

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: P252650

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252650
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 EC6B10208035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.2 lumens
Efficiency: N/A
Efficacy: 127.1 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

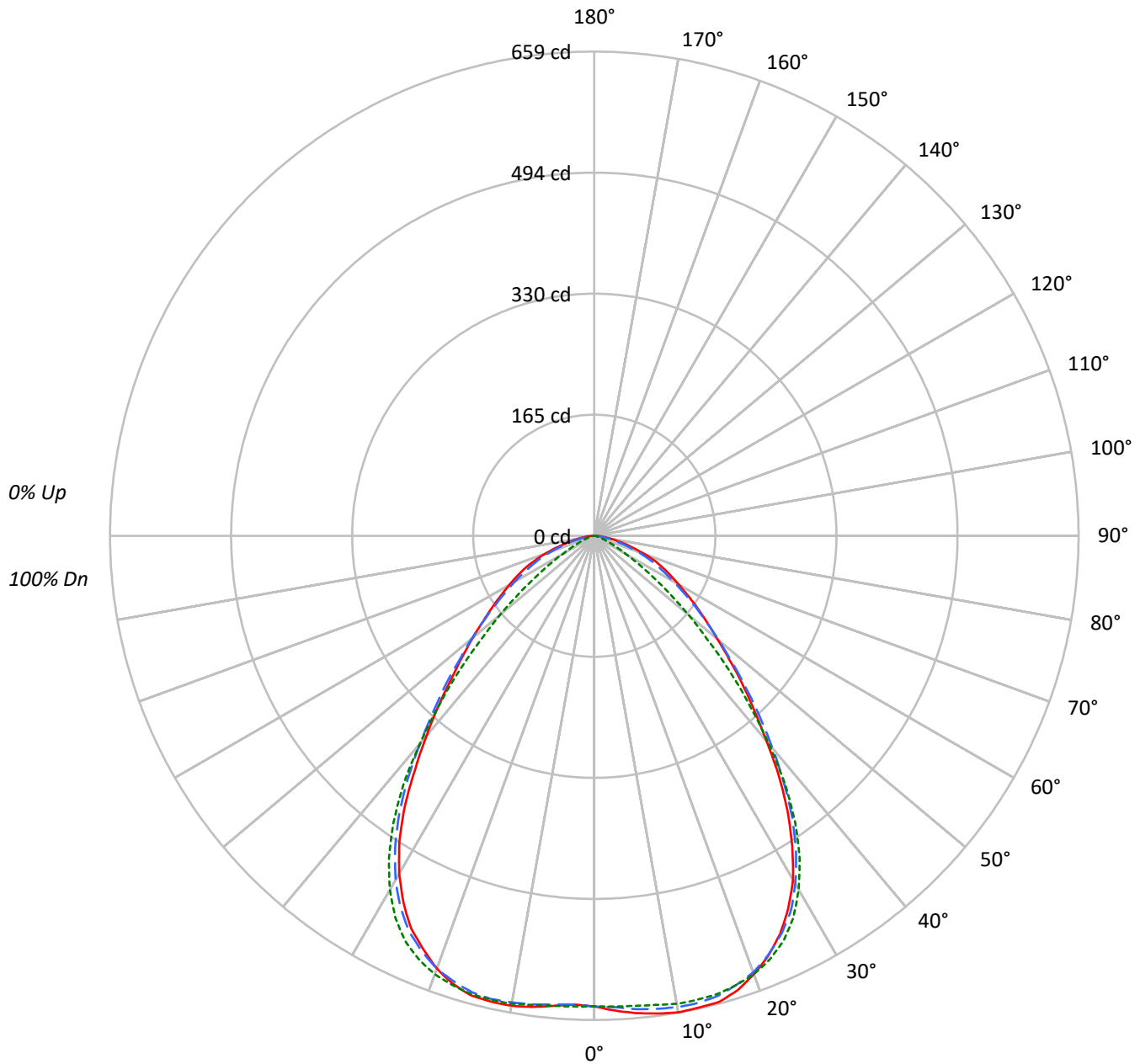
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				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°	41787	41787	41787
5°	42712	42058	42058
10°	43630	42855	43027
15°	44362	43625	43754
20°	44087	44087	43524
25°	43040	43825	42457
30°	40748	41900	39994
35°	36509	37950	35792
40°	31009	31409	30242
45°	26249	23989	25327
50°	22167	16930	21883
55°	19473	10919	19268
60°	17250	6511	17367
65°	15931	3921	15931
70°	13829	2251	13467
75°	10965	1361	10284
80°	8190	1052	7852
85°	7486	674	6737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	4.9
10°-20°	182.5	14.4
20°-30°	274.5	21.6
30°-40°	288.6	22.7
40°-50°	215.6	17.0
50°-60°	134.2	10.6
60°-70°	76.3	6.0
70°-80°	31.4	2.5
80°-90°	6.5	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°	518.6	40.8
0°-40°	807.2	63.5
0°-60°	1157.0	91.0
0°-90°	1271.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	640	640	640	640	640	
5°	652	647	642	640	642	62
15°	657	649	646	643	648	185
25°	598	600	609	595	590	274
35°	458	470	476	463	449	284
45°	284	291	260	285	274	220
55°	171	168	96	165	169	154
65°	103	92	25	92	103	102
75°	44	34	5	34	41	47
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°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	646.9	645.9	646.9	645.0	644.1	644.1	645.0	643.2	642.2	643.2	642.2
5°	652.2	650.5	651.4	650.5	648.6	648.6	649.5	646.9	646.9	647.8	646.9
7.5°	655.9	655.9	655.9	654.1	653.1	652.2	654.1	651.4	650.5	650.5	649.5
10°	658.6	657.8	658.6	656.8	655.0	654.1	655.9	654.1	652.2	654.1	651.4
12.5°	657.8	657.8	657.8	656.8	655.0	654.1	655.9	653.1	652.2	653.1	651.4
15°	656.8	654.1	655.0	654.1	651.4	651.4	652.2	649.5	647.8	650.5	648.6
17.5°	648.6	646.9	647.8	645.9	644.1	643.2	644.1	643.2	641.4	643.2	641.4
20°	635.0	635.0	636.0	634.1	632.4	631.4	633.2	631.4	629.6	632.4	632.4
22.5°	618.8	618.8	618.8	617.9	616.9	616.9	616.9	616.0	615.1	616.9	617.9
25°	597.9	597.0	597.9	598.8	597.9	597.0	597.9	597.9	596.1	599.8	599.8
27.5°	571.6	571.6	573.5	572.5	572.5	571.6	573.5	573.5	572.5	575.2	578.0
30°	540.9	539.0	540.9	540.9	541.8	541.8	542.6	542.6	542.6	545.4	547.1
32.5°	501.0	501.9	504.6	503.8	502.8	505.5	505.5	507.4	508.2	510.0	510.9
35°	458.4	459.2	459.2	460.2	462.0	460.2	464.8	463.9	464.8	468.4	470.1
37.5°	413.1	410.4	414.9	413.1	414.0	414.0	415.9	416.8	419.5	424.0	424.0
40°	364.1	365.1	366.9	367.8	368.8	368.8	368.8	371.4	372.4	377.8	376.9
42.5°	321.6	321.6	323.4	324.4	324.4	324.4	324.4	327.0	328.9	330.6	332.5
45°	284.5	281.8	283.5	283.5	285.4	284.5	286.2	288.1	289.0	291.8	290.8
47.5°	249.1	248.2	249.1	250.0	249.1	250.0	251.0	251.9	252.8	252.8	252.8
50°	218.4	218.4	219.2	220.1	220.1	220.1	220.1	221.0	221.0	222.9	221.0
52.5°	193.0	193.9	193.9	193.0	193.9	193.9	194.8	194.8	193.9	193.9	191.1
55°	171.2	170.2	171.2	170.2	171.2	171.2	170.2	170.2	169.4	168.5	167.6
57.5°	150.4	150.4	150.4	150.4	149.5	150.4	149.5	148.6	148.6	146.8	144.0
60°	132.2	132.2	132.2	132.2	132.2	131.4	132.2	131.4	129.5	127.8	124.1
62.5°	116.9	116.0	116.9	116.0	116.0	115.0	115.0	114.1	112.4	110.5	106.9
65°	103.2	104.1	103.2	103.2	102.4	101.5	101.5	100.5	97.9	96.0	92.4
67.5°	88.8	87.9	87.9	87.9	87.0	87.0	87.0	85.1	83.4	80.6	77.0
70°	72.5	72.5	72.5	71.6	71.6	70.6	70.6	69.8	68.0	66.1	61.6
72.5°	57.1	57.1	57.1	55.2	56.1	55.2	55.2	53.5	52.5	49.9	47.1
75°	43.5	43.5	42.6	42.6	41.6	40.8	40.8	39.9	39.0	37.1	34.4
77.5°	31.8	31.8	31.8	30.8	29.9	29.0	29.0	28.1	27.1	26.2	24.5
80°	21.8	21.8	21.8	21.8	20.9	19.9	19.9	19.0	19.0	18.1	16.2
82.5°	14.5	14.5	14.5	14.5	13.6	13.6	13.6	12.6	11.8	11.8	10.0
85°	10.0	10.0	9.0	9.0	9.0	9.0	8.1	8.1	7.2	6.4	6.4
87.5°	5.4	5.4	5.4	5.4	4.5	4.5	4.5	4.5	3.6	3.6	2.8
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°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	645.0	645.0	644.1	641.4	642.2	641.4	642.2	641.4	638.6	641.4	638.6
5°	648.6	649.5	647.8	644.1	645.0	644.1	644.1	643.2	640.5	642.2	640.5
7.5°	652.2	651.4	650.5	646.9	647.8	646.9	646.9	645.0	642.2	644.1	641.4
10°	654.1	654.1	652.2	648.6	648.6	647.8	648.6	647.8	644.1	646.9	645.0
12.5°	654.1	653.1	653.1	648.6	649.5	648.6	649.5	647.8	645.0	646.9	645.9
15°	651.4	651.4	650.5	645.9	646.9	646.9	647.8	645.9	643.2	645.9	644.1
17.5°	645.9	645.9	645.0	641.4	643.2	643.2	644.1	642.2	639.6	641.4	641.4
20°	635.0	636.0	636.0	633.2	635.0	635.0	636.0	635.0	634.1	635.0	633.2
22.5°	622.4	624.1	624.1	621.5	623.2	623.2	626.0	625.1	623.2	624.1	623.2
25°	603.4	605.1	607.0	605.1	607.0	607.0	609.6	608.8	607.0	608.8	606.0
27.5°	581.6	582.5	584.4	582.5	585.2	584.4	587.0	586.1	583.4	586.1	585.2
30°	550.8	554.4	557.1	554.4	557.1	557.1	559.0	558.0	557.1	556.2	556.2
32.5°	516.4	520.0	520.0	519.1	520.9	520.9	521.8	520.0	519.1	520.0	520.9
35°	473.8	475.6	477.4	476.5	477.4	478.4	477.4	478.4	475.6	476.5	476.5
37.5°	427.6	429.4	429.4	426.6	428.5	428.5	426.6	426.6	424.9	426.6	423.1
40°	378.6	376.9	377.8	376.0	374.1	374.1	373.2	369.6	367.8	368.8	369.6
42.5°	330.6	330.6	328.0	323.4	318.9	318.9	316.1	314.4	310.8	312.5	311.6
45°	289.9	285.4	281.8	274.5	271.8	270.0	265.4	260.9	259.1	260.0	259.1
47.5°	251.0	247.4	238.2	228.2	225.6	222.9	217.4	212.0	210.1	208.4	208.4
50°	218.4	212.0	202.0	191.1	186.6	182.1	174.9	169.4	165.8	166.8	166.8
52.5°	188.4	181.1	169.4	155.9	150.4	145.0	138.6	132.2	129.5	128.6	128.6
55°	162.1	154.0	142.2	126.9	122.2	116.0	107.8	100.5	96.9	96.0	97.9
57.5°	138.6	131.4	117.8	102.4	96.9	90.6	82.5	76.1	71.6	70.6	71.6
60°	119.6	109.6	97.9	83.4	76.1	70.6	61.6	56.1	51.6	49.9	50.8
62.5°	100.5	91.5	79.8	65.2	59.8	54.4	46.2	39.9	36.2	35.4	36.2
65°	86.0	77.0	66.1	53.5	48.0	42.6	35.4	29.0	26.2	25.4	26.2
67.5°	71.6	63.4	54.4	42.6	38.0	33.5	26.2	21.8	18.1	17.2	18.1
70°	58.0	50.8	41.6	33.5	29.0	25.4	19.9	15.4	12.6	11.8	12.6
72.5°	43.5	38.0	31.8	24.5	21.8	19.0	14.5	10.9	9.0	8.1	9.0
75°	31.8	27.1	22.6	17.2	15.4	13.6	10.0	7.2	6.4	5.4	6.4
77.5°	21.8	19.0	15.4	11.8	10.0	9.0	6.4	5.4	4.5	3.6	3.6
80°	14.5	12.6	10.0	8.1	7.2	6.4	4.5	3.6	2.8	2.8	2.8
82.5°	9.0	7.2	6.4	4.5	3.6	3.6	2.8	1.8	1.8	1.8	1.8
85°	5.4	4.5	3.6	2.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	2.8	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°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	640.5	638.6	638.6	639.6	640.5	641.4	639.6	638.6	638.6	641.4	639.6
5°	640.5	639.6	639.6	639.6	641.4	642.2	640.5	639.6	640.5	643.2	642.2
7.5°	643.2	641.4	642.2	642.2	643.2	645.0	643.2	642.2	643.2	645.9	644.1
10°	645.0	643.2	644.1	643.2	645.9	646.9	645.0	644.1	645.0	648.6	647.8
12.5°	645.9	645.0	645.0	644.1	646.9	647.8	645.9	645.0	645.9	648.6	647.8
15°	644.1	643.2	643.2	643.2	645.0	646.9	644.1	643.2	643.2	645.9	645.0
17.5°	640.5	638.6	638.6	638.6	639.6	640.5	637.8	636.9	636.0	638.6	637.8
20°	634.1	632.4	630.5	630.5	631.4	631.4	629.6	626.9	626.9	627.8	626.0
22.5°	622.4	621.5	619.6	618.8	620.5	619.6	616.0	613.2	612.4	613.2	611.5
25°	606.0	604.2	603.4	602.4	603.4	602.4	598.8	595.1	595.1	595.1	592.5
27.5°	583.4	581.6	580.8	580.8	581.6	579.8	576.1	572.5	570.8	570.8	568.0
30°	554.4	554.4	553.5	552.6	551.8	551.8	546.2	542.6	540.9	541.8	539.9
32.5°	519.1	518.1	517.2	514.5	515.5	514.5	510.0	507.4	504.6	502.8	501.9
35°	473.8	473.8	472.9	472.9	472.9	472.0	467.5	464.8	462.9	462.0	459.2
37.5°	424.0	423.1	422.1	422.1	422.1	422.1	419.5	416.8	416.8	415.9	414.0
40°	367.8	368.8	369.6	368.8	371.4	374.1	370.5	368.8	367.8	370.5	366.9
42.5°	313.5	312.5	317.1	318.0	318.0	322.5	323.4	324.4	323.4	325.2	325.2
45°	260.9	260.0	264.5	266.4	270.9	276.2	279.0	283.5	285.4	287.1	285.4
47.5°	211.1	214.8	218.4	222.9	226.5	235.5	241.0	245.5	247.4	250.0	250.0
50°	169.4	173.0	179.4	183.0	187.5	198.4	207.5	213.8	217.4	220.1	219.2
52.5°	130.5	136.8	145.0	148.6	154.9	167.6	177.5	184.8	189.4	192.0	193.0
55°	100.5	106.0	114.1	119.6	125.9	139.5	152.2	160.4	164.9	168.5	170.2
57.5°	74.2	80.6	89.6	94.2	101.5	116.9	127.8	137.8	143.1	147.6	148.6
60°	54.4	60.8	68.9	74.2	81.5	96.9	109.6	118.6	125.0	128.6	130.5
62.5°	39.0	45.2	53.5	58.9	65.2	78.9	91.5	100.5	106.9	111.4	114.1
65°	28.1	34.4	42.6	47.1	52.5	65.2	77.0	86.0	92.4	97.9	99.6
67.5°	20.9	25.4	32.6	37.1	42.6	52.5	62.5	70.6	77.0	81.5	83.4
70°	15.4	19.0	25.4	28.1	31.8	40.8	48.9	56.1	61.6	65.2	67.0
72.5°	10.9	13.6	18.1	20.9	23.5	30.8	37.1	42.6	46.2	49.9	51.6
75°	7.2	9.0	12.6	14.5	16.2	21.8	26.2	30.8	33.5	36.2	37.1
77.5°	4.5	6.4	9.0	10.0	11.8	14.5	18.1	20.9	22.6	24.5	26.2
80°	2.8	3.6	5.4	6.4	7.2	10.0	11.8	13.6	15.4	17.2	18.1
82.5°	1.8	2.8	3.6	3.6	4.5	5.4	7.2	9.0	10.0	10.9	11.8
85°	0.9	0.9	1.8	1.8	2.8	2.8	3.6	4.5	5.4	6.4	7.2
87.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.8	2.8	2.8	3.6	3.6
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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CATALOG NUMBER: LE_6B10D010 EC6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	637.8	640.5	637.8	639.6	638.6	638.6	637.8	638.6
5°	640.5	644.1	640.5	643.2	641.4	641.4	641.4	642.2
7.5°	643.2	646.9	644.1	646.9	645.9	645.0	645.0	646.9
10°	645.9	648.6	646.9	649.5	648.6	647.8	647.8	649.5
12.5°	645.9	649.5	647.8	650.5	649.5	648.6	648.6	649.5
15°	643.2	647.8	645.0	647.8	646.9	645.9	645.9	647.8
17.5°	635.0	638.6	636.9	638.6	638.6	637.8	638.6	639.6
20°	624.1	626.9	625.1	626.9	626.9	625.1	626.0	626.9
22.5°	608.8	611.5	609.6	611.5	610.6	609.6	609.6	608.8
25°	589.8	593.4	590.6	592.5	590.6	588.9	588.9	589.8
27.5°	566.2	568.9	565.2	567.1	565.2	563.5	563.5	562.6
30°	535.4	536.2	533.6	535.4	533.6	532.6	530.9	530.9
32.5°	498.2	499.1	496.5	496.5	494.6	494.6	491.0	493.8
35°	454.8	455.6	454.8	453.9	451.1	450.2	449.4	449.4
37.5°	409.5	409.5	406.8	405.9	404.0	402.2	403.1	400.4
40°	363.2	362.4	359.6	360.5	359.6	356.9	356.0	355.1
42.5°	319.8	319.8	317.1	318.0	316.1	315.2	312.5	313.5
45°	281.8	281.8	279.0	279.0	278.1	275.4	276.2	274.5
47.5°	247.4	247.4	246.4	246.4	243.8	242.8	242.8	242.8
50°	217.4	217.4	217.4	217.4	216.5	215.6	214.8	215.6
52.5°	192.0	193.9	193.0	193.0	192.0	191.1	190.2	190.2
55°	169.4	170.2	170.2	171.2	170.2	169.4	170.2	169.4
57.5°	149.5	151.2	151.2	151.2	151.2	151.2	150.4	149.5
60°	132.2	133.1	133.1	134.1	134.1	134.1	133.1	133.1
62.5°	115.0	116.9	117.8	117.8	118.6	117.8	117.8	117.8
65°	101.5	103.2	104.1	103.2	104.1	104.1	103.2	103.2
67.5°	85.1	87.0	87.0	87.0	87.0	87.9	87.0	87.0
70°	68.9	70.6	69.8	70.6	70.6	70.6	70.6	70.6
72.5°	52.5	53.5	54.4	54.4	55.2	54.4	54.4	54.4
75°	38.0	39.9	39.9	39.9	39.9	40.8	40.8	40.8
77.5°	27.1	28.1	28.1	29.0	29.0	29.0	29.0	29.9
80°	19.0	19.0	19.9	19.9	20.9	20.9	20.9	20.9
82.5°	12.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
85°	7.2	8.1	8.1	8.1	8.1	9.0	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6
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)