

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: P684120

Luminaire Tested: **LX6C20D010 EX6C209050 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C20D010 EX6C209050 6LBLWWH  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

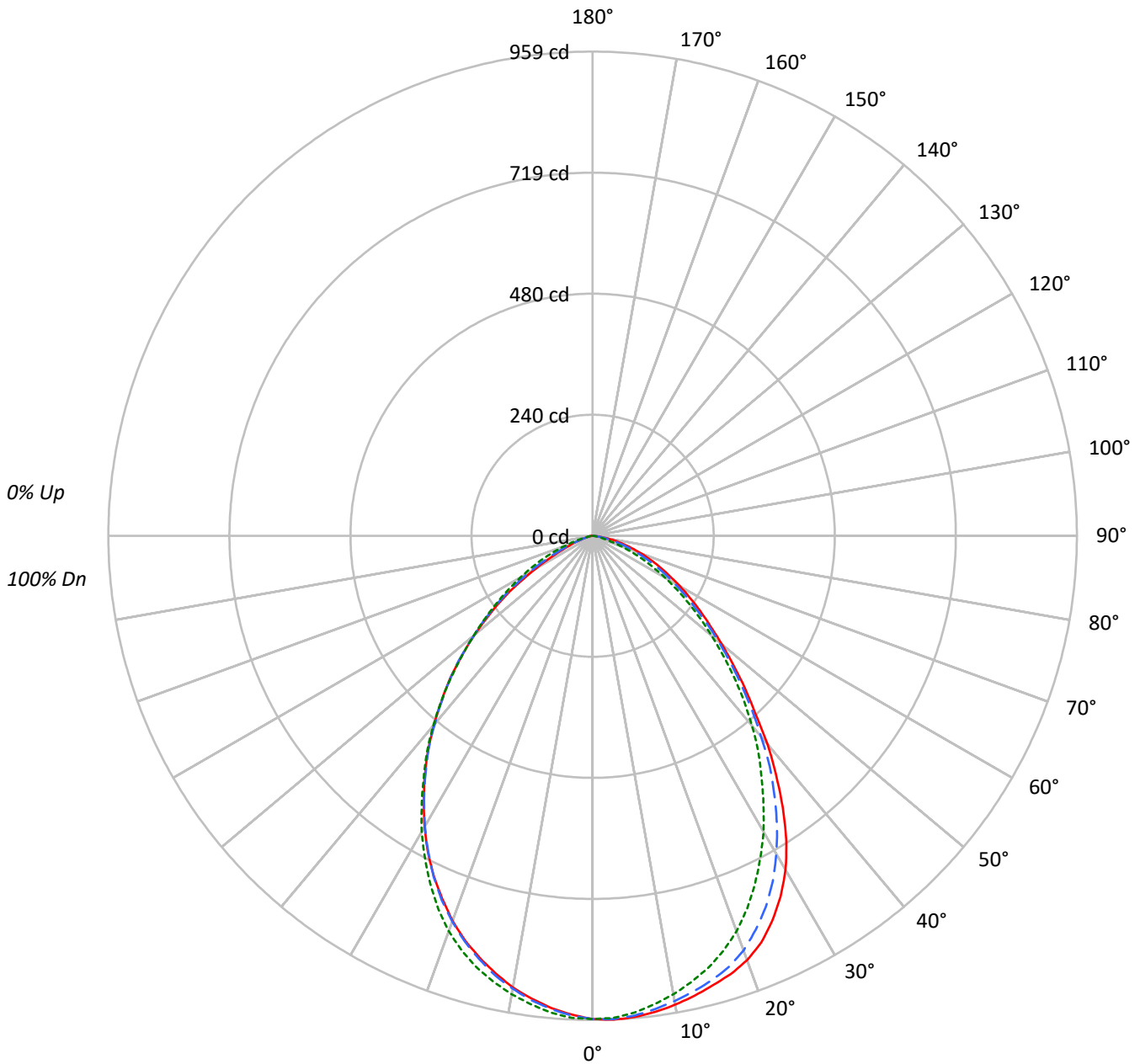
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1741.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 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 (A<sub>in</sub>): 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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	52468	52468	52468
5°	52652	52174	51662
10°	52493	51329	50578
15°	52293	50267	49098
20°	52178	48613	47318
25°	50906	46007	44991
30°	48368	42848	42139
35°	43902	39016	38755
40°	38515	35109	34930
45°	33027	30678	30926
50°	28426	26148	26012
55°	24850	22078	20721
60°	21829	18091	14144
65°	19120	14022	8509
70°	16301	9441	5001
75°	13153	4914	2732
80°	9155	1926	1515
85°	3648	629	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	5.2
10°-20°	250.4	14.4
20°-30°	356.4	20.5
30°-40°	375.1	21.5
40°-50°	312.6	18.0
50°-60°	211.2	12.1
60°-70°	107.1	6.2
70°-80°	34.6	2.0
80°-90°	4.0	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°	696.5	40.0
0°-40°	1071.6	61.6
0°-60°	1595.4	91.6
0°-90°	1741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	957	957	957	957	957	
5°	957	954	948	941	939	91
15°	921	912	886	868	865	260
25°	842	811	761	745	744	386
35°	656	628	583	577	579	408
45°	426	415	396	397	399	330
55°	260	247	231	224	217	234
65°	147	133	108	78	66	147
75°	62	49	23	12	13	67
85°	6	3	1	1	1	10
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°	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1
2.5°	959.4	959.4	959.4	959.4	959.4	959.4	959.1	959.1	958.4	958.4	958.1
5°	956.8	957.1	957.1	956.8	956.8	956.2	956.2	955.8	954.9	954.2	953.9
7.5°	951.3	951.3	951.0	950.7	950.4	949.4	949.1	948.1	947.5	946.8	945.6
10°	943.0	943.0	942.7	942.0	941.7	941.0	941.0	939.8	938.5	936.9	935.9
12.5°	933.0	933.3	932.7	932.4	931.4	931.1	930.4	928.8	927.9	925.9	924.3
15°	921.4	922.1	922.1	920.8	919.8	919.5	918.5	917.6	915.3	913.4	911.5
17.5°	910.2	910.8	910.2	909.2	908.2	906.9	906.3	904.4	901.5	898.9	896.0
20°	894.4	895.4	894.1	892.5	890.5	890.2	889.3	886.0	881.9	878.0	873.8
22.5°	872.2	871.6	870.6	869.9	866.7	864.8	863.5	859.3	854.8	849.7	844.5
25°	841.6	842.9	841.0	838.1	836.5	834.6	831.3	826.8	822.7	817.2	811.1
27.5°	805.6	805.6	803.0	802.1	798.5	796.0	794.3	789.8	784.4	778.9	772.1
30°	764.1	762.2	762.2	757.7	754.8	753.8	752.2	744.8	740.0	734.2	727.4
32.5°	713.9	713.6	712.3	709.4	705.5	702.3	702.3	697.2	690.7	683.7	679.5
35°	656.0	656.3	655.7	652.5	652.5	648.6	648.0	643.5	638.3	632.8	627.7
37.5°	596.2	597.4	596.2	594.6	593.6	593.3	590.4	587.2	583.3	580.1	576.2
40°	538.2	536.3	537.0	533.7	534.1	533.4	532.1	528.0	525.7	522.5	518.3
42.5°	475.8	477.8	478.4	476.5	475.8	474.5	475.8	474.2	471.7	470.0	466.2
45°	426.0	424.0	425.0	424.4	424.7	422.1	421.1	420.5	419.5	416.6	415.0
47.5°	376.4	376.7	376.4	375.1	374.5	374.5	373.2	371.3	371.3	369.3	368.1
50°	333.3	333.3	334.0	332.3	331.7	330.4	330.7	328.8	327.5	325.9	324.9
52.5°	293.7	294.1	292.8	293.1	292.4	292.4	291.2	289.9	288.6	285.7	285.0
55°	260.0	260.3	258.7	259.3	257.4	256.4	255.8	253.8	253.8	250.9	247.4
57.5°	228.4	228.1	227.8	226.8	225.5	224.6	223.6	221.3	220.4	218.5	215.6
60°	199.1	198.8	198.2	197.9	196.9	194.6	194.6	193.0	189.8	187.9	185.0
62.5°	171.5	171.5	171.2	170.2	169.2	168.3	167.6	166.3	163.1	160.9	158.3
65°	147.4	147.0	146.1	144.5	143.8	143.8	141.6	140.6	138.0	135.8	132.9
67.5°	124.2	122.9	122.3	122.6	120.6	120.6	118.7	117.1	114.9	111.0	108.7
70°	101.7	101.0	100.4	99.7	99.4	98.1	97.2	95.2	93.0	90.1	86.5
72.5°	81.4	81.4	80.4	79.8	78.8	77.5	76.9	75.3	72.7	69.5	66.9
75°	62.1	62.1	62.1	60.8	60.2	59.5	57.6	56.6	53.7	51.8	48.6
77.5°	45.7	45.0	44.1	43.8	43.1	42.5	41.5	39.9	37.3	35.1	33.1
80°	29.0	29.9	29.0	29.0	27.3	26.7	26.4	24.5	23.5	21.6	19.9
82.5°	16.1	16.4	15.8	15.4	14.5	14.2	14.2	12.9	12.2	10.9	10.0
85°	5.8	6.1	5.8	5.8	5.1	5.5	5.1	4.8	4.2	3.5	3.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1
2.5°	958.1	957.5	957.5	957.1	956.8	956.8	956.8	956.5	955.8	955.8	955.5
5°	953.3	952.6	951.7	951.0	950.7	950.4	950.1	949.7	948.4	948.1	947.2
7.5°	944.6	943.9	942.3	941.7	940.7	940.4	939.1	938.5	937.2	935.9	935.3
10°	934.3	932.7	931.4	929.8	929.1	928.2	926.6	924.6	923.7	922.1	920.8
12.5°	922.7	920.8	918.2	916.3	915.6	914.0	911.5	909.8	907.6	905.0	902.8
15°	908.2	906.0	903.7	900.2	899.2	897.3	894.7	891.5	888.3	885.7	883.1
17.5°	892.5	888.9	885.4	881.5	878.6	877.7	873.5	869.0	866.1	861.6	858.7
20°	870.3	865.4	859.7	855.8	853.2	850.3	845.5	840.7	837.1	833.3	829.1
22.5°	839.7	835.2	828.4	822.7	820.7	816.5	812.4	807.9	803.4	799.2	794.0
25°	803.7	798.8	792.1	786.3	783.1	781.2	773.1	768.6	764.1	760.6	757.0
27.5°	766.7	758.0	753.5	744.5	741.6	740.9	733.5	728.7	723.9	719.1	714.6
30°	721.0	714.2	707.5	701.0	697.2	694.9	689.5	683.3	680.1	676.9	672.4
32.5°	673.7	667.6	659.2	653.1	650.2	647.0	642.2	638.0	633.2	629.6	628.7
35°	623.2	616.4	609.3	604.8	604.2	600.3	595.5	592.0	588.4	583.0	582.0
37.5°	569.1	565.3	560.4	554.0	551.1	551.1	546.3	543.7	539.2	538.9	536.3
40°	516.0	514.4	507.0	505.1	504.5	500.0	498.7	494.2	491.0	490.6	486.8
42.5°	463.6	459.4	458.1	454.9	452.0	451.4	448.5	446.6	445.3	443.3	441.4
45°	411.5	410.5	407.3	405.1	404.1	402.8	401.8	398.0	397.3	395.7	394.8
47.5°	366.4	363.9	361.0	358.4	358.1	356.2	353.9	353.9	350.4	350.0	349.4
50°	321.7	319.8	318.2	314.6	315.3	312.7	312.4	309.5	307.9	306.6	308.2
52.5°	282.5	278.6	278.0	275.1	274.1	274.4	270.9	269.9	269.3	268.0	267.4
55°	245.2	243.2	240.7	238.7	237.1	235.5	234.2	234.2	230.7	231.0	229.4
57.5°	212.3	210.7	207.5	204.6	204.0	202.0	200.4	198.8	198.5	196.3	194.6
60°	183.1	180.2	176.0	174.7	172.8	171.2	169.5	167.6	166.7	165.0	162.2
62.5°	155.7	150.9	149.3	146.7	144.5	143.5	140.9	138.7	137.1	134.8	132.6
65°	129.7	126.1	123.2	120.3	120.0	117.4	115.2	113.2	110.0	108.1	103.9
67.5°	105.8	102.6	99.4	96.5	94.3	93.6	90.1	87.8	85.6	81.7	78.2
70°	84.0	80.8	78.2	74.6	73.7	71.1	68.5	66.3	62.4	58.9	56.0
72.5°	64.0	60.5	57.6	55.0	53.4	51.2	48.6	46.0	42.1	38.6	36.0
75°	45.7	43.1	40.2	37.6	36.4	35.1	32.2	29.3	26.7	23.2	20.9
77.5°	30.9	28.3	25.7	23.5	21.9	20.9	19.0	16.7	14.5	12.5	10.9
80°	18.0	16.4	14.5	12.5	12.2	11.3	9.7	8.4	7.1	6.1	4.8
82.5°	8.7	7.7	6.4	5.5	4.8	4.5	3.9	3.2	2.6	2.3	2.3
85°	2.6	2.3	1.9	1.6	1.3	1.3	1.0	1.0	1.0	1.0	1.0
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1
2.5°	954.6	954.2	953.9	953.6	953.0	953.0	952.0	951.3	951.3	950.7	950.4
5°	946.2	945.2	944.9	944.3	943.6	943.3	942.0	941.7	941.0	940.4	940.4
7.5°	934.3	933.0	931.7	931.1	930.8	929.8	929.1	928.8	927.9	927.2	925.9
10°	918.5	917.6	916.0	915.3	914.7	914.0	912.4	911.5	911.1	910.5	909.8
12.5°	900.2	898.9	897.3	896.0	895.4	894.4	892.8	891.8	891.8	890.5	890.5
15°	880.6	878.6	875.7	874.5	874.1	872.2	870.9	869.6	868.0	867.4	867.4
17.5°	855.5	852.3	849.7	849.7	848.4	846.5	844.5	843.6	842.6	841.3	840.7
20°	825.9	823.6	820.7	820.7	817.8	817.2	815.3	814.9	812.7	813.0	812.0
22.5°	790.2	788.9	787.3	786.0	784.4	782.4	781.5	781.8	780.8	780.5	780.2
25°	754.1	750.6	748.7	748.0	747.4	745.8	745.1	744.8	744.8	743.8	744.2
27.5°	712.6	710.1	707.5	708.4	707.2	706.2	705.5	704.6	705.2	704.9	705.2
30°	670.2	666.9	665.3	666.0	665.7	663.1	664.4	664.0	664.4	664.4	665.0
32.5°	625.4	623.2	622.9	623.2	620.3	620.6	619.3	621.3	621.6	623.5	621.9
35°	580.1	578.8	576.5	576.2	576.5	576.2	576.2	577.5	577.2	579.1	578.5
37.5°	533.4	532.8	530.5	531.2	529.9	532.1	532.8	532.1	534.4	533.7	533.4
40°	487.7	486.8	485.5	488.1	486.5	485.2	487.4	485.5	486.1	488.1	488.1
42.5°	441.4	439.8	439.8	439.8	439.5	439.5	440.4	441.4	440.8	441.1	443.7
45°	394.8	394.4	393.5	394.1	393.8	395.4	395.4	396.0	397.3	398.6	398.0
47.5°	349.7	349.1	350.0	349.4	349.7	348.8	349.4	351.3	352.9	350.7	352.9
50°	307.6	306.3	306.0	306.9	306.6	306.3	306.9	306.9	306.3	306.3	308.5
52.5°	267.4	266.1	265.1	266.7	265.7	266.1	264.8	264.8	265.4	264.8	263.8
55°	229.7	228.7	227.5	228.1	226.5	226.2	224.9	224.9	223.9	223.3	221.3
57.5°	193.7	193.0	190.1	189.8	190.1	187.9	185.6	184.7	182.1	181.5	181.1
60°	161.8	158.3	156.7	154.8	153.5	152.5	149.9	148.3	144.5	142.2	141.9
62.5°	128.7	127.1	125.2	122.3	121.6	118.4	115.8	111.6	109.7	106.8	103.9
65°	102.0	97.8	94.9	93.3	90.7	87.8	84.9	80.4	78.2	74.6	71.7
67.5°	74.6	71.1	67.2	66.0	63.7	60.2	57.3	53.4	51.5	48.3	47.3
70°	51.2	47.9	45.0	43.1	41.5	38.0	35.1	33.8	31.9	31.2	31.2
72.5°	32.8	29.9	26.7	25.7	24.5	22.5	20.6	19.9	20.6	20.3	20.3
75°	18.3	16.7	14.5	13.5	13.5	12.9	12.5	12.5	12.5	12.5	12.5
77.5°	9.3	8.4	7.7	7.4	7.4	7.4	7.7	7.7	7.7	8.0	7.7
80°	4.5	4.2	4.2	4.2	4.5	4.5	4.5	4.5	4.5	4.8	4.5
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.6	2.6
85°	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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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CATALOG NUMBER: LX6C20D010 EX6C209050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	957.1	957.1	957.1	957.1	957.1	957.1	957.1	957.1
2.5°	950.1	949.4	949.4	949.1	949.1	949.1	949.1	949.4
5°	939.8	939.4	939.4	938.8	938.8	938.8	938.8	938.8
7.5°	925.9	925.3	925.6	925.0	925.0	925.3	925.0	924.6
10°	908.9	908.6	908.9	908.9	908.2	907.9	908.2	908.6
12.5°	889.6	889.3	888.6	888.9	888.9	888.6	888.3	887.6
15°	867.1	866.7	866.4	866.1	865.8	866.1	865.8	865.1
17.5°	840.7	840.7	840.3	840.0	839.7	839.1	839.4	840.3
20°	812.4	812.0	811.4	811.7	810.4	809.8	810.1	811.1
22.5°	779.9	778.9	779.5	778.6	778.6	778.9	778.6	777.9
25°	744.5	743.2	743.8	744.2	744.2	743.8	743.5	743.8
27.5°	705.2	706.2	706.2	705.5	706.5	705.2	705.9	706.2
30°	665.0	664.0	663.7	665.0	666.9	665.3	665.3	665.7
32.5°	623.5	622.2	622.2	622.9	622.5	622.5	623.8	622.2
35°	579.1	579.8	577.2	578.8	579.4	578.8	579.1	579.1
37.5°	534.4	533.7	533.7	533.7	534.7	534.7	535.4	535.0
40°	490.3	489.0	488.7	489.3	488.1	489.0	489.0	488.1
42.5°	442.7	443.0	444.6	443.0	443.3	443.0	442.4	442.1
45°	398.6	399.6	398.9	398.6	398.9	397.7	398.0	398.9
47.5°	352.0	353.9	352.0	353.3	352.9	352.3	351.6	350.4
50°	308.2	308.9	308.5	308.2	307.9	307.6	306.0	305.0
52.5°	263.5	263.5	263.5	263.5	260.3	261.9	261.2	259.3
55°	219.7	220.7	219.4	219.4	217.2	217.2	216.5	216.8
57.5°	177.6	176.6	175.7	175.7	173.4	172.4	171.5	170.2
60°	138.3	137.4	136.1	134.5	132.2	132.2	131.6	129.0
62.5°	101.3	99.7	98.8	97.5	95.6	94.3	93.3	93.9
65°	69.5	67.9	66.6	66.6	66.6	66.0	65.6	65.6
67.5°	45.7	46.7	46.0	46.7	46.7	46.0	45.7	46.3
70°	31.5	31.5	31.2	31.2	31.2	31.2	30.9	31.2
72.5°	20.3	20.3	20.3	20.6	20.3	20.3	20.6	20.6
75°	12.9	12.9	12.9	13.2	12.9	12.9	13.2	12.9
77.5°	7.7	8.0	8.0	8.0	8.0	7.7	8.0	8.0
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)