

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: P252660

Luminaire Tested: **LE_6B10D010 EC6B10209730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252660
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 EC6B10209730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.2 lumens
Efficiency: N/A
Efficacy: 92.6 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

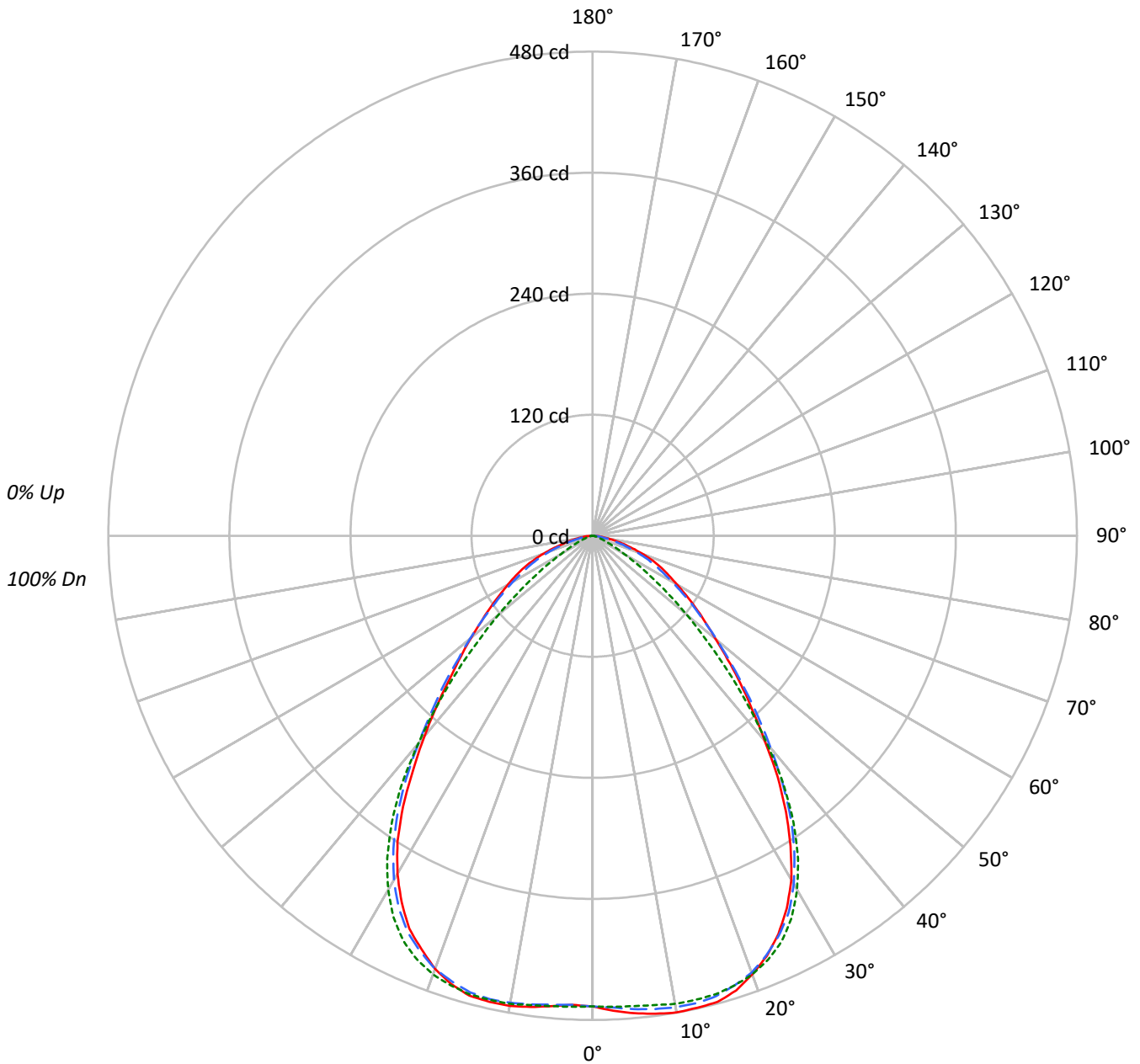
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	44	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°	30441	30441	30441
5°	31121	30649	30649
10°	31792	31216	31348
15°	32319	31785	31880
20°	32131	32131	31715
25°	31357	31925	30939
30°	29681	30525	29139
35°	26601	27652	26075
40°	22603	22875	22041
45°	19117	17484	18453
50°	16148	12332	15945
55°	14195	7962	14036
60°	12578	4723	12657
65°	11609	2856	11609
70°	10072	1640	9824
75°	7965	1008	7512
80°	5974	751	5673
85°	5390	449	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	4.9
10°-20°	133.0	14.4
20°-30°	200.0	21.6
30°-40°	210.3	22.7
40°-50°	157.1	17.0
50°-60°	97.8	10.6
60°-70°	55.6	6.0
70°-80°	22.9	2.5
80°-90°	4.7	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°	377.9	40.8
0°-40°	588.1	63.5
0°-60°	843.0	91.0
0°-90°	926.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	475	471	468	467	468	45
15°	478	473	471	469	472	135
25°	436	437	444	434	430	199
35°	334	343	347	337	327	207
45°	207	212	190	208	200	161
55°	125	122	70	120	123	112
65°	75	67	18	67	75	74
75°	32	25	4	24	30	34
85°	7	5	1	4	7	8
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°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	471.2	470.6	471.2	470.0	469.2	469.2	470.0	468.6	468.0	468.6	468.0
5°	475.2	473.9	474.6	473.9	472.6	472.6	473.2	471.2	471.2	472.0	471.2
7.5°	477.9	477.9	477.9	476.6	475.9	475.2	476.6	474.6	473.9	473.9	473.2
10°	479.9	479.2	479.9	478.5	477.2	476.6	477.9	476.6	475.2	476.6	474.6
12.5°	479.2	479.2	479.2	478.5	477.2	476.6	477.9	475.9	475.2	475.9	474.6
15°	478.5	476.6	477.2	476.6	474.6	474.6	475.2	473.2	472.0	473.9	472.6
17.5°	472.6	471.2	472.0	470.6	469.2	468.6	469.2	468.6	467.4	468.6	467.4
20°	462.8	462.8	463.4	462.0	460.8	460.1	461.4	460.1	458.8	460.8	460.8
22.5°	450.9	450.9	450.9	450.1	449.5	449.5	449.5	448.9	448.1	449.5	450.1
25°	435.6	435.0	435.6	436.2	435.6	435.0	435.6	435.6	434.4	437.0	437.0
27.5°	416.5	416.5	417.9	417.1	417.1	416.5	417.9	417.9	417.1	419.1	421.1
30°	394.0	392.8	394.0	394.0	394.8	394.8	395.4	395.4	395.4	397.4	398.6
32.5°	365.0	365.6	367.6	367.0	366.4	368.4	368.4	369.6	370.2	371.6	372.2
35°	334.0	334.6	334.6	335.2	336.6	335.2	338.6	338.0	338.6	341.2	342.6
37.5°	301.0	299.0	302.2	301.0	301.6	301.6	303.0	303.6	305.6	308.9	308.9
40°	265.4	266.0	267.4	268.0	268.6	268.6	268.6	270.6	271.2	275.2	274.6
42.5°	234.4	234.4	235.6	236.2	236.2	236.2	236.2	238.2	239.6	240.9	242.2
45°	207.2	205.2	206.6	206.6	207.9	207.2	208.6	209.9	210.5	212.5	211.9
47.5°	181.5	180.9	181.5	182.1	181.5	182.1	182.9	183.5	184.1	184.1	184.1
50°	159.1	159.1	159.8	160.4	160.4	160.4	160.4	161.0	161.0	162.4	161.0
52.5°	140.6	141.2	141.2	140.6	141.2	141.2	141.9	141.9	141.2	141.2	139.2
55°	124.8	124.1	124.8	124.1	124.8	124.8	124.1	124.1	123.4	122.8	122.1
57.5°	109.6	109.6	109.6	109.6	108.9	109.6	108.9	108.2	108.2	106.9	105.0
60°	96.4	96.4	96.4	96.4	96.4	95.8	96.4	95.8	94.4	93.1	90.4
62.5°	85.1	84.5	85.1	84.5	84.5	83.9	83.9	83.1	81.9	80.5	77.9
65°	75.2	75.9	75.2	75.2	74.6	73.9	73.9	73.2	71.2	70.0	67.4
67.5°	64.6	64.0	64.0	64.0	63.4	63.4	63.4	62.0	60.8	58.8	56.1
70°	52.8	52.8	52.8	52.1	52.1	51.5	51.5	50.9	49.5	48.1	44.9
72.5°	41.6	41.6	41.6	40.2	40.9	40.2	40.2	39.0	38.2	36.2	34.4
75°	31.6	31.6	31.0	31.0	30.4	29.8	29.8	29.0	28.4	27.1	25.1
77.5°	23.1	23.1	23.1	22.5	21.8	21.1	21.1	20.5	19.8	19.1	17.9
80°	15.9	15.9	15.9	15.9	15.1	14.5	14.5	13.9	13.9	13.2	11.9
82.5°	10.5	10.5	10.5	10.5	9.9	9.9	9.9	9.2	8.6	8.6	7.2
85°	7.2	7.2	6.6	6.6	6.6	6.6	6.0	6.0	5.2	4.6	4.6
87.5°	4.0	4.0	4.0	4.0	3.2	3.2	3.2	3.2	2.6	2.6	2.0
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°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	470.0	470.0	469.2	467.4	468.0	467.4	468.0	467.4	465.4	467.4	465.4
5°	472.6	473.2	472.0	469.2	470.0	469.2	469.2	468.6	466.6	468.0	466.6
7.5°	475.2	474.6	473.9	471.2	472.0	471.2	471.2	470.0	468.0	469.2	467.4
10°	476.6	476.6	475.2	472.6	472.6	472.0	472.6	472.0	469.2	471.2	470.0
12.5°	476.6	475.9	475.9	472.6	473.2	472.6	473.2	472.0	470.0	471.2	470.6
15°	474.6	474.6	473.9	470.6	471.2	471.2	472.0	470.6	468.6	470.6	469.2
17.5°	470.6	470.6	470.0	467.4	468.6	468.6	469.2	468.0	466.0	467.4	467.4
20°	462.8	463.4	463.4	461.4	462.8	462.8	463.4	462.8	462.0	462.8	461.4
22.5°	453.5	454.8	454.8	452.8	454.1	454.1	456.1	455.5	454.1	454.8	454.1
25°	439.6	440.9	442.2	440.9	442.2	442.2	444.2	443.5	442.2	443.5	441.6
27.5°	423.8	424.4	425.8	424.4	426.4	425.8	427.8	427.0	425.1	427.0	426.4
30°	401.4	404.0	406.0	404.0	406.0	406.0	407.2	406.6	406.0	405.2	405.2
32.5°	376.2	378.9	378.9	378.2	379.5	379.5	380.2	378.9	378.2	378.9	379.5
35°	345.2	346.5	347.9	347.2	347.9	348.5	347.9	348.5	346.5	347.2	347.2
37.5°	311.5	312.9	312.9	310.9	312.2	312.2	310.9	310.9	309.6	310.9	308.2
40°	275.9	274.6	275.2	273.9	272.6	272.6	272.0	269.2	268.0	268.6	269.2
42.5°	240.9	240.9	239.0	235.6	232.4	232.4	230.4	229.0	226.4	227.8	227.0
45°	211.2	207.9	205.2	200.0	198.0	196.8	193.4	190.1	188.8	189.5	188.8
47.5°	182.9	180.2	173.6	166.4	164.4	162.4	158.4	154.5	153.1	151.9	151.9
50°	159.1	154.5	147.2	139.2	136.0	132.6	127.4	123.4	120.8	121.5	121.5
52.5°	137.2	132.0	123.4	113.5	109.6	105.6	101.0	96.4	94.4	93.8	93.8
55°	118.1	112.2	103.6	92.4	89.1	84.5	78.5	73.2	70.6	70.0	71.2
57.5°	101.0	95.8	85.8	74.6	70.6	66.0	60.1	55.5	52.1	51.5	52.1
60°	87.1	79.9	71.2	60.8	55.5	51.5	44.9	40.9	37.6	36.2	37.0
62.5°	73.2	66.6	58.1	47.5	43.6	39.6	33.6	29.0	26.4	25.8	26.4
65°	62.8	56.1	48.1	39.0	35.0	31.0	25.8	21.1	19.1	18.5	19.1
67.5°	52.1	46.2	39.6	31.0	27.8	24.4	19.1	15.9	13.2	12.5	13.2
70°	42.2	37.0	30.4	24.4	21.1	18.5	14.5	11.2	9.2	8.6	9.2
72.5°	31.6	27.8	23.1	17.9	15.9	13.9	10.5	7.9	6.6	6.0	6.6
75°	23.1	19.8	16.5	12.5	11.2	9.9	7.2	5.2	4.6	4.0	4.6
77.5°	15.9	13.9	11.2	8.6	7.2	6.6	4.6	4.0	3.2	2.6	2.6
80°	10.5	9.2	7.2	6.0	5.2	4.6	3.2	2.6	2.0	2.0	2.0
82.5°	6.6	5.2	4.6	3.2	2.6	2.6	2.0	1.4	1.4	1.4	1.4
85°	4.0	3.2	2.6	2.0	1.4	1.4	0.6	0.6	0.6	0.6	0.6
87.5°	2.0	1.4	1.4	0.6	0.6	0.6	0.6	0.6	0.0	0.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	466.6	465.4	465.4	466.0	466.6	467.4	466.0	465.4	465.4	467.4	466.0
5°	466.6	466.0	466.0	466.0	467.4	468.0	466.6	466.0	466.6	468.6	468.0
7.5°	468.6	467.4	468.0	468.0	468.6	470.0	468.6	468.0	468.6	470.6	469.2
10°	470.0	468.6	469.2	468.6	470.6	471.2	470.0	469.2	470.0	472.6	472.0
12.5°	470.6	470.0	470.0	469.2	471.2	472.0	470.6	470.0	470.6	472.6	472.0
15°	469.2	468.6	468.6	468.6	470.0	471.2	469.2	468.6	468.6	470.6	470.0
17.5°	466.6	465.4	465.4	465.4	466.0	466.6	464.6	464.0	463.4	465.4	464.6
20°	462.0	460.8	459.4	459.4	460.1	460.1	458.8	456.8	456.8	457.4	456.1
22.5°	453.5	452.8	451.5	450.9	452.1	451.5	448.9	446.9	446.2	446.9	445.5
25°	441.6	440.2	439.6	439.0	439.6	439.0	436.2	433.6	433.6	433.6	431.6
27.5°	425.1	423.8	423.1	423.1	423.8	422.5	419.8	417.1	415.9	415.9	413.9
30°	404.0	404.0	403.2	402.6	402.0	402.0	398.0	395.4	394.0	394.8	393.4
32.5°	378.2	377.5	376.9	374.9	375.6	374.9	371.6	369.6	367.6	366.4	365.6
35°	345.2	345.2	344.5	344.5	344.5	343.9	340.6	338.6	337.2	336.6	334.6
37.5°	308.9	308.2	307.6	307.6	307.6	307.6	305.6	303.6	303.6	303.0	301.6
40°	268.0	268.6	269.2	268.6	270.6	272.6	270.0	268.6	268.0	270.0	267.4
42.5°	228.4	227.8	231.0	231.6	231.6	235.0	235.6	236.2	235.6	237.0	237.0
45°	190.1	189.5	192.8	194.0	197.4	201.4	203.2	206.6	207.9	209.2	207.9
47.5°	153.8	156.4	159.1	162.4	165.0	171.6	175.6	178.9	180.2	182.1	182.1
50°	123.4	126.1	130.8	133.4	136.6	144.5	151.1	155.8	158.4	160.4	159.8
52.5°	95.0	99.6	105.6	108.2	112.9	122.1	129.4	134.6	138.0	139.9	140.6
55°	73.2	77.2	83.1	87.1	91.8	101.6	110.9	116.9	120.1	122.8	124.1
57.5°	54.1	58.8	65.4	68.6	73.9	85.1	93.1	100.4	104.2	107.6	108.2
60°	39.6	44.2	50.1	54.1	59.4	70.6	79.9	86.5	91.1	93.8	95.0
62.5°	28.4	33.0	39.0	42.9	47.5	57.4	66.6	73.2	77.9	81.2	83.1
65°	20.5	25.1	31.0	34.4	38.2	47.5	56.1	62.8	67.4	71.2	72.6
67.5°	15.1	18.5	23.8	27.1	31.0	38.2	45.5	51.5	56.1	59.4	60.8
70°	11.2	13.9	18.5	20.5	23.1	29.8	35.6	40.9	44.9	47.5	48.9
72.5°	7.9	9.9	13.2	15.1	17.1	22.5	27.1	31.0	33.6	36.2	37.6
75°	5.2	6.6	9.2	10.5	11.9	15.9	19.1	22.5	24.4	26.4	27.1
77.5°	3.2	4.6	6.6	7.2	8.6	10.5	13.2	15.1	16.5	17.9	19.1
80°	2.0	2.6	4.0	4.6	5.2	7.2	8.6	9.9	11.2	12.5	13.2
82.5°	1.4	2.0	2.6	2.6	3.2	4.0	5.2	6.6	7.2	7.9	8.6
85°	0.6	0.6	1.4	1.4	2.0	2.0	2.6	3.2	4.0	4.6	5.2
87.5°	0.6	0.6	0.6	0.6	1.4	1.4	2.0	2.0	2.0	2.6	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	464.6	466.6	464.6	466.0	465.4	465.4	464.6	465.4
5°	466.6	469.2	466.6	468.6	467.4	467.4	467.4	468.0
7.5°	468.6	471.2	469.2	471.2	470.6	470.0	470.0	471.2
10°	470.6	472.6	471.2	473.2	472.6	472.0	472.0	473.2
12.5°	470.6	473.2	472.0	473.9	473.2	472.6	472.6	473.2
15°	468.6	472.0	470.0	472.0	471.2	470.6	470.6	472.0
17.5°	462.8	465.4	464.0	465.4	465.4	464.6	465.4	466.0
20°	454.8	456.8	455.5	456.8	456.8	455.5	456.1	456.8
22.5°	443.5	445.5	444.2	445.5	444.9	444.2	444.2	443.5
25°	429.8	432.4	430.4	431.6	430.4	429.0	429.0	429.8
27.5°	412.5	414.5	411.9	413.2	411.9	410.5	410.5	409.9
30°	390.1	390.8	388.8	390.1	388.8	388.1	386.8	386.8
32.5°	363.0	363.8	361.8	361.8	360.4	360.4	357.8	359.8
35°	331.4	332.0	331.4	330.8	328.8	328.0	327.4	327.4
37.5°	298.4	298.4	296.4	295.8	294.4	293.1	293.8	291.8
40°	264.6	264.0	262.0	262.8	262.0	260.1	259.4	258.8
42.5°	233.0	233.0	231.0	231.6	230.4	229.8	227.8	228.4
45°	205.2	205.2	203.2	203.2	202.6	200.6	201.4	200.0
47.5°	180.2	180.2	179.5	179.5	177.5	176.9	176.9	176.9
50°	158.4	158.4	158.4	158.4	157.8	157.1	156.4	157.1
52.5°	139.9	141.2	140.6	140.6	139.9	139.2	138.6	138.6
55°	123.4	124.1	124.1	124.8	124.1	123.4	124.1	123.4
57.5°	108.9	110.2	110.2	110.2	110.2	110.2	109.6	108.9
60°	96.4	97.0	97.0	97.8	97.8	97.8	97.0	97.0
62.5°	83.9	85.1	85.8	85.8	86.5	85.8	85.8	85.8
65°	73.9	75.2	75.9	75.2	75.9	75.9	75.2	75.2
67.5°	62.0	63.4	63.4	63.4	63.4	64.0	63.4	63.4
70°	50.1	51.5	50.9	51.5	51.5	51.5	51.5	51.5
72.5°	38.2	39.0	39.6	39.6	40.2	39.6	39.6	39.6
75°	27.8	29.0	29.0	29.0	29.0	29.8	29.8	29.8
77.5°	19.8	20.5	20.5	21.1	21.1	21.1	21.1	21.8
80°	13.9	13.9	14.5	14.5	15.1	15.1	15.1	15.1
82.5°	9.2	9.9	9.9	9.9	9.9	9.9	9.9	9.9
85°	5.2	6.0	6.0	6.0	6.0	6.6	6.6	6.6
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6
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)