

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: P844102

Luminaire Tested: **LD6C20DE010B2750 EU6C20B27 6LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844102
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: LD6C20DE010B2750 EU6C20B27 6LBLWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

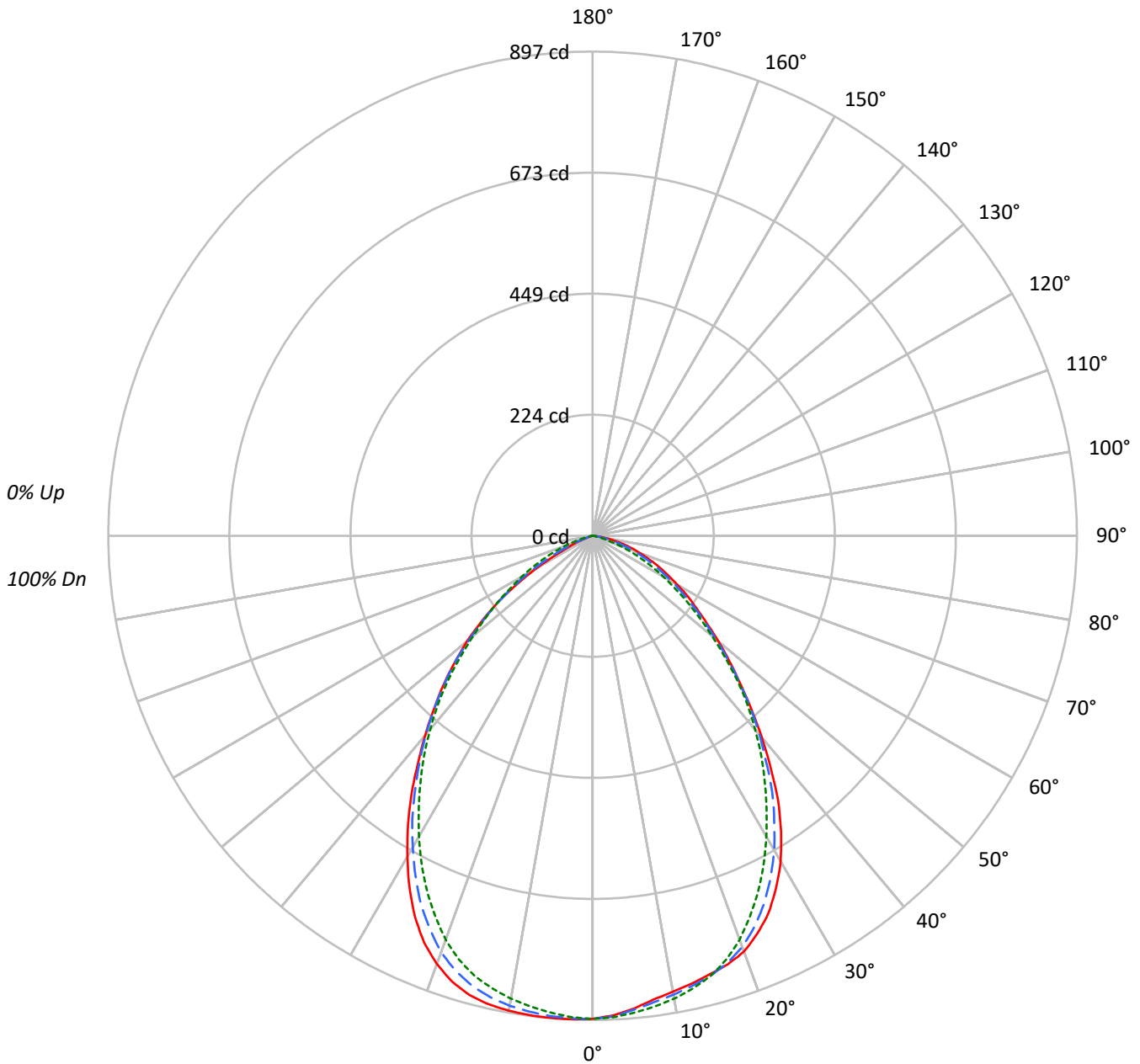
Lumens per Lamp: N/A
Luminaire Lumens: 1645.7 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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					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°	49059	49059	49059
5°	48376	48800	49340
10°	47733	48479	49732
15°	47713	47917	49995
20°	47826	46443	49238
25°	46648	43920	47114
30°	44108	40721	43450
35°	40107	37196	39137
40°	34858	33491	34543
45°	29887	29352	30298
50°	25918	24605	25841
55°	22489	20463	20339
60°	19801	16556	12872
65°	17369	12582	6174
70°	14922	8335	2276
75°	12137	3516	635
80°	8208	821	253
85°	3334	189	189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	5.1
10°-20°	240.1	14.6
20°-30°	344.0	20.9
30°-40°	358.5	21.8
40°-50°	297.0	18.0
50°-60°	196.9	12.0
60°-70°	95.3	5.8
70°-80°	27.0	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°	668.3	40.6
0°-40°	1026.8	62.4
0°-60°	1520.7	92.4
0°-90°	1645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	895	895	895	895	895	
5°	879	882	887	893	897	83
15°	841	844	844	863	881	238
25°	771	752	726	753	779	353
35°	599	580	556	573	585	372
45°	386	384	379	388	391	300
55°	235	228	214	210	213	213
65°	134	121	97	66	48	133
75°	57	44	17	3	3	61
85°	5	2	0	0	0	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°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	889.2	889.5	890.1	889.5	889.8	890.1	890.1	890.4	890.4	890.6	891.0
5°	879.1	880.1	880.1	880.1	880.1	880.4	880.6	880.6	880.4	880.4	881.5
7.5°	866.4	867.4	867.0	867.4	867.6	868.5	868.2	868.8	869.4	870.3	871.5
10°	857.5	857.8	857.5	858.5	859.0	859.6	859.6	860.3	860.8	861.8	863.2
12.5°	849.6	849.9	850.2	850.8	851.4	851.1	851.7	852.2	852.6	853.1	854.0
15°	840.7	842.2	841.9	842.2	842.5	842.8	843.0	843.4	843.0	843.0	843.7
17.5°	832.5	832.8	833.0	833.0	833.0	833.0	832.5	832.5	831.5	830.7	830.0
20°	819.8	819.5	818.8	818.8	817.7	818.0	816.8	816.2	814.7	812.7	810.6
22.5°	797.6	799.0	798.4	796.4	795.2	795.2	794.0	791.3	789.0	786.7	783.9
25°	771.2	770.7	769.7	768.6	766.8	765.6	763.8	762.1	758.2	754.1	751.8
27.5°	736.1	737.0	734.8	733.2	732.2	730.5	728.7	726.3	721.6	718.0	713.9
30°	696.8	696.1	695.9	693.5	691.2	691.7	688.2	685.6	682.0	676.0	672.9
32.5°	649.5	650.3	648.5	648.3	643.9	643.3	643.3	639.1	636.2	630.6	626.1
35°	599.3	598.6	598.0	596.0	595.7	593.9	592.4	589.4	585.6	583.8	580.3
37.5°	541.3	541.6	541.8	541.8	540.7	539.5	538.3	538.3	532.9	532.1	528.0
40°	487.1	488.1	487.8	485.7	486.0	486.3	486.0	485.7	482.5	481.2	480.7
42.5°	434.6	436.1	434.6	434.3	434.6	434.6	433.9	434.9	433.4	434.6	431.9
45°	385.5	386.7	385.8	385.5	384.9	386.4	384.6	386.0	385.2	383.7	384.3
47.5°	343.2	342.0	343.2	342.6	341.7	340.6	342.4	341.4	339.4	339.1	339.7
50°	303.9	303.3	303.9	303.6	302.2	302.2	301.8	301.2	300.7	298.9	297.7
52.5°	266.3	268.4	266.9	268.4	266.3	265.5	265.8	264.8	263.7	263.1	260.7
55°	235.3	235.6	235.6	235.6	234.4	233.8	233.2	232.7	232.7	230.0	227.6
57.5°	208.5	207.8	207.5	206.7	206.0	205.5	204.9	203.1	201.3	198.9	197.1
60°	180.6	181.2	181.2	180.0	179.2	178.2	178.0	176.7	174.7	172.4	169.6
62.5°	156.6	157.3	155.8	155.8	154.0	153.7	153.7	152.0	149.5	146.9	143.9
65°	133.9	133.6	134.2	132.1	132.4	130.6	130.1	129.1	126.8	123.5	120.9
67.5°	112.3	113.0	112.0	111.5	110.3	109.7	109.0	106.4	105.2	102.3	99.3
70°	93.1	92.5	91.9	91.9	90.7	89.9	89.6	86.6	85.1	82.8	79.5
72.5°	75.1	74.5	73.9	73.0	72.1	71.8	70.0	68.3	66.5	63.6	61.2
75°	57.3	57.0	56.5	55.8	54.4	53.8	53.5	51.4	48.2	45.8	43.8
77.5°	41.4	41.7	40.5	39.3	38.4	37.5	36.9	35.2	33.1	30.5	28.3
80°	26.0	26.3	26.0	25.2	23.9	23.7	22.7	21.6	19.8	18.0	16.6
82.5°	13.9	13.9	13.6	13.3	12.4	12.4	11.8	10.9	10.0	9.2	7.9
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	891.0	891.3	891.6	891.9	891.9	891.9	892.1	892.4	892.4	892.7	893.1
5°	882.1	882.4	883.3	883.5	884.2	883.9	884.8	885.7	886.3	886.8	887.8
7.5°	872.0	873.0	874.1	875.0	875.3	875.6	876.5	877.6	878.6	879.7	880.6
10°	863.8	864.6	865.9	867.0	867.0	867.6	868.2	869.1	870.0	870.9	872.0
12.5°	854.6	855.8	856.0	856.7	856.7	857.0	857.5	857.8	858.8	859.0	860.8
15°	843.7	843.7	843.7	843.7	843.7	843.4	842.8	843.4	843.4	844.3	845.2
17.5°	828.6	828.6	826.9	825.9	826.2	824.7	824.4	823.3	823.3	823.3	824.2
20°	808.8	806.1	804.1	801.4	800.2	799.7	799.0	796.4	796.1	796.1	796.1
22.5°	780.7	777.8	774.8	772.7	769.4	768.3	767.1	765.3	763.3	762.1	764.8
25°	746.4	742.9	739.3	735.2	734.3	732.8	729.9	728.1	727.2	726.1	726.6
27.5°	710.1	705.0	701.2	697.1	695.6	693.8	691.2	688.5	685.6	686.1	686.1
30°	668.4	662.5	658.4	653.3	653.0	651.2	648.9	645.6	643.3	643.3	644.7
32.5°	623.2	619.0	615.1	609.5	608.7	607.5	605.7	602.7	600.9	599.3	600.4
35°	577.4	570.8	568.2	564.7	564.9	561.7	559.0	557.3	557.5	555.8	556.6
37.5°	528.0	524.2	520.3	518.8	517.3	515.6	514.3	513.2	512.6	512.6	512.0
40°	478.1	475.9	474.1	473.6	470.9	471.5	471.2	470.3	468.5	468.0	469.7
42.5°	431.0	429.0	428.0	426.5	426.2	425.4	425.4	424.5	424.2	424.5	424.2
45°	382.5	382.2	380.1	380.1	381.4	380.4	378.1	379.6	379.6	378.6	380.4
47.5°	337.9	338.2	337.0	334.6	334.6	333.2	331.4	332.8	333.8	332.3	333.2
50°	297.4	295.6	293.3	291.5	292.3	291.8	290.3	289.2	288.2	288.5	289.7
52.5°	258.9	258.1	255.4	253.3	252.8	253.1	251.3	249.5	249.8	249.5	248.9
55°	224.3	224.3	220.8	220.0	217.6	217.6	215.2	214.9	214.1	214.1	212.6
57.5°	194.5	191.9	189.7	187.7	186.8	185.6	184.8	182.7	181.8	180.0	179.7
60°	167.0	163.7	162.2	159.9	158.1	157.0	155.5	153.7	152.5	151.0	149.2
62.5°	142.5	139.0	136.0	133.6	132.1	131.9	129.5	127.4	125.0	123.3	120.4
65°	117.9	115.9	112.6	109.4	108.8	107.3	104.9	102.6	99.6	97.0	95.2
67.5°	96.4	93.7	90.7	88.9	86.9	85.8	83.0	79.5	76.3	73.6	70.3
70°	77.2	73.3	70.6	67.7	67.1	64.4	62.1	58.5	55.5	52.0	47.3
72.5°	58.0	54.0	52.0	49.1	47.3	45.8	42.5	39.3	34.6	31.9	27.8
75°	40.8	37.5	34.6	31.6	30.5	28.3	25.7	22.2	19.2	16.6	13.6
77.5°	25.4	23.4	20.7	18.3	17.1	16.0	13.9	11.2	9.2	7.1	5.3
80°	14.5	12.7	10.9	9.2	8.6	7.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	893.1	893.4	893.6	893.6	893.6	893.9	893.9	894.5	894.9	895.1	895.1
5°	888.3	889.2	889.8	890.1	890.4	891.3	891.6	892.4	893.1	893.6	894.2
7.5°	881.9	882.7	883.9	884.5	885.0	886.3	887.1	888.6	889.5	890.6	891.9
10°	873.5	874.8	876.5	877.1	877.6	879.1	880.9	882.7	884.2	886.0	887.5
12.5°	861.4	863.2	865.3	865.9	866.7	868.8	870.9	873.5	875.6	877.9	880.4
15°	846.3	848.8	850.2	850.8	851.9	854.9	857.0	860.0	863.2	866.7	869.4
17.5°	825.4	826.5	829.2	830.3	831.8	834.8	838.1	841.6	844.5	848.4	852.6
20°	797.9	799.7	802.8	804.1	805.8	808.5	813.2	816.2	820.9	825.7	828.6
22.5°	763.6	766.8	770.1	771.5	772.7	776.0	779.3	784.2	788.1	794.6	798.4
25°	728.1	729.0	731.7	734.3	734.8	739.1	742.9	748.8	752.6	756.7	762.1
27.5°	687.3	688.5	692.6	693.2	693.5	697.9	702.4	707.1	710.3	715.1	717.7
30°	644.7	646.8	648.5	649.7	651.8	653.9	658.1	664.0	666.3	670.4	674.0
32.5°	601.3	601.3	605.4	605.7	606.9	611.6	614.0	617.6	621.7	625.0	624.6
35°	558.1	559.3	560.8	562.9	563.7	566.7	567.5	570.3	572.9	575.2	578.2
37.5°	513.5	513.5	516.8	518.2	519.1	520.6	522.0	524.7	526.2	527.1	528.8
40°	470.9	472.1	472.7	473.3	473.3	475.3	476.6	478.6	479.5	481.9	480.7
42.5°	427.7	427.2	427.5	429.0	429.2	430.5	431.3	432.5	433.6	433.1	435.1
45°	381.9	382.2	382.9	382.9	383.7	385.2	386.7	387.3	388.2	389.6	389.9
47.5°	334.0	335.5	334.6	337.0	337.6	337.9	341.4	341.7	344.7	345.3	345.3
50°	289.4	289.4	291.2	292.0	292.6	293.5	294.8	295.9	296.8	298.9	299.4
52.5°	249.2	249.8	249.8	248.9	249.8	249.8	252.8	253.1	252.8	253.3	254.3
55°	213.1	213.4	211.6	212.8	212.6	211.6	212.3	210.5	210.2	211.1	210.5
57.5°	178.5	177.4	177.0	175.6	175.6	174.1	172.6	172.6	171.4	169.4	169.1
60°	147.5	145.7	144.6	143.6	141.3	139.8	137.7	136.0	133.6	130.9	129.5
62.5°	118.2	116.1	113.8	112.6	110.8	107.3	104.6	102.0	98.1	95.8	93.4
65°	92.2	88.9	85.1	83.3	81.5	78.4	74.8	70.3	66.5	63.2	59.1
67.5°	66.8	63.2	59.4	56.8	55.0	51.2	47.0	43.2	38.7	35.2	33.1
70°	43.8	39.3	35.7	33.7	31.9	28.1	24.2	20.9	18.9	18.0	17.8
72.5°	24.9	20.4	17.8	15.7	14.2	11.5	9.4	8.2	7.7	7.4	6.8
75°	10.7	7.9	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	895.4	896.0	896.0	896.3	896.6	896.6	896.6	896.6
5°	894.9	895.4	895.7	896.0	896.3	896.6	896.6	896.6
7.5°	892.4	893.6	893.9	894.5	895.1	895.4	895.4	895.7
10°	888.9	890.1	891.0	891.6	892.1	892.7	893.4	893.4
12.5°	882.4	884.2	885.3	886.0	887.5	888.0	888.6	889.2
15°	871.8	874.1	875.6	876.8	877.9	879.7	880.1	880.9
17.5°	855.8	859.0	859.6	861.4	862.9	865.9	865.6	865.9
20°	832.8	836.3	837.4	839.2	841.6	843.7	845.5	844.0
22.5°	802.0	806.1	807.9	809.7	811.2	812.9	815.3	815.6
25°	765.6	769.2	770.7	771.9	774.8	776.3	778.6	778.9
27.5°	724.0	726.1	728.1	728.7	732.0	732.8	734.8	734.8
30°	676.7	679.0	681.4	682.3	683.1	684.1	685.6	686.4
32.5°	628.1	630.6	631.4	632.9	633.2	634.7	634.1	636.5
35°	579.7	580.3	581.2	580.9	583.0	582.7	585.0	584.8
37.5°	530.9	530.3	531.8	533.3	532.7	532.1	532.9	531.5
40°	482.2	482.5	482.7	484.2	482.7	483.7	483.0	482.7
42.5°	436.6	436.6	434.9	436.6	435.4	434.9	436.1	434.3
45°	390.5	390.2	390.5	390.8	390.8	390.8	389.6	390.8
47.5°	346.8	347.0	345.8	348.0	347.3	346.2	346.2	345.3
50°	300.4	302.2	304.2	302.4	303.9	303.0	302.2	303.0
52.5°	256.3	257.4	256.1	256.3	259.5	259.5	257.7	257.4
55°	209.3	209.3	209.8	210.2	210.5	214.3	212.3	212.8
57.5°	167.3	167.3	166.5	168.2	167.0	165.5	167.0	163.2
60°	127.1	126.8	126.0	124.8	121.8	120.9	117.6	117.4
62.5°	90.4	87.3	86.0	83.7	80.4	79.5	76.3	75.9
65°	56.2	52.4	51.2	49.9	48.4	48.2	47.0	47.6
67.5°	31.9	31.3	31.0	30.1	29.6	29.0	29.0	28.7
70°	16.8	15.7	15.3	15.1	15.1	13.9	13.6	14.2
72.5°	6.5	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



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













(END OF REPORT)