

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: P252446

Luminaire Tested: **LE_6B10D010 EC6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252446
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 EC6B10209027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.3 lumens
Efficiency: N/A
Efficacy: 92.6 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

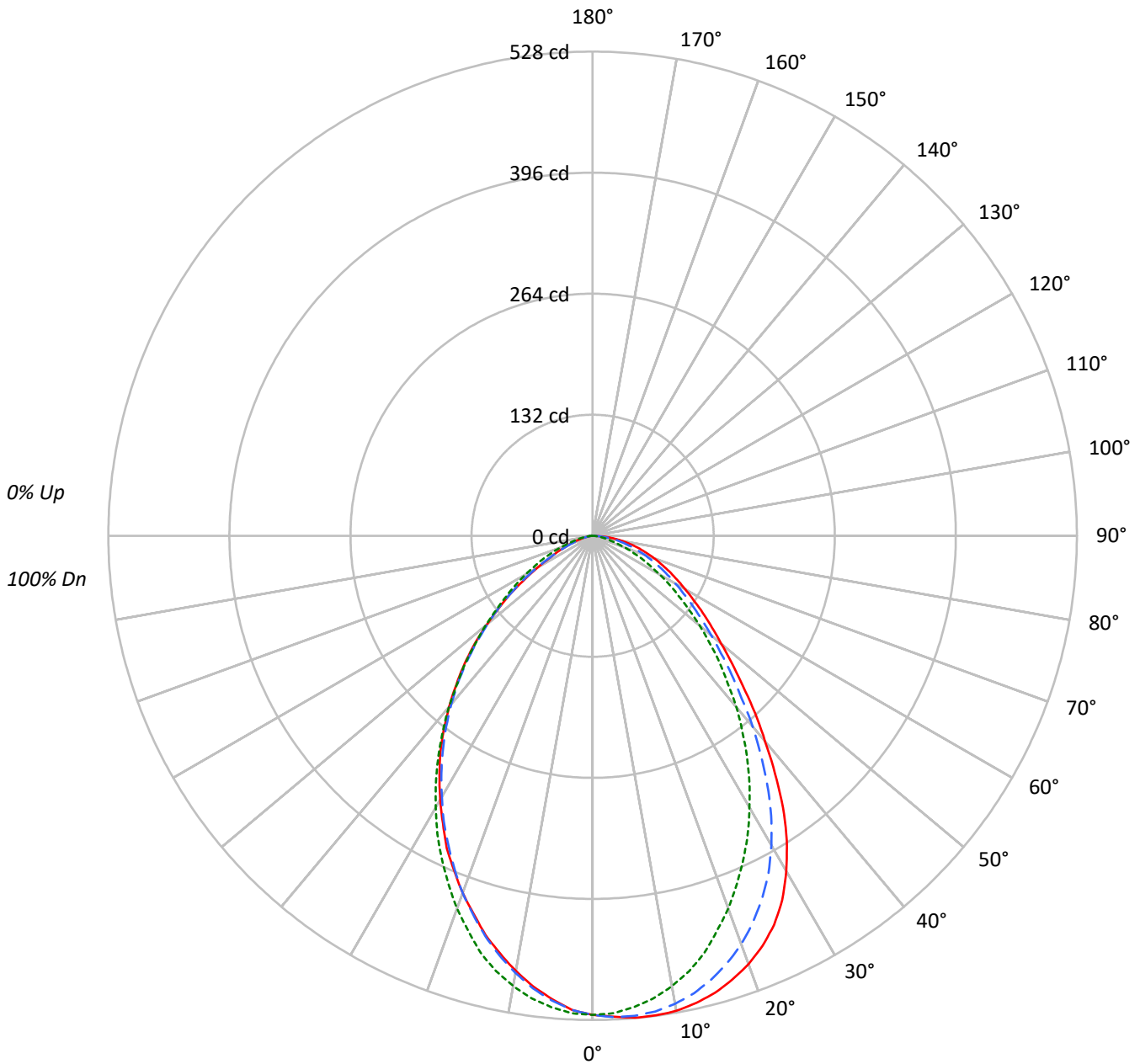
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34088	34088	34088
5°	34552	33793	33216
10°	34853	33031	31924
15°	34852	31812	30448
20°	34512	30027	28771
25°	33696	28002	27066
30°	31821	25756	25041
35°	28839	23352	23065
40°	24911	20772	20704
45°	21359	18084	18213
50°	18564	15468	15245
55°	16675	13035	12216
60°	15149	10973	9003
65°	14218	9077	6623
70°	13562	7058	4845
75°	12982	5142	3302
80°	12248	3532	2179
85°	10854	2171	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	5.3
10°-20°	133.9	14.5
20°-30°	185.9	20.1
30°-40°	192.5	20.8
40°-50°	158.2	17.1
50°-60°	108.7	11.7
60°-70°	62.5	6.7
70°-80°	28.7	3.1
80°-90°	7.0	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°	368.6	39.8
0°-40°	561.1	60.6
0°-60°	828.0	89.4
0°-90°	926.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	522	522	522	522	522	
5°	528	526	516	509	507	50
15°	516	501	471	452	451	145
25°	468	437	389	372	376	214
35°	362	332	293	284	290	225
45°	232	214	196	194	197	180
55°	147	133	115	108	107	132
65°	92	80	59	41	43	92
75°	52	41	20	13	13	54
85°	14	10	3	2	2	16
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°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	524.8	529.1	526.1	525.5	526.9	526.9	526.9	524.8	526.1	524.0	525.5
5°	527.6	531.2	528.4	526.9	528.4	529.1	526.9	525.5	527.6	524.8	525.5
7.5°	527.6	531.2	528.4	527.6	528.4	528.4	527.6	524.8	526.1	523.2	523.2
10°	526.1	529.1	526.1	524.8	525.5	524.8	524.8	521.1	521.9	518.2	518.2
12.5°	521.9	525.5	521.9	520.4	520.4	520.4	518.2	515.2	516.0	511.6	510.9
15°	516.0	518.9	515.2	513.9	513.9	513.1	511.6	507.2	507.2	503.0	500.8
17.5°	507.2	510.2	507.2	505.1	504.4	503.0	501.5	497.1	495.8	490.6	488.4
20°	497.1	499.4	496.4	494.2	492.8	491.4	488.4	484.1	482.6	477.5	473.9
22.5°	484.1	487.0	482.6	480.5	479.0	476.9	473.9	469.5	467.4	460.9	456.5
25°	468.1	469.5	465.9	463.8	460.9	459.4	457.2	451.4	449.2	442.0	436.9
27.5°	447.8	449.2	444.9	443.4	439.8	438.4	435.5	430.4	427.5	420.2	415.1
30°	422.4	423.9	420.9	418.8	415.9	413.0	410.8	405.8	401.4	394.1	389.8
32.5°	394.1	396.2	393.4	390.5	385.4	386.1	382.5	377.4	373.8	367.2	362.1
35°	362.1	363.6	360.0	359.2	356.4	353.5	349.9	346.1	344.0	336.8	332.4
37.5°	326.6	330.2	326.6	323.6	322.2	320.0	317.9	312.8	311.4	307.0	301.1
40°	292.5	294.6	292.5	289.6	287.4	287.4	284.5	281.6	278.0	273.6	271.4
42.5°	262.0	260.5	259.9	258.4	255.5	254.8	254.0	250.4	248.2	243.9	240.2
45°	231.5	232.2	230.8	230.1	227.9	226.4	225.0	222.1	221.4	217.0	214.1
47.5°	206.1	205.4	203.9	203.9	202.5	201.0	199.6	197.4	196.6	193.0	190.1
50°	182.9	183.6	182.9	182.1	180.0	179.2	177.8	176.4	174.9	171.2	168.4
52.5°	164.0	163.2	162.6	162.6	160.4	159.6	158.2	156.8	155.2	151.6	149.5
55°	146.6	146.6	145.9	145.1	143.0	142.2	141.5	140.1	137.9	135.0	132.9
57.5°	130.6	130.6	129.9	129.1	127.8	127.8	126.2	124.9	123.4	120.5	117.6
60°	116.1	116.9	116.1	115.4	114.0	114.0	113.2	111.0	110.4	106.6	104.5
62.5°	103.8	103.8	103.8	103.0	102.4	100.9	100.9	98.8	97.2	95.1	92.1
65°	92.1	92.1	92.1	91.5	90.0	89.2	88.5	87.1	85.6	83.5	80.5
67.5°	81.2	81.2	81.2	80.5	79.1	78.4	77.6	76.9	74.8	72.6	69.6
70°	71.1	71.1	70.4	69.6	69.0	68.2	67.5	66.0	64.6	61.8	59.5
72.5°	61.0	61.0	61.0	59.5	58.8	58.8	57.4	56.6	55.1	52.2	50.1
75°	51.5	50.8	50.8	50.1	49.4	48.6	47.9	47.1	45.0	43.5	40.6
77.5°	42.1	42.1	41.4	40.6	40.6	39.9	39.2	37.8	37.0	34.9	32.6
80°	32.6	32.6	32.6	32.6	31.9	31.2	31.2	29.8	29.0	26.9	25.4
82.5°	24.6	24.0	24.0	24.0	23.2	22.5	22.5	21.8	21.0	19.6	18.1
85°	14.5	13.8	13.8	13.8	13.1	13.1	12.4	12.4	11.6	10.1	10.1
87.5°	4.4	4.4	5.1	5.1	4.4	4.4	4.4	4.4	4.4	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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	524.0	526.1	523.2	522.5	525.5	524.0	523.2	521.9	522.5	521.1	518.9
5°	523.2	526.1	522.5	520.4	524.0	521.9	520.4	518.9	518.9	516.0	514.5
7.5°	521.1	522.5	518.9	516.8	518.9	516.8	515.2	513.1	512.4	508.8	506.6
10°	515.2	516.8	512.4	509.5	511.6	508.8	506.6	504.4	503.0	498.6	495.8
12.5°	507.2	508.0	503.0	499.4	500.8	498.6	495.0	492.0	490.6	486.2	482.6
15°	496.4	497.1	491.4	486.2	487.8	484.8	480.5	477.5	475.4	471.0	465.9
17.5°	483.4	482.6	476.1	471.0	471.8	468.1	463.8	459.4	456.5	451.4	447.8
20°	468.9	466.6	459.4	453.6	454.4	450.0	444.9	440.5	436.9	432.5	427.5
22.5°	450.8	447.8	441.2	434.0	434.8	431.1	423.9	420.2	416.6	410.8	406.4
25°	431.1	426.8	420.2	413.0	413.0	408.6	402.8	398.5	394.8	389.0	383.9
27.5°	407.9	405.8	397.0	391.1	390.5	386.1	381.0	376.0	371.6	366.5	361.4
30°	382.5	378.9	372.2	365.8	364.4	360.8	355.6	349.9	346.9	341.9	337.5
32.5°	355.6	352.0	344.8	338.2	337.5	334.6	330.2	324.4	321.5	317.9	315.0
35°	325.1	323.6	316.4	311.4	311.4	308.5	304.1	299.0	296.9	293.2	289.6
37.5°	296.1	293.9	287.4	283.0	283.0	279.4	275.0	272.9	270.8	267.8	265.6
40°	265.6	264.1	259.1	254.8	255.5	252.5	249.6	246.8	245.2	243.9	241.6
42.5°	237.4	235.9	232.2	228.6	228.6	226.4	223.5	221.4	219.9	217.8	217.0
45°	211.9	209.8	206.9	203.2	203.2	201.0	199.6	198.1	197.4	196.0	193.8
47.5°	187.2	185.8	182.9	179.2	179.2	179.2	176.4	174.1	174.1	172.8	172.0
50°	166.2	164.0	161.9	159.0	159.0	157.5	155.2	153.1	153.1	152.4	151.0
52.5°	146.6	145.1	142.2	139.4	139.4	137.9	135.8	135.0	134.2	132.1	131.4
55°	129.9	128.5	126.2	122.6	121.9	121.2	119.0	117.6	116.9	114.6	114.6
57.5°	114.6	113.2	109.6	107.4	106.6	105.2	103.0	101.6	100.9	99.4	98.0
60°	101.6	99.4	96.5	93.6	92.9	91.5	89.2	87.9	87.1	84.1	82.8
62.5°	89.2	87.1	84.1	81.2	80.5	79.1	76.2	74.8	73.2	70.4	69.0
65°	77.6	75.5	72.6	69.6	68.2	67.5	64.6	62.4	61.0	58.8	55.9
67.5°	66.8	64.6	61.8	58.0	58.0	55.9	53.8	51.5	49.4	47.1	45.0
70°	56.6	54.4	51.5	48.6	47.9	46.5	44.2	41.4	39.9	37.0	34.9
72.5°	47.1	45.0	42.1	39.2	38.5	37.0	34.9	31.9	29.8	27.6	25.4
75°	38.5	36.2	33.4	31.2	30.5	29.0	26.9	24.0	21.8	20.4	18.1
77.5°	30.5	28.2	26.1	24.0	23.2	21.8	19.6	18.1	16.0	14.5	12.4
80°	23.2	21.8	19.6	18.1	17.4	16.0	14.5	12.4	10.9	9.4	8.8
82.5°	16.8	15.2	13.8	11.6	11.6	10.1	9.4	8.0	6.5	5.8	5.1
85°	9.4	8.0	7.2	6.5	5.8	5.8	5.1	4.4	3.6	2.9	2.9
87.5°	2.9	2.9	2.1	2.1	2.1	2.1	1.5	1.5	1.5	1.5	1.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	518.9	519.6	518.2	519.6	518.2	518.9	517.5	518.9	517.5	518.9	516.0
5°	513.9	513.9	511.6	513.1	511.6	512.4	509.5	510.2	508.8	510.2	507.2
7.5°	505.1	505.9	502.2	503.6	501.5	501.5	499.4	500.0	497.9	498.6	496.4
10°	495.0	494.2	490.6	492.0	489.1	489.1	487.0	487.0	484.1	484.8	481.9
12.5°	480.5	479.8	475.4	476.9	473.9	473.9	471.8	471.8	468.9	470.2	467.4
15°	463.8	463.0	458.6	459.4	456.5	456.5	453.6	454.4	452.1	453.6	450.8
17.5°	444.9	444.1	439.8	440.5	436.9	437.6	435.5	434.8	433.2	434.0	431.9
20°	425.2	423.9	419.5	420.2	418.8	416.6	415.1	415.9	414.4	415.9	413.6
22.5°	405.0	402.1	398.5	398.5	397.0	397.0	394.8	396.2	393.4	395.5	394.1
25°	381.8	379.6	376.6	378.1	375.2	375.2	373.0	373.8	372.2	373.8	372.2
27.5°	359.2	357.8	353.5	354.9	352.8	353.5	351.2	352.0	351.2	352.8	351.2
30°	335.2	334.6	331.6	331.6	331.0	330.2	329.5	329.5	328.8	331.0	329.5
32.5°	312.8	310.6	307.8	309.9	306.2	308.5	307.0	308.5	307.0	308.5	307.8
35°	289.6	288.9	285.2	286.0	285.2	285.2	284.5	284.5	284.5	286.6	286.6
37.5°	264.9	264.1	262.0	262.8	261.2	260.5	260.5	262.0	262.0	263.5	263.5
40°	241.0	241.6	239.5	239.5	238.8	238.8	238.8	240.2	239.5	241.0	240.2
42.5°	217.0	217.0	214.9	215.5	214.9	215.5	215.5	217.0	217.0	217.8	217.0
45°	194.5	194.5	193.8	194.5	193.0	193.8	193.0	194.5	193.8	194.5	194.5
47.5°	172.0	172.0	172.0	171.2	171.2	171.2	171.2	171.2	170.5	172.0	171.2
50°	151.0	151.6	151.0	151.0	150.2	151.0	150.2	150.2	148.8	149.5	149.5
52.5°	132.1	132.1	130.6	130.6	130.6	129.9	129.9	129.9	129.1	129.1	127.8
55°	114.0	114.0	112.5	112.5	111.8	111.0	110.4	110.4	108.1	108.1	106.0
57.5°	97.2	96.5	94.4	94.4	92.9	92.1	91.5	90.8	89.2	87.9	87.1
60°	82.0	80.5	79.1	78.4	76.9	75.5	74.0	72.6	71.1	70.4	69.6
62.5°	67.5	65.4	63.9	63.1	61.8	59.5	58.0	56.6	55.1	54.4	53.0
65°	54.4	52.2	50.1	49.4	47.9	46.5	44.2	42.9	41.4	40.6	40.6
67.5°	42.9	40.6	37.8	37.8	36.2	34.9	33.4	31.9	31.2	31.9	31.9
70°	31.9	30.5	28.2	27.6	26.1	24.6	24.0	24.0	24.0	24.6	24.0
72.5°	24.0	21.8	20.4	19.6	18.9	18.1	18.1	18.1	17.4	18.1	18.1
75°	16.8	15.2	13.8	13.8	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	11.6	10.1	9.4	9.4	9.4	8.8	8.8	8.8	8.8	8.8	8.8
80°	7.2	7.2	6.5	6.5	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	4.4	4.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5
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: P252446

CATALOG NUMBER: LE_6B10D010 EC6B10209027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	516.0	518.2	515.2	517.5	516.8	516.0	514.5	517.5
5°	507.2	508.0	505.1	508.0	507.2	505.9	504.4	507.2
7.5°	495.0	497.1	493.5	496.4	495.8	494.2	492.8	495.8
10°	481.1	483.4	480.5	482.6	482.6	481.1	479.0	481.9
12.5°	465.9	467.4	464.5	467.4	466.6	465.2	464.5	466.6
15°	449.2	451.4	448.5	450.8	450.0	449.2	448.5	450.8
17.5°	431.1	433.2	431.1	433.2	433.2	431.1	430.4	431.9
20°	413.0	414.4	412.2	414.4	413.6	413.6	412.2	414.4
22.5°	392.6	394.8	393.4	394.8	394.1	394.1	393.4	394.8
25°	372.2	374.5	372.2	374.5	373.8	373.8	372.2	376.0
27.5°	352.0	353.5	351.2	354.1	353.5	352.0	352.8	353.5
30°	330.2	331.6	330.2	332.4	332.4	332.4	331.0	332.4
32.5°	308.5	310.6	308.5	310.6	309.9	309.9	309.1	310.6
35°	286.6	287.4	286.0	288.1	288.1	288.9	287.4	289.6
37.5°	264.1	264.9	264.1	264.9	266.4	264.1	265.6	266.4
40°	241.0	242.4	241.6	242.4	242.4	243.1	242.4	243.1
42.5°	217.8	219.1	217.8	219.9	219.1	219.1	219.9	219.9
45°	193.8	196.0	194.5	196.0	196.6	196.0	196.0	197.4
47.5°	171.2	172.8	172.0	172.8	172.8	172.8	172.8	174.1
50°	148.8	149.5	149.5	150.2	150.2	151.0	149.5	150.2
52.5°	126.2	127.8	127.8	127.8	127.0	127.8	127.8	127.8
55°	106.0	106.6	105.2	106.6	106.6	106.0	106.0	107.4
57.5°	86.4	86.4	86.4	86.4	86.4	85.6	86.4	86.4
60°	68.2	69.0	68.2	68.2	68.2	68.2	67.5	69.0
62.5°	53.0	53.0	52.2	53.0	53.0	53.0	53.8	53.8
65°	41.4	42.1	41.4	42.1	42.1	42.1	42.1	42.9
67.5°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
70°	24.6	24.6	24.6	25.4	24.6	24.6	24.6	25.4
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.9	18.9
75°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	8.8	8.8	8.8	9.4	8.8	9.4	8.8	8.8
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)