

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: P844117

Luminaire Tested: **LD6C20DE010B2750 EU6C20B30 6LBDWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844117  
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: LD6C20DE010B2750 EU6C20B30 6LBLDWWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

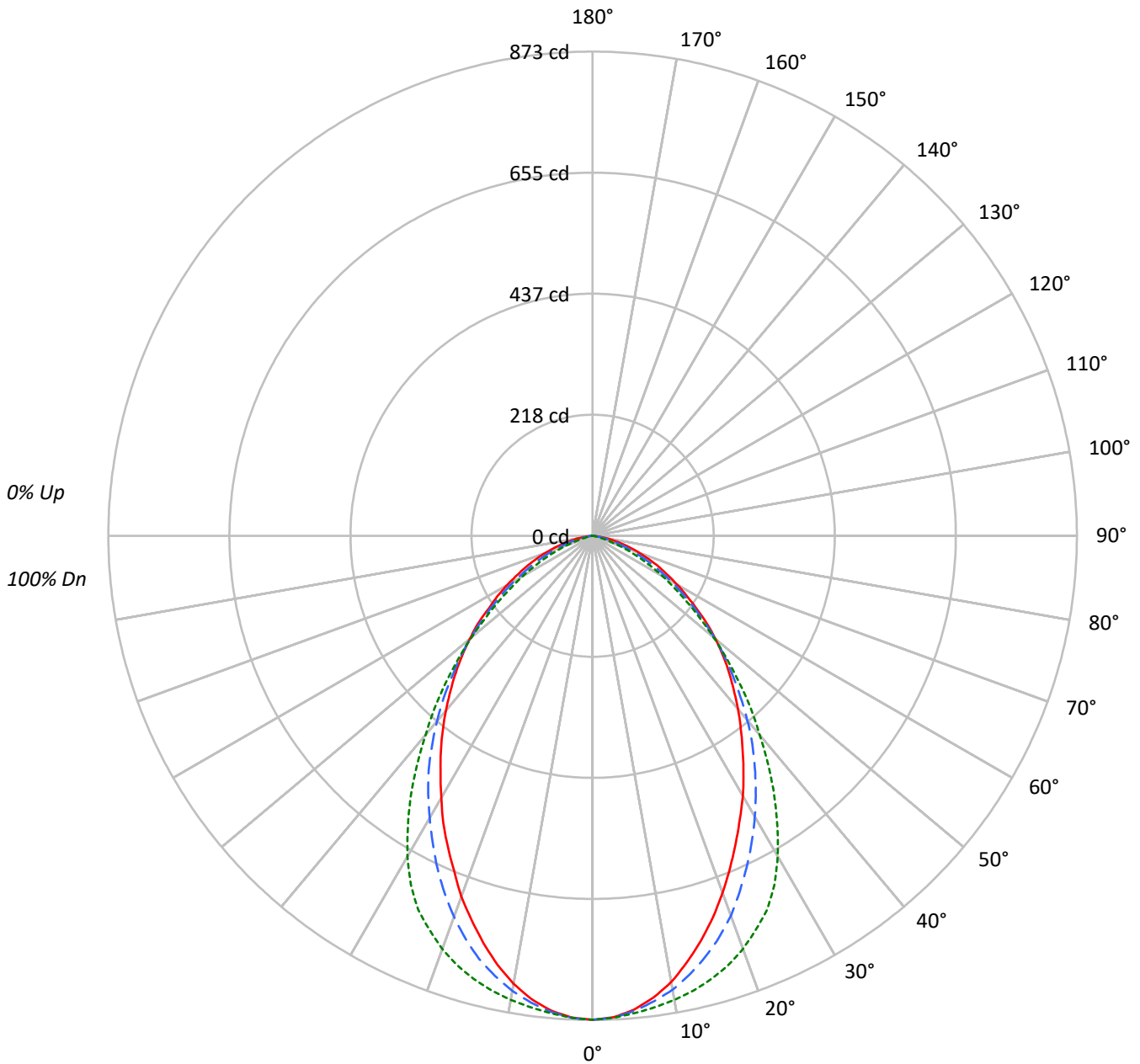
Lumens per Lamp: N/A  
Luminaire Lumens: 1562.1 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°	90°	180°
0°	47842	47842	47842
5°	47204	47546	47287
10°	45479	47299	45657
15°	42866	46964	43144
20°	39944	46239	40370
25°	36946	44997	37381
30°	34303	42241	34543
35°	31568	38200	31922
40°	29169	33506	29441
45°	26949	28964	27042
50°	24656	24281	24622
55°	21772	19832	21868
60°	19242	15909	19516
65°	16928	11830	17058
70°	14233	7421	14618
75°	11289	3156	11607
80°	7545	726	8082
85°	3145	189	3648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	5.2
10°-20°	221.9	14.2
20°-30°	306.3	19.6
30°-40°	322.2	20.6
40°-50°	277.5	17.8
50°-60°	197.6	12.6
60°-70°	111.4	7.1
70°-80°	39.5	2.5
80°-90°	4.4	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°	609.5	39.0
0°-40°	931.7	59.6
0°-60°	1406.8	90.1
0°-90°	1562.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	873	873	873	873	873	
5°	858	860	864	862	859	81
15°	755	786	828	790	760	212
25°	611	658	744	662	618	281
35°	472	510	571	515	477	295
45°	348	358	374	358	349	268
55°	228	220	208	220	229	205
65°	130	112	91	113	132	129
75°	53	36	15	36	55	58
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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	869.0	869.2	869.2	869.5	869.2	869.2	869.5	869.5	869.2	869.5	869.5
5°	857.8	857.5	857.8	858.2	859.0	859.0	858.7	858.7	859.5	859.3	859.9
7.5°	839.8	839.8	840.6	841.2	841.2	841.6	842.1	843.3	844.4	844.7	846.7
10°	817.0	817.3	817.0	818.2	819.0	820.5	820.2	822.3	824.3	827.3	831.0
12.5°	787.0	787.9	789.6	789.6	792.3	793.8	793.4	798.1	801.9	805.4	810.0
15°	755.3	754.9	756.4	758.7	761.4	763.4	764.4	770.4	774.2	780.0	785.8
17.5°	721.2	720.2	722.7	724.1	728.5	731.0	732.8	738.1	744.2	751.2	759.1
20°	684.7	686.2	686.8	688.8	694.7	696.7	699.6	705.4	711.6	719.7	728.7
22.5°	647.5	649.5	650.7	653.3	658.0	659.6	662.6	671.1	677.7	685.0	693.5
25°	610.8	613.1	615.1	618.3	621.6	624.1	627.9	633.7	641.3	648.0	657.6
27.5°	574.9	576.9	577.6	581.3	585.1	588.6	590.6	597.7	604.0	612.2	621.6
30°	541.9	540.8	542.2	545.4	549.9	552.2	555.7	560.3	567.3	575.1	584.8
32.5°	505.9	505.9	508.2	512.0	515.5	517.2	518.3	524.8	531.8	539.4	547.2
35°	471.7	472.9	475.0	477.3	481.1	482.5	485.1	489.8	495.4	503.8	509.7
37.5°	438.8	439.7	441.8	444.1	447.0	449.9	451.1	456.1	460.1	467.1	472.7
40°	407.6	407.9	410.3	411.1	413.7	414.9	417.2	419.9	425.7	428.7	433.8
42.5°	376.2	377.7	378.5	380.5	380.9	383.2	384.3	385.2	389.8	391.6	394.5
45°	347.6	347.6	348.5	348.5	350.0	349.1	350.8	352.6	352.8	355.8	357.5
47.5°	317.9	317.0	318.2	317.9	317.6	317.6	318.2	318.5	319.4	321.4	322.3
50°	289.1	287.0	287.0	286.7	286.4	287.3	287.3	287.0	287.0	287.9	287.0
52.5°	259.6	259.0	257.5	256.4	255.8	255.8	255.8	254.7	254.7	254.0	252.0
55°	227.8	228.8	228.1	227.6	227.3	226.4	226.4	225.0	222.6	221.5	220.3
57.5°	200.4	201.6	201.6	200.4	199.0	198.4	196.9	196.1	194.1	192.1	189.7
60°	175.5	176.8	174.8	174.0	173.7	172.8	172.2	169.0	167.0	164.9	162.3
62.5°	151.6	152.1	150.6	149.8	148.9	148.1	147.8	145.1	141.6	139.0	135.8
65°	130.5	129.7	129.0	127.7	126.2	125.0	125.0	121.5	118.3	115.1	111.9
67.5°	108.7	109.3	108.4	107.2	104.9	103.8	102.0	99.6	96.8	93.5	89.8
70°	88.8	88.6	87.7	86.5	85.0	83.0	81.5	80.4	76.4	72.6	69.4
72.5°	70.8	70.5	69.6	68.2	66.1	65.3	64.1	61.2	58.0	54.8	51.3
75°	53.3	53.6	52.1	51.6	49.3	48.3	48.1	44.6	42.0	39.0	35.9
77.5°	38.2	38.2	36.7	35.5	34.4	33.8	32.7	30.6	28.6	25.6	23.1
80°	23.9	23.9	23.9	22.7	21.6	20.9	20.1	18.6	16.6	14.9	13.1
82.5°	12.8	12.8	12.3	12.0	11.3	10.8	10.5	9.9	8.5	7.6	6.5
85°	5.0	5.0	4.7	4.7	4.1	4.1	3.8	3.5	3.0	2.6	2.3
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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	869.8	869.8	869.5	869.8	869.8	869.8	869.8	869.8	869.8	869.8	870.1
5°	860.5	861.3	861.7	861.9	862.5	862.8	863.0	863.3	863.7	864.0	864.0
7.5°	848.5	850.5	852.0	853.5	854.0	854.7	855.5	856.7	857.5	857.5	857.2
10°	834.3	836.9	839.8	842.4	843.3	844.7	846.2	847.9	849.4	849.7	849.7
12.5°	815.5	818.5	823.8	828.1	829.8	831.9	834.8	837.4	838.9	839.8	839.4
15°	792.3	798.4	805.7	810.7	813.0	816.5	821.1	824.0	826.3	827.5	827.0
17.5°	766.9	774.8	782.6	789.3	792.6	796.1	802.4	807.7	811.2	812.1	811.5
20°	738.1	746.8	755.3	763.7	768.1	772.2	778.8	785.6	791.4	792.6	791.6
22.5°	703.6	713.6	723.8	733.4	738.3	742.1	751.8	759.4	766.0	769.0	766.9
25°	668.1	678.7	689.4	697.8	703.4	709.8	718.6	727.3	735.5	743.9	736.3
27.5°	630.2	639.9	651.3	662.9	668.1	672.8	681.9	693.0	701.3	709.8	701.3
30°	592.4	604.6	614.8	625.1	630.9	636.4	645.4	654.5	662.6	667.3	662.0
32.5°	556.8	565.8	576.1	585.9	590.1	594.4	602.0	610.5	618.3	619.8	616.3
35°	519.5	527.4	535.9	542.2	547.2	551.9	558.5	563.8	565.8	570.8	567.3
37.5°	477.3	484.3	491.9	496.6	500.9	504.7	509.7	514.3	516.0	519.8	517.2
40°	437.3	443.1	447.6	452.6	454.9	458.6	460.7	464.5	466.5	468.2	468.5
42.5°	398.9	402.1	405.3	408.8	409.7	410.6	415.5	418.1	420.2	421.4	419.6
45°	359.6	362.8	363.9	366.6	368.1	368.6	370.6	370.9	371.5	373.6	372.7
47.5°	323.7	324.1	324.9	326.1	326.6	326.6	327.8	326.6	327.2	327.5	328.1
50°	286.1	288.2	286.1	287.3	287.6	287.3	286.4	285.9	284.9	284.7	284.4
52.5°	250.6	250.9	249.7	248.9	248.0	248.2	245.9	244.7	245.1	243.3	245.4
55°	218.3	217.1	214.5	213.5	211.5	211.2	211.0	209.5	207.2	207.5	208.0
57.5°	187.1	185.0	182.4	181.0	180.3	178.0	177.8	175.5	174.0	173.7	173.7
60°	158.9	157.1	154.4	151.8	149.8	148.6	147.1	144.8	145.4	145.1	143.6
62.5°	132.0	130.0	126.2	123.2	122.1	121.2	119.2	117.4	116.6	117.4	116.6
65°	108.1	104.9	100.5	97.6	97.3	96.1	93.8	92.6	91.8	91.2	92.1
67.5°	86.0	81.5	79.0	75.2	73.4	72.9	69.6	67.9	68.2	67.9	68.2
70°	65.6	61.2	57.7	54.8	52.5	51.6	49.8	47.5	47.2	46.3	47.5
72.5°	47.5	43.7	40.5	37.3	35.2	34.1	31.7	29.4	28.9	28.2	28.2
75°	32.7	29.4	25.9	23.1	21.6	20.4	18.1	16.3	14.9	14.9	14.9
77.5°	20.4	17.8	15.1	13.1	12.3	11.1	9.0	7.3	6.7	5.8	6.1
80°	11.6	9.6	8.1	6.7	5.8	5.3	4.1	3.2	2.3	2.3	2.3
82.5°	5.5	4.7	3.5	3.0	2.6	2.0	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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	869.8	870.1	869.8	870.1	869.8	870.3	870.3	870.1	870.1	870.1	869.8
5°	863.7	863.7	863.3	863.3	863.3	863.0	862.2	862.2	861.7	861.3	860.7
7.5°	857.0	856.4	855.5	855.2	854.4	853.5	851.7	850.2	849.1	847.6	846.2
10°	848.8	847.4	845.6	844.4	843.9	841.8	839.2	835.6	833.3	830.8	827.8
12.5°	838.3	836.6	833.3	831.0	829.6	825.8	822.0	817.7	813.0	808.3	805.4
15°	824.6	821.7	817.7	815.3	812.7	807.4	800.7	794.6	789.9	784.7	777.7
17.5°	808.6	804.2	798.7	794.9	791.6	784.7	776.8	769.0	761.9	755.6	748.6
20°	786.5	781.2	774.5	769.5	766.4	757.3	748.8	739.5	731.0	723.5	715.4
22.5°	760.5	751.8	745.1	739.3	735.8	725.5	716.2	706.3	697.3	690.5	681.9
25°	727.9	719.4	710.9	706.3	700.8	690.0	680.4	670.2	661.8	653.3	645.2
27.5°	693.2	683.3	673.9	668.4	663.5	653.0	643.4	634.1	624.4	615.1	607.8
30°	655.3	645.4	638.2	631.1	625.6	617.1	605.2	595.9	587.4	578.9	571.4
32.5°	613.1	604.9	596.2	592.7	588.6	578.4	569.1	560.0	551.6	543.1	535.3
35°	564.1	557.7	552.5	548.7	546.1	537.1	529.8	520.1	514.9	506.4	500.6
37.5°	514.0	510.8	507.3	502.6	498.9	493.6	489.3	481.3	475.2	469.2	462.7
40°	465.9	462.4	457.7	455.4	454.6	449.9	443.8	439.7	436.2	430.7	427.2
42.5°	419.0	417.2	412.6	411.4	410.3	406.2	403.3	399.8	397.5	393.3	391.6
45°	371.2	370.9	369.7	368.6	368.1	365.1	364.6	360.1	358.1	357.3	355.5
47.5°	328.9	328.1	326.4	328.1	325.4	325.2	325.2	324.3	323.4	321.1	320.8
50°	285.9	287.3	287.6	286.7	288.5	288.2	286.7	287.0	287.6	288.7	287.0
52.5°	246.2	247.4	249.4	248.5	250.0	251.5	250.9	253.2	252.4	253.5	255.8
55°	208.7	211.8	213.9	213.0	214.2	215.9	216.5	218.5	220.3	222.3	223.8
57.5°	176.3	177.2	180.1	181.0	181.3	182.7	185.6	188.8	190.9	192.3	193.8
60°	144.6	147.4	149.4	149.4	151.8	153.9	156.4	159.4	161.7	165.2	167.8
62.5°	117.7	118.3	121.2	121.5	123.2	126.7	128.8	133.2	136.1	139.8	143.3
65°	91.8	94.4	96.1	96.5	99.1	101.7	104.6	108.7	112.7	116.0	119.2
67.5°	68.7	70.2	72.6	74.6	75.2	79.0	83.3	87.1	90.6	93.5	97.6
70°	48.1	49.3	52.5	53.6	55.3	58.3	61.8	65.9	69.9	74.0	77.2
72.5°	29.4	32.0	34.1	35.9	37.3	40.8	44.6	48.1	51.6	55.1	59.1
75°	16.3	18.1	20.4	22.1	23.6	26.2	29.7	33.2	36.4	39.7	42.5
77.5°	7.3	9.0	11.1	12.3	13.4	15.8	18.4	21.3	23.9	26.2	28.9
80°	3.0	4.1	5.3	6.1	6.7	8.1	10.2	11.6	13.4	15.4	17.5
82.5°	1.2	1.5	2.0	2.6	3.0	3.8	4.7	5.5	7.0	7.8	9.0
85°	0.3	0.3	0.6	0.6	0.8	1.2	1.5	2.0	2.3	2.6	3.2
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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	869.8	869.5	869.5	869.5	869.5	869.2	869.2	869.2
5°	861.0	860.5	860.2	860.2	859.3	859.5	859.5	859.3
7.5°	845.6	845.0	844.1	844.7	844.4	843.6	843.3	842.9
10°	825.5	824.3	824.0	822.6	821.7	821.4	821.4	820.2
12.5°	801.6	798.4	798.1	796.6	794.6	793.4	794.1	792.3
15°	775.0	770.4	768.1	766.9	764.6	762.6	760.8	760.2
17.5°	742.8	737.5	735.8	734.5	729.7	729.3	727.0	726.2
20°	708.9	704.3	701.6	699.9	696.1	692.6	692.3	692.0
22.5°	676.0	668.4	666.1	663.5	659.4	656.5	654.8	653.3
25°	638.7	632.6	628.6	625.9	622.9	620.6	618.3	618.0
27.5°	601.4	595.6	593.0	590.6	586.9	584.2	581.9	583.1
30°	565.0	559.2	556.2	554.5	550.7	549.2	545.2	545.7
32.5°	528.8	523.6	521.6	518.0	514.5	512.8	511.4	510.2
35°	494.2	489.8	486.9	484.6	481.3	478.5	477.0	477.0
37.5°	458.9	454.6	453.1	451.4	448.4	444.3	442.9	444.1
40°	423.1	419.9	418.4	417.2	414.4	412.9	411.4	411.4
42.5°	389.0	385.8	385.5	384.3	382.0	381.2	380.0	379.1
45°	353.5	352.0	350.8	350.8	350.5	350.3	349.3	348.8
47.5°	319.4	319.6	319.1	318.8	319.1	318.2	319.4	318.5
50°	288.2	287.6	288.2	287.6	287.9	289.1	287.9	288.7
52.5°	255.0	257.5	257.9	256.7	257.9	258.7	259.3	260.8
55°	225.5	226.4	227.0	228.1	228.8	230.5	228.8	228.8
57.5°	196.9	198.4	199.0	199.9	202.2	201.4	202.9	204.0
60°	171.0	172.8	174.0	174.8	175.7	177.8	178.3	178.0
62.5°	145.7	148.3	148.6	150.9	151.6	152.9	154.1	152.9
65°	122.1	124.4	126.2	127.7	129.3	130.8	130.5	131.5
67.5°	100.5	103.4	104.9	105.4	107.8	108.4	109.9	110.7
70°	81.0	83.0	84.8	85.7	87.1	88.8	90.3	91.2
72.5°	61.8	64.9	66.7	67.3	69.6	70.8	71.4	72.2
75°	45.8	48.3	49.3	50.7	51.8	54.5	54.2	54.8
77.5°	31.7	33.5	35.2	35.2	37.3	37.9	39.3	39.7
80°	18.9	20.9	21.9	22.1	23.6	24.4	25.1	25.6
82.5°	9.9	11.3	11.3	12.0	13.1	13.1	13.4	14.0
85°	3.8	4.3	4.7	4.7	5.0	5.5	5.5	5.8
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)