

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: P844135

Luminaire Tested: **LD6C20DE010B35 EU6C20B35 6LBLWWH**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C20DE010B35 EU6C20B35 6LBLWWH  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

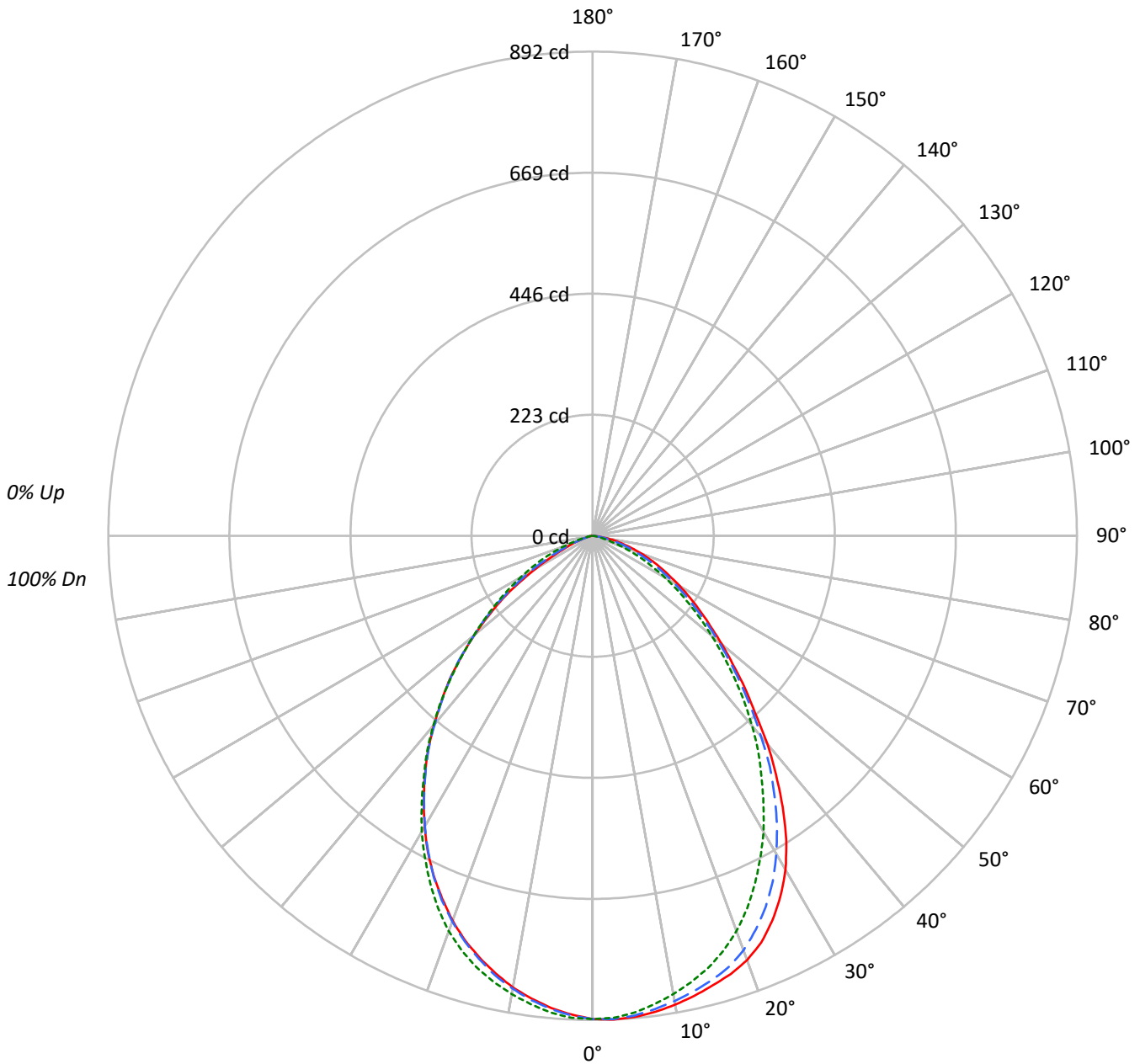
Lumens per Lamp: N/A  
Luminaire Lumens: 1619.2 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

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

	0°	90°	180°
0°	48801	48801	48801
5°	48971	48531	48052
10°	48819	47733	47038
15°	48638	46754	45664
20°	48526	45212	44005
25°	47350	42783	41845
30°	44982	39854	39190
35°	40830	36286	36051
40°	35824	32661	32482
45°	30716	28538	28763
50°	26438	24315	24195
55°	23110	20530	19278
60°	20305	16830	13157
65°	17784	13049	7913
70°	15163	8784	4648
75°	12221	4575	2542
80°	8524	1799	1389
85°	3397	503	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	5.2
10°-20°	232.9	14.4
20°-30°	331.5	20.5
30°-40°	348.9	21.5
40°-50°	290.7	18.0
50°-60°	196.4	12.1
60°-70°	99.6	6.2
70°-80°	32.1	2.0
80°-90°	3.7	0.2
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°	647.8	40.0
0°-40°	996.7	61.6
0°-60°	1483.8	91.6
0°-90°	1619.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	890	890	890	890	890	
5°	890	887	882	875	873	85
15°	857	848	824	807	805	242
25°	783	754	707	693	692	359
35°	610	584	542	537	539	380
45°	396	386	368	370	371	307
55°	242	230	215	208	202	218
65°	137	124	101	73	61	136
75°	58	45	22	12	12	62
85°	5	3	1	1	1	9
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°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	892.3	892.3	892.3	892.3	892.3	892.3	892.0	892.0	891.4	891.4	891.1
5°	889.9	890.2	890.2	889.9	889.9	889.3	889.3	889.0	888.1	887.5	887.2
7.5°	884.8	884.8	884.5	884.2	883.9	883.0	882.7	881.9	881.2	880.6	879.4
10°	877.0	877.0	876.8	876.1	875.8	875.2	875.2	874.0	872.9	871.4	870.4
12.5°	867.8	868.1	867.5	867.2	866.3	866.0	865.4	863.9	862.9	861.1	859.6
15°	857.0	857.5	857.5	856.4	855.5	855.2	854.3	853.4	851.3	849.5	847.7
17.5°	846.5	847.1	846.5	845.6	844.7	843.6	842.9	841.1	838.4	836.1	833.3
20°	831.8	832.8	831.5	830.0	828.2	827.9	827.1	824.1	820.2	816.6	812.7
22.5°	811.2	810.6	809.7	809.1	806.1	804.3	803.2	799.3	795.0	790.3	785.5
25°	782.8	783.9	782.2	779.5	778.0	776.2	773.2	769.0	765.1	760.0	754.3
27.5°	749.2	749.2	746.9	745.9	742.7	740.2	738.8	734.6	729.6	724.4	718.1
30°	710.6	708.8	708.8	704.7	702.0	701.1	699.6	692.8	688.2	682.8	676.6
32.5°	664.0	663.7	662.5	659.8	656.2	653.2	653.2	648.4	642.4	635.8	631.9
35°	610.1	610.5	609.8	606.9	606.9	603.3	602.6	598.4	593.6	588.6	583.8
37.5°	554.5	555.7	554.5	552.9	552.1	551.8	549.1	546.1	542.5	539.5	535.9
40°	500.6	498.8	499.4	496.5	496.7	496.1	494.9	491.1	488.9	486.0	482.1
42.5°	442.5	444.3	444.9	443.1	442.5	441.4	442.5	441.0	438.7	437.1	433.6
45°	396.2	394.4	395.2	394.7	395.0	392.6	391.6	391.1	390.2	387.5	386.0
47.5°	350.1	350.4	350.1	348.9	348.3	348.3	347.1	345.3	345.3	343.5	342.4
50°	310.0	310.0	310.6	309.1	308.5	307.3	307.6	305.8	304.6	303.1	302.2
52.5°	273.2	273.5	272.3	272.6	272.0	272.0	270.8	269.6	268.4	265.7	265.1
55°	241.8	242.1	240.6	241.1	239.3	238.5	237.9	236.1	236.1	233.4	230.1
57.5°	212.5	212.2	211.8	211.0	209.7	208.9	207.9	205.8	205.0	203.2	200.5
60°	185.2	184.9	184.3	184.0	183.1	181.1	181.1	179.6	176.5	174.7	172.1
62.5°	159.5	159.5	159.2	158.3	157.4	156.5	155.9	154.7	151.7	149.7	147.2
65°	137.1	136.8	135.8	134.3	133.8	133.8	131.7	130.7	128.4	126.3	123.5
67.5°	115.5	114.3	113.7	114.0	112.2	112.2	110.4	108.9	106.8	103.2	101.1
70°	94.6	93.9	93.4	92.8	92.4	91.3	90.3	88.5	86.5	83.8	80.5
72.5°	75.7	75.7	74.8	74.2	73.3	72.1	71.5	70.0	67.6	64.6	62.2
75°	57.7	57.7	57.7	56.6	55.9	55.3	53.5	52.7	49.9	48.2	45.2
77.5°	42.5	41.9	41.0	40.7	40.1	39.4	38.6	37.1	34.7	32.6	30.8
80°	27.0	27.8	27.0	27.0	25.4	24.9	24.5	22.7	21.9	20.1	18.5
82.5°	14.9	15.2	14.7	14.4	13.4	13.1	13.1	12.0	11.4	10.2	9.3
85°	5.4	5.7	5.4	5.4	4.8	5.1	4.8	4.4	3.9	3.3	3.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	891.1	890.5	890.5	890.2	889.9	889.9	889.9	889.6	889.0	889.0	888.7
5°	886.6	886.0	885.1	884.5	884.2	883.9	883.7	883.3	882.1	881.9	880.9
7.5°	878.6	877.9	876.5	875.8	875.0	874.7	873.4	872.9	871.6	870.4	869.8
10°	869.0	867.5	866.3	864.7	864.2	863.2	861.8	860.0	859.1	857.5	856.4
12.5°	858.2	856.4	854.0	852.2	851.6	850.1	847.7	846.2	844.1	841.8	839.7
15°	844.7	842.6	840.5	837.2	836.4	834.6	832.1	829.2	826.1	823.8	821.4
17.5°	830.0	826.8	823.5	819.9	817.2	816.3	812.4	808.2	805.5	801.4	798.6
20°	809.4	805.0	799.6	796.0	793.5	790.9	786.4	781.9	778.6	775.0	771.1
22.5°	781.0	776.8	770.5	765.1	763.3	759.5	755.6	751.3	747.2	743.3	738.4
25°	747.4	743.0	736.6	731.4	728.3	726.5	719.1	714.9	710.6	707.3	704.1
27.5°	713.1	705.0	700.8	692.4	689.7	689.2	682.3	677.7	673.3	668.7	664.6
30°	670.5	664.3	658.0	652.0	648.4	646.3	641.2	635.5	632.6	629.6	625.4
32.5°	626.5	620.9	613.1	607.4	604.8	601.8	597.2	593.3	588.9	585.6	584.7
35°	579.6	573.3	566.7	562.6	561.9	558.3	553.9	550.6	547.3	542.2	541.3
37.5°	529.3	525.7	521.2	515.3	512.5	512.5	508.1	505.7	501.5	501.2	498.8
40°	480.0	478.5	471.6	469.8	469.2	465.0	463.8	459.6	456.6	456.4	452.8
42.5°	431.2	427.3	426.1	423.1	420.4	419.8	417.1	415.3	414.2	412.4	410.6
45°	382.8	381.8	378.8	376.7	375.8	374.6	373.8	370.2	369.5	368.1	367.1
47.5°	340.8	338.4	335.7	333.4	333.0	331.3	329.1	329.1	325.9	325.5	325.0
50°	299.2	297.4	295.9	292.6	293.3	290.8	290.5	287.9	286.4	285.1	286.6
52.5°	262.7	259.1	258.5	255.8	254.9	255.2	251.9	251.1	250.4	249.3	248.6
55°	228.0	226.2	223.8	222.0	220.5	219.0	217.9	217.9	214.6	214.8	213.3
57.5°	197.5	196.0	193.0	190.3	189.7	187.9	186.5	184.9	184.7	182.5	181.1
60°	170.3	167.5	163.7	162.5	160.7	159.2	157.7	155.9	155.0	153.5	150.8
62.5°	144.8	140.3	138.9	136.4	134.3	133.5	131.0	128.9	127.4	125.3	123.3
65°	120.6	117.3	114.6	111.9	111.6	109.3	107.1	105.3	102.4	100.6	96.7
67.5°	98.5	95.5	92.4	89.8	87.7	87.0	83.8	81.6	79.6	76.0	72.7
70°	78.1	75.1	72.7	69.4	68.5	66.1	63.8	61.7	58.1	54.8	52.0
72.5°	59.5	56.3	53.5	51.2	49.7	47.6	45.2	42.8	39.2	36.0	33.5
75°	42.5	40.1	37.4	35.0	33.8	32.6	29.9	27.2	24.9	21.6	19.5
77.5°	28.8	26.3	23.9	21.9	20.3	19.5	17.7	15.5	13.4	11.6	10.2
80°	16.7	15.2	13.4	11.6	11.4	10.5	9.0	7.8	6.6	5.7	4.4
82.5°	8.0	7.2	6.0	5.1	4.4	4.2	3.6	3.0	2.4	2.1	2.1
85°	2.4	2.1	1.8	1.5	1.2	1.2	0.8	0.8	0.8	0.8	0.8
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	887.8	887.5	887.2	886.9	886.3	886.3	885.5	884.8	884.8	884.2	883.9
5°	880.1	879.1	878.8	878.3	877.6	877.3	876.1	875.8	875.2	874.7	874.7
7.5°	869.0	867.8	866.5	866.0	865.7	864.7	864.2	863.9	862.9	862.4	861.1
10°	854.3	853.4	851.9	851.3	850.7	850.1	848.6	847.7	847.4	846.8	846.2
12.5°	837.2	836.1	834.6	833.3	832.8	831.8	830.3	829.5	829.5	828.2	828.2
15°	819.0	817.2	814.5	813.3	813.0	811.2	810.0	808.8	807.3	806.8	806.8
17.5°	795.7	792.7	790.3	790.3	789.1	787.3	785.5	784.6	783.7	782.4	781.9
20°	768.2	766.0	763.3	763.3	760.7	760.0	758.2	757.9	755.9	756.1	755.3
22.5°	734.9	733.7	732.2	731.0	729.6	727.8	726.8	727.1	726.2	726.0	725.6
25°	701.4	698.1	696.3	695.7	695.1	693.6	693.0	692.8	692.8	691.8	692.1
27.5°	662.8	660.4	658.0	658.9	657.7	656.8	656.2	655.3	655.9	655.6	655.9
30°	623.3	620.3	618.8	619.4	619.1	616.7	617.9	617.6	617.9	617.9	618.5
32.5°	581.7	579.6	579.3	579.6	576.9	577.3	576.0	577.8	578.1	579.9	578.4
35°	539.5	538.3	536.2	535.9	536.2	535.9	535.9	537.1	536.9	538.7	538.0
37.5°	496.1	495.5	493.4	494.0	492.9	494.9	495.5	494.9	497.0	496.5	496.1
40°	453.6	452.8	451.5	453.9	452.5	451.2	453.3	451.5	452.1	453.9	453.9
42.5°	410.6	409.1	409.1	409.1	408.8	408.8	409.6	410.6	409.9	410.3	412.6
45°	367.1	366.9	365.9	366.6	366.3	367.7	367.7	368.4	369.5	370.7	370.2
47.5°	325.2	324.7	325.5	325.0	325.2	324.4	325.0	326.7	328.3	326.2	328.3
50°	286.1	284.8	284.6	285.5	285.1	284.8	285.5	285.5	284.8	284.8	286.9
52.5°	248.6	247.5	246.5	248.0	247.2	247.5	246.2	246.2	246.9	246.2	245.4
55°	213.6	212.8	211.5	212.2	210.7	210.4	209.2	209.2	208.2	207.6	205.8
57.5°	180.1	179.6	176.8	176.5	176.8	174.7	172.6	171.8	169.3	168.8	168.5
60°	150.5	147.2	145.7	143.9	142.8	141.8	139.4	137.9	134.3	132.3	132.0
62.5°	119.7	118.2	116.4	113.7	113.1	110.1	107.8	103.9	102.1	99.3	96.7
65°	94.9	91.0	88.3	86.7	84.4	81.6	79.0	74.8	72.7	69.4	66.7
67.5°	69.4	66.1	62.5	61.3	59.2	55.9	53.3	49.7	47.9	44.8	44.0
70°	47.6	44.6	41.9	40.1	38.6	35.3	32.6	31.4	29.6	29.0	29.0
72.5°	30.6	27.8	24.9	23.9	22.7	20.9	19.1	18.5	19.1	18.8	18.8
75°	17.0	15.5	13.4	12.6	12.6	12.0	11.6	11.6	11.6	11.6	11.6
77.5°	8.7	7.8	7.2	6.9	6.9	6.9	7.2	7.2	7.2	7.5	7.2
80°	4.2	3.9	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.4	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4
85°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	883.7	883.0	883.0	882.7	882.7	882.7	882.7	883.0
5°	874.0	873.7	873.7	873.2	873.2	873.2	873.2	873.2
7.5°	861.1	860.6	860.9	860.3	860.3	860.6	860.3	860.0
10°	845.3	845.0	845.3	845.3	844.7	844.4	844.7	845.0
12.5°	827.4	827.1	826.4	826.8	826.8	826.4	826.1	825.6
15°	806.4	806.1	805.8	805.5	805.2	805.5	805.2	804.6
17.5°	781.9	781.9	781.6	781.3	781.0	780.4	780.6	781.6
20°	755.6	755.3	754.6	754.9	753.8	753.1	753.5	754.3
22.5°	725.3	724.4	725.0	724.2	724.2	724.4	724.2	723.5
25°	692.4	691.2	691.8	692.1	692.1	691.8	691.5	691.8
27.5°	655.9	656.8	656.8	656.2	657.1	655.9	656.5	656.8
30°	618.5	617.6	617.3	618.5	620.3	618.8	618.8	619.1
32.5°	579.9	578.7	578.7	579.3	578.9	578.9	580.2	578.7
35°	538.7	539.2	536.9	538.3	538.9	538.3	538.7	538.7
37.5°	497.0	496.5	496.5	496.5	497.3	497.3	497.9	497.6
40°	456.1	454.8	454.6	455.1	453.9	454.8	454.8	453.9
42.5°	411.7	412.1	413.5	412.1	412.4	412.1	411.4	411.1
45°	370.7	371.7	371.0	370.7	371.0	369.9	370.2	371.0
47.5°	327.3	329.1	327.3	328.5	328.3	327.7	327.0	325.9
50°	286.6	287.3	286.9	286.6	286.4	286.1	284.6	283.7
52.5°	245.1	245.1	245.1	245.1	242.1	243.6	242.9	241.1
55°	204.3	205.3	204.1	204.1	202.0	202.0	201.4	201.7
57.5°	165.2	164.3	163.4	163.4	161.3	160.3	159.5	158.3
60°	128.7	127.8	126.6	125.1	123.0	123.0	122.4	120.0
62.5°	94.2	92.8	91.9	90.6	88.8	87.7	86.7	87.4
65°	64.6	63.1	62.0	62.0	62.0	61.3	61.0	61.0
67.5°	42.5	43.4	42.8	43.4	43.4	42.8	42.5	43.0
70°	29.3	29.3	29.0	29.0	29.0	29.0	28.8	29.0
72.5°	18.8	18.8	18.8	19.1	18.8	18.8	19.1	19.1
75°	12.0	12.0	12.0	12.3	12.0	12.0	12.3	12.0
77.5°	7.2	7.5	7.5	7.5	7.5	7.2	7.5	7.5
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)