

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252648

Luminaire Tested: **LE\_6B10D010 EC6B10208027 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B10D010 EC6B10208027 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1186.3 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

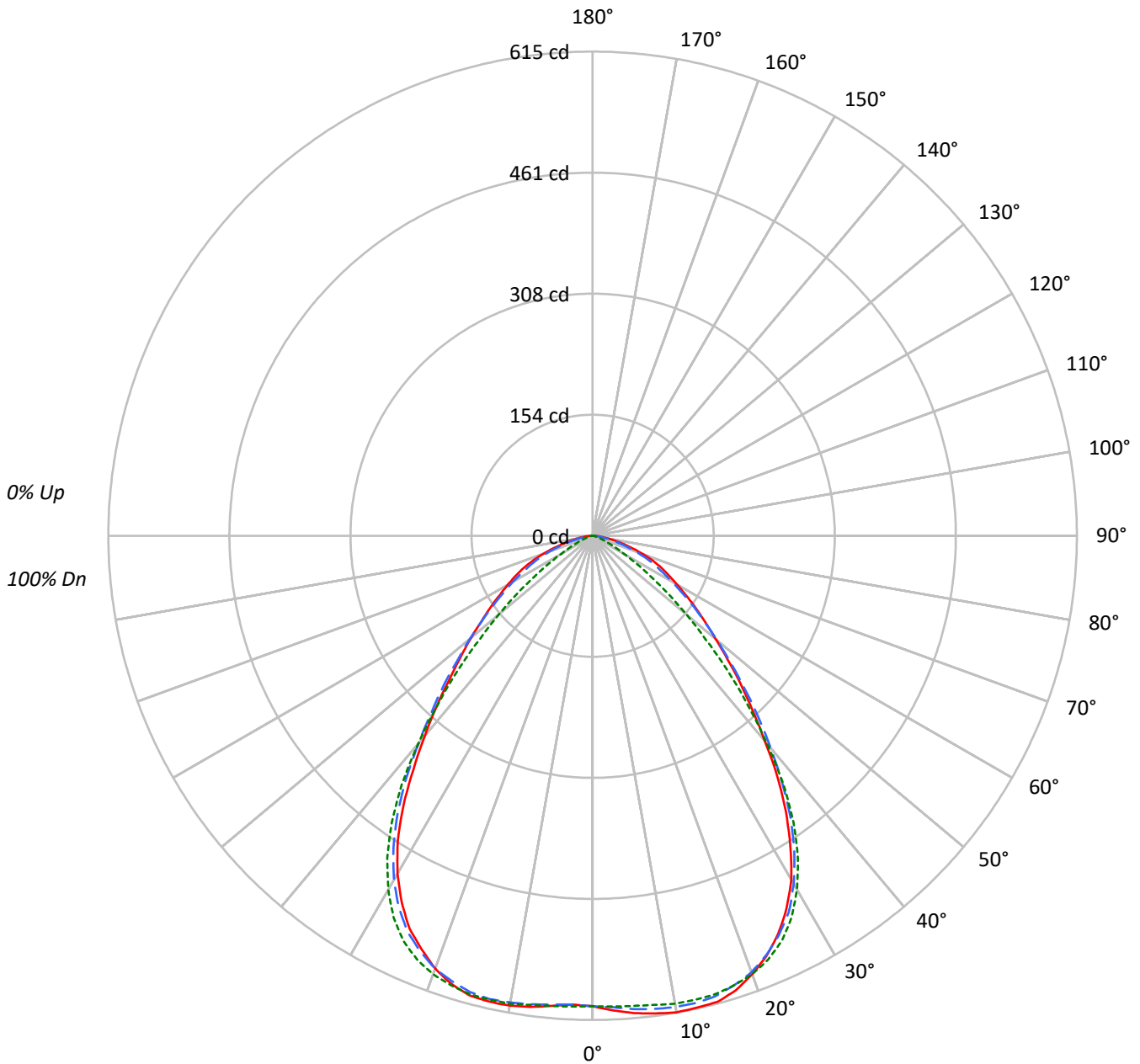
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	38988	38988	38988
5°	39857	39255	39255
10°	40715	39987	40152
15°	41397	40714	40822
20°	41143	41143	40615
25°	40160	40895	39621
30°	38013	39098	37320
35°	34072	35410	33387
40°	28948	29297	28224
45°	24496	22383	23629
50°	20685	15783	20421
55°	18176	10191	17983
60°	16101	6067	16206
65°	14882	3643	14882
70°	12895	2098	12570
75°	10234	1286	9579
80°	7589	939	7326
85°	6887	674	6363



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	4.9
10°-20°	170.3	14.4
20°-30°	256.1	21.6
30°-40°	269.3	22.7
40°-50°	201.2	17.0
50°-60°	125.2	10.6
60°-70°	71.2	6.0
70°-80°	29.3	2.5
80°-90°	6.1	0.5
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°	484.0	40.8
0°-40°	753.2	63.5
0°-60°	1079.6	91.0
0°-90°	1186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	598	598	598	598	598	
5°	609	604	599	598	599	58
15°	613	605	603	600	604	172
25°	558	560	568	555	550	255
35°	428	439	445	432	419	265
45°	266	271	243	266	256	206
55°	160	156	90	154	158	144
65°	96	86	24	86	96	95
75°	41	32	5	31	38	44
85°	9	6	1	5	8	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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	603.6	602.8	603.6	601.9	601.0	601.0	601.9	600.2	599.4	600.2	599.4
5°	608.6	607.0	607.8	607.0	605.2	605.2	606.1	603.6	603.6	604.4	603.6
7.5°	612.0	612.0	612.0	610.4	609.5	608.6	610.4	607.8	607.0	607.0	606.1
10°	614.6	613.8	614.6	612.9	611.1	610.4	612.0	610.4	608.6	610.4	607.8
12.5°	613.8	613.8	613.8	612.9	611.1	610.4	612.0	609.5	608.6	609.5	607.8
15°	612.9	610.4	611.1	610.4	607.8	607.8	608.6	606.1	604.4	607.0	605.2
17.5°	605.2	603.6	604.4	602.8	601.0	600.2	601.0	600.2	598.5	600.2	598.5
20°	592.6	592.6	593.4	591.8	590.0	589.2	590.9	589.2	587.5	590.0	590.0
22.5°	577.4	577.4	577.4	576.5	575.6	575.6	575.6	574.9	574.0	575.6	576.5
25°	557.9	557.1	557.9	558.8	557.9	557.1	557.9	557.9	556.2	559.6	559.6
27.5°	533.4	533.4	535.1	534.2	534.2	533.4	535.1	535.1	534.2	536.8	539.4
30°	504.6	503.0	504.6	504.6	505.5	505.5	506.4	506.4	506.4	508.9	510.6
32.5°	467.5	468.4	470.9	470.0	469.1	471.8	471.8	473.4	474.2	475.9	476.8
35°	427.8	428.6	428.6	429.4	431.1	429.4	433.6	432.9	433.6	437.0	438.8
37.5°	385.5	383.0	387.1	385.5	386.4	386.4	388.0	388.9	391.4	395.6	395.6
40°	339.9	340.6	342.4	343.2	344.0	344.0	344.0	346.6	347.4	352.5	351.6
42.5°	300.1	300.1	301.8	302.6	302.6	302.6	302.6	305.1	306.9	308.5	310.2
45°	265.5	262.9	264.6	264.6	266.2	265.5	267.1	268.9	269.6	272.2	271.4
47.5°	232.5	231.6	232.5	233.4	232.5	233.4	234.1	235.0	235.9	235.9	235.9
50°	203.8	203.8	204.6	205.4	205.4	205.4	205.4	206.2	206.2	208.0	206.2
52.5°	180.0	180.9	180.9	180.0	180.9	180.9	181.8	181.8	180.9	180.9	178.4
55°	159.8	158.9	159.8	158.9	159.8	159.8	158.9	158.9	158.1	157.2	156.4
57.5°	140.4	140.4	140.4	140.4	139.5	140.4	139.5	138.6	138.6	137.0	134.4
60°	123.4	123.4	123.4	123.4	123.4	122.6	123.4	122.6	120.9	119.2	115.8
62.5°	109.0	108.2	109.0	108.2	108.2	107.4	107.4	106.5	104.9	103.1	99.8
65°	96.4	97.2	96.4	96.4	95.5	94.6	94.6	93.9	91.2	89.6	86.2
67.5°	82.9	82.0	82.0	82.0	81.1	81.1	81.1	79.5	77.8	75.2	71.9
70°	67.6	67.6	67.6	66.8	66.8	65.9	65.9	65.1	63.4	61.8	57.5
72.5°	53.2	53.2	53.2	51.6	52.4	51.6	51.6	49.9	49.0	46.5	44.0
75°	40.6	40.6	39.8	39.8	38.9	38.0	38.0	37.2	36.4	34.6	32.1
77.5°	29.6	29.6	29.6	28.8	27.9	27.0	27.0	26.2	25.4	24.5	22.9
80°	20.2	20.2	20.2	20.2	19.5	18.6	18.6	17.8	17.8	16.9	15.2
82.5°	13.5	13.5	13.5	13.5	12.6	12.6	12.6	11.9	11.0	11.0	9.2
85°	9.2	9.2	8.5	8.5	8.5	8.5	7.6	7.6	6.8	5.9	5.9
87.5°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	4.2	3.4	3.4	2.5
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	601.9	601.9	601.0	598.5	599.4	598.5	599.4	598.5	596.0	598.5	596.0
5°	605.2	606.1	604.4	601.0	601.9	601.0	601.0	600.2	597.6	599.4	597.6
7.5°	608.6	607.8	607.0	603.6	604.4	603.6	603.6	601.9	599.4	601.0	598.5
10°	610.4	610.4	608.6	605.2	605.2	604.4	605.2	604.4	601.0	603.6	601.9
12.5°	610.4	609.5	609.5	605.2	606.1	605.2	606.1	604.4	601.9	603.6	602.8
15°	607.8	607.8	607.0	602.8	603.6	603.6	604.4	602.8	600.2	602.8	601.0
17.5°	602.8	602.8	601.9	598.5	600.2	600.2	601.0	599.4	596.9	598.5	598.5
20°	592.6	593.4	593.4	590.9	592.6	592.6	593.4	592.6	591.8	592.6	590.9
22.5°	580.8	582.5	582.5	579.9	581.6	581.6	584.1	583.2	581.6	582.5	581.6
25°	563.0	564.8	566.4	564.8	566.4	566.4	568.9	568.1	566.4	568.1	565.5
27.5°	542.8	543.5	545.2	543.5	546.1	545.2	547.8	546.9	544.4	546.9	546.1
30°	514.0	517.4	519.9	517.4	519.9	519.9	521.6	520.8	519.9	519.0	519.0
32.5°	481.9	485.2	485.2	484.4	486.1	486.1	486.9	485.2	484.4	485.2	486.1
35°	442.1	443.8	445.5	444.6	445.5	446.4	445.5	446.4	443.8	444.6	444.6
37.5°	399.0	400.8	400.8	398.1	399.9	399.9	398.1	398.1	396.5	398.1	394.8
40°	353.4	351.6	352.5	350.9	349.1	349.1	348.2	344.9	343.2	344.0	344.9
42.5°	308.5	308.5	306.0	301.8	297.5	297.5	295.0	293.4	290.0	291.6	290.8
45°	270.5	266.2	262.9	256.1	253.6	251.9	247.6	243.5	241.8	242.6	241.8
47.5°	234.1	230.8	222.4	213.0	210.5	208.0	202.9	197.8	196.1	194.4	194.4
50°	203.8	197.8	188.5	178.4	174.1	169.9	163.1	158.1	154.8	155.5	155.5
52.5°	175.9	169.1	158.1	145.4	140.4	135.2	129.4	123.4	120.9	120.0	120.0
55°	151.4	143.8	132.8	118.4	114.1	108.2	100.6	93.9	90.5	89.6	91.2
57.5°	129.4	122.6	109.9	95.5	90.5	84.5	76.9	71.0	66.8	65.9	66.8
60°	111.6	102.2	91.2	77.8	71.0	65.9	57.5	52.4	48.1	46.5	47.4
62.5°	93.9	85.4	74.4	60.9	55.8	50.8	43.1	37.2	33.9	33.0	33.9
65°	80.2	71.9	61.8	49.9	44.8	39.8	33.0	27.0	24.5	23.6	24.5
67.5°	66.8	59.1	50.8	39.8	35.5	31.2	24.5	20.2	16.9	16.0	16.9
70°	54.1	47.4	38.9	31.2	27.0	23.6	18.6	14.4	11.9	11.0	11.9
72.5°	40.6	35.5	29.6	22.9	20.2	17.8	13.5	10.1	8.5	7.6	8.5
75°	29.6	25.4	21.1	16.0	14.4	12.6	9.2	6.8	5.9	5.1	5.9
77.5°	20.2	17.8	14.4	11.0	9.2	8.5	5.9	5.1	4.2	3.4	3.4
80°	13.5	11.9	9.2	7.6	6.8	5.9	4.2	3.4	2.5	2.5	2.5
82.5°	8.5	6.8	5.9	4.2	3.4	3.4	2.5	1.8	1.8	1.8	1.8
85°	5.1	4.2	3.4	2.5	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	2.5	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	597.6	596.0	596.0	596.9	597.6	598.5	596.9	596.0	596.0	598.5	596.9
5°	597.6	596.9	596.9	596.9	598.5	599.4	597.6	596.9	597.6	600.2	599.4
7.5°	600.2	598.5	599.4	599.4	600.2	601.9	600.2	599.4	600.2	602.8	601.0
10°	601.9	600.2	601.0	600.2	602.8	603.6	601.9	601.0	601.9	605.2	604.4
12.5°	602.8	601.9	601.9	601.0	603.6	604.4	602.8	601.9	602.8	605.2	604.4
15°	601.0	600.2	600.2	600.2	601.9	603.6	601.0	600.2	600.2	602.8	601.9
17.5°	597.6	596.0	596.0	596.0	596.9	597.6	595.1	594.2	593.4	596.0	595.1
20°	591.8	590.0	588.4	588.4	589.2	589.2	587.5	585.0	585.0	585.9	584.1
22.5°	580.8	579.9	578.2	577.4	579.0	578.2	574.9	572.2	571.5	572.2	570.6
25°	565.5	563.9	563.0	562.1	563.0	562.1	558.8	555.4	555.4	555.4	552.9
27.5°	544.4	542.8	541.9	541.9	542.8	541.0	537.6	534.2	532.6	532.6	530.0
30°	517.4	517.4	516.5	515.6	514.9	514.9	509.8	506.4	504.6	505.5	503.9
32.5°	484.4	483.5	482.8	480.1	481.0	480.1	475.9	473.4	470.9	469.1	468.4
35°	442.1	442.1	441.2	441.2	441.2	440.4	436.2	433.6	432.0	431.1	428.6
37.5°	395.6	394.8	393.9	393.9	393.9	393.9	391.4	388.9	388.9	388.0	386.4
40°	343.2	344.0	344.9	344.0	346.6	349.1	345.8	344.0	343.2	345.8	342.4
42.5°	292.5	291.6	295.9	296.8	296.8	301.0	301.8	302.6	301.8	303.5	303.5
45°	243.5	242.6	246.9	248.5	252.8	257.9	260.4	264.6	266.2	268.0	266.2
47.5°	197.0	200.4	203.8	208.0	211.4	219.8	224.9	229.1	230.8	233.4	233.4
50°	158.1	161.5	167.4	170.8	175.0	185.1	193.6	199.5	202.9	205.4	204.6
52.5°	121.8	127.6	135.2	138.6	144.5	156.4	165.6	172.5	176.6	179.2	180.0
55°	93.9	98.9	106.5	111.6	117.5	130.1	142.0	149.6	153.9	157.2	158.9
57.5°	69.4	75.2	83.8	87.9	94.6	109.0	119.2	128.5	133.6	137.8	138.6
60°	50.8	56.6	64.2	69.4	76.1	90.5	102.2	110.8	116.6	120.0	121.8
62.5°	36.4	42.2	49.9	55.0	60.9	73.5	85.4	93.9	99.8	104.0	106.5
65°	26.2	32.1	39.8	44.0	49.0	60.9	71.9	80.2	86.2	91.2	93.0
67.5°	19.5	23.6	30.4	34.6	39.8	49.0	58.4	65.9	71.9	76.1	77.8
70°	14.4	17.8	23.6	26.2	29.6	38.0	45.6	52.4	57.5	60.9	62.5
72.5°	10.1	12.6	16.9	19.5	22.0	28.8	34.6	39.8	43.1	46.5	48.1
75°	6.8	8.5	11.9	13.5	15.2	20.2	24.5	28.8	31.2	33.9	34.6
77.5°	4.2	5.9	8.5	9.2	11.0	13.5	16.9	19.5	21.1	22.9	24.5
80°	2.5	3.4	5.1	5.9	6.8	9.2	11.0	12.6	14.4	16.0	16.9
82.5°	1.8	2.5	3.4	3.4	4.2	5.1	6.8	8.5	9.2	10.1	11.0
85°	0.9	0.9	1.8	1.8	2.5	2.5	3.4	4.2	5.1	5.9	6.8
87.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.5	2.5	2.5	3.4	3.4
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	595.1	597.6	595.1	596.9	596.0	596.0	595.1	596.0
5°	597.6	601.0	597.6	600.2	598.5	598.5	598.5	599.4
7.5°	600.2	603.6	601.0	603.6	602.8	601.9	601.9	603.6
10°	602.8	605.2	603.6	606.1	605.2	604.4	604.4	606.1
12.5°	602.8	606.1	604.4	607.0	606.1	605.2	605.2	606.1
15°	600.2	604.4	601.9	604.4	603.6	602.8	602.8	604.4
17.5°	592.6	596.0	594.2	596.0	596.0	595.1	596.0	596.9
20°	582.5	585.0	583.2	585.0	585.0	583.2	584.1	585.0
22.5°	568.1	570.6	568.9	570.6	569.8	568.9	568.9	568.1
25°	550.4	553.8	551.1	552.9	551.1	549.5	549.5	550.4
27.5°	528.4	530.9	527.5	529.1	527.5	525.8	525.8	525.0
30°	499.6	500.5	497.9	499.6	497.9	497.0	495.4	495.4
32.5°	465.0	465.8	463.2	463.2	461.5	461.5	458.1	460.8
35°	424.4	425.2	424.4	423.5	421.0	420.1	419.2	419.2
37.5°	382.1	382.1	379.5	378.8	377.0	375.4	376.1	373.6
40°	339.0	338.1	335.6	336.5	335.6	333.1	332.2	331.4
42.5°	298.4	298.4	295.9	296.8	295.0	294.1	291.6	292.5
45°	262.9	262.9	260.4	260.4	259.5	257.0	257.9	256.1
47.5°	230.8	230.8	229.9	229.9	227.4	226.5	226.5	226.5
50°	202.9	202.9	202.9	202.9	202.0	201.2	200.4	201.2
52.5°	179.2	180.9	180.0	180.0	179.2	178.4	177.5	177.5
55°	158.1	158.9	158.9	159.8	158.9	158.1	158.9	158.1
57.5°	139.5	141.1	141.1	141.1	141.1	141.1	140.4	139.5
60°	123.4	124.2	124.2	125.1	125.1	125.1	124.2	124.2
62.5°	107.4	109.0	109.9	109.9	110.8	109.9	109.9	109.9
65°	94.6	96.4	97.2	96.4	97.2	97.2	96.4	96.4
67.5°	79.5	81.1	81.1	81.1	81.1	82.0	81.1	81.1
70°	64.2	65.9	65.1	65.9	65.9	65.9	65.9	65.9
72.5°	49.0	49.9	50.8	50.8	51.6	50.8	50.8	50.8
75°	35.5	37.2	37.2	37.2	37.2	38.0	38.0	38.0
77.5°	25.4	26.2	26.2	27.0	27.0	27.0	27.0	27.9
80°	17.8	17.8	18.6	18.6	19.5	19.5	19.5	19.5
82.5°	11.9	12.6	12.6	12.6	12.6	12.6	12.6	12.6
85°	6.8	7.6	7.6	7.6	7.6	8.5	8.5	8.5
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4
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)