

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: P844101

Luminaire Tested: **LD6C20DE010B2750 EU6C20B27 6LBLWWH**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844101
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: LD6C20DE010B2750 EU6C20B27 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

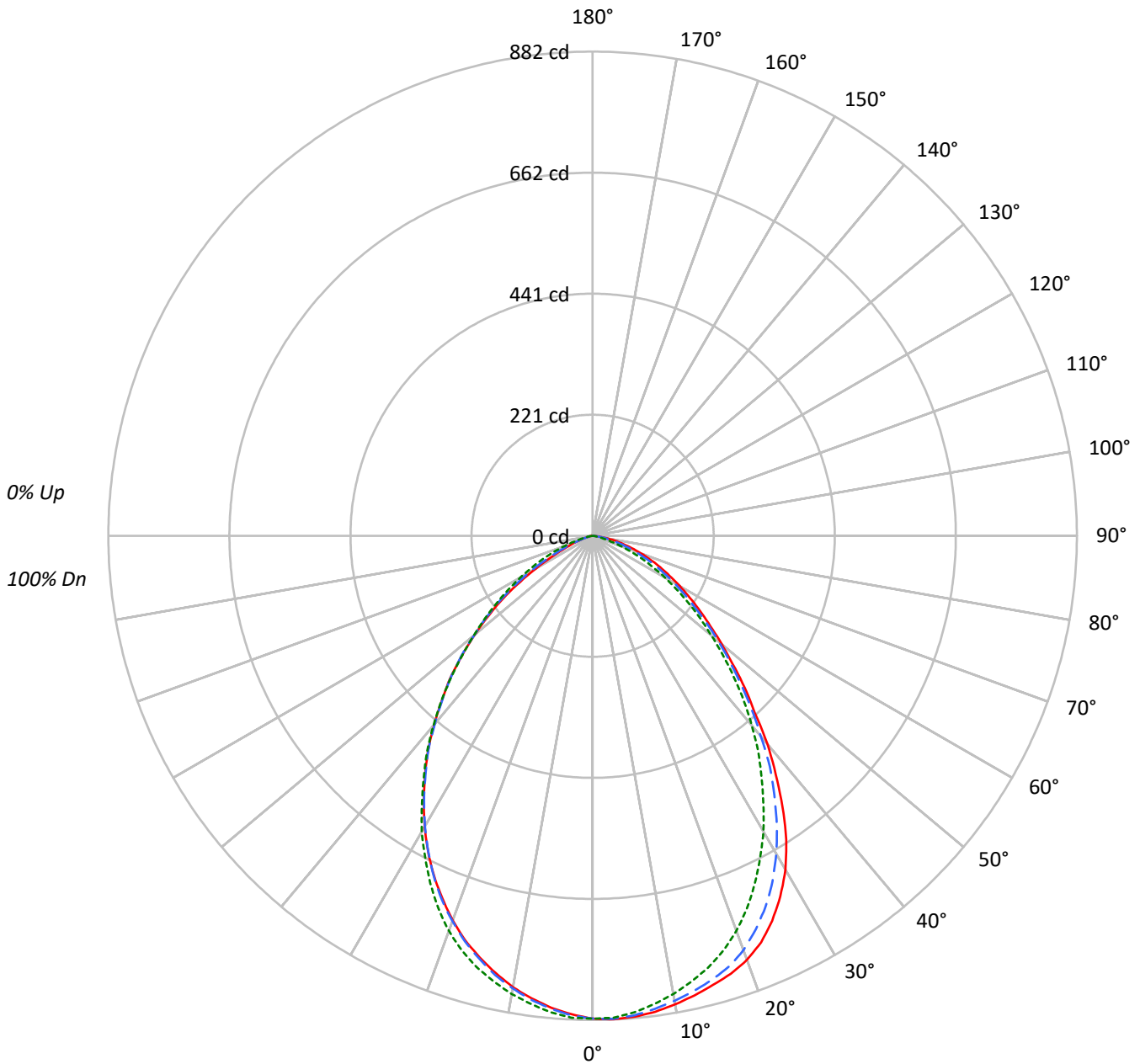
Lumens per Lamp: N/A
Luminaire Lumens: 1600.2 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48225	48225	48225
5°	48393	47958	47485
10°	48246	47177	46487
15°	48071	46203	45125
20°	47960	44676	43491
25°	46793	42287	41355
30°	44456	39386	38727
35°	40355	35857	35623
40°	35409	32275	32096
45°	30352	28197	28429
50°	26131	24042	23914
55°	22833	20291	19048
60°	20075	16632	13003
65°	17576	12881	7822
70°	14987	8687	4600
75°	12094	4512	2499
80°	8429	1768	1389
85°	3334	503	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	5.2
10°-20°	230.2	14.4
20°-30°	327.6	20.5
30°-40°	344.8	21.5
40°-50°	287.3	18.0
50°-60°	194.1	12.1
60°-70°	98.4	6.2
70°-80°	31.8	2.0
80°-90°	3.6	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°	640.2	40.0
0°-40°	984.9	61.6
0°-60°	1466.4	91.6
0°-90°	1600.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	880	880	880	880	880	
5°	879	877	872	865	863	84
15°	847	838	814	798	795	239
25°	774	746	699	685	684	355
35°	603	577	536	530	532	375
45°	392	382	364	365	367	303
55°	239	227	212	206	199	215
65°	136	122	99	72	60	135
75°	57	45	21	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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	881.7	881.7	881.7	881.7	881.7	881.7	881.5	881.5	880.9	880.9	880.6
5°	879.4	879.7	879.7	879.4	879.4	878.9	878.9	878.6	877.6	877.1	876.8
7.5°	874.5	874.5	874.1	873.8	873.5	872.7	872.3	871.5	870.9	870.2	869.1
10°	866.7	866.7	866.4	865.8	865.6	864.9	864.9	863.8	862.6	861.1	860.2
12.5°	857.5	857.8	857.2	857.0	856.0	855.7	855.2	853.7	852.8	851.1	849.6
15°	847.0	847.5	847.5	846.3	845.5	845.2	844.2	843.4	841.2	839.5	837.8
17.5°	836.6	837.1	836.6	835.6	834.8	833.6	833.0	831.2	828.6	826.2	823.6
20°	822.1	822.9	821.8	820.3	818.5	818.2	817.3	814.4	810.6	807.0	803.2
22.5°	801.7	801.1	800.2	799.6	796.6	794.8	793.6	789.8	785.7	781.0	776.2
25°	773.6	774.7	773.0	770.3	768.8	767.1	764.1	760.0	756.1	751.1	745.5
27.5°	740.4	740.4	738.1	737.2	734.0	731.6	730.1	726.0	720.9	715.9	709.7
30°	702.3	700.6	700.6	696.3	693.7	692.9	691.4	684.6	680.2	674.8	668.6
32.5°	656.2	655.8	654.7	652.0	648.4	645.6	645.6	640.8	634.9	628.3	624.5
35°	603.0	603.3	602.6	599.7	599.7	596.2	595.6	591.4	586.7	581.7	576.9
37.5°	548.0	549.1	548.0	546.5	545.5	545.3	542.7	539.7	536.1	533.2	529.7
40°	494.8	493.0	493.5	490.5	490.8	490.3	489.0	485.2	483.2	480.3	476.4
42.5°	437.3	439.1	439.8	438.0	437.3	436.2	437.3	435.9	433.5	432.0	428.4
45°	391.5	389.7	390.6	390.1	390.4	387.9	387.1	386.5	385.6	383.0	381.5
47.5°	346.0	346.3	346.0	344.8	344.2	344.2	343.0	341.3	341.3	339.5	338.3
50°	306.4	306.4	306.9	305.4	304.9	303.6	304.0	302.2	301.0	299.5	298.7
52.5°	270.0	270.2	269.1	269.4	268.9	268.9	267.6	266.4	265.3	262.6	262.0
55°	238.9	239.2	237.8	238.4	236.6	235.6	235.1	233.3	233.3	230.7	227.4
57.5°	209.9	209.6	209.4	208.5	207.3	206.5	205.5	203.5	202.5	200.7	198.1
60°	183.1	182.8	182.1	181.8	181.0	179.0	179.0	177.5	174.5	172.7	170.1
62.5°	157.6	157.6	157.3	156.4	155.6	154.6	154.1	152.8	150.0	147.9	145.5
65°	135.5	135.2	134.2	132.7	132.2	132.2	130.1	129.2	126.8	124.8	122.2
67.5°	114.1	113.0	112.3	112.6	110.8	110.8	109.1	107.7	105.6	102.1	99.9
70°	93.5	92.9	92.2	91.7	91.4	90.2	89.3	87.6	85.5	82.8	79.5
72.5°	74.8	74.8	73.9	73.3	72.4	71.3	70.6	69.2	66.8	63.9	61.6
75°	57.1	57.1	57.1	55.8	55.3	54.7	52.9	52.0	49.4	47.6	44.6
77.5°	42.0	41.4	40.5	40.2	39.7	39.0	38.2	36.7	34.3	32.3	30.5
80°	26.7	27.5	26.7	26.7	25.2	24.5	24.2	22.4	21.6	19.8	18.3
82.5°	14.8	15.1	14.5	14.2	13.3	13.0	13.0	11.8	11.2	10.0	9.2
85°	5.3	5.6	5.3	5.3	4.8	5.1	4.8	4.4	3.8	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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	880.6	880.1	880.1	879.7	879.4	879.4	879.4	879.1	878.6	878.6	878.3
5°	876.1	875.6	874.7	874.1	873.8	873.5	873.2	873.0	871.7	871.5	870.5
7.5°	868.2	867.6	866.1	865.6	864.6	864.4	863.1	862.6	861.4	860.2	859.6
10°	858.7	857.2	856.0	854.6	854.0	853.1	851.6	849.9	849.0	847.5	846.3
12.5°	848.1	846.3	844.0	842.2	841.6	840.1	837.8	836.3	834.2	831.8	829.7
15°	834.8	832.7	830.7	827.4	826.5	824.7	822.3	819.5	816.5	814.1	811.7
17.5°	820.3	817.0	813.7	810.3	807.6	806.7	802.8	798.7	796.1	792.0	789.2
20°	799.9	795.4	790.2	786.6	784.2	781.6	777.1	772.7	769.4	765.8	762.0
22.5°	771.8	767.6	761.5	756.1	754.3	750.5	746.7	742.6	738.3	734.5	729.8
25°	738.7	734.2	728.1	722.7	719.7	718.0	710.6	706.4	702.3	699.1	695.8
27.5°	704.7	696.7	692.5	684.3	681.6	681.0	674.2	669.8	665.4	660.9	656.8
30°	662.7	656.5	650.2	644.3	640.8	638.7	633.7	628.1	625.2	622.2	618.1
32.5°	619.2	613.6	605.9	600.3	597.7	594.7	590.3	586.4	581.9	578.7	577.8
35°	572.8	566.6	560.0	555.9	555.4	551.8	547.3	544.2	540.9	535.8	535.0
37.5°	523.1	519.5	515.2	509.3	506.5	506.5	502.1	499.7	495.6	495.3	493.0
40°	474.3	472.9	466.0	464.3	463.7	459.5	458.4	454.3	451.3	451.0	447.4
42.5°	426.1	422.3	421.0	418.1	415.4	414.9	412.3	410.5	409.3	407.5	405.7
45°	378.2	377.4	374.4	372.3	371.4	370.3	369.3	365.8	365.2	363.7	362.9
47.5°	336.9	334.4	331.8	329.5	329.1	327.3	325.3	325.3	322.0	321.7	321.1
50°	295.7	293.9	292.4	289.2	289.8	287.5	287.1	284.5	283.0	281.9	283.3
52.5°	259.6	256.1	255.5	252.9	251.9	252.2	249.0	248.1	247.5	246.3	245.7
55°	225.4	223.6	221.2	219.5	218.0	216.5	215.2	215.2	212.1	212.3	210.9
57.5°	195.1	193.7	190.7	188.0	187.5	185.7	184.2	182.8	182.4	180.4	179.0
60°	168.3	165.6	161.7	160.5	158.8	157.3	155.8	154.1	153.1	151.7	149.0
62.5°	143.1	138.7	137.2	134.8	132.7	131.9	129.6	127.4	126.0	123.8	121.8
65°	119.2	115.9	113.3	110.6	110.3	108.0	105.9	104.1	101.1	99.3	95.5
67.5°	97.3	94.3	91.4	88.7	86.6	86.1	82.8	80.7	78.7	75.1	71.8
70°	77.2	74.2	71.8	68.6	67.7	65.4	63.0	60.9	57.3	54.2	51.4
72.5°	58.8	55.6	52.9	50.6	49.1	47.1	44.6	42.3	38.7	35.5	33.1
75°	42.0	39.7	36.9	34.6	33.4	32.3	29.6	26.9	24.5	21.3	19.2
77.5°	28.3	26.0	23.7	21.6	20.1	19.2	17.5	15.3	13.3	11.5	10.0
80°	16.6	15.1	13.3	11.5	11.2	10.4	8.9	7.7	6.6	5.6	4.4
82.5°	7.9	7.1	5.9	5.1	4.4	4.1	3.6	3.0	2.3	2.1	2.1
85°	2.3	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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	877.4	877.1	876.8	876.5	875.9	875.9	875.0	874.5	874.5	873.8	873.5
5°	869.7	868.7	868.5	867.9	867.3	867.0	865.8	865.6	864.9	864.4	864.4
7.5°	858.7	857.5	856.4	855.7	855.5	854.6	854.0	853.7	852.8	852.2	851.1
10°	844.2	843.4	841.9	841.2	840.7	840.1	838.6	837.8	837.4	836.8	836.3
12.5°	827.4	826.2	824.7	823.6	822.9	822.1	820.6	819.7	819.7	818.5	818.5
15°	809.3	807.6	805.0	803.7	803.5	801.7	800.5	799.3	797.8	797.2	797.2
17.5°	786.2	783.3	781.0	781.0	779.8	778.0	776.2	775.4	774.5	773.2	772.7
20°	759.1	757.1	754.3	754.3	751.7	751.1	749.3	749.0	747.0	747.2	746.4
22.5°	726.3	725.1	723.6	722.4	720.9	719.2	718.2	718.6	717.7	717.4	717.1
25°	693.2	689.9	688.1	687.6	686.9	685.5	684.8	684.6	684.6	683.7	684.0
27.5°	655.0	652.7	650.2	651.2	649.9	649.1	648.4	647.6	648.2	647.9	648.2
30°	616.0	613.0	611.5	612.2	611.8	609.4	610.7	610.4	610.7	610.7	611.2
32.5°	574.8	572.8	572.5	572.8	570.2	570.4	569.2	571.0	571.3	573.1	571.7
35°	533.2	532.0	529.9	529.7	529.9	529.7	529.7	530.8	530.5	532.3	531.7
37.5°	490.3	489.7	487.6	488.2	487.0	489.0	489.7	489.0	491.2	490.5	490.3
40°	448.3	447.4	446.2	448.5	447.1	445.9	448.0	446.2	446.9	448.5	448.5
42.5°	405.7	404.2	404.2	404.2	403.9	403.9	404.9	405.7	405.1	405.4	407.8
45°	362.9	362.6	361.6	362.2	361.9	363.4	363.4	364.0	365.2	366.4	365.8
47.5°	321.4	320.9	321.7	321.1	321.4	320.6	321.1	322.9	324.4	322.4	324.4
50°	282.7	281.5	281.2	282.1	281.9	281.5	282.1	282.1	281.5	281.5	283.6
52.5°	245.7	244.5	243.7	245.2	244.2	244.5	243.4	243.4	244.0	243.4	242.5
55°	211.1	210.3	209.1	209.6	208.1	207.9	206.7	206.7	205.8	205.2	203.5
57.5°	178.0	177.5	174.7	174.5	174.7	172.7	170.6	169.8	167.3	166.8	166.5
60°	148.7	145.5	144.0	142.3	141.1	140.1	137.8	136.3	132.7	130.7	130.4
62.5°	118.2	116.8	115.1	112.3	111.8	108.8	106.5	102.6	100.8	98.1	95.5
65°	93.7	89.9	87.3	85.8	83.3	80.7	78.1	73.9	71.8	68.6	65.9
67.5°	68.6	65.4	61.8	60.6	58.6	55.3	52.7	49.1	47.3	44.3	43.5
70°	47.1	44.1	41.4	39.7	38.2	34.9	32.3	31.1	29.3	28.7	28.7
72.5°	30.1	27.5	24.5	23.7	22.4	20.7	18.9	18.3	18.9	18.6	18.6
75°	16.8	15.3	13.3	12.4	12.4	11.8	11.5	11.5	11.5	11.5	11.5
77.5°	8.6	7.7	7.1	6.8	6.8	6.8	7.1	7.1	7.1	7.4	7.1
80°	4.1	3.8	3.8	3.8	4.1	4.1	4.1	4.1	4.1	4.4	4.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.3	2.3
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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	873.2	872.7	872.7	872.3	872.3	872.3	872.3	872.7
5°	863.8	863.5	863.5	862.9	862.9	862.9	862.9	862.9
7.5°	851.1	850.4	850.8	850.1	850.1	850.4	850.1	849.9
10°	835.4	835.1	835.4	835.4	834.8	834.5	834.8	835.1
12.5°	817.7	817.3	816.7	817.0	817.0	816.7	816.5	815.9
15°	796.9	796.6	796.3	796.1	795.8	796.1	795.8	795.1
17.5°	772.7	772.7	772.4	772.1	771.8	771.2	771.5	772.4
20°	746.7	746.4	745.7	746.1	744.9	744.3	744.6	745.5
22.5°	716.8	715.9	716.5	715.6	715.6	715.9	715.6	715.1
25°	684.3	683.1	683.7	684.0	684.0	683.7	683.3	683.7
27.5°	648.2	649.1	649.1	648.4	649.4	648.2	648.8	649.1
30°	611.2	610.4	610.0	611.2	613.0	611.5	611.5	611.8
32.5°	573.1	571.9	571.9	572.5	572.2	572.2	573.3	571.9
35°	532.3	532.8	530.5	532.0	532.5	532.0	532.3	532.3
37.5°	491.2	490.5	490.5	490.5	491.5	491.5	492.0	491.8
40°	450.7	449.5	449.2	449.8	448.5	449.5	449.5	448.5
42.5°	406.9	407.2	408.7	407.2	407.5	407.2	406.6	406.3
45°	366.4	367.3	366.7	366.4	366.7	365.5	365.8	366.7
47.5°	323.5	325.3	323.5	324.7	324.4	323.8	323.2	322.0
50°	283.3	283.9	283.6	283.3	283.0	282.7	281.2	280.4
52.5°	242.2	242.2	242.2	242.2	239.2	240.7	240.1	238.4
55°	202.0	202.9	201.7	201.7	199.6	199.6	199.0	199.3
57.5°	163.2	162.3	161.5	161.5	159.4	158.5	157.6	156.4
60°	127.1	126.3	125.1	123.6	121.5	121.5	121.0	118.6
62.5°	93.2	91.7	90.7	89.6	87.8	86.6	85.8	86.3
65°	63.9	62.4	61.2	61.2	61.2	60.6	60.3	60.3
67.5°	42.0	42.8	42.3	42.8	42.8	42.3	42.0	42.6
70°	29.0	29.0	28.7	28.7	28.7	28.7	28.3	28.7
72.5°	18.6	18.6	18.6	18.9	18.6	18.6	18.9	18.9
75°	11.8	11.8	11.8	12.2	11.8	11.8	12.2	11.8
77.5°	7.1	7.4	7.4	7.4	7.4	7.1	7.4	7.4
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)