

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: P252475

Luminaire Tested: **LD6B20D010 EU6B10209040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252475
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 EU6B10209040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1501.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

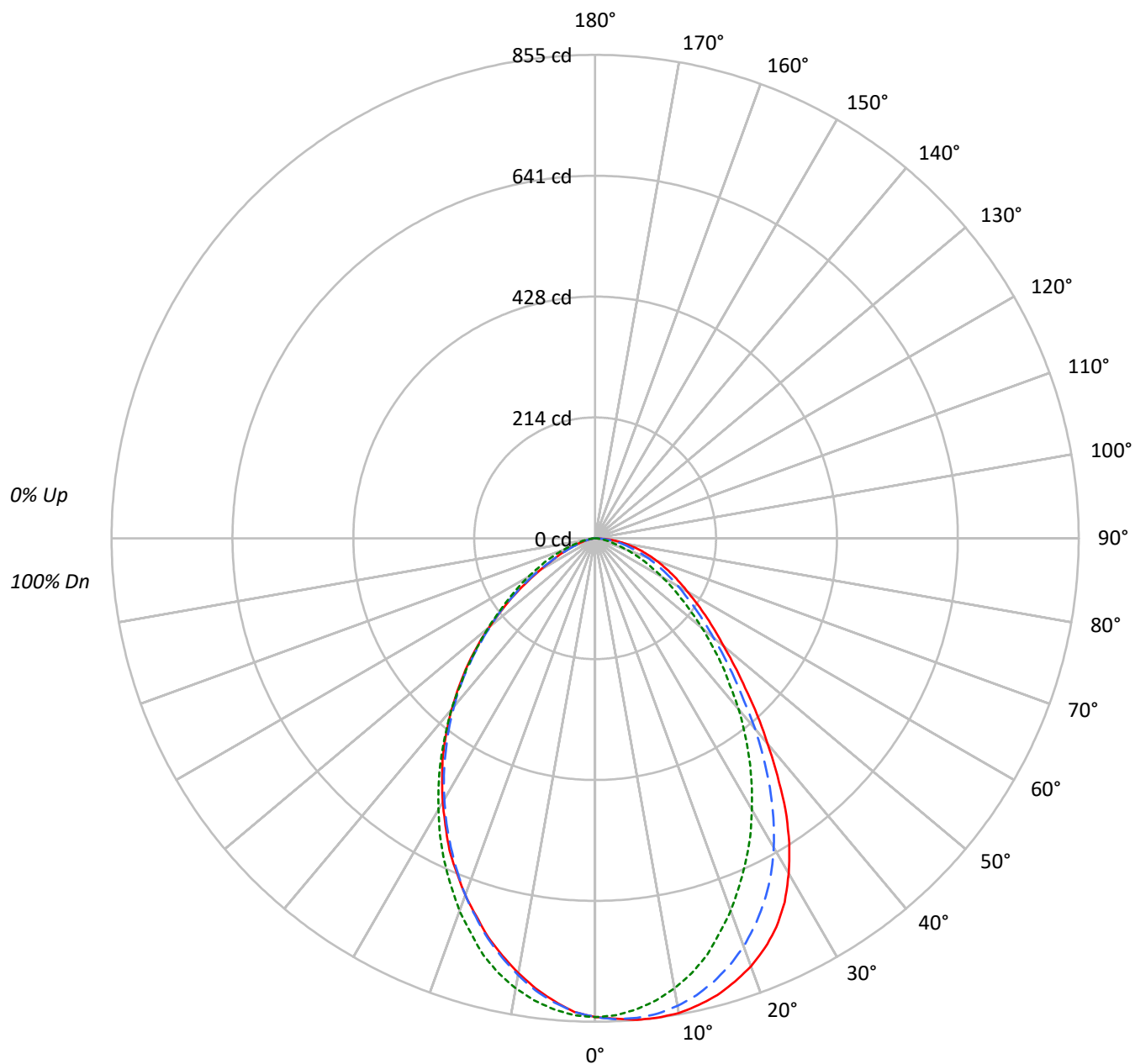
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55246	55246	55246
5°	55994	54763	53839
10°	56489	53528	51732
15°	56479	51555	49333
20°	55931	48669	46621
25°	54608	45379	43853
30°	51566	41727	40582
35°	46743	37839	37377
40°	40368	33657	33555
45°	34618	29294	29515
50°	30084	25070	24714
55°	27025	21134	19803
60°	24557	17798	14575
65°	23063	14712	10713
70°	21994	11445	7859
75°	21048	8293	5344
80°	19875	5748	3532
85°	17591	3518	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	5.3
10°-20°	216.9	14.5
20°-30°	301.2	20.1
30°-40°	312.0	20.8
40°-50°	256.4	17.1
50°-60°	176.2	11.7
60°-70°	101.3	6.7
70°-80°	46.6	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°	597.3	39.8
0°-40°	909.3	60.6
0°-60°	1341.8	89.4
0°-90°	1501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	847	847	847	847	847	
5°	855	852	836	824	822	81
15°	836	812	763	733	730	236
25°	759	708	630	603	609	347
35°	587	539	475	461	469	364
45°	375	347	318	314	320	292
55°	238	215	186	175	174	214
65°	149	130	95	67	69	149
75°	84	66	33	21	21	88
85°	24	16	5	2	2	26
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°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	850.3	857.4	852.7	851.5	853.8	853.8	853.8	850.3	852.7	849.1	851.5
5°	855.0	860.9	856.2	853.8	856.2	857.4	853.8	851.5	855.0	850.3	851.5
7.5°	855.0	860.9	856.2	855.0	856.2	856.2	855.0	850.3	852.7	848.0	848.0
10°	852.7	857.4	852.7	850.3	851.5	850.3	850.3	844.4	845.6	839.7	839.7
12.5°	845.6	851.5	845.6	843.3	843.3	843.3	839.7	835.0	836.2	829.1	828.0
15°	836.2	840.9	835.0	832.7	832.7	831.5	829.1	822.1	822.1	815.0	811.5
17.5°	822.1	826.8	822.1	818.6	817.4	815.0	812.7	805.6	803.3	795.0	791.5
20°	805.6	809.2	804.4	800.9	798.6	796.2	791.5	784.5	782.1	773.9	768.0
22.5°	784.5	789.2	782.1	778.6	776.2	772.7	768.0	760.9	757.4	746.8	739.8
25°	758.6	760.9	755.1	751.5	746.8	744.5	740.9	731.5	728.0	716.2	708.0
27.5°	725.6	728.0	720.9	718.6	712.7	710.4	705.7	697.4	692.7	681.0	672.7
30°	684.5	686.8	682.1	678.6	673.9	669.2	665.7	657.4	650.4	638.6	631.6
32.5°	638.6	642.1	637.4	632.7	624.5	625.7	619.8	611.6	605.7	595.1	586.9
35°	586.9	589.2	583.3	582.2	577.5	572.8	566.9	561.0	557.5	545.7	538.7
37.5°	529.2	535.1	529.2	524.5	522.2	518.7	515.1	506.9	504.5	497.5	488.1
40°	474.0	477.5	474.0	469.3	465.7	465.7	461.0	456.3	450.4	443.4	439.9
42.5°	424.6	422.2	421.0	418.7	414.0	412.8	411.6	405.8	402.2	395.2	389.3
45°	375.2	376.3	374.0	372.8	369.3	366.9	364.6	359.9	358.7	351.7	346.9
47.5°	334.0	332.8	330.5	330.5	328.1	325.8	323.4	319.9	318.7	312.8	308.1
50°	296.4	297.6	296.4	295.2	291.7	290.5	288.1	285.8	283.4	277.6	272.9
52.5°	265.8	264.6	263.4	263.4	259.9	258.7	256.4	254.0	251.7	245.8	242.3
55°	237.6	237.6	236.4	235.2	231.7	230.5	229.3	227.0	223.5	218.8	215.2
57.5°	211.7	211.7	210.5	209.3	207.0	207.0	204.6	202.3	199.9	195.2	190.5
60°	188.2	189.4	188.2	187.0	184.6	184.6	183.5	179.9	178.8	172.9	169.4
62.5°	168.2	168.2	168.2	167.0	165.8	163.5	163.5	159.9	157.6	154.1	149.4
65°	149.4	149.4	149.4	148.2	145.8	144.7	143.5	141.1	138.8	135.3	130.5
67.5°	131.7	131.7	131.7	130.5	128.2	127.0	125.8	124.7	121.1	117.6	112.9
70°	115.3	115.3	114.1	112.9	111.7	110.6	109.4	107.0	104.7	100.0	96.4
72.5°	98.8	98.8	98.8	96.4	95.3	95.3	92.9	91.7	89.4	84.7	81.2
75°	83.5	82.3	82.3	81.2	80.0	78.8	77.6	76.4	72.9	70.6	65.9
77.5°	68.2	68.2	67.0	65.9	65.9	64.7	63.5	61.2	60.0	56.5	52.9
80°	52.9	52.9	52.9	52.9	51.7	50.6	50.6	48.2	47.0	43.5	41.2
82.5°	40.0	38.8	38.8	38.8	37.6	36.5	36.5	35.3	34.1	31.8	29.4
85°	23.5	22.3	22.3	22.3	21.2	21.2	20.0	20.0	18.8	16.5	16.5
87.5°	7.1	7.1	8.2	8.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	849.1	852.7	848.0	846.8	851.5	849.1	848.0	845.6	846.8	844.4	840.9
5°	848.0	852.7	846.8	843.3	849.1	845.6	843.3	840.9	840.9	836.2	833.8
7.5°	844.4	846.8	840.9	837.4	840.9	837.4	835.0	831.5	830.3	824.4	820.9
10°	835.0	837.4	830.3	825.6	829.1	824.4	820.9	817.4	815.0	808.0	803.3
12.5°	822.1	823.3	815.0	809.2	811.5	808.0	802.1	797.4	795.0	788.0	782.1
15°	804.4	805.6	796.2	788.0	790.3	785.6	778.6	773.9	770.3	763.3	755.1
17.5°	783.3	782.1	771.5	763.3	764.5	758.6	751.5	744.5	739.8	731.5	725.6
20°	759.8	756.2	744.5	735.1	736.2	729.2	720.9	713.9	708.0	701.0	692.7
22.5°	730.4	725.6	715.1	703.3	704.5	698.6	686.8	681.0	675.1	665.7	658.6
25°	698.6	691.5	681.0	669.2	669.2	662.1	652.7	645.7	639.8	630.4	622.2
27.5°	661.0	657.4	643.3	633.9	632.7	625.7	617.4	609.2	602.2	593.9	585.7
30°	619.8	613.9	603.3	592.8	590.4	584.5	576.3	566.9	562.2	553.9	546.9
32.5°	576.3	570.4	558.6	548.1	546.9	542.2	535.1	525.7	521.0	515.1	510.4
35°	526.9	524.5	512.8	504.5	504.5	499.8	492.8	484.5	481.0	475.1	469.3
37.5°	479.8	476.3	465.7	458.7	458.7	452.8	445.7	442.2	438.7	434.0	430.4
40°	430.4	428.1	419.9	412.8	414.0	409.3	404.6	399.9	397.5	395.2	391.6
42.5°	384.6	382.2	376.3	370.5	370.5	366.9	362.2	358.7	356.4	352.8	351.7
45°	343.4	339.9	335.2	329.3	329.3	325.8	323.4	321.1	319.9	317.5	314.0
47.5°	303.4	301.1	296.4	290.5	290.5	290.5	285.8	282.3	282.3	279.9	278.7
50°	269.3	265.8	262.3	257.6	257.6	255.2	251.7	248.2	248.2	247.0	244.6
52.5°	237.6	235.2	230.5	225.8	225.8	223.5	219.9	218.8	217.6	214.0	212.9
55°	210.5	208.2	204.6	198.8	197.6	196.4	192.9	190.5	189.4	185.8	185.8
57.5°	185.8	183.5	177.6	174.1	172.9	170.5	167.0	164.7	163.5	161.1	158.8
60°	164.7	161.1	156.4	151.7	150.5	148.2	144.7	142.3	141.1	136.4	134.1
62.5°	144.7	141.1	136.4	131.7	130.5	128.2	123.5	121.1	118.8	114.1	111.7
65°	125.8	122.3	117.6	112.9	110.6	109.4	104.7	101.1	98.8	95.3	90.6
67.5°	108.2	104.7	100.0	94.1	94.1	90.6	87.0	83.5	80.0	76.4	72.9
70°	91.7	88.2	83.5	78.8	77.6	75.3	71.7	67.0	64.7	60.0	56.5
72.5°	76.4	72.9	68.2	63.5	62.3	60.0	56.5	51.7	48.2	44.7	41.2
75°	62.3	58.8	54.1	50.6	49.4	47.0	43.5	38.8	35.3	32.9	29.4
77.5°	49.4	45.9	42.3	38.8	37.6	35.3	31.8	29.4	25.9	23.5	20.0
80°	37.6	35.3	31.8	29.4	28.2	25.9	23.5	20.0	17.6	15.3	14.1
82.5°	27.1	24.7	22.3	18.8	18.8	16.5	15.3	12.9	10.6	9.4	8.2
85°	15.3	12.9	11.8	10.6	9.4	9.4	8.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	840.9	842.1	839.7	842.1	839.7	840.9	838.6	840.9	838.6	840.9	836.2
5°	832.7	832.7	829.1	831.5	829.1	830.3	825.6	826.8	824.4	826.8	822.1
7.5°	818.6	819.7	813.9	816.2	812.7	812.7	809.2	810.3	806.8	808.0	804.4
10°	802.1	800.9	795.0	797.4	792.7	792.7	789.2	789.2	784.5	785.6	780.9
12.5°	778.6	777.4	770.3	772.7	768.0	768.0	764.5	764.5	759.8	762.1	757.4
15°	751.5	750.3	743.3	744.5	739.8	739.8	735.1	736.2	732.7	735.1	730.4
17.5°	720.9	719.8	712.7	713.9	708.0	709.2	705.7	704.5	702.1	703.3	699.8
20°	689.2	686.8	679.8	681.0	678.6	675.1	672.7	673.9	671.5	673.9	670.4
22.5°	656.3	651.6	645.7	645.7	643.3	643.3	639.8	642.1	637.4	641.0	638.6
25°	618.6	615.1	610.4	612.7	608.0	608.0	604.5	605.7	603.3	605.7	603.3
27.5°	582.2	579.8	572.8	575.1	571.6	572.8	569.2	570.4	569.2	571.6	569.2
30°	543.4	542.2	537.5	537.5	536.3	535.1	533.9	533.9	532.8	536.3	533.9
32.5°	506.9	503.4	498.7	502.2	496.3	499.8	497.5	499.8	497.5	499.8	498.7
35°	469.3	468.1	462.2	463.4	462.2	462.2	461.0	461.0	461.0	464.6	464.6
37.5°	429.3	428.1	424.6	425.7	423.4	422.2	422.2	424.6	424.6	426.9	426.9
40°	390.5	391.6	388.1	388.1	386.9	386.9	386.9	389.3	388.1	390.5	389.3
42.5°	351.7	351.7	348.1	349.3	348.1	349.3	349.3	351.7	351.7	352.8	351.7
45°	315.2	315.2	314.0	315.2	312.8	314.0	312.8	315.2	314.0	315.2	315.2
47.5°	278.7	278.7	278.7	277.6	277.6	277.6	277.6	277.6	276.4	278.7	277.6
50°	244.6	245.8	244.6	244.6	243.5	244.6	243.5	243.5	241.1	242.3	242.3
52.5°	214.0	214.0	211.7	211.7	211.7	210.5	210.5	210.5	209.3	209.3	207.0
55°	184.6	184.6	182.3	182.3	181.1	179.9	178.8	178.8	175.2	175.2	171.7
57.5°	157.6	156.4	152.9	152.9	150.5	149.4	148.2	147.0	144.7	142.3	141.1
60°	132.9	130.5	128.2	127.0	124.7	122.3	120.0	117.6	115.3	114.1	112.9
62.5°	109.4	105.8	103.5	102.3	100.0	96.4	94.1	91.7	89.4	88.2	85.9
65°	88.2	84.7	81.2	80.0	77.6	75.3	71.7	69.4	67.0	65.9	65.9
67.5°	69.4	65.9	61.2	61.2	58.8	56.5	54.1	51.7	50.6	51.7	51.7
70°	51.7	49.4	45.9	44.7	42.3	40.0	38.8	38.8	38.8	40.0	38.8
72.5°	38.8	35.3	32.9	31.8	30.6	29.4	29.4	29.4	28.2	29.4	29.4
75°	27.1	24.7	22.3	22.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2
77.5°	18.8	16.5	15.3	15.3	15.3	14.1	14.1	14.1	14.1	14.1	14.1
80°	11.8	11.8	10.6	10.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	836.2	839.7	835.0	838.6	837.4	836.2	833.8	838.6
5°	822.1	823.3	818.6	823.3	822.1	819.7	817.4	822.1
7.5°	802.1	805.6	799.7	804.4	803.3	800.9	798.6	803.3
10°	779.7	783.3	778.6	782.1	782.1	779.7	776.2	780.9
12.5°	755.1	757.4	752.7	757.4	756.2	753.9	752.7	756.2
15°	728.0	731.5	726.8	730.4	729.2	728.0	726.8	730.4
17.5°	698.6	702.1	698.6	702.1	702.1	698.6	697.4	699.8
20°	669.2	671.5	668.0	671.5	670.4	670.4	668.0	671.5
22.5°	636.3	639.8	637.4	639.8	638.6	638.6	637.4	639.8
25°	603.3	606.9	603.3	606.9	605.7	605.7	603.3	609.2
27.5°	570.4	572.8	569.2	573.9	572.8	570.4	571.6	572.8
30°	535.1	537.5	535.1	538.7	538.7	538.7	536.3	538.7
32.5°	499.8	503.4	499.8	503.4	502.2	502.2	501.0	503.4
35°	464.6	465.7	463.4	466.9	466.9	468.1	465.7	469.3
37.5°	428.1	429.3	428.1	429.3	431.6	428.1	430.4	431.6
40°	390.5	392.8	391.6	392.8	392.8	394.0	392.8	394.0
42.5°	352.8	355.2	352.8	356.4	355.2	355.2	356.4	356.4
45°	314.0	317.5	315.2	317.5	318.7	317.5	317.5	319.9
47.5°	277.6	279.9	278.7	279.9	279.9	279.9	279.9	282.3
50°	241.1	242.3	242.3	243.5	243.5	244.6	242.3	243.5
52.5°	204.6	207.0	207.0	207.0	205.8	207.0	207.0	207.0
55°	171.7	172.9	170.5	172.9	172.9	171.7	171.7	174.1
57.5°	140.0	140.0	140.0	140.0	140.0	138.8	140.0	140.0
60°	110.6	111.7	110.6	110.6	110.6	110.6	109.4	111.7
62.5°	85.9	85.9	84.7	85.9	85.9	85.9	87.0	87.0
65°	67.0	68.2	67.0	68.2	68.2	68.2	68.2	69.4
67.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
70°	40.0	40.0	40.0	41.2	40.0	40.0	40.0	41.2
72.5°	29.4	29.4	29.4	29.4	29.4	29.4	30.6	30.6
75°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
77.5°	14.1	14.1	14.1	15.3	14.1	15.3	14.1	14.1
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
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)