

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: P252666

Luminaire Tested: **LE\_6B15D010 EC6B10209024 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252666  
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\_6B15D010 EC6B10209024 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1236.2 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

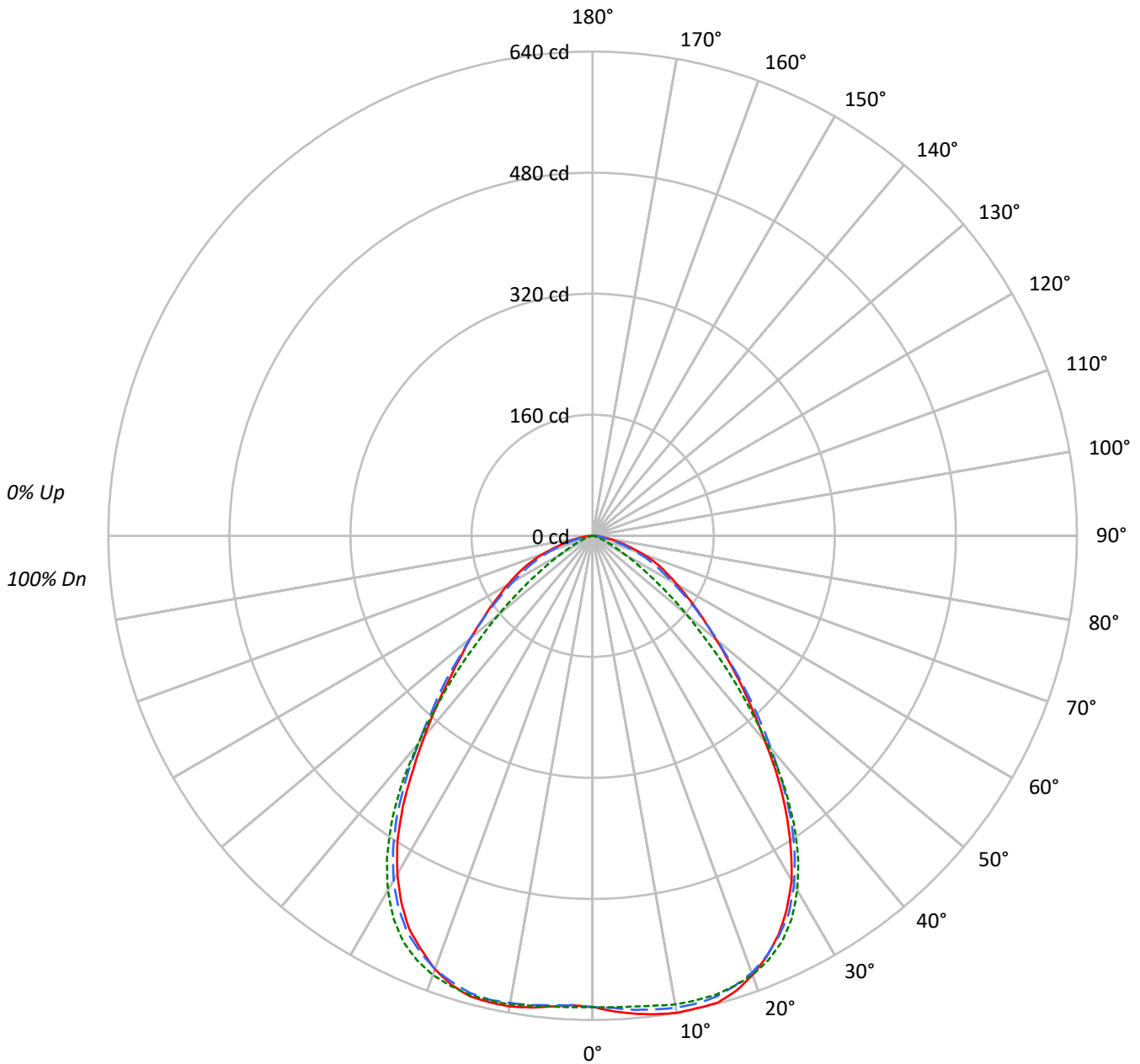
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	40638	40638	40638
5°	41534	40905	40905
10°	42431	41669	41842
15°	43146	42423	42545
20°	42879	42879	42323
25°	41859	42615	41283
30°	39625	40748	38887
35°	35505	36907	34804
40°	30157	30532	29416
45°	25520	23334	24625
50°	21558	16453	21274
55°	18938	10624	18745
60°	16780	6328	16897
65°	15499	3798	15499
70°	13448	2194	13124
75°	10637	1311	9982
80°	7927	977	7589
85°	7336	674	6587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	4.9
10°-20°	177.5	14.4
20°-30°	266.9	21.6
30°-40°	280.6	22.7
40°-50°	209.6	17.0
50°-60°	130.5	10.6
60°-70°	74.2	6.0
70°-80°	30.6	2.5
80°-90°	6.3	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°	504.4	40.8
0°-40°	785.0	63.5
0°-60°	1125.1	91.0
0°-90°	1236.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	623	623	623	623	623	
5°	634	629	625	623	625	61
15°	639	631	628	626	630	180
25°	582	583	592	579	574	266
35°	446	457	463	450	437	277
45°	277	283	253	278	267	214
55°	166	163	93	160	165	150
65°	100	90	25	90	100	99
75°	42	34	5	33	40	46
85°	10	6	1	5	9	11
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°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	629.0	628.1	629.0	627.2	626.4	626.4	627.2	625.5	624.6	625.5	624.6
5°	634.2	632.5	633.4	632.5	630.8	630.8	631.6	629.0	629.0	629.9	629.0
7.5°	637.9	637.9	637.9	636.1	635.1	634.2	636.1	633.4	632.5	632.5	631.6
10°	640.5	639.6	640.5	638.8	637.0	636.1	637.9	636.1	634.2	636.1	633.4
12.5°	639.6	639.6	639.6	638.8	637.0	636.1	637.9	635.1	634.2	635.1	633.4
15°	638.8	636.1	637.0	636.1	633.4	633.4	634.2	631.6	629.9	632.5	630.8
17.5°	630.8	629.0	629.9	628.1	626.4	625.5	626.4	625.5	623.8	625.5	623.8
20°	617.6	617.6	618.5	616.6	614.9	614.0	615.8	614.0	612.2	614.9	614.9
22.5°	601.8	601.8	601.8	600.9	600.0	600.0	600.0	599.1	598.1	600.0	600.9
25°	581.5	580.5	581.5	582.4	581.5	580.5	581.5	581.5	579.6	583.2	583.2
27.5°	555.9	555.9	557.6	556.8	556.8	555.9	557.6	557.6	556.8	559.4	562.0
30°	526.0	524.1	526.0	526.0	526.9	526.9	527.8	527.8	527.8	530.4	532.1
32.5°	487.1	488.0	490.8	489.9	489.0	491.6	491.6	493.4	494.2	496.0	496.9
35°	445.8	446.6	446.6	447.5	449.2	447.5	452.0	451.0	452.0	455.5	457.2
37.5°	401.8	399.1	403.5	401.8	402.6	402.6	404.4	405.2	407.9	412.2	412.2
40°	354.1	355.0	356.8	357.6	358.5	358.5	358.5	361.2	362.1	367.4	366.5
42.5°	312.8	312.8	314.5	315.4	315.4	315.4	315.4	318.0	319.8	321.5	323.4
45°	276.6	274.0	275.8	275.8	277.5	276.6	278.4	280.1	281.0	283.6	282.8
47.5°	242.2	241.4	242.2	243.1	242.2	243.1	244.0	244.9	245.8	245.8	245.8
50°	212.4	212.4	213.2	214.1	214.1	214.1	214.1	215.0	215.0	216.8	215.0
52.5°	187.6	188.5	188.5	187.6	188.5	188.5	189.4	189.4	188.5	188.5	185.9
55°	166.5	165.6	166.5	165.6	166.5	166.5	165.6	165.6	164.8	163.9	163.0
57.5°	146.2	146.2	146.2	146.2	145.4	146.2	145.4	144.5	144.5	142.8	140.1
60°	128.6	128.6	128.6	128.6	128.6	127.8	128.6	127.8	126.0	124.2	120.8
62.5°	113.6	112.8	113.6	112.8	112.8	111.9	111.9	111.0	109.2	107.5	104.0
65°	100.4	101.2	100.4	100.4	99.5	98.6	98.6	97.8	95.1	93.4	89.9
67.5°	86.4	85.5	85.5	85.5	84.6	84.6	84.6	82.8	81.0	78.4	74.9
70°	70.5	70.5	70.5	69.6	69.6	68.8	68.8	67.9	66.1	64.2	59.9
72.5°	55.5	55.5	55.5	53.8	54.6	53.8	53.8	52.0	51.1	48.5	45.8
75°	42.2	42.2	41.4	41.4	40.5	39.6	39.6	38.8	37.9	36.1	33.5
77.5°	30.9	30.9	30.9	30.0	29.1	28.2	28.2	27.2	26.4	25.5	23.8
80°	21.1	21.1	21.1	21.1	20.2	19.4	19.4	18.5	18.5	17.6	15.9
82.5°	14.1	14.1	14.1	14.1	13.2	13.2	13.2	12.4	11.5	11.5	9.8
85°	9.8	9.8	8.8	8.8	8.8	8.8	7.9	7.9	7.0	6.1	6.1
87.5°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4	3.5	3.5	2.6
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	627.2	627.2	626.4	623.8	624.6	623.8	624.6	623.8	621.1	623.8	621.1
5°	630.8	631.6	629.9	626.4	627.2	626.4	626.4	625.5	622.9	624.6	622.9
7.5°	634.2	633.4	632.5	629.0	629.9	629.0	629.0	627.2	624.6	626.4	623.8
10°	636.1	636.1	634.2	630.8	630.8	629.9	630.8	629.9	626.4	629.0	627.2
12.5°	636.1	635.1	635.1	630.8	631.6	630.8	631.6	629.9	627.2	629.0	628.1
15°	633.4	633.4	632.5	628.1	629.0	629.0	629.9	628.1	625.5	628.1	626.4
17.5°	628.1	628.1	627.2	623.8	625.5	625.5	626.4	624.6	622.0	623.8	623.8
20°	617.6	618.5	618.5	615.8	617.6	617.6	618.5	617.6	616.6	617.6	615.8
22.5°	605.2	607.0	607.0	604.4	606.1	606.1	608.8	607.9	606.1	607.0	606.1
25°	586.8	588.5	590.2	588.5	590.2	590.2	592.9	592.0	590.2	592.0	589.4
27.5°	565.6	566.5	568.2	566.5	569.1	568.2	570.9	570.0	567.4	570.0	569.1
30°	535.6	539.1	541.8	539.1	541.8	541.8	543.5	542.6	541.8	540.9	540.9
32.5°	502.1	505.6	505.6	504.8	506.5	506.5	507.5	505.6	504.8	505.6	506.5
35°	460.8	462.5	464.2	463.4	464.2	465.1	464.2	465.1	462.5	463.4	463.4
37.5°	415.9	417.6	417.6	415.0	416.8	416.8	415.0	415.0	413.1	415.0	411.4
40°	368.2	366.5	367.4	365.6	363.9	363.9	363.0	359.5	357.6	358.5	359.5
42.5°	321.5	321.5	318.9	314.5	310.1	310.1	307.5	305.8	302.1	303.9	303.0
45°	281.9	277.5	274.0	266.9	264.2	262.5	258.1	253.8	252.0	252.9	252.0
47.5°	244.0	240.5	231.8	222.0	219.4	216.8	211.4	206.1	204.4	202.6	202.6
50°	212.4	206.1	196.5	185.9	181.5	177.1	170.0	164.8	161.2	162.1	162.1
52.5°	183.2	176.2	164.8	151.5	146.2	141.0	134.8	128.6	126.0	125.1	125.1
55°	157.8	149.8	138.4	123.4	118.9	112.8	104.9	97.8	94.2	93.4	95.1
57.5°	134.8	127.8	114.5	99.5	94.2	88.1	80.1	74.0	69.6	68.8	69.6
60°	116.2	106.6	95.1	81.0	74.0	68.8	59.9	54.6	50.2	48.5	49.4
62.5°	97.8	89.0	77.5	63.4	58.1	52.9	44.9	38.8	35.2	34.4	35.2
65°	83.8	74.9	64.2	52.0	46.8	41.4	34.4	28.2	25.5	24.6	25.5
67.5°	69.6	61.6	52.9	41.4	37.0	32.6	25.5	21.1	17.6	16.8	17.6
70°	56.4	49.4	40.5	32.6	28.2	24.6	19.4	15.0	12.4	11.5	12.4
72.5°	42.2	37.0	30.9	23.8	21.1	18.5	14.1	10.6	8.8	7.9	8.8
75°	30.9	26.4	22.0	16.8	15.0	13.2	9.8	7.0	6.1	5.2	6.1
77.5°	21.1	18.5	15.0	11.5	9.8	8.8	6.1	5.2	4.4	3.5	3.5
80°	14.1	12.4	9.8	7.9	7.0	6.1	4.4	3.5	2.6	2.6	2.6
82.5°	8.8	7.0	6.1	4.4	3.5	3.5	2.6	1.8	1.8	1.8	1.8
85°	5.2	4.4	3.5	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	2.6	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°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	622.9	621.1	621.1	622.0	622.9	623.8	622.0	621.1	621.1	623.8	622.0
5°	622.9	622.0	622.0	622.0	623.8	624.6	622.9	622.0	622.9	625.5	624.6
7.5°	625.5	623.8	624.6	624.6	625.5	627.2	625.5	624.6	625.5	628.1	626.4
10°	627.2	625.5	626.4	625.5	628.1	629.0	627.2	626.4	627.2	630.8	629.9
12.5°	628.1	627.2	627.2	626.4	629.0	629.9	628.1	627.2	628.1	630.8	629.9
15°	626.4	625.5	625.5	625.5	627.2	629.0	626.4	625.5	625.5	628.1	627.2
17.5°	622.9	621.1	621.1	621.1	622.0	622.9	620.2	619.4	618.5	621.1	620.2
20°	616.6	614.9	613.1	613.1	614.0	614.0	612.2	609.6	609.6	610.5	608.8
22.5°	605.2	604.4	602.6	601.8	603.5	602.6	599.1	596.4	595.5	596.4	594.6
25°	589.4	587.6	586.8	585.9	586.8	585.9	582.4	578.8	578.8	578.8	576.1
27.5°	567.4	565.6	564.8	564.8	565.6	563.9	560.2	556.8	555.0	555.0	552.4
30°	539.1	539.1	538.2	537.4	536.5	536.5	531.2	527.8	526.0	526.9	525.0
32.5°	504.8	503.9	503.0	500.4	501.2	500.4	496.0	493.4	490.8	489.0	488.0
35°	460.8	460.8	459.9	459.9	459.9	459.0	454.6	452.0	450.1	449.2	446.6
37.5°	412.2	411.4	410.5	410.5	410.5	410.5	407.9	405.2	405.2	404.4	402.6
40°	357.6	358.5	359.5	358.5	361.2	363.9	360.4	358.5	357.6	360.4	356.8
42.5°	304.9	303.9	308.4	309.2	309.2	313.6	314.5	315.4	314.5	316.2	316.2
45°	253.8	252.9	257.2	259.0	263.4	268.8	271.4	275.8	277.5	279.2	277.5
47.5°	205.2	208.8	212.4	216.8	220.2	229.0	234.4	238.8	240.5	243.1	243.1
50°	164.8	168.2	174.4	178.0	182.4	192.9	201.8	207.9	211.4	214.1	213.2
52.5°	126.9	133.0	141.0	144.5	150.6	163.0	172.6	179.8	184.1	186.8	187.6
55°	97.8	103.1	111.0	116.2	122.5	135.6	148.0	155.9	160.4	163.9	165.6
57.5°	72.2	78.4	87.2	91.6	98.6	113.6	124.2	133.9	139.2	143.6	144.5
60°	52.9	59.0	67.0	72.2	79.2	94.2	106.6	115.4	121.6	125.1	126.9
62.5°	37.9	44.0	52.0	57.2	63.4	76.6	89.0	97.8	104.0	108.4	111.0
65°	27.2	33.5	41.4	45.8	51.1	63.4	74.9	83.8	89.9	95.1	96.9
67.5°	20.2	24.6	31.8	36.1	41.4	51.1	60.8	68.8	74.9	79.2	81.0
70°	15.0	18.5	24.6	27.2	30.9	39.6	47.6	54.6	59.9	63.4	65.2
72.5°	10.6	13.2	17.6	20.2	22.9	30.0	36.1	41.4	44.9	48.5	50.2
75°	7.0	8.8	12.4	14.1	15.9	21.1	25.5	30.0	32.6	35.2	36.1
77.5°	4.4	6.1	8.8	9.8	11.5	14.1	17.6	20.2	22.0	23.8	25.5
80°	2.6	3.5	5.2	6.1	7.0	9.8	11.5	13.2	15.0	16.8	17.6
82.5°	1.8	2.6	3.5	3.5	4.4	5.2	7.0	8.8	9.8	10.6	11.5
85°	0.9	0.9	1.8	1.8	2.6	2.6	3.5	4.4	5.2	6.1	7.0
87.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.6	2.6	2.6	3.5	3.5
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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	620.2	622.9	620.2	622.0	621.1	621.1	620.2	621.1
5°	622.9	626.4	622.9	625.5	623.8	623.8	623.8	624.6
7.5°	625.5	629.0	626.4	629.0	628.1	627.2	627.2	629.0
10°	628.1	630.8	629.0	631.6	630.8	629.9	629.9	631.6
12.5°	628.1	631.6	629.9	632.5	631.6	630.8	630.8	631.6
15°	625.5	629.9	627.2	629.9	629.0	628.1	628.1	629.9
17.5°	617.6	621.1	619.4	621.1	621.1	620.2	621.1	622.0
20°	607.0	609.6	607.9	609.6	609.6	607.9	608.8	609.6
22.5°	592.0	594.6	592.9	594.6	593.8	592.9	592.9	592.0
25°	573.5	577.0	574.4	576.1	574.4	572.6	572.6	573.5
27.5°	550.6	553.2	549.8	551.5	549.8	548.0	548.0	547.1
30°	520.6	521.5	518.9	520.6	518.9	518.0	516.2	516.2
32.5°	484.5	485.4	482.8	482.8	481.0	481.0	477.5	480.1
35°	442.2	443.1	442.2	441.4	438.8	437.9	437.0	437.0
37.5°	398.2	398.2	395.5	394.6	392.9	391.1	392.0	389.4
40°	353.2	352.4	349.8	350.6	349.8	347.1	346.2	345.4
42.5°	311.0	311.0	308.4	309.2	307.5	306.6	303.9	304.9
45°	274.0	274.0	271.4	271.4	270.5	267.9	268.8	266.9
47.5°	240.5	240.5	239.6	239.6	237.0	236.1	236.1	236.1
50°	211.4	211.4	211.4	211.4	210.5	209.6	208.8	209.6
52.5°	186.8	188.5	187.6	187.6	186.8	185.9	185.0	185.0
55°	164.8	165.6	165.6	166.5	165.6	164.8	165.6	164.8
57.5°	145.4	147.1	147.1	147.1	147.1	147.1	146.2	145.4
60°	128.6	129.5	129.5	130.4	130.4	130.4	129.5	129.5
62.5°	111.9	113.6	114.5	114.5	115.4	114.5	114.5	114.5
65°	98.6	100.4	101.2	100.4	101.2	101.2	100.4	100.4
67.5°	82.8	84.6	84.6	84.6	84.6	85.5	84.6	84.6
70°	67.0	68.8	67.9	68.8	68.8	68.8	68.8	68.8
72.5°	51.1	52.0	52.9	52.9	53.8	52.9	52.9	52.9
75°	37.0	38.8	38.8	38.8	38.8	39.6	39.6	39.6
77.5°	26.4	27.2	27.2	28.2	28.2	28.2	28.2	29.1
80°	18.5	18.5	19.4	19.4	20.2	20.2	20.2	20.2
82.5°	12.4	13.2	13.2	13.2	13.2	13.2	13.2	13.2
85°	7.0	7.9	7.9	7.9	7.9	8.8	8.8	8.8
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5
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)