

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: P844151

Luminaire Tested: **LD6C20DE010B40 EU6C20B40 6LBLDWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844151
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: LD6C20DE010B40 EU6C20B40 6LBLDWLI
Description:
Light Source: -
Ballast/Driver:

Summary

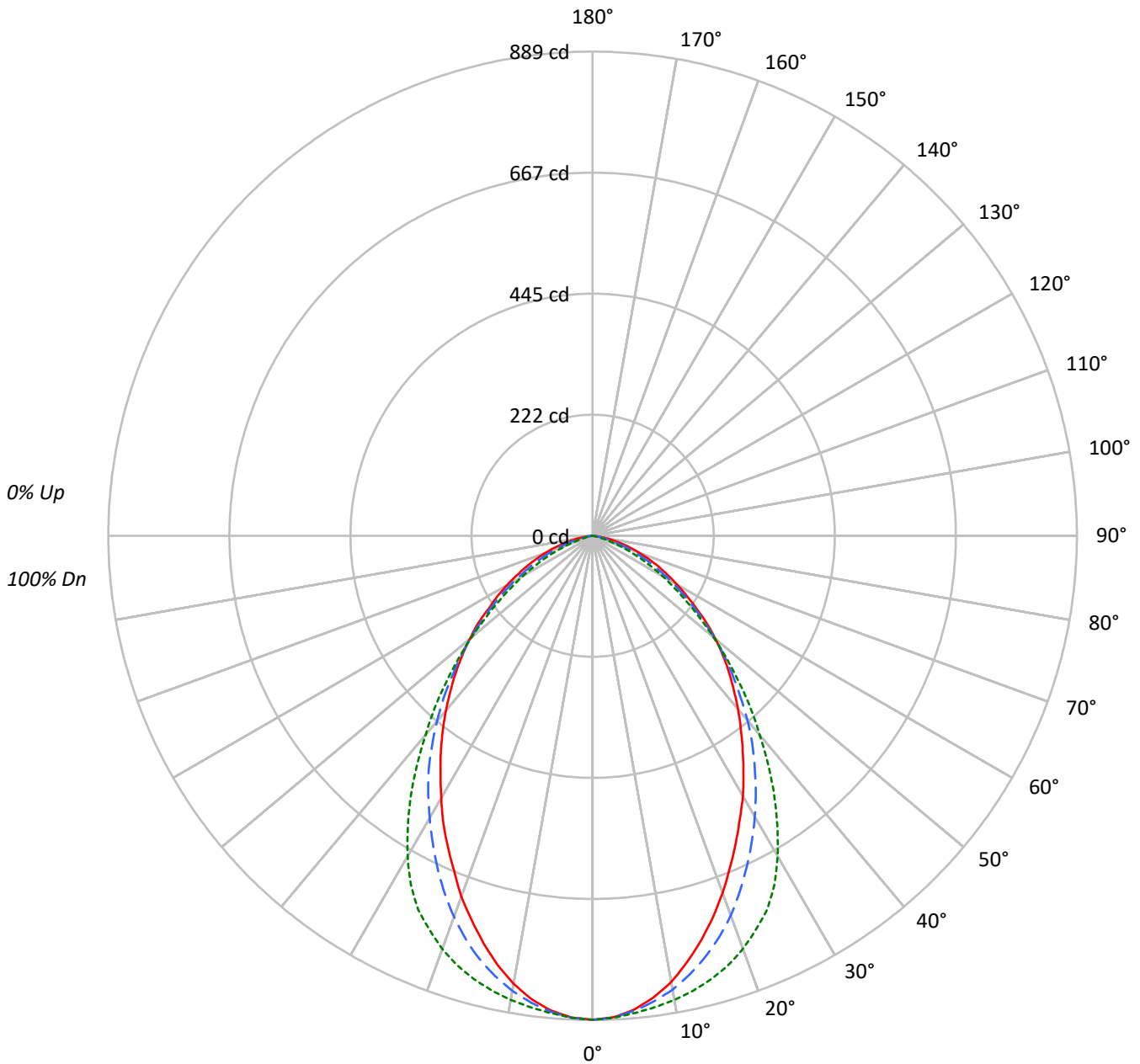
Lumens per Lamp: N/A
Luminaire Lumens: 1590.7 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	48713	48713	48713
5°	48068	48410	48151
10°	46308	48168	46492
15°	43650	47821	43933
20°	40679	47085	41111
25°	37617	45819	38065
30°	34936	43007	35183
35°	32150	38902	32505
40°	29706	34121	29978
45°	27445	29491	27538
50°	25099	24724	25074
55°	22174	20186	22260
60°	19582	16205	19878
65°	17239	12051	17356
70°	14506	7565	14890
75°	11501	3198	11798
80°	7671	726	8240
85°	3208	189	3711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	5.2
10°-20°	225.9	14.2
20°-30°	311.9	19.6
30°-40°	328.1	20.6
40°-50°	282.6	17.8
50°-60°	201.2	12.6
60°-70°	113.4	7.1
70°-80°	40.2	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°	620.7	39.0
0°-40°	948.8	59.6
0°-60°	1432.5	90.1
0°-90°	1590.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	889	889	889	889	889	
5°	874	876	880	877	875	82
15°	769	800	843	804	774	216
25°	622	670	758	674	629	286
35°	480	519	581	524	486	301
45°	354	364	380	365	355	273
55°	232	224	211	224	233	209
65°	133	114	93	115	134	132
75°	54	36	15	37	56	59
85°	5	2	0	2	6	8
90°	0	0	0	0	0	



TEST NUMBER: P844151

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	884.8	885.1	885.1	885.3	885.1	885.1	885.3	885.3	885.1	885.3	885.3
5°	873.5	873.2	873.5	873.8	874.7	874.7	874.5	874.5	875.3	875.0	875.6
7.5°	855.1	855.1	856.0	856.6	856.6	856.9	857.5	858.7	859.9	860.2	862.3
10°	831.9	832.3	831.9	833.2	834.0	835.5	835.2	837.3	839.4	842.4	846.2
12.5°	801.4	802.3	804.1	804.1	806.8	808.2	807.9	812.7	816.6	820.1	824.8
15°	769.1	768.8	770.3	772.6	775.4	777.4	778.3	784.6	788.4	794.3	800.2
17.5°	734.3	733.5	735.8	737.3	741.8	744.5	746.3	751.6	757.8	764.9	772.9
20°	697.3	698.8	699.3	701.4	707.3	709.5	712.4	718.3	724.6	732.8	742.0
22.5°	659.3	661.3	662.5	665.3	670.0	671.7	674.8	683.3	690.1	697.6	706.2
25°	621.9	624.3	626.3	629.6	632.9	635.5	639.4	645.4	653.1	659.9	669.7
27.5°	585.4	587.5	588.0	592.0	595.8	599.4	601.5	608.6	615.1	623.4	632.9
30°	551.9	550.7	552.2	555.5	559.9	562.2	565.8	570.6	577.7	585.7	595.4
32.5°	515.1	515.1	517.5	521.3	524.9	526.7	527.9	534.4	541.5	549.2	557.3
35°	480.4	481.5	483.7	486.0	489.9	491.4	494.0	498.8	504.4	513.1	519.0
37.5°	446.9	447.7	449.8	452.1	455.2	458.2	459.3	464.3	468.5	475.6	481.2
40°	415.1	415.4	417.8	418.6	421.4	422.5	424.9	427.6	433.5	436.5	441.8
42.5°	383.1	384.6	385.4	387.5	387.8	390.2	391.3	392.3	397.0	398.7	401.8
45°	354.0	354.0	354.8	354.8	356.3	355.5	357.3	359.1	359.3	362.2	364.0
47.5°	323.7	322.8	324.1	323.7	323.4	323.4	324.1	324.3	325.2	327.2	328.2
50°	294.3	292.2	292.2	292.0	291.7	292.5	292.5	292.2	292.2	293.2	292.2
52.5°	264.4	263.8	262.3	261.1	260.5	260.5	260.5	259.3	259.3	258.7	256.7
55°	232.0	232.9	232.4	231.7	231.4	230.6	230.6	229.1	226.7	225.5	224.3
57.5°	204.1	205.3	205.3	204.1	202.6	202.0	200.5	199.7	197.6	195.6	193.1
60°	178.6	180.1	178.0	177.2	176.8	176.0	175.4	172.1	170.1	168.0	165.3
62.5°	154.3	154.8	153.4	152.5	151.7	150.7	150.4	147.8	144.2	141.5	138.2
65°	132.9	132.0	131.5	130.0	128.5	127.3	127.3	123.7	120.5	117.2	113.9
67.5°	110.6	111.3	110.4	109.1	106.8	105.7	103.9	101.4	98.5	95.3	91.4
70°	90.5	90.2	89.3	88.1	86.6	84.6	83.1	81.9	77.7	73.9	70.6
72.5°	72.1	71.8	70.9	69.4	67.4	66.4	65.3	62.3	59.0	55.7	52.2
75°	54.3	54.6	53.1	52.6	50.1	49.3	49.0	45.4	42.7	39.8	36.5
77.5°	38.9	38.9	37.3	36.2	35.0	34.4	33.2	31.2	29.1	26.1	23.5
80°	24.3	24.3	24.3	23.2	22.0	21.4	20.5	19.0	16.9	15.1	13.3
82.5°	13.0	13.0	12.5	12.2	11.5	11.0	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°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	885.7	885.7	885.3	885.7	885.7	885.7	885.7	885.7	885.7	885.7	886.0
5°	876.1	877.1	877.4	877.6	878.3	878.6	878.9	879.1	879.4	879.7	879.7
7.5°	864.0	866.1	867.6	869.1	869.7	870.2	871.2	872.3	873.2	873.2	873.0
10°	849.5	852.1	855.1	857.7	858.7	860.2	861.7	863.5	864.9	865.3	865.3
12.5°	830.5	833.4	838.8	843.3	845.0	847.1	850.1	852.8	854.3	855.1	854.8
15°	806.8	813.0	820.4	825.5	827.8	831.4	836.2	839.1	841.5	842.6	842.1
17.5°	781.0	789.0	796.9	803.8	807.1	810.6	817.1	822.5	826.0	827.0	826.3
20°	751.6	760.4	769.1	777.7	782.1	786.2	793.1	799.9	805.9	807.1	806.1
22.5°	716.5	726.6	737.1	746.8	751.9	755.7	765.5	773.2	780.0	783.0	781.0
25°	680.4	691.1	702.1	710.6	716.2	722.8	731.7	740.6	748.9	757.5	749.8
27.5°	641.8	651.6	663.1	675.0	680.4	685.1	694.3	705.5	714.2	722.8	714.2
30°	603.2	615.6	626.0	636.5	642.4	648.0	657.2	666.4	674.8	679.4	674.1
32.5°	567.0	576.2	586.6	596.7	600.8	605.3	613.0	621.6	629.6	631.1	627.5
35°	529.0	537.1	545.6	552.2	557.3	561.9	568.8	574.1	576.2	581.3	577.7
37.5°	486.0	493.2	500.9	505.5	510.1	513.9	519.0	523.7	525.4	529.3	526.7
40°	445.4	451.3	455.7	460.8	463.1	467.1	469.1	473.0	475.0	476.8	477.1
42.5°	406.2	409.4	412.7	416.3	417.1	418.1	423.2	425.8	427.8	429.1	427.3
45°	366.2	369.4	370.6	373.2	374.7	375.4	377.4	377.7	378.3	380.4	379.5
47.5°	329.7	330.0	330.8	332.0	332.6	332.6	333.8	332.6	333.2	333.5	334.1
50°	291.4	293.5	291.4	292.5	292.9	292.5	291.7	291.1	290.2	289.9	289.6
52.5°	255.2	255.4	254.3	253.4	252.5	252.8	250.4	249.3	249.5	247.8	249.8
55°	222.2	221.0	218.4	217.4	215.4	215.1	214.8	213.3	211.0	211.2	211.8
57.5°	190.5	188.4	185.7	184.2	183.7	181.3	181.0	178.6	177.2	176.8	176.8
60°	161.7	159.9	157.3	154.6	152.5	151.3	149.9	147.4	148.1	147.8	146.3
62.5°	134.4	132.3	128.5	125.5	124.3	123.4	121.3	119.6	118.7	119.6	118.7
65°	110.1	106.8	102.4	99.4	99.1	97.9	95.5	94.3	93.5	92.9	93.8
67.5°	87.6	83.1	80.4	76.6	74.8	74.1	70.9	69.2	69.4	69.2	69.4
70°	66.7	62.3	58.7	55.7	53.4	52.6	50.8	48.3	48.0	47.2	48.3
72.5°	48.3	44.5	41.2	38.0	35.9	34.7	32.4	29.9	29.4	28.8	28.8
75°	33.2	29.9	26.4	23.5	22.0	20.7	18.4	16.6	15.1	15.1	15.1
77.5°	20.7	18.1	15.4	13.3	12.5	11.3	9.2	7.4	6.9	5.9	6.2
80°	11.8	9.8	8.4	6.9	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°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	885.7	886.0	885.7	886.0	885.7	886.3	886.3	886.0	886.0	886.0	885.7
5°	879.4	879.4	879.1	879.1	879.1	878.9	877.9	877.9	877.4	877.1	876.5
7.5°	872.7	872.0	871.2	870.9	869.9	869.1	867.3	865.8	864.6	863.1	861.7
10°	864.3	862.8	861.0	859.9	859.2	857.2	854.6	851.0	848.5	845.9	842.9
12.5°	853.6	851.8	848.5	846.2	844.7	840.9	837.0	832.6	827.8	823.1	820.1
15°	839.7	836.7	832.6	830.2	827.5	822.2	815.3	809.1	804.3	799.0	792.0
17.5°	823.4	818.9	813.3	809.4	806.1	799.0	791.0	783.0	775.9	769.3	762.2
20°	800.8	795.4	788.7	783.6	780.3	771.1	762.6	753.0	744.5	736.7	728.4
22.5°	774.4	765.5	758.6	752.7	749.2	738.8	729.3	719.2	710.0	703.2	694.3
25°	741.2	732.6	724.0	719.2	713.6	702.6	692.9	682.4	673.8	665.3	656.9
27.5°	705.9	695.8	686.3	680.7	675.6	664.9	655.1	645.7	635.8	626.3	618.9
30°	667.3	657.2	649.8	642.7	637.0	628.4	616.3	606.8	598.2	589.5	581.8
32.5°	624.3	616.0	607.1	603.5	599.4	589.0	579.5	570.3	561.7	553.0	545.1
35°	574.4	567.9	562.6	558.7	556.0	546.8	539.4	529.7	524.3	515.7	509.8
37.5°	523.4	520.1	516.5	511.8	508.0	502.6	498.1	490.2	484.0	477.7	471.2
40°	474.5	470.9	466.1	463.8	462.8	458.2	451.9	447.7	444.2	438.5	435.0
42.5°	426.6	424.9	420.1	418.9	417.8	413.6	410.7	407.1	404.8	400.5	398.7
45°	378.0	377.7	376.5	375.4	374.7	371.8	371.2	366.7	364.7	363.7	362.0
47.5°	335.0	334.1	332.3	334.1	331.5	331.1	331.1	330.2	329.3	327.0	326.7
50°	291.1	292.5	292.9	292.0	293.7	293.5	292.0	292.2	292.9	294.0	292.2
52.5°	250.8	251.9	253.9	253.1	254.6	256.1	255.4	257.9	256.9	258.2	260.5
55°	212.5	215.8	217.8	216.9	218.1	219.9	220.4	222.5	224.3	226.4	227.9
57.5°	179.5	180.4	183.4	184.2	184.6	186.0	189.0	192.3	194.4	195.9	197.4
60°	147.1	150.2	152.2	152.2	154.6	156.6	159.4	162.3	164.7	168.3	170.9
62.5°	119.8	120.5	123.4	123.7	125.5	129.0	131.1	135.6	138.6	142.5	146.0
65°	93.5	96.1	97.9	98.3	100.9	103.5	106.5	110.6	114.9	118.1	121.3
67.5°	70.0	71.5	73.9	75.9	76.6	80.4	84.8	88.7	92.2	95.3	99.4
70°	49.0	50.1	53.4	54.6	56.4	59.3	62.9	67.1	71.2	75.4	78.6
72.5°	29.9	32.7	34.7	36.5	38.0	41.6	45.4	49.0	52.6	56.1	60.2
75°	16.6	18.4	20.7	22.5	24.0	26.7	30.2	33.8	37.1	40.4	43.4
77.5°	7.4	9.2	11.3	12.5	13.6	16.0	18.7	21.7	24.3	26.7	29.4
80°	3.0	4.1	5.3	6.2	6.9	8.4	10.4	11.8	13.6	15.8	17.8
82.5°	1.2	1.5	2.1	2.6	3.0	3.8	4.8	5.6	7.1	8.0	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



TEST NUMBER: P844151

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	885.7	885.3	885.3	885.3	885.3	885.1	885.1	885.1
5°	876.8	876.1	875.9	875.9	875.0	875.3	875.3	875.0
7.5°	861.0	860.5	859.5	860.2	859.9	859.0	858.7	858.4
10°	840.6	839.4	839.1	837.6	836.7	836.4	836.4	835.2
12.5°	816.3	813.0	812.7	811.2	809.1	807.9	808.6	806.8
15°	789.2	784.6	782.1	781.0	778.5	776.5	774.7	774.1
17.5°	756.3	751.0	749.2	748.0	743.0	742.7	740.3	739.4
20°	721.9	717.2	714.4	712.7	708.8	705.2	705.0	704.7
22.5°	688.4	680.7	678.3	675.6	671.5	668.5	666.7	665.3
25°	650.3	644.2	640.0	637.3	634.4	632.0	629.6	629.3
27.5°	612.4	606.4	603.8	601.5	597.6	594.9	592.5	593.8
30°	575.4	569.4	566.5	564.7	560.8	559.3	555.2	555.8
32.5°	538.5	533.2	531.1	527.5	524.0	522.3	520.8	519.5
35°	503.2	498.8	495.8	493.4	490.2	487.1	485.7	485.7
37.5°	467.4	462.8	461.3	459.6	456.7	452.5	451.0	452.1
40°	430.8	427.6	426.1	424.9	421.9	420.4	418.9	418.9
42.5°	396.1	392.8	392.6	391.3	389.0	388.0	386.9	386.0
45°	359.9	358.4	357.3	357.3	357.0	356.6	355.8	355.2
47.5°	325.2	325.5	324.9	324.6	324.9	324.1	325.2	324.3
50°	293.5	292.9	293.5	292.9	293.2	294.3	293.2	294.0
52.5°	259.6	262.3	262.6	261.4	262.6	263.5	264.1	265.6
55°	229.6	230.6	231.1	232.4	232.9	234.7	232.9	232.9
57.5°	200.5	202.0	202.6	203.6	205.9	205.1	206.6	207.7
60°	174.2	176.0	177.2	178.0	179.0	181.0	181.6	181.3
62.5°	148.4	151.0	151.3	153.7	154.3	155.8	157.0	155.8
65°	124.3	126.7	128.5	130.0	131.8	133.3	132.9	133.8
67.5°	102.4	105.3	106.8	107.5	109.8	110.4	111.9	112.7
70°	82.5	84.6	86.3	87.3	88.7	90.5	92.0	92.9
72.5°	62.9	66.2	67.9	68.5	70.9	72.1	72.7	73.6
75°	46.5	49.3	50.1	51.6	52.8	55.5	55.2	55.7
77.5°	32.4	34.2	35.9	35.9	38.0	38.6	40.1	40.4
80°	19.2	21.4	22.2	22.5	24.0	25.0	25.5	26.1
82.5°	10.0	11.5	11.5	12.2	13.3	13.3	13.6	14.3
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)