

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: P252442

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 1156.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

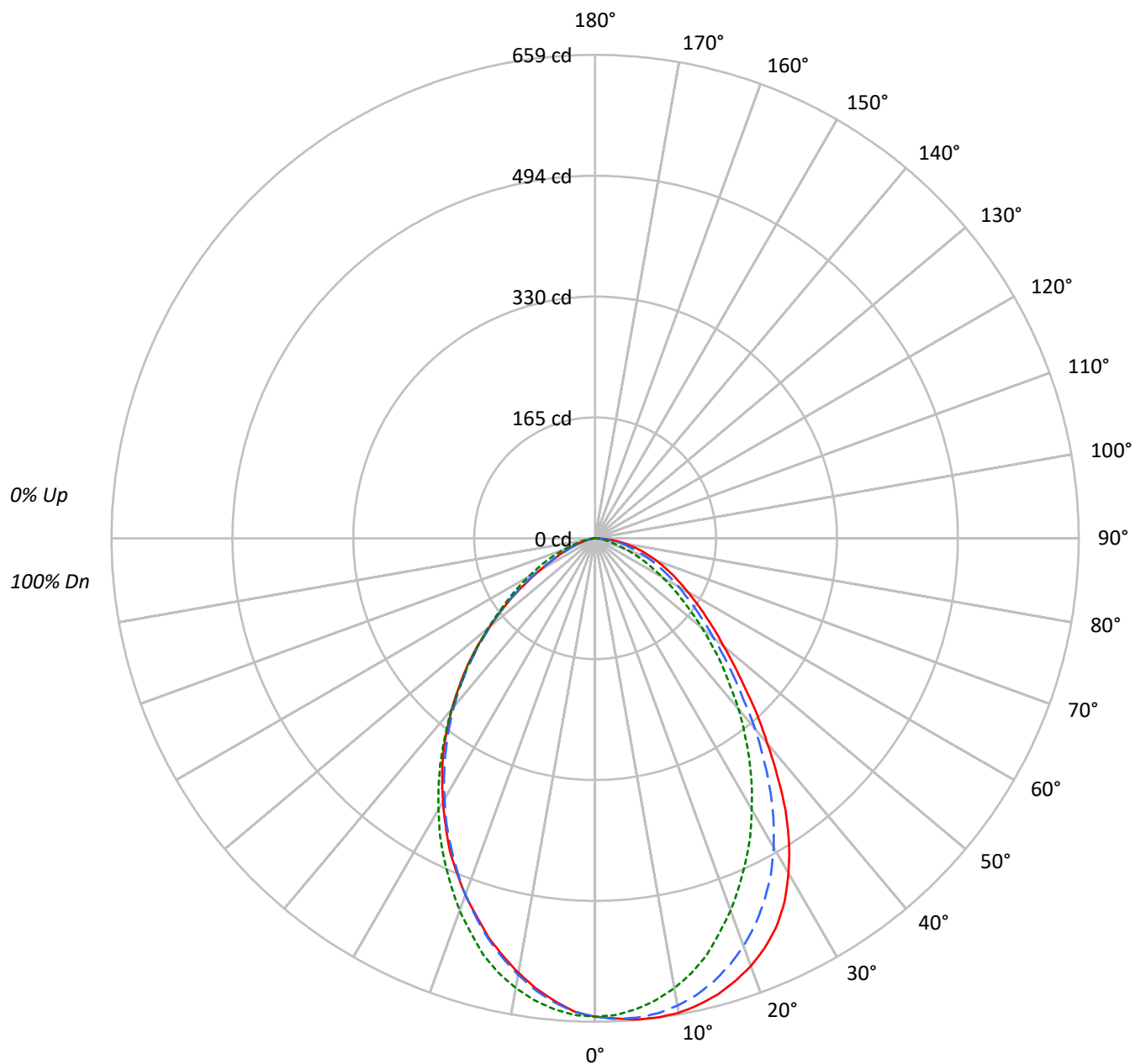
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42550	42550	42550
5°	43132	42182	41468
10°	43518	41232	39848
15°	43504	39715	37999
20°	43087	37491	35908
25°	42068	34956	33775
30°	39716	32152	31256
35°	36007	29150	28791
40°	31094	25924	25848
45°	26664	22568	22734
50°	23161	19305	19031
55°	20815	16277	15253
60°	18920	13714	11234
65°	17753	11331	8259
70°	16939	8813	6066
75°	16233	6403	4084
80°	15329	4433	2705
85°	13549	2695	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	5.3
10°-20°	167.1	14.5
20°-30°	232.0	20.1
30°-40°	240.3	20.8
40°-50°	197.5	17.1
50°-60°	135.7	11.7
60°-70°	78.0	6.7
70°-80°	35.8	3.1
80°-90°	8.7	0.8
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°	460.1	39.8
0°-40°	700.4	60.6
0°-60°	1033.6	89.4
0°-90°	1156.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	652	652	652	652	652	
5°	659	656	644	635	633	63
15°	644	625	588	564	563	181
25°	584	545	486	465	469	267
35°	452	415	366	355	362	280
45°	289	267	245	242	246	225
55°	183	166	143	135	134	165
65°	115	100	73	52	54	115
75°	64	51	25	16	16	68
85°	18	13	4	2	2	20
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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	655.0	660.5	656.9	655.9	657.8	657.8	657.8	655.0	656.9	654.1	655.9
5°	658.6	663.1	659.5	657.8	659.5	660.5	657.8	655.9	658.6	655.0	655.9
7.5°	658.6	663.1	659.5	658.6	659.5	659.5	658.6	655.0	656.9	653.2	653.2
10°	656.9	660.5	656.9	655.0	655.9	655.0	655.0	650.5	651.4	646.9	646.9
12.5°	651.4	655.9	651.4	649.6	649.6	649.6	646.9	643.2	644.1	638.8	637.8
15°	644.1	647.8	643.2	641.4	641.4	640.5	638.8	633.2	633.2	627.9	625.1
17.5°	633.2	636.9	633.2	630.5	629.6	627.9	626.0	620.6	618.8	612.4	609.8
20°	620.6	623.2	619.6	617.0	615.1	613.4	609.8	604.2	602.5	596.1	591.6
22.5°	604.2	607.9	602.5	599.8	598.0	595.2	591.6	586.1	583.5	575.2	569.9
25°	584.4	586.1	581.6	578.9	575.2	573.5	570.8	563.5	560.8	551.8	545.4
27.5°	559.0	560.8	555.4	553.5	549.0	547.2	543.6	537.2	533.6	524.5	518.2
30°	527.2	529.1	525.5	522.8	519.1	515.5	512.8	506.4	501.0	492.0	486.5
32.5°	492.0	494.6	491.0	487.4	481.1	482.0	477.5	471.1	466.6	458.4	452.1
35°	452.1	453.9	449.4	448.5	444.9	441.2	436.6	432.1	429.4	420.4	414.9
37.5°	407.6	412.2	407.6	404.0	402.2	399.5	396.9	390.5	388.6	383.2	376.0
40°	365.1	367.9	365.1	361.5	358.8	358.8	355.1	351.5	347.0	341.5	338.9
42.5°	327.0	325.2	324.4	322.5	318.9	318.0	317.1	312.5	309.9	304.4	299.9
45°	289.0	289.9	288.1	287.2	284.5	282.6	280.9	277.2	276.4	270.9	267.2
47.5°	257.2	256.4	254.6	254.6	252.8	251.0	249.1	246.4	245.5	241.0	237.4
50°	228.2	229.2	228.2	227.4	224.6	223.8	222.0	220.1	218.4	213.8	210.1
52.5°	204.8	203.9	202.9	202.9	200.2	199.4	197.5	195.8	193.9	189.4	186.6
55°	183.0	183.0	182.1	181.2	178.5	177.6	176.6	174.9	172.1	168.5	165.8
57.5°	163.1	163.1	162.1	161.2	159.5	159.5	157.6	155.9	154.0	150.4	146.8
60°	145.0	145.9	145.0	144.0	142.2	142.2	141.4	138.6	137.8	133.1	130.5
62.5°	129.5	129.5	129.5	128.6	127.8	125.9	125.9	123.2	121.4	118.6	115.0
65°	115.0	115.0	115.0	114.1	112.4	111.4	110.5	108.8	106.9	104.1	100.5
67.5°	101.5	101.5	101.5	100.5	98.8	97.9	97.0	96.0	93.4	90.6	87.0
70°	88.8	88.8	87.9	87.0	86.1	85.1	84.2	82.5	80.6	77.0	74.2
72.5°	76.1	76.1	76.1	74.2	73.4	73.4	71.6	70.6	68.9	65.2	62.5
75°	64.4	63.4	63.4	62.5	61.6	60.8	59.8	58.9	56.1	54.4	50.8
77.5°	52.5	52.5	51.6	50.8	50.8	49.9	48.9	47.1	46.2	43.5	40.8
80°	40.8	40.8	40.8	40.8	39.9	39.0	39.0	37.1	36.2	33.5	31.8
82.5°	30.8	29.9	29.9	29.9	29.0	28.1	28.1	27.1	26.2	24.5	22.6
85°	18.1	17.2	17.2	17.2	16.2	16.2	15.4	15.4	14.5	12.6	12.6
87.5°	5.4	5.4	6.4	6.4	5.4	5.4	5.4	5.4	5.4	4.5	4.5
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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	654.1	656.9	653.2	652.2	655.9	654.1	653.2	651.4	652.2	650.5	647.8
5°	653.2	656.9	652.2	649.6	654.1	651.4	649.6	647.8	647.8	644.1	642.4
7.5°	650.5	652.2	647.8	645.0	647.8	645.0	643.2	640.5	639.6	635.1	632.4
10°	643.2	645.0	639.6	636.0	638.8	635.1	632.4	629.6	627.9	622.4	618.8
12.5°	633.2	634.1	627.9	623.2	625.1	622.4	617.9	614.2	612.4	607.0	602.5
15°	619.6	620.6	613.4	607.0	608.8	605.1	599.8	596.1	593.4	588.0	581.6
17.5°	603.4	602.5	594.4	588.0	588.9	584.4	578.9	573.5	569.9	563.5	559.0
20°	585.2	582.5	573.5	566.2	567.1	561.8	555.4	549.9	545.4	540.0	533.6
22.5°	562.6	559.0	550.9	541.8	542.6	538.1	529.1	524.5	520.0	512.8	507.4
25°	538.1	532.8	524.5	515.5	515.5	510.0	502.8	497.4	492.9	485.6	479.2
27.5°	509.1	506.4	495.6	488.4	487.4	482.0	475.6	469.2	463.9	457.5	451.1
30°	477.5	472.9	464.8	456.6	454.8	450.2	443.9	436.6	433.0	426.8	421.2
32.5°	443.9	439.4	430.4	422.1	421.2	417.6	412.2	405.0	401.4	396.9	393.2
35°	405.9	404.0	395.0	388.6	388.6	385.0	379.6	373.2	370.5	366.0	361.5
37.5°	369.6	366.9	358.8	353.4	353.4	348.8	343.4	340.6	337.9	334.2	331.6
40°	331.6	329.8	323.4	318.0	318.9	315.2	311.6	308.0	306.2	304.4	301.6
42.5°	296.2	294.5	289.9	285.4	285.4	282.6	279.0	276.4	274.5	271.8	270.9
45°	264.5	261.9	258.2	253.6	253.6	251.0	249.1	247.4	246.4	244.6	241.9
47.5°	233.8	231.9	228.2	223.8	223.8	223.8	220.1	217.4	217.4	215.6	214.8
50°	207.5	204.8	202.0	198.4	198.4	196.6	193.9	191.1	191.1	190.2	188.5
52.5°	183.0	181.2	177.6	174.0	174.0	172.1	169.4	168.5	167.6	164.9	164.0
55°	162.1	160.4	157.6	153.1	152.2	151.2	148.6	146.8	145.9	143.1	143.1
57.5°	143.1	141.4	136.8	134.1	133.1	131.4	128.6	126.9	125.9	124.1	122.2
60°	126.9	124.1	120.5	116.9	116.0	114.1	111.4	109.6	108.8	105.1	103.2
62.5°	111.4	108.8	105.1	101.5	100.5	98.8	95.1	93.4	91.5	87.9	86.1
65°	97.0	94.2	90.6	87.0	85.1	84.2	80.6	77.9	76.1	73.4	69.8
67.5°	83.4	80.6	77.0	72.5	72.5	69.8	67.0	64.4	61.6	58.9	56.1
70°	70.6	68.0	64.4	60.8	59.8	58.0	55.2	51.6	49.9	46.2	43.5
72.5°	58.9	56.1	52.5	48.9	48.0	46.2	43.5	39.9	37.1	34.4	31.8
75°	48.0	45.2	41.6	39.0	38.0	36.2	33.5	29.9	27.1	25.4	22.6
77.5°	38.0	35.4	32.6	29.9	29.0	27.1	24.5	22.6	19.9	18.1	15.4
80°	29.0	27.1	24.5	22.6	21.8	19.9	18.1	15.4	13.6	11.8	10.9
82.5°	20.9	19.0	17.2	14.5	14.5	12.6	11.8	10.0	8.1	7.2	6.4
85°	11.8	10.0	9.0	8.1	7.2	7.2	6.4	5.4	4.5	3.6	3.6
87.5°	3.6	3.6	2.8	2.8	2.8	2.8	1.8	1.8	1.8	1.8	1.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	647.8	648.6	646.9	648.6	646.9	647.8	646.0	647.8	646.0	647.8	644.1
5°	641.4	641.4	638.8	640.5	638.8	639.6	636.0	636.9	635.1	636.9	633.2
7.5°	630.5	631.5	626.9	628.8	626.0	626.0	623.2	624.2	621.5	622.4	619.6
10°	617.9	617.0	612.4	614.2	610.6	610.6	607.9	607.9	604.2	605.1	601.5
12.5°	599.8	598.9	593.4	595.2	591.6	591.6	588.9	588.9	585.2	587.1	583.5
15°	578.9	578.0	572.6	573.5	569.9	569.9	566.2	567.1	564.4	566.2	562.6
17.5°	555.4	554.5	549.0	549.9	545.4	546.2	543.6	542.6	540.9	541.8	539.0
20°	530.9	529.1	523.6	524.5	522.8	520.0	518.2	519.1	517.2	519.1	516.4
22.5°	505.5	501.9	497.4	497.4	495.6	495.6	492.9	494.6	491.0	493.8	492.0
25°	476.5	473.9	470.2	472.0	468.4	468.4	465.6	466.6	464.8	466.6	464.8
27.5°	448.5	446.6	441.2	443.0	440.2	441.2	438.5	439.4	438.5	440.2	438.5
30°	418.5	417.6	414.0	414.0	413.1	412.2	411.2	411.2	410.4	413.1	411.2
32.5°	390.5	387.8	384.1	386.9	382.4	385.0	383.2	385.0	383.2	385.0	384.1
35°	361.5	360.6	356.0	357.0	356.0	356.0	355.1	355.1	355.1	357.9	357.9
37.5°	330.6	329.8	327.0	328.0	326.1	325.2	325.2	327.0	327.0	328.9	328.9
40°	300.8	301.6	299.0	299.0	298.1	298.1	298.1	299.9	299.0	300.8	299.9
42.5°	270.9	270.9	268.1	269.1	268.1	269.1	269.1	270.9	270.9	271.8	270.9
45°	242.8	242.8	241.9	242.8	241.0	241.9	241.0	242.8	241.9	242.8	242.8
47.5°	214.8	214.8	214.8	213.8	213.8	213.8	213.8	213.8	212.9	214.8	213.8
50°	188.5	189.4	188.5	188.5	187.5	188.5	187.5	187.5	185.8	186.6	186.6
52.5°	164.9	164.9	163.1	163.1	163.1	162.1	162.1	162.1	161.2	161.2	159.5
55°	142.2	142.2	140.4	140.4	139.5	138.6	137.8	137.8	135.0	135.0	132.2
57.5°	121.4	120.5	117.8	117.8	116.0	115.0	114.1	113.2	111.4	109.6	108.8
60°	102.4	100.5	98.8	97.9	96.0	94.2	92.4	90.6	88.8	87.9	87.0
62.5°	84.2	81.5	79.8	78.9	77.0	74.2	72.5	70.6	68.9	68.0	66.1
65°	68.0	65.2	62.5	61.6	59.8	58.0	55.2	53.5	51.6	50.8	50.8
67.5°	53.5	50.8	47.1	47.1	45.2	43.5	41.6	39.9	39.0	39.9	39.9
70°	39.9	38.0	35.4	34.4	32.6	30.8	29.9	29.9	29.9	30.8	29.9
72.5°	29.9	27.1	25.4	24.5	23.5	22.6	22.6	22.6	21.8	22.6	22.6
75°	20.9	19.0	17.2	17.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
77.5°	14.5	12.6	11.8	11.8	11.8	10.9	10.9	10.9	10.9	10.9	10.9
80°	9.0	9.0	8.1	8.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2
82.5°	5.4	5.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	2.8	2.8	2.8	2.8	2.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252442

CATALOG NUMBER: LE_6B10D010 EC6B10208035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	644.1	646.9	643.2	646.0	645.0	644.1	642.4	646.0
5°	633.2	634.1	630.5	634.1	633.2	631.5	629.6	633.2
7.5°	617.9	620.6	616.0	619.6	618.8	617.0	615.1	618.8
10°	600.6	603.4	599.8	602.5	602.5	600.6	598.0	601.5
12.5°	581.6	583.5	579.9	583.5	582.5	580.8	579.9	582.5
15°	560.8	563.5	559.9	562.6	561.8	560.8	559.9	562.6
17.5°	538.1	540.9	538.1	540.9	540.9	538.1	537.2	539.0
20°	515.5	517.2	514.6	517.2	516.4	516.4	514.6	517.2
22.5°	490.1	492.9	491.0	492.9	492.0	492.0	491.0	492.9
25°	464.8	467.5	464.8	467.5	466.6	466.6	464.8	469.2
27.5°	439.4	441.2	438.5	442.1	441.2	439.4	440.2	441.2
30°	412.2	414.0	412.2	414.9	414.9	414.9	413.1	414.9
32.5°	385.0	387.8	385.0	387.8	386.9	386.9	386.0	387.8
35°	357.9	358.8	357.0	359.6	359.6	360.6	358.8	361.5
37.5°	329.8	330.6	329.8	330.6	332.5	329.8	331.6	332.5
40°	300.8	302.6	301.6	302.6	302.6	303.5	302.6	303.5
42.5°	271.8	273.6	271.8	274.5	273.6	273.6	274.5	274.5
45°	241.9	244.6	242.8	244.6	245.5	244.6	244.6	246.4
47.5°	213.8	215.6	214.8	215.6	215.6	215.6	215.6	217.4
50°	185.8	186.6	186.6	187.5	187.5	188.5	186.6	187.5
52.5°	157.6	159.5	159.5	159.5	158.5	159.5	159.5	159.5
55°	132.2	133.1	131.4	133.1	133.1	132.2	132.2	134.1
57.5°	107.8	107.8	107.8	107.8	107.8	106.9	107.8	107.8
60°	85.1	86.1	85.1	85.1	85.1	85.1	84.2	86.1
62.5°	66.1	66.1	65.2	66.1	66.1	66.1	67.0	67.0
65°	51.6	52.5	51.6	52.5	52.5	52.5	52.5	53.5
67.5°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
70°	30.8	30.8	30.8	31.8	30.8	30.8	30.8	31.8
72.5°	22.6	22.6	22.6	22.6	22.6	22.6	23.5	23.5
75°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
77.5°	10.9	10.9	10.9	11.8	10.9	11.8	10.9	10.9
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9
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)