

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: P252343

Luminaire Tested: **LE_6B10D010 EC6B10209030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1026.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

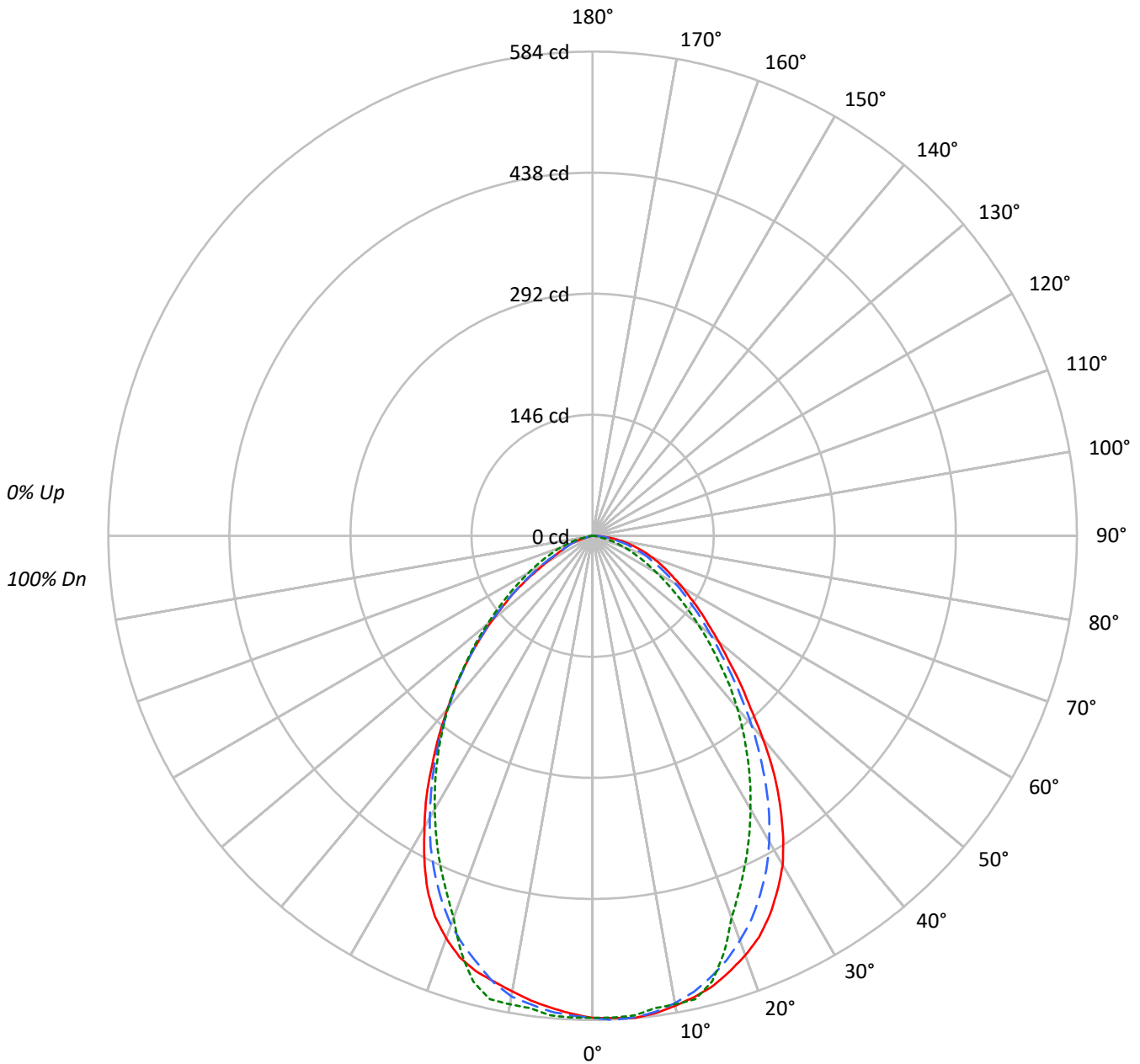
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37937	37937	37937
5°	38233	38036	37434
10°	38125	38019	36972
15°	37952	37587	36729
20°	37380	34026	35859
25°	36367	31371	33919
30°	34533	28672	30548
35°	31340	25924	26880
40°	27202	23088	23157
45°	23204	19855	19652
50°	20086	16788	15874
55°	17960	14002	12284
60°	16362	11626	8273
65°	15267	9556	6175
70°	14535	7783	5169
75°	13713	5520	1714
80°	13075	2818	564
85°	10779	1647	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	5.4
10°-20°	153.6	15.0
20°-30°	212.0	20.7
30°-40°	215.7	21.0
40°-50°	173.4	16.9
50°-60°	115.3	11.2
60°-70°	65.7	6.4
70°-80°	29.5	2.9
80°-90°	6.2	0.6
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°	420.5	41.0
0°-40°	636.2	62.0
0°-60°	924.8	90.1
0°-90°	1026.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	582	582	582	582	582	
5°	584	583	581	576	572	55
15°	562	551	556	535	544	158
25°	505	478	436	450	471	232
35°	394	363	326	332	338	245
45°	252	236	215	213	213	195
55°	158	147	123	110	108	142
65°	99	88	62	40	40	99
75°	54	45	22	9	7	58
85°	14	10	2	1	0	17
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°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	582.2	585.2	584.5	583.8	584.5	583.8	582.2	582.2	580.8	580.8	584.5
5°	583.8	585.2	584.5	583.8	583.8	584.5	581.5	581.5	580.0	579.2	583.0
7.5°	580.8	583.0	581.5	581.5	580.8	581.5	578.5	578.5	576.2	575.5	579.2
10°	575.5	578.5	577.0	577.0	577.0	575.5	573.9	573.1	570.9	570.1	572.4
12.5°	569.4	571.6	570.9	569.4	569.4	569.4	566.4	565.6	562.6	561.1	563.4
15°	561.9	563.4	562.6	561.9	560.4	560.4	557.4	555.8	552.8	549.8	551.2
17.5°	550.5	552.8	551.2	550.5	548.2	548.2	545.2	543.8	539.2	536.1	536.9
20°	538.4	539.2	538.4	536.9	534.6	533.9	530.9	527.9	524.1	520.4	519.5
22.5°	524.1	524.9	522.6	521.1	518.8	518.0	514.2	512.0	506.0	501.4	500.6
25°	505.2	506.0	506.0	502.2	500.6	499.1	495.4	491.6	486.4	480.2	478.0
27.5°	482.5	484.9	483.2	479.5	476.5	475.8	472.0	469.0	462.1	456.9	453.9
30°	458.4	457.6	456.9	454.6	450.1	449.4	445.5	441.8	436.5	429.8	425.9
32.5°	427.4	427.4	426.6	424.4	419.9	418.4	415.4	410.9	404.8	399.5	395.8
35°	393.5	394.2	393.5	388.9	385.9	384.4	382.9	377.6	372.2	366.2	363.2
37.5°	358.0	355.6	356.5	352.6	348.9	350.4	345.9	343.6	337.5	333.0	330.0
40°	319.4	321.0	317.9	316.4	314.1	311.9	311.9	308.1	305.1	299.8	298.2
42.5°	281.6	284.0	283.2	281.6	278.6	279.4	275.6	274.1	270.4	268.1	265.9
45°	251.5	251.5	251.5	250.0	249.2	247.8	245.4	243.1	240.9	237.9	236.4
47.5°	222.0	222.0	222.8	221.2	219.8	219.0	217.5	217.5	213.8	210.8	209.1
50°	197.9	197.9	197.9	196.4	194.9	194.9	193.4	191.9	189.5	187.2	185.8
52.5°	176.0	176.0	176.0	174.5	173.8	172.9	172.1	171.4	168.4	166.9	165.4
55°	157.9	157.1	157.1	156.4	154.8	154.8	154.0	152.5	150.2	148.0	147.2
57.5°	139.8	140.5	139.8	139.8	138.2	138.2	136.6	135.9	133.6	132.1	130.6
60°	125.4	125.4	125.4	124.6	123.1	123.9	122.4	121.6	119.4	117.0	115.5
62.5°	111.0	111.8	111.8	111.0	109.5	109.5	108.8	108.0	105.8	103.5	101.2
65°	98.9	98.9	98.9	98.1	97.4	97.4	96.6	95.9	93.6	90.6	88.4
67.5°	87.6	86.9	86.9	86.9	86.1	85.4	84.6	83.9	81.5	79.2	76.2
70°	76.2	76.2	76.2	75.5	74.0	74.8	74.0	73.2	71.0	68.8	66.5
72.5°	65.8	65.8	65.0	64.2	64.2	63.4	63.4	62.6	60.4	57.4	55.1
75°	54.4	54.4	54.4	54.4	52.9	53.6	52.1	51.4	49.9	47.6	45.2
77.5°	44.5	44.5	44.5	43.8	43.0	43.0	42.2	41.5	39.2	37.8	34.8
80°	34.8	34.8	34.8	34.8	34.0	33.2	32.5	31.8	30.2	28.0	25.6
82.5°	25.6	25.6	24.9	24.9	24.9	24.1	23.4	22.6	21.1	19.6	18.1
85°	14.4	15.1	15.1	13.6	14.4	13.6	13.6	12.1	12.1	10.6	9.9
87.5°	5.2	4.5	4.5	4.5	4.5	4.5	4.5	3.8	3.8	3.8	3.0
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°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	581.5	580.8	583.8	583.8	579.2	581.5	582.2	580.8	580.8	581.5	579.2
5°	580.0	578.5	581.5	582.2	577.8	580.0	580.8	579.2	580.0	580.8	577.8
7.5°	574.6	574.6	577.0	577.8	573.1	575.5	575.5	573.9	574.6	574.6	572.4
10°	569.4	567.1	569.4	569.4	565.6	566.4	567.9	567.1	570.1	573.9	573.9
12.5°	559.6	557.4	561.1	561.1	558.9	561.9	565.6	567.9	570.9	572.4	567.9
15°	547.5	548.2	555.0	560.4	558.1	562.6	566.4	564.9	561.1	556.5	549.8
17.5°	531.6	529.4	535.4	538.4	535.4	536.9	540.0	536.9	530.9	527.1	518.0
20°	513.5	507.5	507.5	506.0	500.6	500.6	499.9	494.6	492.4	490.1	486.4
22.5°	493.1	486.4	484.1	479.5	475.0	474.2	472.0	466.8	463.6	462.1	457.6
25°	469.8	463.6	459.9	455.4	448.6	447.0	444.8	439.5	438.0	435.8	432.0
27.5°	445.5	438.0	432.8	428.1	422.1	421.4	416.9	413.1	410.0	408.5	405.5
30°	417.6	409.2	405.5	399.5	395.0	393.5	389.6	384.4	382.1	380.6	378.4
32.5°	386.6	379.9	376.1	370.8	364.8	365.5	361.0	356.5	354.9	353.4	351.1
35°	356.5	349.6	345.1	340.6	336.8	335.2	332.2	328.5	326.2	325.5	324.0
37.5°	323.2	317.9	314.1	309.6	306.6	305.1	303.6	299.8	298.2	298.2	295.2
40°	290.8	286.2	283.2	280.9	277.1	276.4	274.9	272.6	271.9	271.1	268.9
42.5°	261.2	255.2	253.0	251.5	249.2	247.8	247.0	245.4	244.6	243.9	241.6
45°	233.4	228.0	225.8	224.2	222.0	221.2	220.5	218.2	216.8	215.2	214.5
47.5°	206.1	202.4	201.6	197.9	196.4	194.9	193.4	191.9	191.0	190.2	187.2
50°	182.8	180.5	176.8	174.5	172.9	172.1	169.1	166.9	166.1	165.4	163.1
52.5°	161.6	158.6	156.4	152.5	151.8	150.2	148.8	145.8	144.2	143.5	141.2
55°	142.8	140.5	137.5	134.4	132.1	131.4	129.1	126.1	124.6	123.1	121.6
57.5°	126.9	123.1	120.1	117.0	115.5	113.2	111.0	109.5	107.2	105.0	102.8
60°	111.8	108.8	105.0	102.0	100.5	98.9	95.9	93.6	91.4	89.1	86.9
62.5°	97.4	94.4	90.6	87.6	86.1	84.6	81.5	79.2	77.0	74.8	71.8
65°	84.6	81.5	78.5	75.5	74.0	72.5	69.5	66.5	64.2	61.9	58.9
67.5°	74.0	70.2	67.2	64.2	62.6	61.1	58.1	55.9	52.9	50.6	47.6
70°	62.6	59.6	57.4	54.4	52.9	51.4	48.4	45.2	43.0	40.8	37.8
72.5°	52.9	49.1	46.9	43.8	42.2	41.5	38.5	36.2	34.0	31.0	28.8
75°	42.2	39.2	36.2	34.0	32.5	31.8	28.8	26.4	24.1	21.9	19.6
77.5°	32.5	30.2	27.1	24.9	23.4	22.6	19.6	17.4	15.1	13.6	11.4
80°	24.1	21.1	19.6	17.4	16.6	15.1	13.6	11.4	9.9	7.5	6.0
82.5°	16.6	14.4	12.9	11.4	10.6	9.9	8.2	6.8	5.2	4.5	3.8
85°	9.0	7.5	6.8	6.0	5.2	5.2	4.5	3.8	3.0	2.2	1.5
87.5°	3.0	2.2	2.2	2.2	2.2	1.5	1.5	1.5	0.8	0.8	0.8
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°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	580.8	580.8	580.8	580.0	580.0	580.0	579.2	582.2	579.2	578.5	580.8
5°	580.0	578.5	578.5	578.5	578.5	577.8	577.0	578.5	576.2	575.5	575.5
7.5°	575.5	574.6	574.6	573.9	573.1	572.4	571.6	572.4	570.1	569.4	569.4
10°	576.2	574.6	574.6	572.4	570.9	568.6	566.4	567.1	564.1	561.9	561.9
12.5°	567.1	563.4	561.1	558.9	557.4	556.5	553.5	555.0	552.0	551.2	551.2
15°	546.8	542.2	538.4	536.9	536.9	535.4	533.1	536.1	534.6	535.4	539.2
17.5°	515.0	512.8	510.5	509.8	510.5	512.0	513.5	518.0	518.0	520.4	524.1
20°	487.1	485.6	487.1	487.1	487.9	490.9	493.9	497.6	499.1	501.4	506.8
22.5°	459.9	459.9	461.4	463.6	462.9	468.2	469.0	475.8	475.8	480.2	484.9
25°	433.5	433.5	435.0	435.8	437.2	440.2	443.2	448.6	450.1	454.6	458.4
27.5°	407.8	407.0	407.0	407.8	409.2	413.1	414.6	420.6	422.9	425.9	429.8
30°	379.1	378.4	379.9	381.4	380.6	384.4	386.6	391.1	392.8	395.8	398.8
32.5°	351.9	351.9	351.9	353.4	353.4	356.5	356.5	361.8	361.8	364.0	367.0
35°	324.0	324.0	324.8	325.5	326.2	327.0	327.8	330.8	331.5	332.2	333.8
37.5°	297.5	296.8	297.5	297.5	296.0	299.0	299.0	302.1	299.8	302.1	302.9
40°	270.4	270.4	269.6	269.6	269.6	271.1	269.6	271.9	270.4	271.9	271.1
42.5°	242.4	242.4	240.9	242.4	241.6	241.6	241.6	243.1	240.9	242.4	243.1
45°	214.5	213.8	213.8	213.0	213.0	213.0	213.8	213.8	213.0	214.5	214.5
47.5°	187.2	186.5	186.5	186.5	186.5	187.2	185.0	186.5	185.0	185.0	185.0
50°	163.9	163.1	162.4	161.6	160.9	160.9	160.1	160.1	158.6	157.9	157.1
52.5°	141.2	140.5	139.0	139.0	138.2	137.5	135.1	135.1	132.9	132.1	132.1
55°	120.9	118.5	117.8	116.2	116.2	114.8	113.2	111.8	109.5	108.0	108.0
57.5°	102.0	99.6	98.1	97.4	96.6	95.1	92.1	91.4	88.4	87.6	86.9
60°	85.4	83.1	80.8	79.2	78.5	76.2	73.2	71.8	70.2	68.0	65.8
62.5°	69.5	67.2	64.2	63.4	61.9	59.6	57.4	55.1	53.6	51.4	49.9
65°	55.9	53.6	51.4	49.9	48.4	46.1	43.8	41.5	40.0	39.2	38.5
67.5°	45.2	42.2	40.0	39.2	37.8	36.2	34.0	33.2	31.8	31.8	31.8
70°	35.5	33.2	31.0	30.2	29.5	28.0	26.4	26.4	26.4	26.4	26.4
72.5°	26.4	24.9	22.6	21.9	21.1	20.4	18.9	19.6	18.9	18.9	18.9
75°	16.6	15.1	13.6	12.9	12.1	11.4	10.6	9.9	9.0	8.2	8.2
77.5°	9.0	7.5	6.8	6.0	6.0	5.2	4.5	4.5	3.8	3.8	3.8
80°	5.2	4.5	3.8	3.0	3.0	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	3.0	2.2	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
85°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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CATALOG NUMBER: LE_6B10D010 EC6B10209030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	577.0	579.2	577.0	579.2	579.2	579.2	579.2	577.0
5°	573.1	574.6	572.4	573.9	574.6	573.9	573.9	571.6
7.5°	566.4	567.9	565.6	567.9	568.6	567.9	567.1	565.6
10°	559.6	560.4	558.1	559.6	561.1	561.1	560.4	558.1
12.5°	549.0	551.2	549.0	550.5	552.0	552.8	552.8	550.5
15°	536.9	540.8	539.2	541.5	543.8	544.5	544.5	543.8
17.5°	524.9	528.6	526.4	530.1	532.4	533.9	534.6	533.1
20°	507.5	512.0	510.5	513.5	516.5	518.8	518.8	516.5
22.5°	484.9	490.9	490.1	492.4	496.1	496.9	498.4	496.9
25°	459.9	464.4	463.6	466.0	470.5	470.5	471.2	471.2
27.5°	431.2	435.8	435.0	436.5	439.5	440.2	441.0	439.5
30°	400.2	402.5	402.5	404.8	407.0	407.8	407.8	405.5
32.5°	366.2	369.2	370.8	370.0	372.2	373.8	373.0	373.0
35°	335.2	336.0	336.8	337.5	338.4	339.9	338.4	337.5
37.5°	302.1	304.4	302.9	304.4	305.9	305.1	304.4	304.4
40°	271.9	272.6	271.1	272.6	273.4	273.4	273.4	271.9
42.5°	241.6	243.1	241.6	243.1	243.1	243.1	243.1	242.4
45°	211.5	213.0	213.0	213.8	213.8	213.0	213.0	213.0
47.5°	183.5	185.0	183.5	185.0	185.8	184.2	184.2	184.2
50°	157.1	156.4	156.4	157.1	157.1	157.1	157.1	156.4
52.5°	129.9	130.6	130.6	130.6	131.4	130.6	131.4	131.4
55°	106.5	106.5	106.5	107.2	106.5	106.5	107.2	108.0
57.5°	85.4	84.6	83.9	83.9	84.6	83.9	83.9	83.9
60°	65.8	65.0	64.2	64.2	64.2	64.2	64.2	63.4
62.5°	49.1	49.1	49.1	49.9	49.9	49.9	49.9	50.6
65°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	40.0
67.5°	31.8	31.8	31.8	32.5	32.5	32.5	32.5	32.5
70°	26.4	26.4	27.1	26.4	27.1	27.1	27.1	27.1
72.5°	18.1	18.1	18.1	18.1	18.1	17.4	18.1	17.4
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.8
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
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)