

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: P252672

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252672
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 EC6B10209727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1221.3 lumens
Efficiency: N/A
Efficacy: 84.8 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

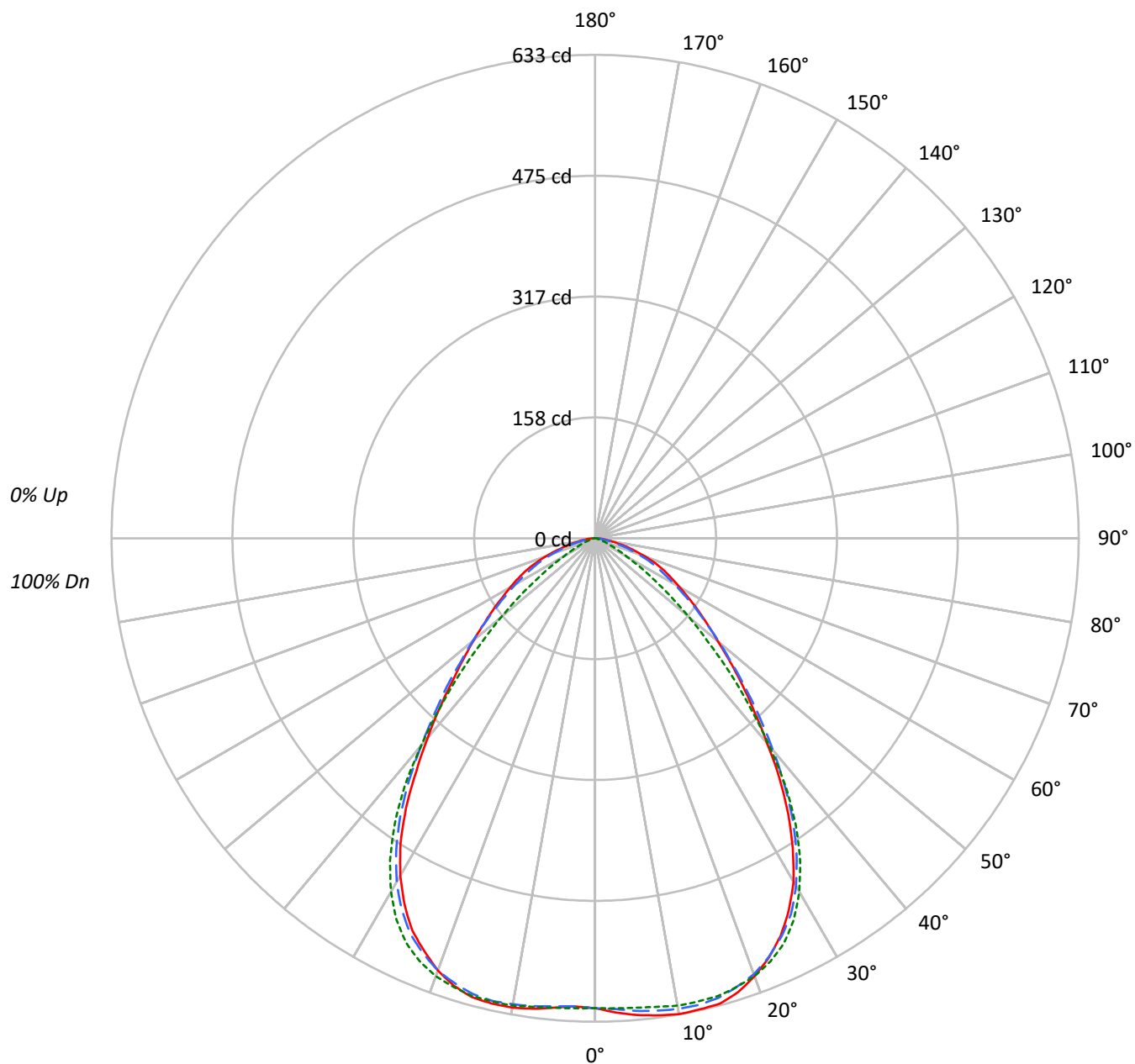
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	40136	40136	40136
5°	41036	40407	40407
10°	41921	41166	41338
15°	42619	41910	42025
20°	42358	42358	41809
25°	41348	42104	40780
30°	39136	40258	38420
35°	35075	36461	34374
40°	29799	30166	29050
45°	25207	23048	24339
50°	21294	16250	21020
55°	18711	10487	18517
60°	16571	6250	16689
65°	15314	3767	15314
70°	13276	2175	12952
75°	10537	1311	9856
80°	7852	977	7514
85°	7186	674	6587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	4.9
10°-20°	175.3	14.4
20°-30°	263.7	21.6
30°-40°	277.2	22.7
40°-50°	207.1	17.0
50°-60°	128.9	10.6
60°-70°	73.3	6.0
70°-80°	30.2	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°	498.2	40.8
0°-40°	775.5	63.5
0°-60°	1111.5	91.0
0°-90°	1221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	615	615	615	615	615	
5°	627	621	617	615	617	60
15°	631	623	620	618	622	177
25°	574	576	585	572	566	263
35°	440	452	458	445	432	273
45°	273	279	250	274	264	212
55°	164	161	92	158	163	148
65°	99	89	24	89	99	98
75°	42	33	5	32	39	45
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°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	621.4	620.5	621.4	619.6	618.8	618.8	619.6	617.9	617.0	617.9	617.0
5°	626.6	624.9	625.8	624.9	623.1	623.1	624.0	621.4	621.4	622.2	621.4
7.5°	630.1	630.1	630.1	628.4	627.5	626.6	628.4	625.8	624.9	624.9	624.0
10°	632.8	631.9	632.8	631.0	629.2	628.4	630.1	628.4	626.6	628.4	625.8
12.5°	631.9	631.9	631.9	631.0	629.2	628.4	630.1	627.5	626.6	627.5	625.8
15°	631.0	628.4	629.2	628.4	625.8	625.8	626.6	624.0	622.2	624.9	623.1
17.5°	623.1	621.4	622.2	620.5	618.8	617.9	618.8	617.9	616.1	617.9	616.1
20°	610.1	610.1	611.0	609.2	607.5	606.6	608.4	606.6	604.9	607.5	607.5
22.5°	594.4	594.4	594.4	593.5	592.6	592.6	592.6	591.8	590.9	592.6	593.5
25°	574.4	573.5	574.4	575.2	574.4	573.5	574.4	574.4	572.6	576.1	576.1
27.5°	549.1	549.1	550.9	550.0	550.0	549.1	550.9	550.9	550.0	552.6	555.2
30°	519.5	517.9	519.5	519.5	520.4	520.4	521.2	521.2	521.2	523.9	525.6
32.5°	481.2	482.1	484.8	483.9	483.0	485.6	485.6	487.4	488.2	490.0	490.9
35°	440.4	441.2	441.2	442.1	443.9	442.1	446.5	445.6	446.5	450.0	451.6
37.5°	396.9	394.2	398.6	396.9	397.8	397.8	399.5	400.4	403.0	407.2	407.2
40°	349.9	350.8	352.5	353.4	354.2	354.2	354.2	356.9	357.6	362.9	362.0
42.5°	309.0	309.0	310.8	311.5	311.5	311.5	311.5	314.1	315.9	317.6	319.4
45°	273.2	270.6	272.4	272.4	274.1	273.2	275.0	276.8	277.6	280.2	279.4
47.5°	239.4	238.5	239.4	240.2	239.4	240.2	241.1	242.0	242.8	242.8	242.8
50°	209.8	209.8	210.6	211.5	211.5	211.5	211.5	212.4	212.4	214.1	212.4
52.5°	185.4	186.2	186.2	185.4	186.2	186.2	187.1	187.1	186.2	186.2	183.6
55°	164.5	163.6	164.5	163.6	164.5	164.5	163.6	163.6	162.8	161.9	161.0
57.5°	144.5	144.5	144.5	144.5	143.6	144.5	143.6	142.8	142.8	141.0	138.4
60°	127.0	127.0	127.0	127.0	127.0	126.2	127.0	126.2	124.5	122.8	119.2
62.5°	112.2	111.4	112.2	111.4	111.4	110.5	110.5	109.6	107.9	106.1	102.8
65°	99.2	100.1	99.2	99.2	98.4	97.5	97.5	96.6	94.0	92.2	88.8
67.5°	85.2	84.4	84.4	84.4	83.5	83.5	83.5	81.8	80.1	77.5	74.0
70°	69.6	69.6	69.6	68.8	68.8	67.9	67.9	67.0	65.2	63.5	59.1
72.5°	54.9	54.9	54.9	53.1	54.0	53.1	53.1	51.4	50.5	47.9	45.2
75°	41.8	41.8	40.9	40.9	40.0	39.1	39.1	38.2	37.4	35.6	33.1
77.5°	30.5	30.5	30.5	29.6	28.8	27.9	27.9	27.0	26.1	25.2	23.5
80°	20.9	20.9	20.9	20.9	20.0	19.1	19.1	18.2	18.2	17.4	15.6
82.5°	13.9	13.9	13.9	13.9	13.0	13.0	13.0	12.1	11.4	11.4	9.6
85°	9.6	9.6	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°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	619.6	619.6	618.8	616.1	617.0	616.1	617.0	616.1	613.5	616.1	613.5
5°	623.1	624.0	622.2	618.8	619.6	618.8	618.8	617.9	615.2	617.0	615.2
7.5°	626.6	625.8	624.9	621.4	622.2	621.4	621.4	619.6	617.0	618.8	616.1
10°	628.4	628.4	626.6	623.1	623.1	622.2	623.1	622.2	618.8	621.4	619.6
12.5°	628.4	627.5	627.5	623.1	624.0	623.1	624.0	622.2	619.6	621.4	620.5
15°	625.8	625.8	624.9	620.5	621.4	621.4	622.2	620.5	617.9	620.5	618.8
17.5°	620.5	620.5	619.6	616.1	617.9	617.9	618.8	617.0	614.4	616.1	616.1
20°	610.1	611.0	611.0	608.4	610.1	610.1	611.0	610.1	609.2	610.1	608.4
22.5°	597.9	599.6	599.6	597.0	598.8	598.8	601.4	600.5	598.8	599.6	598.8
25°	579.6	581.4	583.1	581.4	583.1	583.1	585.8	584.9	583.1	584.9	582.2
27.5°	558.8	559.6	561.4	559.6	562.2	561.4	564.0	563.1	560.5	563.1	562.2
30°	529.1	532.6	535.2	532.6	535.2	535.2	537.0	536.1	535.2	534.4	534.4
32.5°	496.1	499.5	499.5	498.6	500.4	500.4	501.2	499.5	498.6	499.5	500.4
35°	455.1	456.9	458.6	457.8	458.6	459.5	458.6	459.5	456.9	457.8	457.8
37.5°	410.8	412.5	412.5	409.9	411.6	411.6	409.9	409.9	408.1	409.9	406.4
40°	363.8	362.0	362.9	361.1	359.4	359.4	358.5	355.1	353.4	354.2	355.1
42.5°	317.6	317.6	315.0	310.8	306.4	306.4	303.8	302.0	298.5	300.2	299.4
45°	278.5	274.1	270.6	263.8	261.1	259.4	255.0	250.6	248.9	249.8	248.9
47.5°	241.1	237.6	228.9	219.2	216.8	214.1	208.9	203.6	201.9	200.1	200.1
50°	209.8	203.6	194.1	183.6	179.2	174.9	168.0	162.8	159.2	160.1	160.1
52.5°	181.0	174.0	162.8	149.8	144.5	139.2	133.1	127.0	124.5	123.6	123.6
55°	155.8	148.0	136.6	121.9	117.5	111.4	103.6	96.6	93.1	92.2	94.0
57.5°	133.1	126.2	113.1	98.4	93.1	87.0	79.2	73.1	68.8	67.9	68.8
60°	114.9	105.2	94.0	80.1	73.1	67.9	59.1	54.0	49.6	47.9	48.8
62.5°	96.6	87.9	76.6	62.6	57.5	52.2	44.4	38.2	34.8	34.0	34.8
65°	82.6	74.0	63.5	51.4	46.1	40.9	34.0	27.9	25.2	24.4	25.2
67.5°	68.8	60.9	52.2	40.9	36.5	32.2	25.2	20.9	17.4	16.5	17.4
70°	55.8	48.8	40.0	32.2	27.9	24.4	19.1	14.8	12.1	11.4	12.1
72.5°	41.8	36.5	30.5	23.5	20.9	18.2	13.9	10.5	8.8	7.9	8.8
75°	30.5	26.1	21.8	16.5	14.8	13.0	9.6	7.0	6.1	5.2	6.1
77.5°	20.9	18.2	14.8	11.4	9.6	8.8	6.1	5.2	4.4	3.5	3.5
80°	13.9	12.1	9.6	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°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	615.2	613.5	613.5	614.4	615.2	616.1	614.4	613.5	613.5	616.1	614.4
5°	615.2	614.4	614.4	614.4	616.1	617.0	615.2	614.4	615.2	617.9	617.0
7.5°	617.9	616.1	617.0	617.0	617.9	619.6	617.9	617.0	617.9	620.5	618.8
10°	619.6	617.9	618.8	617.9	620.5	621.4	619.6	618.8	619.6	623.1	622.2
12.5°	620.5	619.6	619.6	618.8	621.4	622.2	620.5	619.6	620.5	623.1	622.2
15°	618.8	617.9	617.9	617.9	619.6	621.4	618.8	617.9	617.9	620.5	619.6
17.5°	615.2	613.5	613.5	613.5	614.4	615.2	612.6	611.8	611.0	613.5	612.6
20°	609.2	607.5	605.8	605.8	606.6	606.6	604.9	602.2	602.2	603.1	601.4
22.5°	597.9	597.0	595.2	594.4	596.1	595.2	591.8	589.1	588.4	589.1	587.5
25°	582.2	580.5	579.6	578.8	579.6	578.8	575.2	571.8	571.8	571.8	569.1
27.5°	560.5	558.8	557.9	557.9	558.8	557.0	553.5	550.0	548.2	548.2	545.6
30°	532.6	532.6	531.8	530.9	530.0	530.0	524.8	521.2	519.5	520.4	518.8
32.5°	498.6	497.8	496.9	494.4	495.2	494.4	490.0	487.4	484.8	483.0	482.1
35°	455.1	455.1	454.2	454.2	454.2	453.4	449.1	446.5	444.8	443.9	441.2
37.5°	407.2	406.4	405.5	405.5	405.5	405.5	403.0	400.4	400.4	399.5	397.8
40°	353.4	354.2	355.1	354.2	356.9	359.4	356.0	354.2	353.4	356.0	352.5
42.5°	301.1	300.2	304.6	305.5	305.5	309.9	310.8	311.5	310.8	312.4	312.4
45°	250.6	249.8	254.1	255.9	260.2	265.4	268.0	272.4	274.1	275.9	274.1
47.5°	202.8	206.2	209.8	214.1	217.6	226.2	231.5	235.9	237.6	240.2	240.2
50°	162.8	166.2	172.4	175.8	180.1	190.6	199.2	205.4	208.9	211.5	210.6
52.5°	125.4	131.4	139.2	142.8	148.9	161.0	170.6	177.5	181.9	184.5	185.4
55°	96.6	101.9	109.6	114.9	121.0	134.0	146.2	154.0	158.4	161.9	163.6
57.5°	71.4	77.5	86.1	90.5	97.5	112.2	122.8	132.2	137.5	141.9	142.8
60°	52.2	58.2	66.1	71.4	78.4	93.1	105.2	114.0	120.1	123.6	125.4
62.5°	37.4	43.5	51.4	56.6	62.6	75.8	87.9	96.6	102.8	107.0	109.6
65°	27.0	33.1	40.9	45.2	50.5	62.6	74.0	82.6	88.8	94.0	95.8
67.5°	20.0	24.4	31.4	35.6	40.9	50.5	60.0	67.9	74.0	78.4	80.1
70°	14.8	18.2	24.4	27.0	30.5	39.1	47.0	54.0	59.1	62.6	64.4
72.5°	10.5	13.0	17.4	20.0	22.6	29.6	35.6	40.9	44.4	47.9	49.6
75°	7.0	8.8	12.1	13.9	15.6	20.9	25.2	29.6	32.2	34.8	35.6
77.5°	4.4	6.1	8.8	9.6	11.4	13.9	17.4	20.0	21.8	23.5	25.2
80°	2.6	3.5	5.2	6.1	7.0	9.6	11.4	13.0	14.8	16.5	17.4
82.5°	1.8	2.6	3.5	3.5	4.4	5.2	7.0	8.8	9.6	10.5	11.4
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°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	612.6	615.2	612.6	614.4	613.5	613.5	612.6	613.5
5°	615.2	618.8	615.2	617.9	616.1	616.1	616.1	617.0
7.5°	617.9	621.4	618.8	621.4	620.5	619.6	619.6	621.4
10°	620.5	623.1	621.4	624.0	623.1	622.2	622.2	624.0
12.5°	620.5	624.0	622.2	624.9	624.0	623.1	623.1	624.0
15°	617.9	622.2	619.6	622.2	621.4	620.5	620.5	622.2
17.5°	610.1	613.5	611.8	613.5	613.5	612.6	613.5	614.4
20°	599.6	602.2	600.5	602.2	602.2	600.5	601.4	602.2
22.5°	584.9	587.5	585.8	587.5	586.6	585.8	585.8	584.9
25°	566.5	570.0	567.4	569.1	567.4	565.6	565.6	566.5
27.5°	543.9	546.5	543.0	544.8	543.0	541.4	541.4	540.5
30°	514.4	515.2	512.6	514.4	512.6	511.8	510.0	510.0
32.5°	478.6	479.5	476.9	476.9	475.1	475.1	471.8	474.2
35°	436.9	437.8	436.9	436.0	433.4	432.5	431.6	431.6
37.5°	393.4	393.4	390.8	389.9	388.1	386.4	387.2	384.6
40°	349.0	348.1	345.5	346.4	345.5	342.9	342.0	341.1
42.5°	307.2	307.2	304.6	305.5	303.8	302.9	300.2	301.1
45°	270.6	270.6	268.0	268.0	267.1	264.6	265.4	263.8
47.5°	237.6	237.6	236.8	236.8	234.1	233.2	233.2	233.2
50°	208.9	208.9	208.9	208.9	208.0	207.1	206.2	207.1
52.5°	184.5	186.2	185.4	185.4	184.5	183.6	182.8	182.8
55°	162.8	163.6	163.6	164.5	163.6	162.8	163.6	162.8
57.5°	143.6	145.4	145.4	145.4	145.4	145.4	144.5	143.6
60°	127.0	127.9	127.9	128.8	128.8	128.8	127.9	127.9
62.5°	110.5	112.2	113.1	113.1	114.0	113.1	113.1	113.1
65°	97.5	99.2	100.1	99.2	100.1	100.1	99.2	99.2
67.5°	81.8	83.5	83.5	83.5	83.5	84.4	83.5	83.5
70°	66.1	67.9	67.0	67.9	67.9	67.9	67.9	67.9
72.5°	50.5	51.4	52.2	52.2	53.1	52.2	52.2	52.2
75°	36.5	38.2	38.2	38.2	38.2	39.1	39.1	39.1
77.5°	26.1	27.0	27.0	27.9	27.9	27.9	27.9	28.8
80°	18.2	18.2	19.1	19.1	20.0	20.0	20.0	20.0
82.5°	12.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0
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)