530.4	536.0	542.2	547.8	550.3	548.3	549.8
12.5°	521.7	519.2	527.3	531.9	534.0	539.6	547.3	553.9	558.0	557.0	560.0
15°	519.7	517.6	527.3	534.0	536.5	541.6	550.3	560.0	564.6	564.1	568.2
17.5°	514.6	514.1	524.3	531.4	535.0	541.1	549.3	561.1	565.7	566.7	571.8
20°	506.4	506.4	517.6	525.3	529.4	535.0	545.2	556.5	562.1	563.1	568.7
22.5°	495.1	496.2	506.9	514.6	520.7	524.8	535.5	547.3	552.4	553.9	560.0
25°	480.3	481.4	491.6	499.2	505.9	510.5	520.7	531.4	537.6	539.1	543.7
27.5°	460.9	463.0	472.7	480.3	486.0	489.0	499.7	511.0	515.6	517.1	521.7
30°	438.4	438.9	448.6	455.3	460.9	463.5	472.7	484.4	488.0	489.5	496.2
32.5°	410.8	410.3	419.5	425.7	430.3	433.3	443.0	450.7	454.3	456.8	460.4
35°	377.6	377.1	383.8	390.9	394.5	395.5	405.2	413.4	415.4	417.5	422.1
37.5°	340.3	340.3	345.9	349.5	353.6	355.1	359.7	368.9	372.5	372.0	375.6
40°	301.0	298.9	303.0	306.6	307.6	308.1	312.7	319.9	322.4	322.4	325.0
42.5°	259.6	256.5	257.0	259.1	260.1	256.5	259.6	264.2	262.6	264.7	265.2
45°	215.6	211.0	209.0	204.4	205.4	201.8	199.8	200.8	200.3	195.2	196.2
47.5°	179.9	171.7	168.1	161.5	159.9	155.9	153.3	148.7	144.6	144.6	142.1
50°	149.7	141.5	134.4	126.7	124.2	120.6	115.0	108.8	105.8	102.7	100.2
52.5°	125.7	117.0	108.3	100.2	96.6	92.0	84.3	78.2	72.6	69.5	66.4
55°	106.3	96.6	87.4	78.7	74.1	69.5	61.8	54.7	48.0	43.9	41.4
57.5°	91.5	82.3	72.6	63.4	59.3	54.2	46.0	38.3	32.2	27.6	25.0
60°	80.7	71.5	62.9	53.1	49.1	43.9	35.3	28.1	22.0	17.9	14.8
62.5°	71.5	63.4	54.2	45.5	41.4	36.3	28.1	21.0	15.3	11.2	8.7
65°	64.9	56.7	49.1	40.4	36.8	31.7	24.0	17.4	12.3	8.7	6.1
67.5°	57.2	50.1	42.4	35.3	31.7	27.6	20.4	14.8	10.2	7.2	5.1
70°	48.0	42.4	35.8	29.1	26.6	23.0	16.9	12.3	8.2	5.6	4.1
72.5°	38.3	33.7	28.6	23.5	21.5	17.9	13.8	9.7	6.1	4.1	3.1
75°	29.1	25.5	21.5	17.9	15.8	13.8	10.2	7.2	4.6	3.1	2.0
77.5°	19.9	18.4	15.3	12.3	11.2	9.7	6.6	4.6	3.1	2.0	1.0
80°	13.8	12.3	10.2	8.2	7.2	6.1	4.1	3.1	1.5	1.0	0.5
82.5°	8.7	7.2	6.1	5.1	4.6	3.6	2.6	1.5	1.0	0.5	0.5
85°	4.6	4.1	3.6	2.6	2.6	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
2.5°	537.6	537.6	537.1	543.2	536.0	543.2	539.6	543.2	538.1	537.6	538.1
5°	541.6	543.2	543.7	549.3	542.7	551.4	548.3	551.4	547.8	548.8	550.3
7.5°	549.8	552.4	551.9	559.0	552.4	562.1	560.0	564.6	561.1	562.1	564.1
10°	559.0	562.1	562.6	569.8	563.6	575.4	572.8	577.9	574.9	576.4	579.0
12.5°	569.8	573.3	573.8	582.0	575.4	587.6	586.1	591.2	588.7	590.2	593.3
15°	577.9	583.0	584.1	592.2	585.1	597.9	596.8	603.5	599.4	601.9	604.5
17.5°	582.0	586.6	588.7	596.3	590.2	603.0	601.9	607.6	604.5	607.1	610.1
20°	579.5	585.1	586.6	594.3	588.2	600.9	599.4	605.0	601.9	604.0	607.1
22.5°	570.3	575.9	577.9	585.1	579.5	591.2	590.7	595.8	591.7	594.3	596.8
25°	553.9	560.0	561.1	567.7	561.6	573.8	572.8	578.4	575.4	576.9	580.5
27.5°	530.4	537.6	539.1	544.7	540.1	550.3	550.3	554.9	551.4	551.4	554.9
30°	502.3	509.5	510.5	515.1	511.0	520.2	520.7	525.3	519.7	522.7	523.3
32.5°	468.1	472.7	475.7	479.8	473.7	485.4	483.9	487.5	484.4	484.4	487.0
35°	426.7	432.3	433.8	438.9	433.8	443.0	443.0	445.1	442.0	442.0	446.1
37.5°	381.7	385.8	386.3	391.4	387.3	395.0	394.5	396.0	393.0	395.0	395.0
40°	329.1	332.1	333.2	335.7	335.2	340.8	340.3	341.3	339.8	340.3	341.3
42.5°	267.8	271.8	273.9	275.9	272.9	280.5	279.0	280.5	280.0	280.5	282.1
45°	197.2	200.3	201.8	202.4	201.3	205.9	209.5	206.4	207.0	205.9	208.0
47.5°	142.6	143.1	142.1	145.1	142.6	144.6	145.6	146.1	143.1	142.6	144.6
50°	97.6	100.2	96.6	98.1	97.6	99.6	98.6	99.1	96.1	97.6	96.6
52.5°	64.9	64.4	63.4	63.9	62.9	62.9	62.9	63.9	61.8	60.8	59.8
55°	39.3	38.3	36.3	35.8	35.8	36.3	35.3	34.2	34.2	33.7	33.7
57.5°	23.0	21.5	20.4	19.9	18.9	18.4	17.9	17.9	16.9	16.9	16.9
60°	12.8	11.2	10.2	9.2	9.2	8.7	8.2	7.7	7.7	7.7	7.2
62.5°	6.6	5.6	4.6	4.1	4.1	3.6	3.1	3.1	3.1	3.1	2.6
65°	4.6	3.6	3.1	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	3.6	3.1	2.6	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
70°	3.1	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
2.5°	542.7	542.2	542.7	543.7	541.6	547.8	544.7	547.8
5°	554.4	554.9	555.4	557.0	554.4	562.1	558.0	562.6
7.5°	569.8	570.3	570.8	572.3	570.8	578.4	573.8	577.9
10°	585.6	586.6	586.6	589.2	587.6	594.8	591.7	596.8
12.5°	600.4	601.4	602.5	604.0	603.0	610.6	608.1	612.2
15°	612.2	614.2	614.7	616.8	615.7	623.9	620.9	624.9
17.5°	617.8	619.8	619.8	622.4	621.4	630.1	626.0	630.6
20°	614.7	616.3	616.8	619.3	618.3	627.0	622.9	628.5
22.5°	605.0	605.5	606.0	608.6	608.1	615.7	612.2	615.7
25°	587.1	588.7	588.2	590.2	590.2	596.3	592.2	595.3
27.5°	561.6	563.1	563.1	565.7	563.6	569.8	565.7	570.3
30°	530.4	531.9	530.9	533.0	530.9	537.1	534.0	535.5
32.5°	493.1	493.1	493.6	494.1	493.1	498.7	495.7	498.7
35°	448.6	449.7	450.2	450.7	449.7	453.8	450.2	452.2
37.5°	398.6	401.1	400.6	401.1	399.6	404.7	401.6	402.7
40°	344.9	344.9	344.4	345.4	343.9	348.0	345.9	347.0
42.5°	282.6	284.1	282.1	284.6	280.5	286.2	284.1	282.6
45°	212.1	210.0	209.5	210.0	208.5	209.0	210.5	209.5
47.5°	144.6	144.6	143.6	142.1	144.1	144.6	142.6	142.6
50°	97.1	97.1	96.1	95.6	96.6	96.1	95.0	96.6
52.5°	61.8	59.8	59.8	60.8	59.8	58.8	60.3	59.3
55°	33.7	32.7	32.7	33.7	32.7	32.7	32.2	33.2
57.5°	16.4	16.9	16.4	16.4	16.4	16.4	15.8	16.4
60°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
62.5°	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6
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)