

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: P844152

Luminaire Tested: **LD6C20DE010B40 EU6C20B40 6LBLWWH**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844152
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: LD6C20DE010B40 EU6C20B40 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

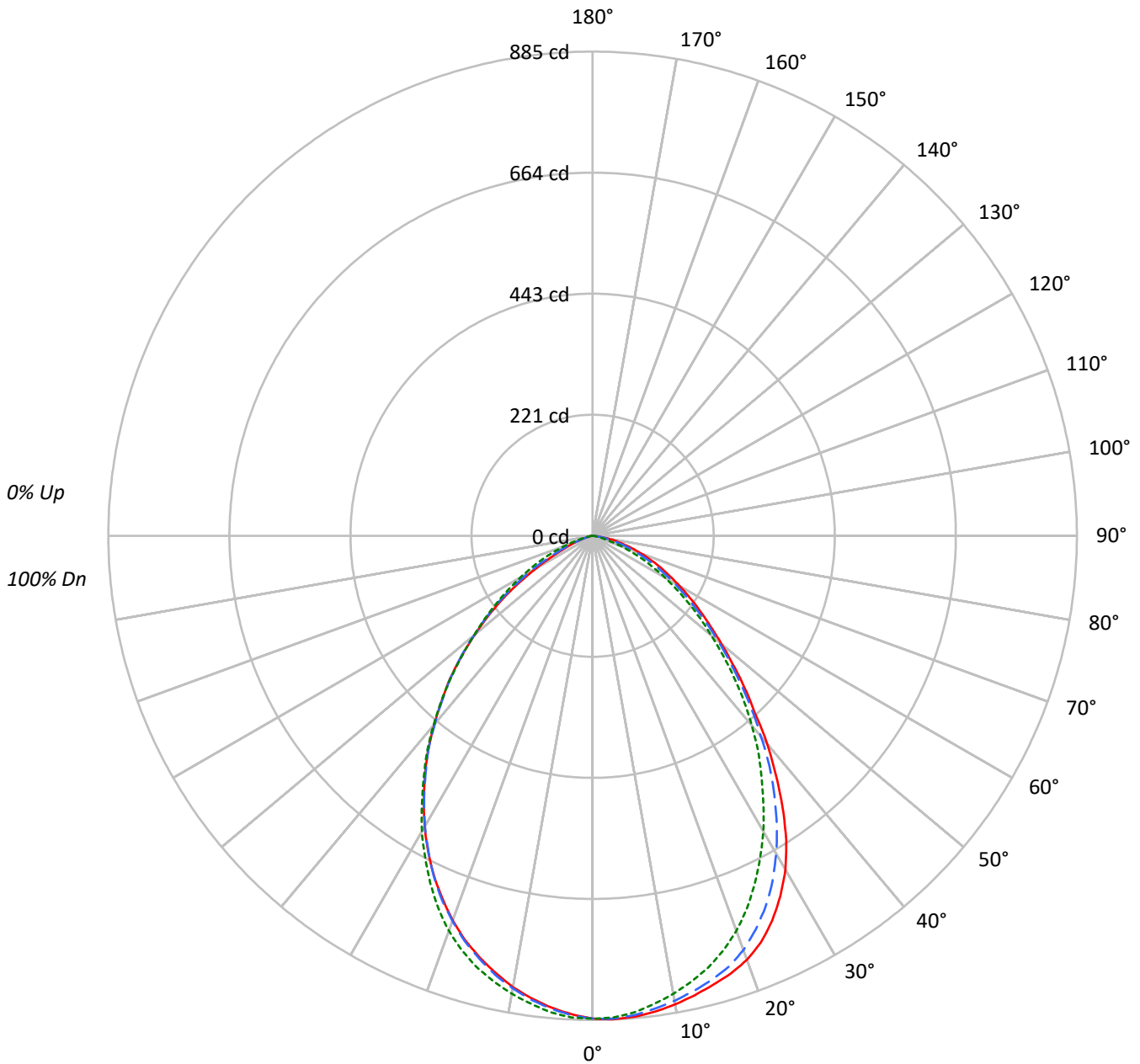
Lumens per Lamp: N/A
Luminaire Lumens: 1605.5 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	48384	48384	48384
5°	48558	48112	47639
10°	48407	47333	46642
15°	48224	46357	45278
20°	48112	44827	43637
25°	46944	42420	41494
30°	44602	39512	38860
35°	40488	35978	35737
40°	35517	32382	32203
45°	30453	28290	28515
50°	26208	24110	23982
55°	22919	20358	19115
60°	20130	16687	13047
65°	17628	12933	7848
70°	15019	8703	4616
75°	12115	4533	2499
80°	8429	1768	1389
85°	3334	503	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	5.2
10°-20°	230.9	14.4
20°-30°	328.6	20.5
30°-40°	345.9	21.5
40°-50°	288.3	18.0
50°-60°	194.8	12.1
60°-70°	98.7	6.2
70°-80°	31.9	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°	642.3	40.0
0°-40°	988.2	61.6
0°-60°	1471.2	91.6
0°-90°	1605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	883	883	883	883	883	
5°	882	880	874	868	866	84
15°	850	840	817	800	798	240
25°	776	748	701	687	686	356
35°	605	579	538	532	534	376
45°	393	383	365	366	368	304
55°	240	228	213	206	200	216
65°	136	123	100	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°	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6
2.5°	884.7	884.7	884.7	884.7	884.7	884.7	884.4	884.4	883.9	883.9	883.5
5°	882.4	882.6	882.6	882.4	882.4	881.7	881.7	881.4	880.6	880.0	879.6
7.5°	877.3	877.3	877.0	876.7	876.4	875.5	875.2	874.3	873.7	873.2	871.9
10°	869.6	869.6	869.3	868.7	868.4	867.8	867.8	866.6	865.5	864.0	863.0
12.5°	860.4	860.7	860.1	859.8	858.9	858.6	858.1	856.6	855.6	853.8	852.3
15°	849.7	850.3	850.3	849.1	848.2	847.9	847.1	846.1	844.1	842.3	840.5
17.5°	839.3	839.9	839.3	838.4	837.5	836.4	835.7	833.9	831.3	829.0	826.2
20°	824.7	825.7	824.5	823.1	821.3	820.9	820.1	817.0	813.2	809.6	805.8
22.5°	804.3	803.7	802.8	802.2	799.3	797.5	796.3	792.5	788.3	783.5	778.8
25°	776.1	777.4	775.6	772.8	771.3	769.6	766.7	762.4	758.6	753.6	748.0
27.5°	742.9	742.9	740.6	739.6	736.3	734.0	732.5	728.4	723.3	718.2	712.0
30°	704.6	702.8	702.8	698.7	696.0	695.2	693.6	686.8	682.4	677.0	670.8
32.5°	658.4	658.1	656.9	654.1	650.7	647.7	647.7	642.9	637.0	630.5	626.6
35°	605.0	605.3	604.6	601.7	601.7	598.1	597.6	593.3	588.6	583.6	578.8
37.5°	549.8	550.9	549.8	548.3	547.4	547.1	544.4	541.4	537.9	535.0	531.4
40°	496.3	494.5	495.2	492.2	492.5	491.9	490.7	486.8	484.8	481.9	477.9
42.5°	438.8	440.6	441.1	439.3	438.8	437.6	438.8	437.3	434.9	433.4	429.9
45°	392.8	391.0	392.0	391.3	391.6	389.2	388.4	387.7	386.9	384.2	382.8
47.5°	347.1	347.4	347.1	346.0	345.3	345.3	344.2	342.4	342.4	340.6	339.4
50°	307.3	307.3	308.0	306.5	305.9	304.7	305.0	303.2	302.1	300.6	299.6
52.5°	270.9	271.2	270.0	270.3	269.7	269.7	268.5	267.3	266.1	263.5	262.8
55°	239.8	240.0	238.5	239.1	237.3	236.5	235.9	234.1	234.1	231.4	228.1
57.5°	210.7	210.4	210.0	209.2	207.9	207.1	206.2	204.1	203.3	201.5	198.7
60°	183.6	183.4	182.8	182.4	181.6	179.5	179.5	178.0	175.0	173.2	170.6
62.5°	158.1	158.1	157.8	157.0	156.1	155.2	154.5	153.4	150.4	148.4	146.0
65°	135.9	135.6	134.7	133.3	132.6	132.6	130.5	129.7	127.2	125.2	122.6
67.5°	114.5	113.4	112.7	113.1	111.3	111.3	109.5	108.0	105.9	102.4	100.3
70°	93.7	93.2	92.5	92.0	91.7	90.5	89.6	87.8	85.8	83.0	79.9
72.5°	75.1	75.1	74.1	73.6	72.7	71.5	70.9	69.4	67.1	64.1	61.7
75°	57.2	57.2	57.2	56.1	55.5	54.9	53.1	52.2	49.5	47.8	44.8
77.5°	42.1	41.6	40.6	40.4	39.8	39.1	38.3	36.8	34.4	32.4	30.6
80°	26.7	27.6	26.7	26.7	25.2	24.6	24.3	22.5	21.7	19.9	18.4
82.5°	14.8	15.1	14.5	14.3	13.3	13.0	13.0	11.8	11.3	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°	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6
2.5°	883.5	882.9	882.9	882.6	882.4	882.4	882.4	882.1	881.4	881.4	881.1
5°	879.1	878.5	877.6	877.0	876.7	876.4	876.1	875.8	874.7	874.3	873.4
7.5°	871.1	870.4	869.0	868.4	867.5	867.3	866.0	865.5	864.2	863.0	862.5
10°	861.5	860.1	858.9	857.4	856.8	855.9	854.5	852.7	851.8	850.3	849.1
12.5°	850.9	849.1	846.7	844.9	844.4	842.8	840.5	839.0	836.9	834.6	832.5
15°	837.5	835.4	833.4	830.1	829.2	827.5	825.1	822.1	819.1	816.8	814.4
17.5°	823.1	819.8	816.5	812.9	810.3	809.4	805.5	801.4	798.7	794.5	791.9
20°	802.5	798.1	792.7	789.2	786.8	784.1	779.7	775.2	772.0	768.4	764.6
22.5°	774.4	770.2	763.9	758.6	756.8	753.0	749.1	745.0	740.9	737.0	732.2
25°	741.1	736.6	730.4	725.1	722.2	720.4	713.0	708.8	704.6	701.3	698.1
27.5°	707.0	699.0	694.9	686.5	683.9	683.2	676.5	672.0	667.6	663.1	658.9
30°	664.8	658.6	652.5	646.4	642.9	640.8	635.7	630.1	627.2	624.2	620.1
32.5°	621.3	615.6	607.9	602.3	599.6	596.6	592.2	588.4	583.9	580.6	579.7
35°	574.7	568.5	561.9	557.8	557.2	553.6	549.1	546.0	542.7	537.6	536.7
37.5°	524.8	521.3	516.9	510.9	508.2	508.2	503.8	501.4	497.2	497.0	494.5
40°	475.8	474.3	467.6	465.8	465.3	461.0	459.9	455.7	452.8	452.5	448.9
42.5°	427.5	423.7	422.5	419.6	416.8	416.3	413.5	411.8	410.6	408.9	407.1
45°	379.5	378.5	375.6	373.6	372.6	371.4	370.6	367.0	366.4	364.9	364.0
47.5°	337.9	335.6	332.8	330.5	330.2	328.4	326.4	326.4	323.1	322.8	322.2
50°	296.7	294.9	293.4	290.1	290.7	288.4	288.1	285.5	284.0	282.7	284.2
52.5°	260.5	256.9	256.4	253.6	252.8	253.1	249.8	249.0	248.3	247.2	246.5
55°	226.1	224.3	221.9	220.1	218.6	217.1	216.0	216.0	212.7	213.0	211.5
57.5°	195.8	194.3	191.3	188.7	188.0	186.4	184.9	183.4	183.1	181.0	179.5
60°	168.8	166.2	162.2	161.1	159.3	157.8	156.3	154.5	153.7	152.2	149.5
62.5°	143.6	139.2	137.7	135.3	133.3	132.3	130.0	127.9	126.4	124.3	122.3
65°	119.5	116.3	113.6	110.9	110.6	108.3	106.2	104.4	101.4	99.7	95.8
67.5°	97.6	94.7	91.7	89.1	86.9	86.3	83.0	81.0	78.9	75.4	72.1
70°	77.4	74.5	72.1	68.9	67.9	65.6	63.2	61.1	57.5	54.3	51.6
72.5°	59.0	55.7	53.1	50.8	49.3	47.2	44.8	42.4	38.8	35.6	33.2
75°	42.1	39.8	37.1	34.7	33.5	32.4	29.7	27.0	24.6	21.4	19.2
77.5°	28.5	26.1	23.7	21.7	20.2	19.2	17.6	15.4	13.3	11.5	10.0
80°	16.6	15.1	13.3	11.5	11.3	10.4	8.9	7.7	6.6	5.6	4.4
82.5°	8.0	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°	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6
2.5°	880.3	880.0	879.6	879.4	878.8	878.8	877.9	877.3	877.3	876.7	876.4
5°	872.5	871.7	871.4	870.7	870.2	869.9	868.7	868.4	867.8	867.3	867.3
7.5°	861.5	860.4	859.2	858.6	858.3	857.4	856.8	856.6	855.6	855.1	853.8
10°	847.1	846.1	844.6	844.1	843.5	842.8	841.3	840.5	840.2	839.7	839.0
12.5°	830.1	829.0	827.5	826.2	825.7	824.7	823.3	822.4	822.4	821.3	821.3
15°	812.1	810.3	807.6	806.3	806.1	804.3	803.2	801.9	800.4	799.9	799.9
17.5°	788.9	785.9	783.5	783.5	782.3	780.5	778.8	777.9	777.0	775.9	775.2
20°	761.6	759.5	756.8	756.8	754.2	753.6	751.8	751.6	749.4	749.8	748.8
22.5°	728.7	727.4	726.0	724.8	723.3	721.5	720.7	721.0	720.0	719.7	719.5
25°	695.4	692.1	690.4	689.8	689.2	687.7	687.1	686.8	686.8	686.0	686.2
27.5°	657.1	654.8	652.5	653.3	652.1	651.2	650.7	649.7	650.3	650.0	650.3
30°	618.0	615.0	613.5	614.2	613.9	611.4	612.7	612.4	612.7	612.7	613.2
32.5°	576.7	574.7	574.4	574.7	572.0	572.3	571.1	572.9	573.2	574.9	573.4
35°	535.0	533.8	531.7	531.4	531.7	531.4	531.4	532.5	532.2	534.0	533.5
37.5°	491.9	491.3	489.3	489.8	488.6	490.7	491.3	490.7	492.8	492.2	491.9
40°	449.8	448.9	447.7	450.0	448.5	447.4	449.5	447.7	448.3	450.0	450.0
42.5°	407.1	405.6	405.6	405.6	405.3	405.3	406.1	407.1	406.4	406.8	409.1
45°	364.0	363.7	362.9	363.4	363.2	364.7	364.7	365.2	366.4	367.6	367.0
47.5°	322.5	321.9	322.8	322.2	322.5	321.6	322.2	324.0	325.4	323.4	325.4
50°	283.7	282.5	282.2	283.0	282.7	282.5	283.0	283.0	282.5	282.5	284.5
52.5°	246.5	245.4	244.4	245.9	245.1	245.4	244.2	244.2	244.7	244.2	243.3
55°	211.8	210.9	209.7	210.4	208.9	208.6	207.4	207.4	206.5	205.9	204.1
57.5°	178.6	178.0	175.4	175.0	175.4	173.2	171.2	170.3	168.0	167.3	167.0
60°	149.2	146.0	144.5	142.7	141.5	140.7	138.2	136.8	133.3	131.1	130.8
62.5°	118.7	117.2	115.4	112.7	112.1	109.1	106.8	102.9	101.2	98.5	95.8
65°	94.0	90.2	87.6	86.1	83.7	81.0	78.4	74.1	72.1	68.9	66.2
67.5°	68.9	65.6	62.0	60.8	58.7	55.5	52.8	49.3	47.5	44.5	43.6
70°	47.2	44.2	41.6	39.8	38.3	35.0	32.4	31.2	29.4	28.8	28.8
72.5°	30.2	27.6	24.6	23.7	22.5	20.7	19.0	18.4	19.0	18.7	18.7
75°	16.9	15.4	13.3	12.5	12.5	11.8	11.5	11.5	11.5	11.5	11.5
77.5°	8.6	7.7	7.1	6.9	6.9	6.9	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°	882.6	882.6	882.6	882.6	882.6	882.6	882.6	882.6
2.5°	876.1	875.5	875.5	875.2	875.2	875.2	875.2	875.5
5°	866.6	866.3	866.3	865.7	865.7	865.7	865.7	865.7
7.5°	853.8	853.3	853.5	853.0	853.0	853.3	853.0	852.7
10°	838.2	837.9	838.2	838.2	837.5	837.2	837.5	837.9
12.5°	820.3	820.1	819.5	819.8	819.8	819.5	819.1	818.5
15°	799.6	799.3	798.9	798.7	798.4	798.7	798.4	797.8
17.5°	775.2	775.2	774.9	774.6	774.4	773.8	774.1	774.9
20°	749.1	748.8	748.3	748.5	747.3	746.8	747.0	748.0
22.5°	719.2	718.2	718.9	718.0	718.0	718.2	718.0	717.4
25°	686.5	685.3	686.0	686.2	686.2	686.0	685.7	686.0
27.5°	650.3	651.2	651.2	650.7	651.5	650.3	651.0	651.2
30°	613.2	612.4	612.1	613.2	615.0	613.5	613.5	613.9
32.5°	574.9	573.8	573.8	574.4	574.1	574.1	575.2	573.8
35°	534.0	534.6	532.2	533.8	534.3	533.8	534.0	534.0
37.5°	492.8	492.2	492.2	492.2	493.1	493.1	493.7	493.4
40°	452.1	451.0	450.7	451.3	450.0	451.0	451.0	450.0
42.5°	408.2	408.6	410.0	408.6	408.9	408.6	407.9	407.6
45°	367.6	368.5	367.8	367.6	367.8	366.7	367.0	367.8
47.5°	324.6	326.4	324.6	325.8	325.4	324.9	324.3	323.1
50°	284.2	284.8	284.5	284.2	284.0	283.7	282.2	281.2
52.5°	242.9	242.9	242.9	242.9	240.0	241.5	240.9	239.1
55°	202.6	203.5	202.3	202.3	200.2	200.2	199.7	200.0
57.5°	163.7	162.9	162.0	162.0	159.9	159.1	158.1	157.0
60°	127.6	126.7	125.5	124.1	121.9	121.9	121.3	119.0
62.5°	93.5	92.0	91.1	89.9	88.1	86.9	86.1	86.6
65°	64.1	62.6	61.4	61.4	61.4	60.8	60.5	60.5
67.5°	42.1	43.0	42.4	43.0	43.0	42.4	42.1	42.7
70°	29.1	29.1	28.8	28.8	28.8	28.8	28.5	28.8
72.5°	18.7	18.7	18.7	19.0	18.7	18.7	19.0	19.0
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)