

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: P844153

Luminaire Tested: **LD6C20DE010B40 EU6C20B40 6LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20DE010B40 EU6C20B40 6LBLWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

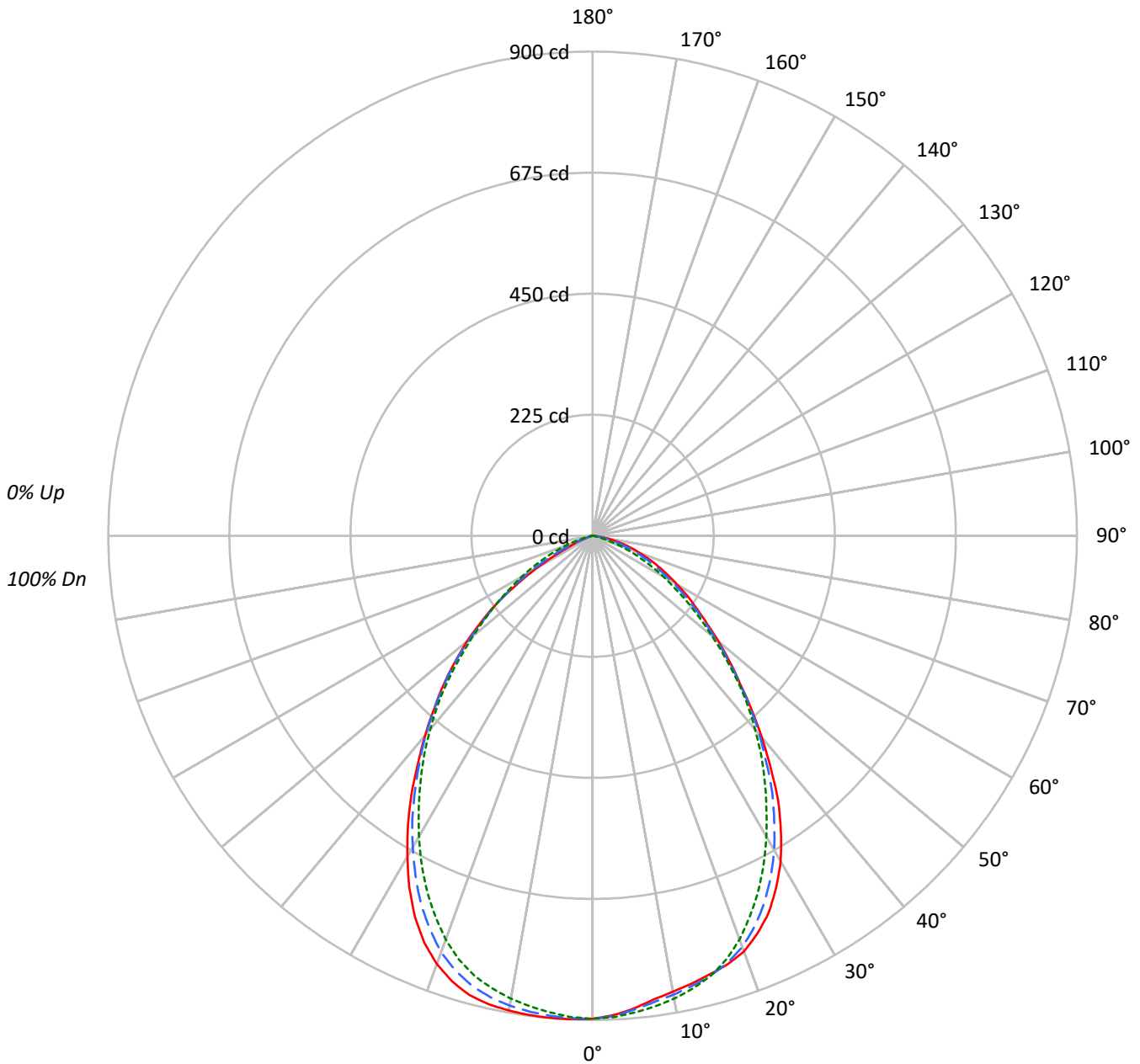
Lumens per Lamp: N/A
Luminaire Lumens: 1651.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54								
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44								
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40								
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49212	49212	49212
5°	48536	48960	49499
10°	47889	48635	49888
15°	47872	48071	50159
20°	47978	46589	49389
25°	46805	44059	47271
30°	44247	40854	43589
35°	40234	37316	39257
40°	34973	33599	34658
45°	29980	29453	30399
50°	26003	24690	25927
55°	22566	20520	20405
60°	19867	16621	12905
65°	17421	12621	6187
70°	14970	8367	2292
75°	12179	3516	635
80°	8240	821	253
85°	3334	189	189



TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	5.1
10°-20°	240.8	14.6
20°-30°	345.1	20.9
30°-40°	359.7	21.8
40°-50°	298.0	18.0
50°-60°	197.5	12.0
60°-70°	95.6	5.8
70°-80°	27.1	1.6
80°-90°	2.6	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°	670.5	40.6
0°-40°	1030.1	62.4
0°-60°	1525.6	92.4
0°-90°	1651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	898	898	898	898	898	
5°	882	884	890	896	900	83
15°	844	846	847	866	884	238
25°	774	754	728	755	782	354
35°	601	582	558	575	587	373
45°	387	386	380	389	392	301
55°	236	228	215	211	214	213
65°	134	121	97	67	48	134
75°	58	44	17	3	3	62
85°	5	2	0	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7
2.5°	892.0	892.3	893.0	892.3	892.6	893.0	893.0	893.3	893.3	893.6	893.8
5°	882.0	882.9	882.9	882.9	882.9	883.1	883.4	883.4	883.1	883.1	884.4
7.5°	869.3	870.1	869.8	870.1	870.4	871.3	871.0	871.6	872.2	873.1	874.2
10°	860.3	860.6	860.3	861.2	861.8	862.4	862.4	863.0	863.6	864.5	866.0
12.5°	852.3	852.7	852.9	853.5	854.1	853.8	854.4	855.0	855.3	855.8	856.8
15°	843.5	844.9	844.6	844.9	845.2	845.5	845.8	846.1	845.8	845.8	846.4
17.5°	835.1	835.4	835.7	835.7	835.7	835.7	835.1	835.1	834.3	833.3	832.8
20°	822.4	822.1	821.5	821.5	820.3	820.6	819.5	818.8	817.3	815.2	813.2
22.5°	800.1	801.6	801.1	798.9	797.8	797.8	796.6	793.9	791.5	789.2	786.5
25°	773.8	773.1	772.3	771.0	769.3	768.1	766.4	764.6	760.7	756.5	754.2
27.5°	738.4	739.3	737.3	735.5	734.6	732.8	731.0	728.6	724.0	720.4	716.2
30°	699.0	698.4	698.1	695.7	693.4	693.9	690.4	687.8	684.2	678.3	675.0
32.5°	651.5	652.5	650.7	650.3	645.9	645.4	645.4	641.1	638.2	632.6	628.1
35°	601.2	600.5	600.0	597.9	597.6	595.8	594.3	591.3	587.5	585.7	582.1
37.5°	543.0	543.3	543.6	543.6	542.5	541.2	540.0	540.0	534.7	533.8	529.7
40°	488.7	489.6	489.4	487.3	487.6	487.9	487.6	487.3	484.0	482.8	482.2
42.5°	436.0	437.4	436.0	435.6	436.0	436.0	435.3	436.3	434.8	436.0	433.3
45°	386.7	387.9	387.0	386.7	386.1	387.6	385.8	387.3	386.5	385.0	385.5
47.5°	344.3	343.1	344.3	343.7	342.8	341.6	343.4	342.6	340.5	340.1	340.8
50°	304.9	304.3	304.9	304.6	303.1	303.1	302.8	302.2	301.6	299.8	298.7
52.5°	267.2	269.3	267.8	269.3	267.2	266.3	266.6	265.7	264.5	264.0	261.6
55°	236.1	236.4	236.4	236.4	235.2	234.6	233.9	233.4	233.4	230.8	228.3
57.5°	209.1	208.5	208.1	207.3	206.7	206.1	205.5	203.7	202.0	199.6	197.8
60°	181.2	181.8	181.8	180.6	179.7	178.8	178.5	177.4	175.2	172.9	170.3
62.5°	157.2	157.8	156.3	156.3	154.5	154.2	154.2	152.4	150.1	147.4	144.5
65°	134.3	134.0	134.6	132.5	132.8	131.0	130.5	129.6	127.2	124.0	121.3
67.5°	112.7	113.3	112.4	111.8	110.6	110.0	109.5	106.7	105.6	102.6	99.6
70°	93.4	92.9	92.2	92.2	91.1	90.1	89.9	86.9	85.5	83.0	79.7
72.5°	75.3	74.8	74.1	73.3	72.3	72.0	70.3	68.5	66.7	63.8	61.3
75°	57.5	57.2	56.7	56.1	54.6	53.9	53.7	51.6	48.3	46.0	43.9
77.5°	41.6	41.8	40.6	39.4	38.6	37.7	37.1	35.3	33.2	30.6	28.5
80°	26.1	26.4	26.1	25.2	24.0	23.7	22.8	21.7	19.9	18.1	16.6
82.5°	14.0	14.0	13.6	13.3	12.5	12.5	11.8	11.0	10.0	9.2	8.0
85°	5.3	5.3	5.1	4.8	4.4	4.4	4.1	3.8	3.3	3.0	2.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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



TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7
2.5°	893.8	894.1	894.4	894.8	894.8	894.8	895.1	895.3	895.3	895.6	895.9
5°	884.9	885.2	886.1	886.4	887.0	886.7	887.6	888.5	889.0	889.7	890.5
7.5°	874.9	875.7	876.9	877.8	878.2	878.5	879.3	880.5	881.4	882.6	883.4
10°	866.5	867.5	868.6	869.8	869.8	870.4	871.0	871.9	872.8	873.7	874.9
12.5°	857.3	858.6	858.8	859.4	859.4	859.8	860.3	860.6	861.5	861.8	863.6
15°	846.4	846.4	846.4	846.4	846.4	846.1	845.5	846.1	846.1	847.0	847.9
17.5°	831.3	831.3	829.5	828.6	828.9	827.4	827.1	825.9	825.9	825.9	826.9
20°	811.4	808.8	806.7	804.0	802.7	802.2	801.6	798.9	798.6	798.6	798.6
22.5°	783.2	780.2	777.3	775.2	772.0	770.8	769.5	767.8	765.7	764.6	767.2
25°	748.8	745.3	741.7	737.6	736.6	735.2	732.2	730.4	729.6	728.4	728.9
27.5°	712.3	707.3	703.4	699.3	697.8	696.0	693.4	690.7	687.8	688.3	688.3
30°	670.5	664.6	660.5	655.4	655.1	653.3	651.0	647.7	645.4	645.4	646.8
32.5°	625.2	621.0	617.1	611.5	610.6	609.4	607.6	604.6	603.0	601.2	602.3
35°	579.2	572.7	570.0	566.5	566.7	563.5	560.8	559.1	559.3	557.6	558.4
37.5°	529.7	525.9	521.9	520.5	519.0	517.2	516.0	514.9	514.2	514.2	513.7
40°	479.5	477.4	475.7	475.1	472.4	473.0	472.8	471.8	470.0	469.5	471.3
42.5°	432.4	430.4	429.4	427.9	427.6	426.8	426.8	425.9	425.6	425.9	425.6
45°	383.7	383.5	381.4	381.4	382.5	381.7	379.3	380.7	380.7	379.9	381.7
47.5°	339.0	339.3	338.1	335.7	335.7	334.2	332.4	333.9	334.8	333.4	334.2
50°	298.4	296.6	294.2	292.4	293.3	292.8	291.3	290.0	289.2	289.5	290.6
52.5°	259.8	258.9	256.3	254.1	253.5	253.8	252.0	250.3	250.6	250.3	249.7
55°	225.1	225.1	221.6	220.6	218.3	218.3	215.9	215.7	214.7	214.7	213.2
57.5°	195.1	192.5	190.4	188.4	187.4	186.2	185.4	183.3	182.3	180.6	180.3
60°	167.5	164.3	162.8	160.4	158.6	157.5	156.0	154.2	153.0	151.6	149.8
62.5°	143.0	139.4	136.4	134.0	132.5	132.3	129.9	127.9	125.4	123.6	120.7
65°	118.3	116.2	113.0	109.7	109.1	107.7	105.2	102.9	99.9	97.3	95.5
67.5°	96.7	94.0	91.1	89.3	87.1	86.0	83.3	79.7	76.5	73.8	70.5
70°	77.4	73.5	70.9	67.9	67.4	64.6	62.3	58.7	55.7	52.2	47.5
72.5°	58.2	54.3	52.2	49.2	47.5	46.0	42.7	39.4	34.7	32.0	27.9
75°	40.9	37.7	34.7	31.7	30.6	28.5	25.8	22.2	19.2	16.6	13.6
77.5°	25.5	23.5	20.7	18.4	17.2	16.0	14.0	11.3	9.2	7.1	5.3
80°	14.5	12.8	11.0	9.2	8.6	8.0	6.2	4.8	3.8	2.6	1.8
82.5°	6.8	5.6	4.8	3.8	3.6	3.0	2.1	1.5	0.8	0.6	0.3
85°	2.1	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



TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7
2.5°	895.9	896.2	896.6	896.6	896.6	896.8	896.8	897.4	897.7	898.0	898.0
5°	891.2	892.0	892.6	893.0	893.3	894.1	894.4	895.3	895.9	896.6	897.1
7.5°	884.6	885.6	886.7	887.4	887.9	889.0	890.0	891.5	892.3	893.6	894.8
10°	876.4	877.5	879.3	880.0	880.5	882.0	883.8	885.6	887.0	888.8	890.3
12.5°	864.2	866.0	868.0	868.6	869.5	871.6	873.7	876.4	878.5	880.8	883.1
15°	849.1	851.4	852.9	853.5	854.7	857.6	859.8	862.7	866.0	869.5	872.2
17.5°	828.0	829.2	831.8	833.0	834.6	837.5	840.7	844.3	847.3	851.2	855.3
20°	800.4	802.2	805.5	806.7	808.5	811.1	815.9	818.8	823.6	828.3	831.3
22.5°	766.0	769.3	772.5	774.0	775.2	778.5	781.7	786.8	790.7	797.1	801.1
25°	730.4	731.4	734.0	736.6	737.3	741.4	745.3	751.2	755.0	759.2	764.6
27.5°	689.5	690.7	694.9	695.4	695.7	700.2	704.6	709.4	712.6	717.4	720.0
30°	646.8	648.9	650.7	651.8	653.9	655.9	660.2	666.1	668.4	672.7	676.1
32.5°	603.2	603.2	607.4	607.6	608.9	613.6	616.0	619.6	623.7	627.0	626.6
35°	559.9	561.1	562.6	564.7	565.5	568.5	569.4	572.1	574.7	577.2	580.1
37.5°	515.2	515.2	518.3	519.8	520.8	522.3	523.7	526.4	527.9	528.8	530.5
40°	472.4	473.6	474.2	474.8	474.8	476.9	478.1	480.2	481.0	483.4	482.2
42.5°	429.1	428.6	428.9	430.4	430.6	431.8	432.7	433.8	435.0	434.5	436.6
45°	383.2	383.5	384.0	384.0	385.0	386.5	387.9	388.5	389.4	390.9	391.2
47.5°	335.2	336.6	335.7	338.1	338.7	339.0	342.6	342.8	345.7	346.4	346.4
50°	290.3	290.3	292.1	293.0	293.6	294.4	295.7	296.9	297.7	299.8	300.4
52.5°	250.0	250.6	250.6	249.7	250.6	250.6	253.5	253.8	253.5	254.1	255.0
55°	213.9	214.2	212.4	213.5	213.2	212.4	212.9	211.1	210.9	211.7	211.1
57.5°	179.2	177.9	177.7	176.2	176.2	174.7	173.2	173.2	172.0	170.0	169.6
60°	148.0	146.2	145.0	144.2	141.7	140.2	138.2	136.4	134.0	131.4	129.9
62.5°	118.7	116.6	114.2	113.0	111.3	107.7	105.0	102.3	98.5	96.1	93.7
65°	92.5	89.3	85.5	83.7	81.9	78.6	75.0	70.5	66.7	63.5	59.3
67.5°	67.1	63.5	59.7	56.9	55.2	51.3	47.2	43.3	38.8	35.3	33.2
70°	43.9	39.4	35.9	33.8	32.0	28.1	24.3	21.0	18.9	18.1	17.8
72.5°	25.0	20.4	17.8	15.8	14.3	11.5	9.5	8.4	7.7	7.4	6.8
75°	10.7	8.0	6.2	5.1	4.4	3.6	3.3	3.3	3.3	3.0	3.0
77.5°	3.8	2.6	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
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



TEST NUMBER: P844153

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	897.7	897.7	897.7	897.7	897.7	897.7	897.7	897.7
2.5°	898.2	898.9	898.9	899.2	899.5	899.5	899.5	899.5
5°	897.7	898.2	898.6	898.9	899.2	899.5	899.5	899.5
7.5°	895.3	896.6	896.8	897.4	898.0	898.2	898.2	898.6
10°	891.8	893.0	893.8	894.4	895.1	895.6	896.2	896.2
12.5°	885.2	887.0	888.2	888.8	890.3	890.8	891.5	892.0
15°	874.6	876.9	878.5	879.6	880.8	882.6	882.9	883.8
17.5°	858.6	861.8	862.4	864.2	865.7	868.6	868.3	868.6
20°	835.4	839.0	840.2	842.0	844.3	846.4	848.2	846.6
22.5°	804.5	808.8	810.5	812.3	813.7	815.5	817.9	818.2
25°	768.1	771.6	773.1	774.3	777.3	778.7	781.2	781.5
27.5°	726.3	728.4	730.4	731.0	734.3	735.2	737.3	737.3
30°	678.8	681.2	683.5	684.5	685.3	686.3	687.8	688.6
32.5°	630.2	632.6	633.4	634.9	635.2	636.7	636.2	638.5
35°	581.6	582.1	583.1	582.8	584.9	584.6	586.9	586.6
37.5°	532.6	532.0	533.5	535.0	534.4	533.8	534.7	533.3
40°	483.7	484.0	484.3	485.8	484.3	485.1	484.6	484.3
42.5°	438.1	438.1	436.3	438.1	436.8	436.3	437.4	435.6
45°	391.7	391.4	391.7	392.1	392.1	392.1	390.9	392.1
47.5°	347.9	348.2	347.0	349.0	348.5	347.3	347.3	346.4
50°	301.3	303.1	305.1	303.4	304.9	304.0	303.1	304.0
52.5°	257.1	258.3	256.8	257.1	260.4	260.4	258.6	258.3
55°	209.9	209.9	210.6	210.9	211.1	215.0	212.9	213.5
57.5°	167.8	167.8	167.0	168.7	167.5	166.0	167.5	163.7
60°	127.6	127.2	126.4	125.1	122.2	121.3	118.0	117.7
62.5°	90.7	87.5	86.3	84.0	80.7	79.7	76.5	76.3
65°	56.4	52.5	51.3	50.1	48.7	48.3	47.2	47.7
67.5°	32.0	31.4	31.1	30.2	29.6	29.1	29.1	28.8
70°	16.9	15.8	15.4	15.1	15.1	14.0	13.6	14.3
72.5°	6.6	5.9	5.9	5.9	5.6	5.6	5.6	5.6
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)