

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: P252476

Luminaire Tested: **LD6B20D010 EU6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10209050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1508.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

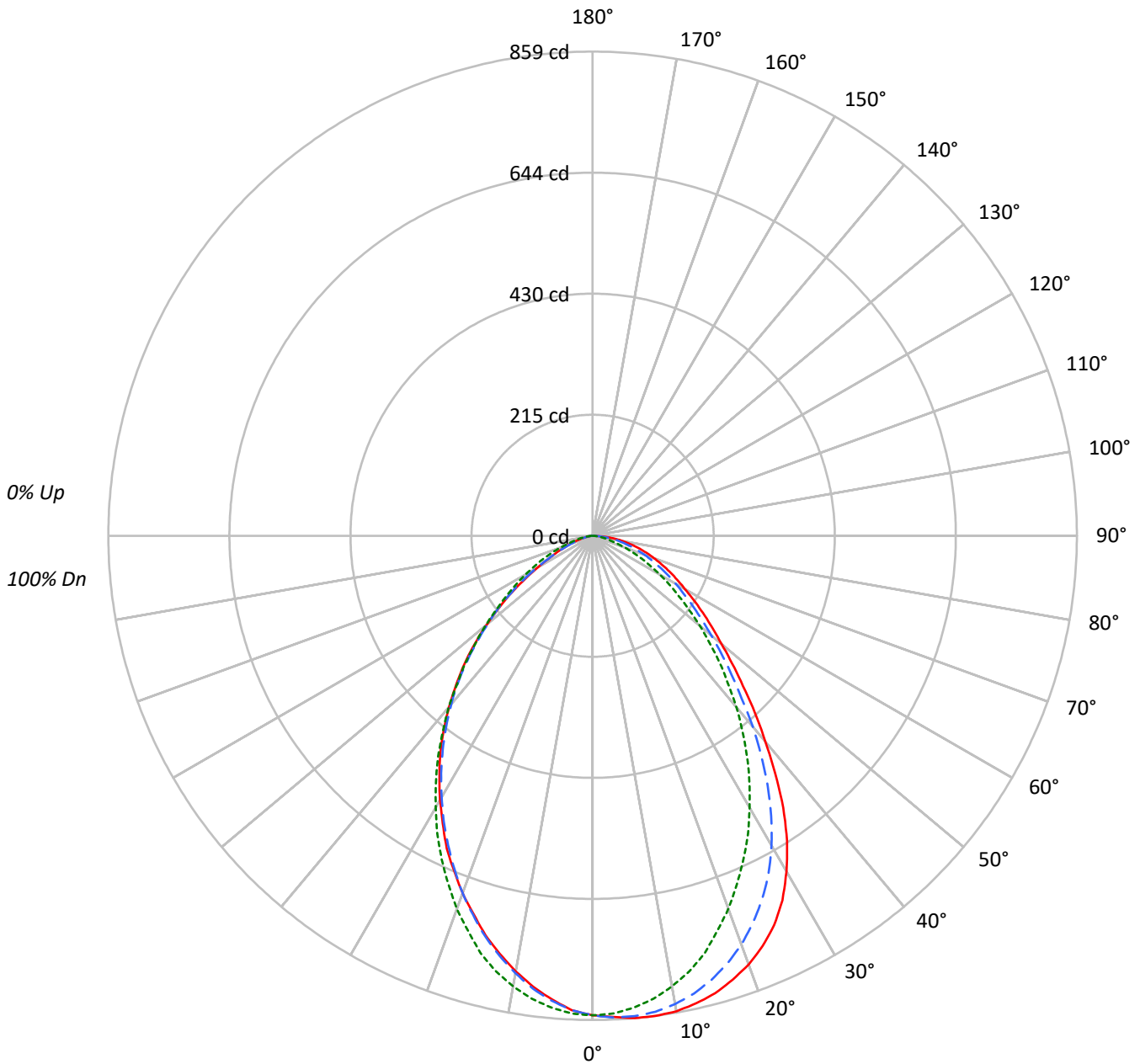
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59					59			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53					53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47					47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43					43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35					35			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55500	55500	55500
5°	56256	55018	54088
10°	56747	53773	51977
15°	56742	51791	49562
20°	56195	48891	46843
25°	54860	45588	44062
30°	51807	41923	40770
35°	46958	38022	37544
40°	40556	33811	33709
45°	34774	29432	29654
50°	30226	25181	24826
55°	27151	21236	19894
60°	24674	17889	14640
65°	23171	14773	10760
70°	22089	11502	7897
75°	21149	8344	5369
80°	19988	5786	3569
85°	17666	3518	1797



TEST NUMBER: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	5.3
10°-20°	218.0	14.5
20°-30°	302.6	20.1
30°-40°	313.4	20.8
40°-50°	257.5	17.1
50°-60°	177.0	11.7
60°-70°	101.8	6.7
70°-80°	46.8	3.1
80°-90°	11.4	0.8
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°	600.1	39.8
0°-40°	913.5	60.6
0°-60°	1348.1	89.4
0°-90°	1508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	851	851	851	851	851	
5°	859	856	840	828	826	82
15°	840	815	767	736	734	237
25°	762	711	633	606	612	349
35°	590	541	477	463	471	366
45°	377	349	319	316	321	294
55°	239	216	187	176	175	215
65°	150	131	96	67	70	149
75°	84	66	33	21	21	89
85°	24	16	5	2	2	27
90°	0	0	0	0	0	



TEST NUMBER: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7
2.5°	854.3	861.4	856.6	855.5	857.8	857.8	857.8	854.3	856.6	853.1	855.5
5°	859.0	864.9	860.2	857.8	860.2	861.4	857.8	855.5	859.0	854.3	855.5
7.5°	859.0	864.9	860.2	859.0	860.2	860.2	859.0	854.3	856.6	851.9	851.9
10°	856.6	861.4	856.6	854.3	855.5	854.3	854.3	848.4	849.6	843.6	843.6
12.5°	849.6	855.5	849.6	847.2	847.2	847.2	843.6	838.9	840.1	833.0	831.8
15°	840.1	844.8	838.9	836.6	836.6	835.4	833.0	825.9	825.9	818.8	815.3
17.5°	825.9	830.6	825.9	822.4	821.2	818.8	816.5	809.4	807.0	798.7	795.2
20°	809.4	812.9	808.2	804.7	802.3	799.9	795.2	788.1	785.7	777.5	771.6
22.5°	788.1	792.8	785.7	782.2	779.8	776.3	771.6	764.5	760.9	750.3	743.2
25°	762.1	764.5	758.6	755.0	750.3	747.9	744.4	734.9	731.4	719.6	711.3
27.5°	729.0	731.4	724.3	721.9	716.0	713.7	708.9	700.7	695.9	684.1	675.9
30°	687.7	690.0	685.3	681.8	677.0	672.3	668.8	660.5	653.4	641.6	634.5
32.5°	641.6	645.1	640.4	635.7	627.4	628.6	622.7	614.4	608.5	597.9	589.6
35°	589.6	592.0	586.1	584.9	580.2	575.4	569.5	563.6	560.1	548.3	541.2
37.5°	531.7	537.6	531.7	527.0	524.6	521.1	517.5	509.3	506.9	499.8	490.4
40°	476.2	479.7	476.2	471.4	467.9	467.9	463.2	458.5	452.5	445.5	441.9
42.5°	426.5	424.2	423.0	420.6	415.9	414.7	413.6	407.6	404.1	397.0	391.1
45°	376.9	378.1	375.7	374.6	371.0	368.7	366.3	361.6	360.4	353.3	348.6
47.5°	335.6	334.4	332.0	332.0	329.7	327.3	324.9	321.4	320.2	314.3	309.6
50°	297.8	298.9	297.8	296.6	293.0	291.8	289.5	287.1	284.8	278.9	274.1
52.5°	267.0	265.9	264.7	264.7	261.1	259.9	257.6	255.2	252.9	246.9	243.4
55°	238.7	238.7	237.5	236.3	232.8	231.6	230.4	228.0	224.5	219.8	216.2
57.5°	212.7	212.7	211.5	210.3	208.0	208.0	205.6	203.2	200.9	196.1	191.4
60°	189.1	190.2	189.1	187.9	185.5	185.5	184.3	180.8	179.6	173.7	170.1
62.5°	169.0	169.0	169.0	167.8	166.6	164.2	164.2	160.7	158.3	154.8	150.1
65°	150.1	150.1	150.1	148.9	146.5	145.3	144.2	141.8	139.4	135.9	131.2
67.5°	132.3	132.3	132.3	131.2	128.8	127.6	126.4	125.2	121.7	118.2	113.4
70°	115.8	115.8	114.6	113.4	112.2	111.1	109.9	107.5	105.2	100.4	96.9
72.5°	99.3	99.3	99.3	96.9	95.7	95.7	93.3	92.2	89.8	85.1	81.5
75°	83.9	82.7	82.7	81.5	80.3	79.2	78.0	76.8	73.3	70.9	66.2
77.5°	68.5	68.5	67.3	66.2	66.2	65.0	63.8	61.4	60.3	56.7	53.2
80°	53.2	53.2	53.2	53.2	52.0	50.8	50.8	48.4	47.3	43.7	41.4
82.5°	40.2	39.0	39.0	39.0	37.8	36.6	36.6	35.4	34.3	31.9	29.5
85°	23.6	22.4	22.4	22.4	21.3	21.3	20.1	20.1	18.9	16.5	16.5
87.5°	7.1	7.1	8.3	8.3	7.1	7.1	7.1	7.1	7.1	5.9	5.9
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: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7
2.5°	853.1	856.6	851.9	850.7	855.5	853.1	851.9	849.6	850.7	848.4	844.8
5°	851.9	856.6	850.7	847.2	853.1	849.6	847.2	844.8	844.8	840.1	837.7
7.5°	848.4	850.7	844.8	841.3	844.8	841.3	838.9	835.4	834.2	828.3	824.7
10°	838.9	841.3	834.2	829.5	833.0	828.3	824.7	821.2	818.8	811.7	807.0
12.5°	825.9	827.1	818.8	812.9	815.3	811.7	805.8	801.1	798.7	791.7	785.7
15°	808.2	809.4	799.9	791.7	794.0	789.3	782.2	777.5	773.9	766.8	758.6
17.5°	786.9	785.7	775.1	766.8	768.0	762.1	755.0	747.9	743.2	734.9	729.0
20°	763.3	759.8	747.9	738.5	739.7	732.6	724.3	717.2	711.3	704.2	695.9
22.5°	733.8	729.0	718.4	706.6	707.8	701.9	690.0	684.1	678.2	668.8	661.7
25°	701.9	694.8	684.1	672.3	672.3	665.2	655.8	648.7	642.8	633.3	625.1
27.5°	664.0	660.5	646.3	636.9	635.7	628.6	620.3	612.1	605.0	596.7	588.4
30°	622.7	616.8	606.1	595.5	593.2	587.2	579.0	569.5	564.8	556.5	549.4
32.5°	579.0	573.1	561.2	550.6	549.4	544.7	537.6	528.2	523.4	517.5	512.8
35°	529.3	527.0	515.2	506.9	506.9	502.2	495.1	486.8	483.3	477.4	471.4
37.5°	482.1	478.5	467.9	460.8	460.8	454.9	447.8	444.3	440.7	436.0	432.5
40°	432.5	430.1	421.8	414.7	415.9	411.2	406.5	401.7	399.4	397.0	393.5
42.5°	386.4	384.0	378.1	372.2	372.2	368.7	363.9	360.4	358.0	354.5	353.3
45°	345.0	341.5	336.7	330.8	330.8	327.3	324.9	322.6	321.4	319.0	315.5
47.5°	304.8	302.5	297.8	291.8	291.8	291.8	287.1	283.6	283.6	281.2	280.0
50°	270.6	267.0	263.5	258.8	258.8	256.4	252.9	249.3	249.3	248.1	245.8
52.5°	238.7	236.3	231.6	226.9	226.9	224.5	221.0	219.8	218.6	215.0	213.9
55°	211.5	209.1	205.6	199.7	198.5	197.3	193.8	191.4	190.2	186.7	186.7
57.5°	186.7	184.3	178.4	174.9	173.7	171.3	167.8	165.4	164.2	161.9	159.5
60°	165.4	161.9	157.1	152.4	151.2	148.9	145.3	143.0	141.8	137.1	134.7
62.5°	145.3	141.8	137.1	132.3	131.2	128.8	124.1	121.7	119.3	114.6	112.2
65°	126.4	122.9	118.2	113.4	111.1	109.9	105.2	101.6	99.3	95.7	91.0
67.5°	108.7	105.2	100.4	94.5	94.5	91.0	87.4	83.9	80.3	76.8	73.3
70°	92.2	88.6	83.9	79.2	78.0	75.6	72.1	67.3	65.0	60.3	56.7
72.5°	76.8	73.3	68.5	63.8	62.6	60.3	56.7	52.0	48.4	44.9	41.4
75°	62.6	59.1	54.4	50.8	49.6	47.3	43.7	39.0	35.4	33.1	29.5
77.5°	49.6	46.1	42.5	39.0	37.8	35.4	31.9	29.5	26.0	23.6	20.1
80°	37.8	35.4	31.9	29.5	28.4	26.0	23.6	20.1	17.7	15.4	14.2
82.5°	27.2	24.8	22.4	18.9	18.9	16.5	15.4	13.0	10.6	9.5	8.3
85°	15.4	13.0	11.8	10.6	9.5	9.5	8.3	7.1	5.9	4.7	4.7
87.5°	4.7	4.7	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4	2.4
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: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7
2.5°	844.8	846.0	843.6	846.0	843.6	844.8	842.5	844.8	842.5	844.8	840.1
5°	836.6	836.6	833.0	835.4	833.0	834.2	829.5	830.6	828.3	830.6	825.9
7.5°	822.4	823.6	817.7	820.0	816.5	816.5	812.9	814.1	810.6	811.7	808.2
10°	805.8	804.7	798.7	801.1	796.4	796.4	792.8	792.8	788.1	789.3	784.6
12.5°	782.2	781.0	773.9	776.3	771.6	771.6	768.0	768.0	763.3	765.7	760.9
15°	755.0	753.8	746.8	747.9	743.2	743.2	738.5	739.7	736.1	738.5	733.8
17.5°	724.3	723.1	716.0	717.2	711.3	712.5	708.9	707.8	705.4	706.6	703.0
20°	692.4	690.0	683.0	684.1	681.8	678.2	675.9	677.0	674.7	677.0	673.5
22.5°	659.3	654.6	648.7	648.7	646.3	646.3	642.8	645.1	640.4	644.0	641.6
25°	621.5	618.0	613.2	615.6	610.9	610.9	607.3	608.5	606.1	608.5	606.1
27.5°	584.9	582.5	575.4	577.8	574.2	575.4	571.9	573.1	571.9	574.2	571.9
30°	545.9	544.7	540.0	540.0	538.8	537.6	536.4	536.4	535.3	538.8	536.4
32.5°	509.3	505.7	501.0	504.5	498.6	502.2	499.8	502.2	499.8	502.2	501.0
35°	471.4	470.3	464.4	465.5	464.4	464.4	463.2	463.2	463.2	466.7	466.7
37.5°	431.3	430.1	426.5	427.7	425.4	424.2	424.2	426.5	426.5	428.9	428.9
40°	392.3	393.5	389.9	389.9	388.7	388.7	388.7	391.1	389.9	392.3	391.1
42.5°	353.3	353.3	349.7	350.9	349.7	350.9	350.9	353.3	353.3	354.5	353.3
45°	316.7	316.7	315.5	316.7	314.3	315.5	314.3	316.7	315.5	316.7	316.7
47.5°	280.0	280.0	280.0	278.9	278.9	278.9	278.9	278.9	277.7	280.0	278.9
50°	245.8	246.9	245.8	245.8	244.6	245.8	244.6	244.6	242.2	243.4	243.4
52.5°	215.0	215.0	212.7	212.7	212.7	211.5	211.5	211.5	210.3	210.3	208.0
55°	185.5	185.5	183.1	183.1	182.0	180.8	179.6	179.6	176.1	176.1	172.5
57.5°	158.3	157.1	153.6	153.6	151.2	150.1	148.9	147.7	145.3	143.0	141.8
60°	133.5	131.2	128.8	127.6	125.2	122.9	120.5	118.2	115.8	114.6	113.4
62.5°	109.9	106.3	104.0	102.8	100.4	96.9	94.5	92.2	89.8	88.6	86.3
65°	88.6	85.1	81.5	80.3	78.0	75.6	72.1	69.7	67.3	66.2	66.2
67.5°	69.7	66.2	61.4	61.4	59.1	56.7	54.4	52.0	50.8	52.0	52.0
70°	52.0	49.6	46.1	44.9	42.5	40.2	39.0	39.0	39.0	40.2	39.0
72.5°	39.0	35.4	33.1	31.9	30.7	29.5	29.5	29.5	28.4	29.5	29.5
75°	27.2	24.8	22.4	22.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3
77.5°	18.9	16.5	15.4	15.4	15.4	14.2	14.2	14.2	14.2	14.2	14.2
80°	11.8	11.8	10.6	10.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	7.1	7.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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: P252476

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	850.7	850.7	850.7	850.7	850.7	850.7	850.7	850.7
2.5°	840.1	843.6	838.9	842.5	841.3	840.1	837.7	842.5
5°	825.9	827.1	822.4	827.1	825.9	823.6	821.2	825.9
7.5°	805.8	809.4	803.5	808.2	807.0	804.7	802.3	807.0
10°	783.4	786.9	782.2	785.7	785.7	783.4	779.8	784.6
12.5°	758.6	760.9	756.2	760.9	759.8	757.4	756.2	759.8
15°	731.4	734.9	730.2	733.8	732.6	731.4	730.2	733.8
17.5°	701.9	705.4	701.9	705.4	705.4	701.9	700.7	703.0
20°	672.3	674.7	671.1	674.7	673.5	673.5	671.1	674.7
22.5°	639.2	642.8	640.4	642.8	641.6	641.6	640.4	642.8
25°	606.1	609.7	606.1	609.7	608.5	608.5	606.1	612.1
27.5°	573.1	575.4	571.9	576.6	575.4	573.1	574.2	575.4
30°	537.6	540.0	537.6	541.2	541.2	541.2	538.8	541.2
32.5°	502.2	505.7	502.2	505.7	504.5	504.5	503.4	505.7
35°	466.7	467.9	465.5	469.1	469.1	470.3	467.9	471.4
37.5°	430.1	431.3	430.1	431.3	433.6	430.1	432.5	433.6
40°	392.3	394.6	393.5	394.6	394.6	395.8	394.6	395.8
42.5°	354.5	356.8	354.5	358.0	356.8	356.8	358.0	358.0
45°	315.5	319.0	316.7	319.0	320.2	319.0	319.0	321.4
47.5°	278.9	281.2	280.0	281.2	281.2	281.2	281.2	283.6
50°	242.2	243.4	243.4	244.6	244.6	245.8	243.4	244.6
52.5°	205.6	208.0	208.0	208.0	206.8	208.0	208.0	208.0
55°	172.5	173.7	171.3	173.7	173.7	172.5	172.5	174.9
57.5°	140.6	140.6	140.6	140.6	140.6	139.4	140.6	140.6
60°	111.1	112.2	111.1	111.1	111.1	111.1	109.9	112.2
62.5°	86.3	86.3	85.1	86.3	86.3	86.3	87.4	87.4
65°	67.3	68.5	67.3	68.5	68.5	68.5	68.5	69.7
67.5°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
70°	40.2	40.2	40.2	41.4	40.2	40.2	40.2	41.4
72.5°	29.5	29.5	29.5	29.5	29.5	29.5	30.7	30.7
75°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
77.5°	14.2	14.2	14.2	15.4	14.2	15.4	14.2	14.2
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	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



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













(END OF REPORT)