

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: P844168

Luminaire Tested: **LD6C20DE010B50 EU6C20B50 6LBLDWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844168  
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: LD6C20DE010B50 EU6C20B50 6LBLDWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

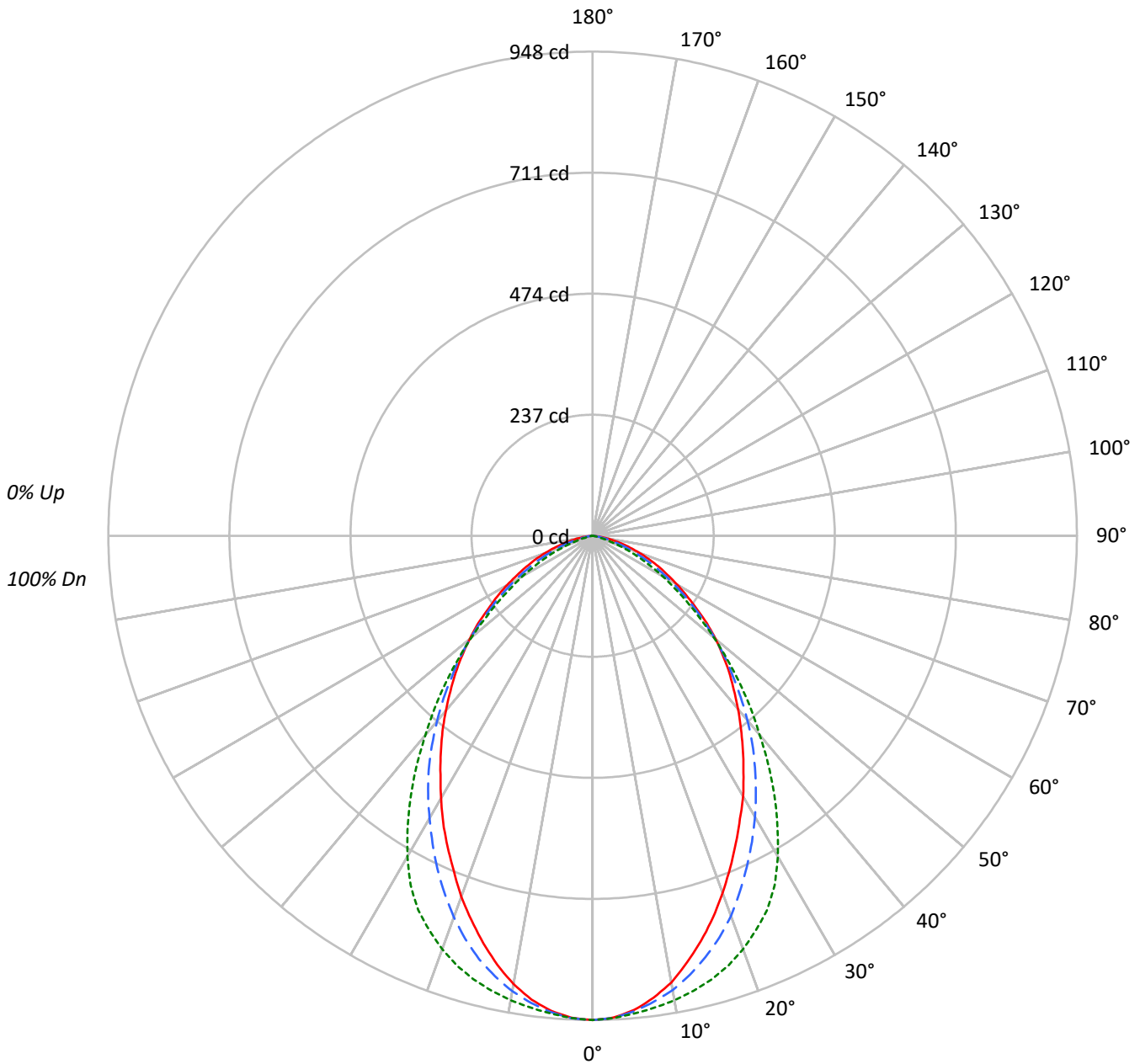
Lumens per Lamp: N/A  
Luminaire Lumens: 1697.5 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	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°	51986	51986	51986
5°	51299	51667	51387
10°	49426	51396	49621
15°	46578	51033	46884
20°	43404	50241	43870
25°	40145	48892	40623
30°	37278	45899	37537
35°	34305	41512	34686
40°	31695	36411	31996
45°	29290	31468	29391
50°	26788	26387	26762
55°	23665	21552	23751
60°	20897	17290	21204
65°	18394	12855	18523
70°	15483	8062	15884
75°	12285	3431	12603
80°	8177	789	8776
85°	3397	189	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	5.2
10°-20°	241.1	14.2
20°-30°	332.9	19.6
30°-40°	350.2	20.6
40°-50°	301.6	17.8
50°-60°	214.7	12.6
60°-70°	121.0	7.1
70°-80°	42.9	2.5
80°-90°	4.8	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°	662.3	39.0
0°-40°	1012.5	59.6
0°-60°	1528.7	90.1
0°-90°	1697.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	948	948	948	948	948	
5°	932	934	939	936	934	88
15°	821	854	899	858	826	230
25°	664	715	808	719	672	305
35°	513	554	620	560	518	321
45°	378	388	406	389	379	291
55°	248	239	226	239	248	223
65°	142	122	99	123	143	140
75°	58	39	16	40	60	63
85°	5	2	0	2	6	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°	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3
2.5°	944.3	944.6	944.6	944.9	944.6	944.6	944.9	944.9	944.6	944.9	944.9
5°	932.2	931.9	932.2	932.5	933.5	933.5	933.2	933.2	934.1	933.8	934.4
7.5°	912.5	912.5	913.5	914.1	914.1	914.4	915.1	916.3	917.6	917.9	920.1
10°	887.9	888.2	887.9	889.2	890.1	891.7	891.4	893.6	895.7	898.9	903.0
12.5°	855.2	856.2	858.1	858.1	860.9	862.5	862.2	867.3	871.4	875.2	880.3
15°	820.7	820.4	822.0	824.5	827.4	829.6	830.6	837.2	841.3	847.6	853.9
17.5°	783.7	782.8	785.3	786.9	791.6	794.4	796.3	802.0	808.7	816.3	824.8
20°	744.0	745.6	746.3	748.5	754.8	757.1	760.2	766.6	773.2	782.1	792.0
22.5°	703.5	705.8	707.0	709.9	715.0	716.9	720.0	729.2	736.5	744.4	753.6
25°	663.7	666.2	668.4	671.9	675.4	678.3	682.4	688.7	696.9	704.2	714.6
27.5°	624.7	627.0	627.6	631.7	635.8	639.6	641.8	649.4	656.4	665.3	675.4
30°	588.9	587.7	589.2	592.7	597.5	600.0	603.8	608.9	616.5	625.1	635.5
32.5°	549.7	549.7	552.2	556.3	560.1	562.0	563.3	570.3	577.9	586.1	594.6
35°	512.6	513.9	516.1	518.7	522.8	524.4	527.2	532.3	538.2	547.4	553.8
37.5°	476.9	477.8	480.1	482.6	485.8	488.8	490.1	495.5	499.9	507.6	513.6
40°	442.9	443.3	445.8	446.7	449.6	450.9	453.4	456.3	462.6	465.8	471.5
42.5°	408.8	410.4	411.3	413.5	413.9	416.4	417.7	418.6	423.7	425.6	428.8
45°	377.8	377.8	378.7	378.7	380.3	379.4	381.3	383.2	383.5	386.6	388.5
47.5°	345.4	344.5	345.7	345.4	345.1	345.1	345.7	346.1	347.0	349.2	350.2
50°	314.1	311.9	311.9	311.6	311.3	312.2	312.2	311.9	311.9	312.8	311.9
52.5°	282.1	281.4	280.0	278.7	278.1	278.1	278.1	276.8	276.8	276.1	273.9
55°	247.6	248.5	247.9	247.3	247.0	246.0	246.0	244.4	241.9	240.6	239.3
57.5°	217.9	219.1	219.1	217.9	216.3	215.7	214.1	213.1	210.9	208.7	206.1
60°	190.6	192.2	190.0	189.0	188.7	187.7	187.1	183.6	181.4	179.2	176.4
62.5°	164.7	165.3	163.7	162.8	161.8	160.9	160.5	157.7	153.9	151.0	147.5
65°	141.8	140.9	140.2	138.7	137.1	135.8	135.8	132.0	128.5	125.1	121.6
67.5°	118.1	118.8	117.8	116.6	114.0	112.7	110.8	108.3	105.1	101.6	97.5
70°	96.6	96.2	95.3	94.0	92.4	90.2	88.6	87.4	82.9	78.8	75.4
72.5°	76.9	76.7	75.7	74.1	71.9	71.0	69.7	66.5	63.0	59.5	55.7
75°	58.0	58.3	56.7	56.1	53.5	52.6	52.2	48.4	45.6	42.4	38.9
77.5°	41.5	41.5	39.9	38.6	37.3	36.7	35.4	33.2	31.0	27.8	25.1
80°	25.9	25.9	25.9	24.7	23.5	22.8	21.9	20.3	18.1	16.2	14.3
82.5°	14.0	14.0	13.3	13.0	12.4	11.7	11.4	10.8	9.2	8.2	7.0
85°	5.4	5.4	5.1	5.1	4.4	4.4	4.1	3.8	3.2	2.9	2.5
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°	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3
2.5°	945.2	945.2	944.9	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.5
5°	935.1	936.0	936.3	936.6	937.3	937.6	937.9	938.2	938.5	938.9	938.9
7.5°	922.0	924.3	925.9	927.4	928.1	928.7	929.7	930.9	931.9	931.9	931.6
10°	906.5	909.4	912.5	915.4	916.3	917.9	919.5	921.4	923.0	923.3	923.3
12.5°	886.3	889.5	895.2	899.8	901.7	904.0	907.1	910.0	911.6	912.5	912.2
15°	860.9	867.6	875.5	880.9	883.4	887.2	892.3	895.4	897.9	899.2	898.6
17.5°	833.4	842.0	850.4	857.7	861.2	865.0	872.0	877.7	881.5	882.5	881.9
20°	802.0	811.5	820.7	829.9	834.7	839.1	846.3	853.6	860.0	861.2	860.3
22.5°	764.7	775.5	786.6	796.9	802.3	806.4	816.9	825.2	832.5	835.6	833.4
25°	726.1	737.5	749.1	758.3	764.4	771.3	780.9	790.4	799.1	808.3	800.1
27.5°	684.9	695.3	707.7	720.4	726.1	731.1	741.0	752.9	762.1	771.3	762.1
30°	643.7	657.0	668.1	679.2	685.6	691.5	701.3	711.2	720.0	725.1	719.4
32.5°	605.1	614.9	626.0	636.8	641.1	645.9	654.1	663.3	671.9	673.5	669.7
35°	564.6	573.1	582.3	589.2	594.6	599.7	607.0	612.7	614.9	620.3	616.5
37.5°	518.7	526.3	534.5	539.5	544.3	548.4	553.8	558.9	560.8	564.9	562.0
40°	475.3	481.6	486.3	491.7	494.2	498.4	500.6	504.7	506.9	508.8	509.1
42.5°	433.5	436.9	440.4	444.2	445.2	446.1	451.5	454.4	456.6	457.8	455.9
45°	390.7	394.2	395.4	398.3	399.9	400.5	402.7	403.1	403.7	405.9	405.0
47.5°	351.8	352.1	353.0	354.3	354.9	354.9	356.2	354.9	355.6	355.9	356.5
50°	310.9	313.2	310.9	312.2	312.5	312.2	311.3	310.6	309.7	309.4	309.0
52.5°	272.3	272.7	271.4	270.4	269.5	269.8	267.3	266.0	266.3	264.4	266.6
55°	237.1	235.9	233.0	232.0	229.9	229.6	229.3	227.7	225.2	225.5	226.1
57.5°	203.3	201.1	198.2	196.6	196.0	193.4	193.1	190.6	189.0	188.7	188.7
60°	172.6	170.7	167.8	165.0	162.8	161.5	159.9	157.4	158.0	157.7	156.1
62.5°	143.4	141.2	137.1	133.9	132.6	131.7	129.5	127.7	126.7	127.7	126.7
65°	117.5	114.0	109.3	106.1	105.8	104.5	102.0	100.7	99.7	99.1	100.1
67.5°	93.4	88.6	85.8	81.6	79.7	79.1	75.7	73.8	74.1	73.8	74.1
70°	71.3	66.5	62.7	59.5	57.0	56.1	54.2	51.6	51.3	50.3	51.6
72.5°	51.6	47.5	44.0	40.5	38.3	37.0	34.5	31.9	31.3	30.7	30.7
75°	35.4	31.9	28.1	25.1	23.5	22.2	19.7	17.8	16.2	16.2	16.2
77.5°	22.2	19.4	16.5	14.3	13.3	12.1	9.8	7.9	7.3	6.3	6.7
80°	12.7	10.5	8.9	7.3	6.3	5.7	4.4	3.5	2.5	2.5	2.5
82.5°	6.0	5.1	3.8	3.2	2.9	2.2	1.6	1.3	1.0	0.6	0.6
85°	1.9	1.6	1.3	1.0	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°	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3
2.5°	945.2	945.5	945.2	945.5	945.2	945.8	945.8	945.5	945.5	945.5	945.2
5°	938.5	938.5	938.2	938.2	938.2	937.9	937.0	937.0	936.3	936.0	935.4
7.5°	931.2	930.6	929.7	929.3	928.4	927.4	925.5	923.9	922.7	921.1	919.5
10°	922.4	920.8	918.9	917.6	917.0	914.7	911.9	908.1	905.5	902.7	899.5
12.5°	910.9	909.0	905.5	903.0	901.4	897.3	893.3	888.5	883.4	878.4	875.2
15°	896.0	893.0	888.5	886.0	883.1	877.4	870.1	863.5	858.4	852.7	845.0
17.5°	878.7	873.9	867.9	863.8	860.3	852.7	844.1	835.6	828.0	821.0	813.4
20°	854.6	848.9	841.7	836.3	832.8	822.9	813.7	803.6	794.4	786.2	777.4
22.5°	826.4	816.9	809.6	803.3	799.5	788.5	778.3	767.5	757.7	750.4	741.0
25°	791.0	781.8	772.6	767.5	761.5	749.8	739.4	728.3	719.1	709.9	701.0
27.5°	753.2	742.5	732.4	726.4	721.0	709.6	699.1	689.0	678.6	668.4	660.5
30°	712.1	701.3	693.4	685.9	679.8	670.6	657.6	647.5	638.4	629.2	620.9
32.5°	666.2	657.3	647.8	644.0	639.6	628.6	618.4	608.6	599.4	590.2	581.7
35°	613.0	606.0	600.3	596.2	593.3	583.6	575.7	565.2	559.5	550.3	543.9
37.5°	558.5	555.0	551.2	546.2	542.0	536.4	531.7	523.1	516.4	509.8	502.8
40°	506.3	502.5	497.4	494.9	493.9	488.8	482.3	477.8	474.0	468.0	464.2
42.5°	455.3	453.4	448.3	447.1	445.8	441.4	438.2	434.5	431.9	427.5	425.6
45°	403.4	403.1	401.8	400.5	399.9	396.7	396.1	391.3	389.1	388.2	386.2
47.5°	357.5	356.5	354.6	356.5	353.7	353.4	353.4	352.4	351.5	348.9	348.6
50°	310.6	312.2	312.5	311.6	313.5	313.2	311.6	311.9	312.5	313.8	311.9
52.5°	267.6	268.9	271.1	270.1	271.7	273.3	272.7	275.2	274.2	275.5	278.1
55°	226.8	230.2	232.4	231.4	232.7	234.6	235.2	237.4	239.3	241.6	243.1
57.5°	191.5	192.5	195.7	196.6	196.9	198.5	201.7	205.2	207.4	209.0	210.6
60°	157.1	160.2	162.5	162.5	165.0	167.2	170.1	173.2	175.8	179.5	182.3
62.5°	127.9	128.5	131.7	132.0	133.9	137.7	139.9	144.7	147.9	152.0	155.8
65°	99.7	102.6	104.5	104.8	107.7	110.5	113.7	118.1	122.6	126.1	129.5
67.5°	74.8	76.4	78.8	81.0	81.6	85.8	90.5	94.7	98.5	101.6	106.1
70°	52.2	53.5	57.0	58.3	60.2	63.4	67.2	71.6	76.0	80.4	83.9
72.5°	31.9	34.8	37.0	38.9	40.5	44.3	48.4	52.2	56.1	59.9	64.3
75°	17.8	19.7	22.2	24.1	25.6	28.5	32.3	36.1	39.6	43.0	46.2
77.5°	7.9	9.8	12.1	13.3	14.6	17.1	20.0	23.2	25.9	28.5	31.3
80°	3.2	4.4	5.7	6.7	7.3	8.9	11.1	12.7	14.6	16.8	19.0
82.5°	1.3	1.6	2.2	2.9	3.2	4.1	5.1	6.0	7.6	8.6	9.8
85°	0.3	0.3	0.6	0.6	1.0	1.3	1.6	2.2	2.5	2.9	3.5
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





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	948.3	948.3	948.3	948.3	948.3	948.3	948.3	948.3
2.5°	945.2	944.9	944.9	944.9	944.9	944.6	944.6	944.6
5°	935.7	935.1	934.7	934.7	933.8	934.1	934.1	933.8
7.5°	918.9	918.2	917.3	917.9	917.6	916.7	916.3	916.0
10°	897.0	895.7	895.4	893.9	893.0	892.6	892.6	891.4
12.5°	871.1	867.6	867.3	865.7	863.5	862.2	862.8	860.9
15°	842.3	837.2	834.7	833.4	830.9	828.7	826.8	826.1
17.5°	807.1	801.4	799.5	798.2	792.9	792.6	790.1	789.1
20°	770.4	765.3	762.4	760.5	756.4	752.6	752.3	752.0
22.5°	734.6	726.4	723.8	721.0	716.5	713.4	711.5	709.9
25°	694.0	687.5	683.0	680.2	677.0	674.5	671.9	671.6
27.5°	653.5	647.2	644.3	641.8	637.8	634.9	632.4	633.6
30°	614.0	607.6	604.4	602.5	598.4	596.8	592.4	593.0
32.5°	574.7	569.0	566.8	563.0	559.2	557.3	555.7	554.4
35°	537.1	532.3	529.1	526.6	523.1	519.9	518.3	518.3
37.5°	498.7	493.9	492.3	490.4	487.3	482.9	481.3	482.6
40°	459.8	456.3	454.7	453.4	450.2	448.6	447.1	447.1
42.5°	422.7	419.2	418.9	417.7	415.1	414.2	412.9	411.9
45°	384.0	382.5	381.3	381.3	381.0	380.6	379.7	379.1
47.5°	347.0	347.3	346.7	346.4	346.7	345.7	347.0	346.1
50°	313.2	312.5	313.2	312.5	312.8	314.1	312.8	313.8
52.5°	277.1	280.0	280.3	279.0	280.3	281.2	281.8	283.3
55°	245.1	246.0	246.6	247.9	248.5	250.4	248.5	248.5
57.5°	214.1	215.7	216.3	217.2	219.8	218.8	220.4	221.7
60°	185.8	187.7	189.0	190.0	190.9	193.1	193.8	193.4
62.5°	158.3	161.2	161.5	164.0	164.7	166.3	167.5	166.3
65°	132.6	135.2	137.1	138.7	140.6	142.1	141.8	142.8
67.5°	109.3	112.4	114.0	114.6	117.2	117.8	119.4	120.4
70°	88.0	90.2	92.1	93.1	94.7	96.6	98.1	99.1
72.5°	67.2	70.6	72.6	73.2	75.7	76.9	77.5	78.5
75°	49.7	52.6	53.5	55.1	56.4	59.2	58.9	59.5
77.5°	34.5	36.4	38.3	38.3	40.5	41.1	42.7	43.0
80°	20.6	22.8	23.8	24.1	25.6	26.5	27.2	27.8
82.5°	10.8	12.4	12.4	13.0	14.3	14.3	14.6	15.2
85°	4.1	4.8	5.1	5.1	5.4	6.0	6.0	6.3
87.5°	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0
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)