

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P844134

Luminaire Tested: **LD6C20DE010B35 EU6C20B35 6LBLDWWLI**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P844134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C20DE010B35 EU6C20B35 6LBLDWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

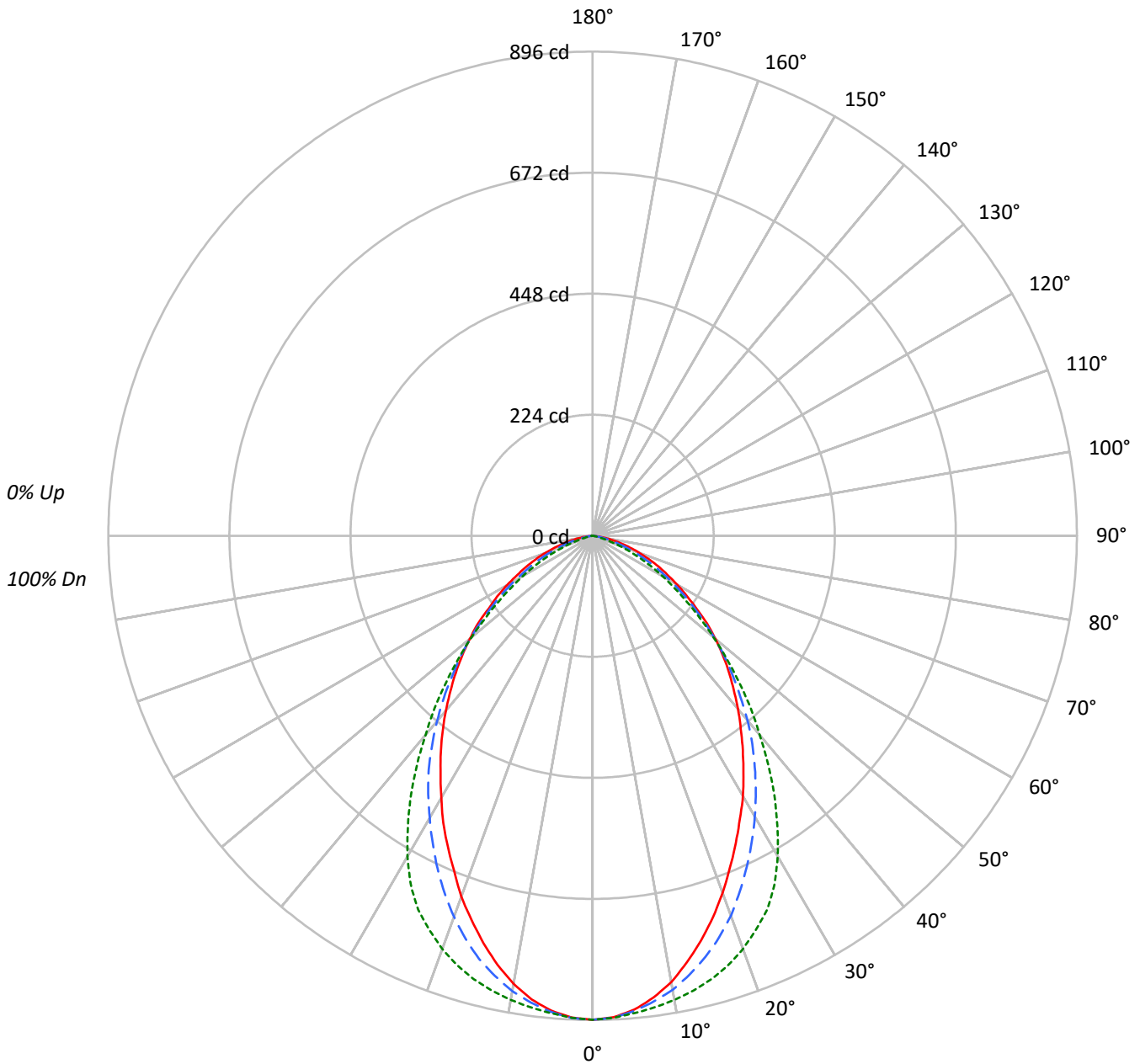
Lumens per Lamp: N/A  
Luminaire Lumens: 1603.4 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V):  
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				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77				77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	77	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	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32				32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	49102	49102	49102
5°	48454	48795	48536
10°	46681	48546	46865
15°	43996	48207	44285
20°	41000	47458	41438
25°	37920	46182	38373
30°	35214	43355	35455
35°	32404	39210	32766
40°	29942	34393	30221
45°	27662	29724	27755
50°	25304	24920	25270
55°	22346	20348	22441
60°	19735	16325	20042
65°	17382	12141	17486
70°	14618	7629	15003
75°	11586	3219	11925
80°	7735	758	8303
85°	3208	189	3774



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	5.2
10°-20°	227.7	14.2
20°-30°	314.4	19.6
30°-40°	330.7	20.6
40°-50°	284.8	17.8
50°-60°	202.8	12.6
60°-70°	114.3	7.1
70°-80°	40.5	2.5
80°-90°	4.6	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°	625.6	39.0
0°-40°	956.4	59.6
0°-60°	1444.0	90.1
0°-90°	1603.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	896	896	896	896	896	
5°	880	883	887	884	882	83
15°	775	807	849	811	780	217
25°	627	675	764	679	634	289
35°	484	523	586	528	490	303
45°	357	367	383	368	358	275
55°	234	226	213	226	235	211
65°	134	115	94	116	135	133
75°	55	37	15	37	56	59
85°	5	2	0	2	6	8
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°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	891.8	892.1	892.1	892.4	892.1	892.1	892.4	892.4	892.1	892.4	892.4
5°	880.5	880.2	880.5	880.8	881.6	881.6	881.4	881.4	882.3	882.0	882.6
7.5°	862.0	862.0	862.8	863.5	863.5	863.8	864.3	865.6	866.7	867.0	869.2
10°	838.6	838.9	838.6	839.8	840.7	842.2	841.9	844.0	846.1	849.1	853.0
12.5°	807.8	808.7	810.5	810.5	813.2	814.7	814.4	819.1	823.1	826.6	831.4
15°	775.2	774.9	776.4	778.8	781.5	783.6	784.4	790.8	794.6	800.6	806.7
17.5°	740.2	739.3	741.7	743.2	747.6	750.4	752.2	757.6	763.8	771.0	779.1
20°	702.8	704.3	704.9	707.0	713.0	715.1	718.1	724.1	730.3	738.8	748.0
22.5°	664.5	666.6	667.8	670.5	675.3	677.1	680.1	688.7	695.6	703.1	711.8
25°	626.9	629.3	631.3	634.7	638.0	640.6	644.5	650.4	658.3	665.1	675.0
27.5°	590.1	592.2	592.8	596.6	600.5	604.1	606.2	613.4	620.0	628.3	638.0
30°	556.3	555.0	556.6	559.9	564.4	566.8	570.4	575.1	582.3	590.4	600.2
32.5°	519.2	519.2	521.6	525.4	529.0	530.8	532.1	538.7	545.8	553.6	561.7
35°	484.2	485.5	487.5	489.9	493.8	495.3	497.9	502.8	508.4	517.1	523.1
37.5°	450.4	451.3	453.4	455.8	458.8	461.8	462.9	468.1	472.2	479.4	485.1
40°	418.4	418.7	421.1	422.0	424.6	425.9	428.2	431.0	436.9	440.0	445.4
42.5°	386.1	387.6	388.5	390.6	390.9	393.3	394.5	395.3	400.2	402.0	405.0
45°	356.8	356.8	357.7	357.7	359.2	358.3	360.1	361.9	362.1	365.2	367.0
47.5°	326.3	325.4	326.6	326.3	326.0	326.0	326.6	326.9	327.8	329.9	330.8
50°	296.7	294.6	294.6	294.3	294.0	294.9	294.9	294.6	294.6	295.5	294.6
52.5°	266.5	265.9	264.4	263.1	262.6	262.6	262.6	261.3	261.3	260.8	258.7
55°	233.8	234.8	234.2	233.6	233.3	232.4	232.4	230.9	228.4	227.3	226.1
57.5°	205.8	207.0	207.0	205.8	204.2	203.7	202.2	201.3	199.2	197.1	194.7
60°	180.0	181.5	179.5	178.5	178.2	177.4	176.7	173.5	171.3	169.3	166.6
62.5°	155.5	156.1	154.6	153.7	152.8	152.0	151.7	148.9	145.3	142.7	139.4
65°	134.0	133.1	132.5	131.0	129.5	128.3	128.3	124.7	121.4	118.1	114.9
67.5°	111.6	112.1	111.3	110.1	107.7	106.5	104.7	102.3	99.3	96.0	92.1
70°	91.2	91.0	90.0	88.8	87.4	85.2	83.8	82.5	78.4	74.5	71.2
72.5°	72.7	72.3	71.5	70.0	67.9	66.9	65.8	62.8	59.5	56.3	52.7
75°	54.7	55.0	53.5	53.0	50.6	49.6	49.4	45.8	43.0	40.1	36.8
77.5°	39.1	39.1	37.7	36.5	35.3	34.7	33.5	31.4	29.3	26.3	23.6
80°	24.5	24.5	24.5	23.4	22.1	21.6	20.6	19.1	17.0	15.2	13.4
82.5°	13.1	13.1	12.6	12.3	11.6	11.1	10.8	10.2	8.7	7.8	6.6
85°	5.1	5.1	4.8	4.8	4.2	4.2	3.9	3.6	3.0	2.6	2.4
87.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	892.7	892.7	892.4	892.7	892.7	892.7	892.7	892.7	892.7	892.7	893.1
5°	883.1	884.1	884.4	884.7	885.2	885.6	885.9	886.2	886.5	886.7	886.7
7.5°	871.0	873.0	874.5	876.0	876.6	877.2	878.0	879.3	880.2	880.2	879.8
10°	856.3	858.9	862.0	864.6	865.6	867.0	868.5	870.3	871.8	872.1	872.1
12.5°	837.1	840.1	845.5	850.0	851.8	853.8	856.9	859.5	861.0	862.0	861.7
15°	813.2	819.5	827.0	832.0	834.5	838.0	842.8	845.8	848.2	849.4	848.8
17.5°	787.2	795.2	803.3	810.3	813.5	817.1	823.7	829.1	832.7	833.5	832.9
20°	757.6	766.6	775.2	783.9	788.4	792.6	799.5	806.3	812.3	813.5	812.6
22.5°	722.3	732.4	742.9	752.8	757.9	761.7	771.6	779.4	786.2	789.3	787.2
25°	685.8	696.6	707.7	716.3	721.9	728.6	737.5	746.5	754.8	763.5	755.8
27.5°	647.0	656.8	668.4	680.4	685.8	690.5	699.8	711.3	719.9	728.6	719.9
30°	608.0	620.6	631.1	641.6	647.5	653.2	662.5	671.7	680.1	684.9	679.5
32.5°	571.5	580.9	591.3	601.5	605.6	610.1	617.9	626.5	634.7	636.2	632.6
35°	533.3	541.3	550.0	556.6	561.7	566.5	573.3	578.7	580.9	585.9	582.3
37.5°	489.9	497.1	504.8	509.7	514.1	518.0	523.1	527.9	529.7	533.6	530.8
40°	449.0	454.9	459.3	464.5	466.8	470.8	472.9	476.8	478.8	480.6	480.9
42.5°	409.4	412.7	416.0	419.6	420.5	421.4	426.4	429.2	431.3	432.5	430.7
45°	369.1	372.4	373.6	376.2	377.8	378.3	380.4	380.7	381.3	383.4	382.5
47.5°	332.3	332.6	333.5	334.6	335.3	335.3	336.4	335.3	335.9	336.1	336.8
50°	293.7	295.8	293.7	294.9	295.2	294.9	294.0	293.4	292.5	292.2	291.9
52.5°	257.2	257.5	256.3	255.4	254.5	254.8	252.5	251.2	251.5	249.7	251.8
55°	224.0	222.8	220.1	219.2	217.1	216.8	216.5	215.0	212.7	212.9	213.5
57.5°	192.0	190.0	187.2	185.7	185.1	182.8	182.4	180.0	178.5	178.2	178.2
60°	163.0	161.2	158.5	155.8	153.7	152.5	151.0	148.6	149.2	148.9	147.4
62.5°	135.5	133.4	129.5	126.5	125.3	124.4	122.4	120.6	119.6	120.6	119.6
65°	110.9	107.7	103.2	100.2	99.8	98.7	96.4	95.1	94.2	93.6	94.6
67.5°	88.2	83.8	81.0	77.2	75.4	74.8	71.5	69.7	70.0	69.7	70.0
70°	67.3	62.8	59.2	56.3	53.8	53.0	51.2	48.8	48.4	47.6	48.8
72.5°	48.8	44.8	41.6	38.3	36.2	35.0	32.6	30.2	29.6	29.0	29.0
75°	33.5	30.2	26.7	23.6	22.1	20.9	18.5	16.7	15.2	15.2	15.2
77.5°	20.9	18.2	15.5	13.4	12.6	11.3	9.3	7.5	6.9	6.0	6.2
80°	12.0	9.8	8.4	6.9	6.0	5.4	4.2	3.3	2.4	2.4	2.4
82.5°	5.7	4.8	3.6	3.0	2.6	2.1	1.5	1.2	0.8	0.6	0.6
85°	1.8	1.5	1.2	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.3
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	892.7	893.1	892.7	893.1	892.7	893.4	893.4	893.1	893.1	893.1	892.7
5°	886.5	886.5	886.2	886.2	886.2	885.9	884.9	884.9	884.4	884.1	883.4
7.5°	879.6	879.0	878.0	877.8	876.9	876.0	874.2	872.8	871.5	870.0	868.5
10°	871.2	869.7	867.9	866.7	866.1	864.1	861.3	857.7	855.4	852.7	849.7
12.5°	860.5	858.7	855.4	853.0	851.5	847.6	843.7	839.2	834.5	829.6	826.6
15°	846.4	843.4	839.2	836.8	834.2	828.8	821.9	815.5	810.8	805.4	798.2
17.5°	829.9	825.5	819.8	815.9	812.6	805.4	797.4	789.3	782.1	775.5	768.4
20°	807.2	801.8	794.9	789.8	786.6	777.3	768.6	759.1	750.4	742.6	734.2
22.5°	780.6	771.6	764.8	758.7	755.2	744.7	735.2	725.0	715.7	708.8	699.8
25°	747.1	738.4	729.8	725.0	719.3	708.2	698.4	687.9	679.2	670.5	662.2
27.5°	711.5	701.3	691.8	686.1	681.0	670.2	660.4	650.8	640.9	631.3	623.9
30°	672.7	662.5	655.0	647.8	642.1	633.4	621.1	611.6	603.0	594.3	586.5
32.5°	629.3	620.9	611.9	608.4	604.1	593.6	584.1	574.8	566.2	557.5	549.4
35°	579.1	572.4	567.1	563.2	560.4	551.2	543.7	533.9	528.5	519.8	513.8
37.5°	527.5	524.3	520.7	515.9	512.0	506.6	502.2	494.1	487.8	481.5	475.0
40°	478.3	474.7	469.8	467.5	466.5	461.8	455.5	451.3	447.7	442.0	438.5
42.5°	430.0	428.2	423.5	422.3	421.1	416.9	414.0	410.4	407.9	403.8	402.0
45°	381.1	380.7	379.5	378.3	377.8	374.7	374.2	369.6	367.5	366.7	364.9
47.5°	337.7	336.8	335.0	336.8	334.1	333.8	333.8	332.8	332.0	329.6	329.2
50°	293.4	294.9	295.2	294.3	296.1	295.8	294.3	294.6	295.2	296.3	294.6
52.5°	252.7	253.9	256.1	255.1	256.6	258.1	257.5	259.9	259.0	260.2	262.6
55°	214.2	217.4	219.6	218.6	219.8	221.6	222.2	224.3	226.1	228.2	229.7
57.5°	181.0	181.8	184.9	185.7	186.0	187.5	190.5	193.8	195.9	197.4	198.8
60°	148.4	151.3	153.5	153.5	155.8	157.9	160.7	163.6	165.9	169.5	172.3
62.5°	120.8	121.4	124.4	124.7	126.5	130.1	132.2	136.6	139.7	143.5	147.1
65°	94.2	96.9	98.7	99.0	101.6	104.4	107.3	111.6	115.7	119.0	122.4
67.5°	70.5	72.0	74.5	76.6	77.2	81.0	85.6	89.5	93.0	96.0	100.2
70°	49.4	50.6	53.8	55.0	56.8	59.9	63.4	67.6	71.8	75.9	79.2
72.5°	30.2	32.9	35.0	36.8	38.3	41.9	45.8	49.4	53.0	56.5	60.7
75°	16.7	18.5	20.9	22.7	24.2	27.0	30.5	34.1	37.3	40.7	43.7
77.5°	7.5	9.3	11.3	12.6	13.7	16.2	18.8	21.8	24.5	27.0	29.6
80°	3.0	4.2	5.4	6.2	6.9	8.4	10.5	12.0	13.7	15.9	18.0
82.5°	1.2	1.5	2.1	2.6	3.0	3.9	4.8	5.7	7.2	8.0	9.3
85°	0.3	0.3	0.6	0.6	0.8	1.2	1.5	2.1	2.4	2.6	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	892.7	892.4	892.4	892.4	892.4	892.1	892.1	892.1
5°	883.8	883.1	882.9	882.9	882.0	882.3	882.3	882.0
7.5°	867.9	867.4	866.4	867.0	866.7	865.8	865.6	865.3
10°	847.3	846.1	845.8	844.3	843.4	843.1	843.1	841.9
12.5°	822.7	819.5	819.1	817.7	815.5	814.4	815.0	813.2
15°	795.6	790.8	788.4	787.2	784.8	782.6	780.9	780.3
17.5°	762.3	756.9	755.2	754.0	748.9	748.6	746.2	745.3
20°	727.7	722.9	720.1	718.3	714.5	710.9	710.6	710.3
22.5°	693.8	686.1	683.7	681.0	676.8	673.8	672.0	670.5
25°	655.6	649.3	645.2	642.4	639.4	637.0	634.7	634.4
27.5°	617.3	611.3	608.7	606.2	602.3	599.7	597.2	598.4
30°	579.9	574.0	570.9	569.1	565.3	563.7	559.6	560.1
32.5°	542.8	537.5	535.4	531.8	528.2	526.4	524.9	523.6
35°	507.2	502.8	499.7	497.4	494.1	491.1	489.6	489.6
37.5°	471.1	466.5	465.0	463.2	460.3	456.1	454.6	455.8
40°	434.3	431.0	429.5	428.2	425.3	423.8	422.3	422.3
42.5°	399.3	396.0	395.7	394.5	392.1	391.2	389.9	389.1
45°	362.8	361.3	360.1	360.1	359.8	359.5	358.6	358.0
47.5°	327.8	328.1	327.4	327.2	327.4	326.6	327.8	326.9
50°	295.8	295.2	295.8	295.2	295.5	296.7	295.5	296.3
52.5°	261.7	264.4	264.7	263.5	264.7	265.6	266.2	267.7
55°	231.5	232.4	233.0	234.2	234.8	236.6	234.8	234.8
57.5°	202.2	203.7	204.2	205.2	207.5	206.7	208.1	209.3
60°	175.6	177.4	178.5	179.5	180.3	182.4	183.1	182.8
62.5°	149.5	152.2	152.5	154.9	155.5	157.1	158.2	157.1
65°	125.3	127.7	129.5	131.0	132.8	134.3	134.0	134.8
67.5°	103.2	106.2	107.7	108.3	110.6	111.3	112.7	113.7
70°	83.1	85.2	87.0	87.9	89.5	91.2	92.8	93.6
72.5°	63.4	66.7	68.5	69.1	71.5	72.7	73.3	74.1
75°	47.0	49.6	50.6	52.0	53.2	55.9	55.6	56.3
77.5°	32.6	34.4	36.2	36.2	38.3	38.9	40.4	40.7
80°	19.5	21.6	22.4	22.7	24.2	25.2	25.7	26.3
82.5°	10.2	11.6	11.6	12.3	13.4	13.4	13.7	14.4
85°	3.9	4.4	4.8	4.8	5.1	5.7	5.7	6.0
87.5°	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8
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)