

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: P844100

Luminaire Tested: **LD6C20DE010B2750 EU6C20B27 6LBDWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844100  
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 EU6C20B27 6LBLDWWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

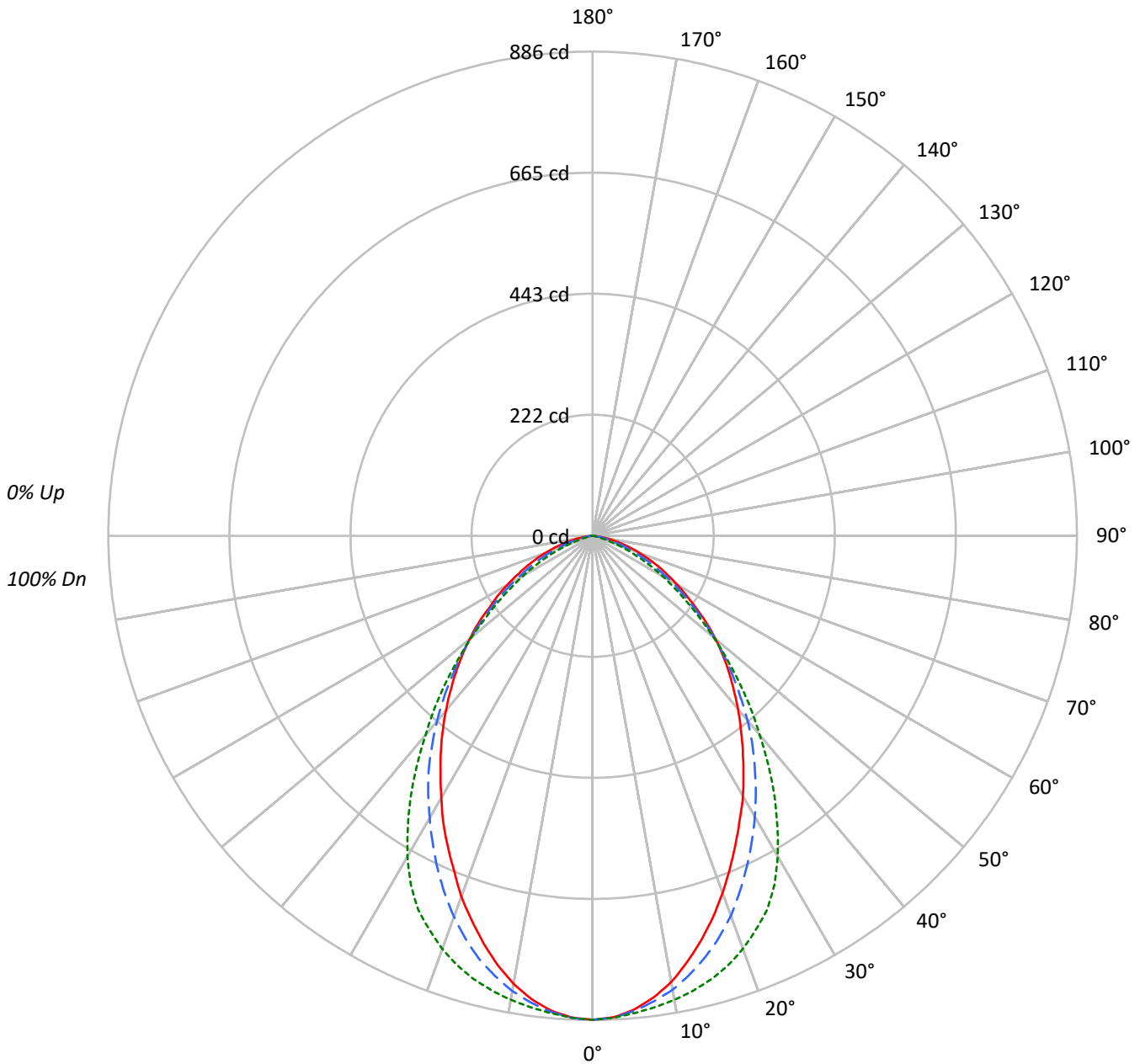
Lumens per Lamp: N/A  
Luminaire Lumens: 1585.4 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	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°	48554	48554	48554
5°	47909	48250	47991
10°	46158	48001	46342
15°	43502	47668	43786
20°	40545	46922	40977
25°	37496	45662	37944
30°	34822	42867	35062
35°	32043	38775	32397
40°	29605	34007	29885
45°	27352	29398	27445
50°	25023	24639	24997
55°	22107	20128	22193
60°	19516	16139	19801
65°	17187	11999	17304
70°	14458	7549	14826
75°	11480	3198	11777
80°	7640	726	8208
85°	3208	189	3711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	5.2
10°-20°	225.2	14.2
20°-30°	310.9	19.6
30°-40°	327.0	20.6
40°-50°	281.6	17.8
50°-60°	200.5	12.6
60°-70°	113.0	7.1
70°-80°	40.1	2.5
80°-90°	4.5	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°	618.6	39.0
0°-40°	945.6	59.6
0°-60°	1427.8	90.1
0°-90°	1585.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1585.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	886	886	886	886	886	
5°	871	873	877	874	872	82
15°	766	798	840	802	772	215
25°	620	668	755	672	627	285
35°	479	517	579	523	484	300
45°	353	363	379	363	354	272
55°	231	224	211	224	232	208
65°	132	114	92	114	133	131
75°	54	36	15	37	56	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	881.9	882.2	882.2	882.5	882.2	882.2	882.5	882.5	882.2	882.5	882.5
5°	870.6	870.3	870.6	870.9	871.8	871.8	871.5	871.5	872.3	872.1	872.7
7.5°	852.2	852.2	853.2	853.7	853.7	854.0	854.7	855.8	857.0	857.3	859.3
10°	829.2	829.5	829.2	830.3	831.3	832.8	832.5	834.6	836.6	839.5	843.4
12.5°	798.7	799.7	801.4	801.4	804.1	805.6	805.3	809.9	813.8	817.3	822.1
15°	766.5	766.3	767.7	770.1	772.7	774.8	775.7	781.9	785.7	791.6	797.6
17.5°	731.9	731.0	733.4	734.8	739.3	741.9	743.7	749.0	755.3	762.3	770.4
20°	695.0	696.5	697.0	699.1	705.0	707.0	710.0	715.9	722.2	730.4	739.6
22.5°	657.1	659.1	660.4	663.0	667.8	669.5	672.4	681.0	687.9	695.3	703.9
25°	619.9	622.2	624.3	627.5	630.8	633.4	637.3	643.1	650.9	657.7	667.5
27.5°	583.5	585.5	586.1	589.9	593.9	597.4	599.5	606.6	613.0	621.4	630.8
30°	550.1	548.9	550.4	553.6	558.0	560.4	563.9	568.7	575.8	583.7	593.5
32.5°	513.4	513.4	515.7	519.6	523.1	524.9	526.1	532.6	539.7	547.4	555.4
35°	478.8	480.0	482.1	484.4	488.2	489.7	492.3	497.1	502.7	511.3	517.2
37.5°	445.4	446.2	448.3	450.7	453.6	456.6	457.7	462.8	466.9	474.0	479.6
40°	413.7	414.1	416.4	417.2	419.9	421.1	423.5	426.1	432.0	435.0	440.3
42.5°	381.8	383.3	384.1	386.2	386.5	388.9	390.1	390.9	395.7	397.5	400.4
45°	352.8	352.8	353.7	353.7	355.2	354.3	356.0	357.8	358.1	361.1	362.9
47.5°	322.7	321.7	322.9	322.7	322.4	322.4	322.9	323.2	324.2	326.2	327.0
50°	293.4	291.3	291.3	291.0	290.7	291.6	291.6	291.3	291.3	292.2	291.3
52.5°	263.5	262.9	261.4	260.3	259.6	259.6	259.6	258.5	258.5	257.9	255.8
55°	231.3	232.2	231.5	231.0	230.7	229.8	229.8	228.3	225.9	224.7	223.6
57.5°	203.5	204.7	204.7	203.5	202.0	201.4	199.9	199.0	196.9	194.9	192.5
60°	178.0	179.5	177.5	176.5	176.2	175.4	174.7	171.5	169.4	167.4	164.7
62.5°	153.8	154.4	152.9	152.0	151.1	150.2	150.0	147.2	143.7	141.1	137.8
65°	132.5	131.6	131.0	129.6	128.1	126.9	126.9	123.3	120.0	116.8	113.6
67.5°	110.3	110.9	110.0	108.8	106.5	105.2	103.5	101.1	98.1	95.0	91.1
70°	90.2	89.9	89.1	87.8	86.3	84.3	82.8	81.6	77.5	73.6	70.3
72.5°	71.8	71.6	70.6	69.2	67.2	66.2	65.0	62.1	58.8	55.6	52.0
75°	54.2	54.4	52.9	52.4	50.0	49.1	48.8	45.3	42.6	39.7	36.4
77.5°	38.7	38.7	37.2	36.1	34.9	34.3	33.1	31.1	29.0	26.0	23.4
80°	24.2	24.2	24.2	23.1	21.9	21.3	20.4	18.9	16.8	15.1	13.3
82.5°	13.0	13.0	12.4	12.2	11.5	10.9	10.7	10.0	8.6	7.7	6.6
85°	5.1	5.1	4.8	4.8	4.1	4.1	3.8	3.6	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	882.7	882.7	882.5	882.7	882.7	882.7	882.7	882.7	882.7	882.7	883.0
5°	873.3	874.1	874.5	874.8	875.3	875.6	875.9	876.2	876.6	876.8	876.8
7.5°	861.1	863.2	864.7	866.2	866.7	867.4	868.2	869.5	870.3	870.3	870.0
10°	846.6	849.3	852.2	854.9	855.8	857.3	858.8	860.6	862.1	862.3	862.3
12.5°	827.7	830.7	836.1	840.4	842.2	844.3	847.3	849.9	851.4	852.2	852.0
15°	804.1	810.3	817.7	822.7	825.1	828.7	833.3	836.3	838.7	839.9	839.2
17.5°	778.3	786.4	794.3	801.2	804.3	807.9	814.4	819.8	823.3	824.2	823.6
20°	749.0	757.9	766.5	775.1	779.5	783.7	790.5	797.2	803.2	804.3	803.5
22.5°	714.2	724.3	734.5	744.4	749.3	753.2	763.0	770.7	777.5	780.4	778.3
25°	678.0	688.7	699.7	708.3	713.9	720.4	729.2	738.1	746.4	754.9	747.3
27.5°	639.7	649.4	660.9	672.8	678.0	682.8	692.0	703.2	711.8	720.4	711.8
30°	601.2	613.6	624.0	634.4	640.3	645.9	655.0	664.2	672.4	677.2	671.9
32.5°	565.1	574.3	584.7	594.7	598.8	603.3	611.0	619.6	627.5	629.0	625.5
35°	527.2	535.3	543.8	550.4	555.4	560.1	566.9	572.2	574.3	579.4	575.8
37.5°	484.4	491.5	499.2	504.0	508.3	512.2	517.2	521.9	523.7	527.5	524.9
40°	443.9	449.8	454.3	459.2	461.7	465.5	467.6	471.4	473.5	475.2	475.5
42.5°	404.9	408.1	411.3	414.9	415.8	416.7	421.7	424.3	426.4	427.6	425.8
45°	364.9	368.2	369.3	372.0	373.5	374.1	376.2	376.4	377.0	379.2	378.2
47.5°	328.5	328.8	329.8	330.9	331.5	331.5	332.7	331.5	332.1	332.4	332.9
50°	290.4	292.4	290.4	291.6	291.9	291.6	290.7	290.1	289.3	288.9	288.6
52.5°	254.4	254.6	253.4	252.6	251.6	251.9	249.6	248.4	248.8	247.0	249.0
55°	221.5	220.3	217.7	216.8	214.7	214.4	214.1	212.6	210.3	210.6	211.1
57.5°	189.8	187.8	185.1	183.6	183.1	180.6	180.4	178.0	176.5	176.2	176.2
60°	161.2	159.4	156.7	154.1	152.0	150.8	149.3	147.0	147.5	147.2	145.7
62.5°	134.0	131.9	128.1	125.1	124.0	123.0	121.0	119.2	118.2	119.2	118.2
65°	109.7	106.5	102.1	99.1	98.8	97.6	95.2	94.0	93.2	92.5	93.5
67.5°	87.3	82.8	80.2	76.3	74.6	73.9	70.6	68.9	69.2	68.9	69.2
70°	66.5	62.1	58.6	55.6	53.2	52.4	50.6	48.2	47.9	47.1	48.2
72.5°	48.2	44.3	41.1	37.9	35.7	34.6	32.3	29.8	29.3	28.7	28.7
75°	33.1	29.8	26.3	23.4	21.9	20.7	18.3	16.6	15.1	15.1	15.1
77.5°	20.7	18.1	15.3	13.3	12.4	11.2	9.2	7.4	6.8	5.9	6.2
80°	11.8	9.7	8.2	6.8	5.9	5.3	4.1	3.3	2.3	2.3	2.3
82.5°	5.6	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	882.7	883.0	882.7	883.0	882.7	883.3	883.3	883.0	883.0	883.0	882.7
5°	876.6	876.6	876.2	876.2	876.2	875.9	875.1	875.1	874.5	874.1	873.6
7.5°	869.7	869.2	868.2	868.0	867.0	866.2	864.4	862.9	861.8	860.3	858.8
10°	861.4	860.0	858.2	857.0	856.4	854.4	851.7	848.1	845.8	843.1	840.2
12.5°	850.8	849.1	845.8	843.4	841.9	838.1	834.3	829.8	825.1	820.3	817.3
15°	836.9	833.9	829.8	827.4	824.7	819.5	812.7	806.4	801.7	796.4	789.3
17.5°	820.6	816.2	810.6	806.8	803.5	796.4	788.4	780.4	773.3	766.8	759.7
20°	798.2	792.8	786.0	781.0	777.8	768.6	760.0	750.5	741.9	734.3	726.0
22.5°	771.9	763.0	756.2	750.3	746.7	736.3	726.9	716.9	707.7	700.9	692.0
25°	738.8	730.2	721.5	716.9	711.3	700.3	690.5	680.2	671.6	663.0	654.8
27.5°	703.5	693.5	684.0	678.4	673.4	662.7	653.0	643.5	633.7	624.3	616.9
30°	665.0	655.0	647.6	640.5	634.9	626.3	614.2	604.8	596.2	587.6	579.9
32.5°	622.2	614.0	605.1	601.5	597.4	587.0	577.6	568.4	559.8	551.2	543.2
35°	572.5	566.0	560.7	556.8	554.2	545.0	537.6	527.9	522.6	514.0	508.1
37.5°	521.6	518.5	514.9	510.1	506.3	501.0	496.6	488.5	482.3	476.1	469.6
40°	472.9	469.3	464.6	462.2	461.3	456.6	450.3	446.2	442.7	437.1	433.5
42.5°	425.3	423.5	418.7	417.6	416.4	412.3	409.3	405.7	403.4	399.3	397.5
45°	376.7	376.4	375.2	374.1	373.5	370.5	370.0	365.5	363.4	362.6	360.8
47.5°	333.9	332.9	331.3	332.9	330.3	330.0	330.0	329.1	328.3	325.9	325.5
50°	290.1	291.6	291.9	291.0	292.8	292.4	291.0	291.3	291.9	293.1	291.3
52.5°	249.9	251.1	253.1	252.2	253.7	255.2	254.6	257.0	256.1	257.3	259.6
55°	211.7	215.0	217.0	216.2	217.3	219.1	219.7	221.8	223.6	225.6	227.1
57.5°	179.0	179.8	182.8	183.6	183.9	185.4	188.4	191.6	193.7	195.1	196.6
60°	146.7	149.7	151.7	151.7	154.1	156.1	158.8	161.7	164.1	167.6	170.4
62.5°	119.5	120.0	123.0	123.3	125.1	128.6	130.7	135.2	138.1	141.9	145.5
65°	93.2	95.8	97.6	97.9	100.6	103.2	106.2	110.3	114.4	117.7	121.0
67.5°	69.8	71.3	73.6	75.7	76.3	80.2	84.6	88.4	92.0	95.0	99.1
70°	48.8	50.0	53.2	54.4	56.2	59.1	62.7	66.8	71.0	75.1	78.4
72.5°	29.8	32.6	34.6	36.4	37.9	41.4	45.3	48.8	52.4	55.8	60.1
75°	16.6	18.3	20.7	22.5	23.9	26.7	30.1	33.7	37.0	40.2	43.2
77.5°	7.4	9.2	11.2	12.4	13.6	16.0	18.6	21.6	24.2	26.7	29.3
80°	3.0	4.1	5.3	6.2	6.8	8.2	10.4	11.8	13.6	15.7	17.8
82.5°	1.2	1.5	2.1	2.6	3.0	3.8	4.8	5.6	7.1	7.9	9.2
85°	0.3	0.3	0.6	0.6	0.8	1.2	1.5	2.1	2.3	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	882.7	882.5	882.5	882.5	882.5	882.2	882.2	882.2
5°	873.8	873.3	873.0	873.0	872.1	872.3	872.3	872.1
7.5°	858.2	857.6	856.7	857.3	857.0	856.2	855.8	855.5
10°	837.8	836.6	836.3	834.8	833.9	833.6	833.6	832.5
12.5°	813.5	810.3	809.9	808.6	806.4	805.3	805.8	804.1
15°	786.7	781.9	779.5	778.3	776.0	773.9	772.2	771.5
17.5°	753.8	748.5	746.7	745.5	740.4	740.2	737.8	737.0
20°	719.5	714.7	712.1	710.3	706.5	702.9	702.7	702.4
22.5°	686.1	678.4	676.0	673.4	669.3	666.3	664.5	663.0
25°	648.2	642.0	637.9	635.2	632.3	629.9	627.5	627.3
27.5°	610.4	604.4	601.8	599.5	595.6	592.9	590.6	591.7
30°	573.4	567.5	564.6	562.8	559.0	557.5	553.2	553.9
32.5°	536.7	531.5	529.3	525.7	522.3	520.5	519.0	517.8
35°	501.5	497.1	494.1	491.8	488.5	485.6	484.1	484.1
37.5°	465.8	461.3	459.9	458.1	455.1	451.0	449.5	450.7
40°	429.4	426.1	424.6	423.5	420.5	419.0	417.6	417.6
42.5°	394.8	391.5	391.2	390.1	387.7	386.8	385.6	384.8
45°	358.7	357.3	356.0	356.0	355.8	355.5	354.6	354.0
47.5°	324.2	324.4	323.8	323.5	323.8	322.9	324.2	323.2
50°	292.4	291.9	292.4	291.9	292.2	293.4	292.2	293.1
52.5°	258.8	261.4	261.8	260.5	261.8	262.6	263.2	264.6
55°	228.9	229.8	230.4	231.5	232.2	233.9	232.2	232.2
57.5°	199.9	201.4	202.0	202.9	205.2	204.3	205.8	207.0
60°	173.6	175.4	176.5	177.5	178.3	180.4	181.0	180.6
62.5°	147.9	150.5	150.8	153.1	153.8	155.3	156.4	155.3
65°	124.0	126.3	128.1	129.6	131.3	132.7	132.5	133.4
67.5°	102.1	105.0	106.5	107.0	109.5	110.0	111.5	112.4
70°	82.2	84.3	86.1	86.9	88.4	90.2	91.7	92.5
72.5°	62.7	66.0	67.7	68.3	70.6	71.8	72.4	73.3
75°	46.4	49.1	50.0	51.5	52.7	55.3	55.0	55.6
77.5°	32.3	34.1	35.7	35.7	37.9	38.4	39.9	40.2
80°	19.2	21.3	22.2	22.5	23.9	24.9	25.4	26.0
82.5°	10.0	11.5	11.5	12.2	13.3	13.3	13.6	14.2
85°	3.8	4.4	4.8	4.8	5.1	5.6	5.6	5.9
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)