

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: P252447

Luminaire Tested: **LE\_6B10D010 EC6B10209030 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252447  
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 EC6B10209030 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.7 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

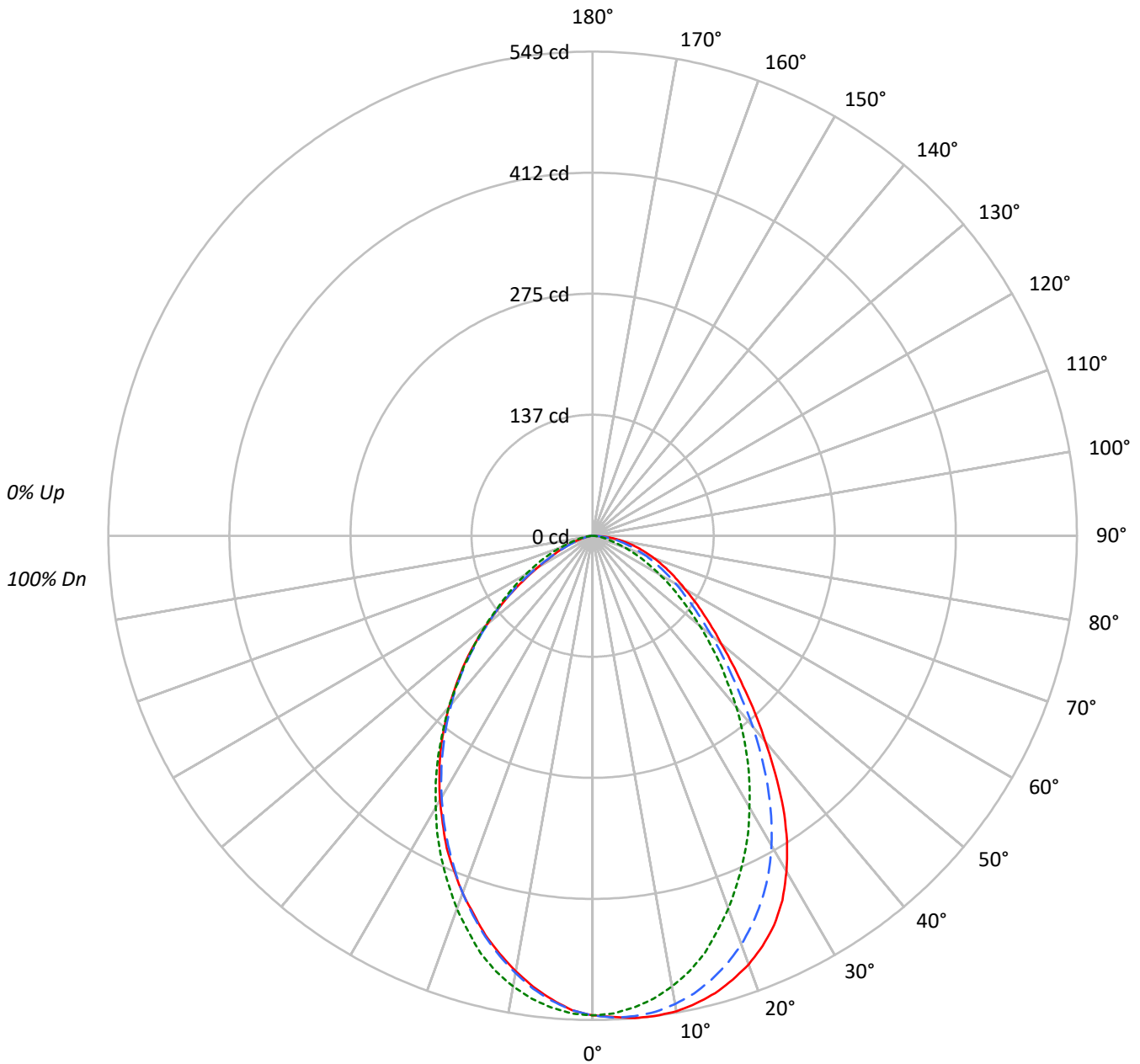
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	35478	35478	35478
5°	35954	35161	34572
10°	36270	34369	33216
15°	36263	33102	31677
20°	35908	31242	29930
25°	35064	29140	28153
30°	33109	26789	26058
35°	30018	24299	23989
40°	25924	21615	21547
45°	22226	18813	18951
50°	19305	16097	15874
55°	17346	13558	12717
60°	15775	11430	9369
65°	14804	9432	6870
70°	14116	7344	5036
75°	13511	5319	3428
80°	12774	3719	2254
85°	11303	2246	1123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	5.3
10°-20°	139.3	14.5
20°-30°	193.4	20.1
30°-40°	200.3	20.8
40°-50°	164.6	17.1
50°-60°	113.1	11.7
60°-70°	65.0	6.7
70°-80°	29.9	3.1
80°-90°	7.3	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°	383.5	39.8
0°-40°	583.8	60.6
0°-60°	861.5	89.4
0°-90°	963.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	544	544	544	544	544	
5°	549	547	537	529	528	52
15°	537	521	490	470	469	151
25°	487	455	405	387	391	223
35°	377	346	305	296	301	234
45°	241	223	204	202	205	188
55°	152	138	119	112	112	137
65°	96	84	61	43	44	95
75°	54	42	21	14	14	57
85°	15	11	3	2	2	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°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	546.0	550.5	547.5	546.8	548.2	548.2	548.2	546.0	547.5	545.2	546.8
5°	549.0	552.8	549.8	548.2	549.8	550.5	548.2	546.8	549.0	546.0	546.8
7.5°	549.0	552.8	549.8	549.0	549.8	549.8	549.0	546.0	547.5	544.5	544.5
10°	547.5	550.5	547.5	546.0	546.8	546.0	546.0	542.1	543.0	539.1	539.1
12.5°	543.0	546.8	543.0	541.4	541.4	541.4	539.1	536.1	536.9	532.4	531.6
15°	536.9	539.9	536.1	534.6	534.6	533.9	532.4	527.9	527.9	523.2	521.0
17.5°	527.9	530.9	527.9	525.6	524.9	523.2	521.8	517.2	515.8	510.5	508.2
20°	517.2	519.5	516.5	514.2	512.8	511.2	508.2	503.6	502.1	496.9	493.1
22.5°	503.6	506.8	502.1	499.9	498.4	496.1	493.1	488.6	486.2	479.5	475.0
25°	487.1	488.6	484.8	482.5	479.5	478.0	475.8	469.8	467.4	459.9	454.6
27.5°	465.9	467.4	462.9	461.4	457.6	456.1	453.1	447.8	444.8	437.2	432.0
30°	439.5	441.0	438.0	435.8	432.8	429.6	427.4	422.1	417.6	410.0	405.5
32.5°	410.0	412.2	409.2	406.2	401.0	401.8	398.0	392.6	388.9	382.1	376.9
35°	376.9	378.4	374.5	373.8	370.8	367.8	364.0	360.2	357.9	350.4	345.9
37.5°	339.8	343.6	339.8	336.8	335.2	333.0	330.8	325.5	324.0	319.4	313.4
40°	304.4	306.6	304.4	301.2	299.0	299.0	296.0	293.0	289.2	284.6	282.4
42.5°	272.6	271.1	270.4	268.9	265.8	265.0	264.2	260.5	258.2	253.8	250.0
45°	240.9	241.6	240.1	239.4	237.1	235.6	234.1	231.1	230.4	225.8	222.8
47.5°	214.5	213.8	212.2	212.2	210.6	209.1	207.6	205.4	204.6	200.9	197.9
50°	190.2	191.0	190.2	189.5	187.2	186.5	185.0	183.5	182.0	178.2	175.2
52.5°	170.6	169.9	169.1	169.1	166.9	166.1	164.6	163.1	161.6	157.9	155.5
55°	152.5	152.5	151.8	151.0	148.8	148.0	147.2	145.8	143.5	140.5	138.2
57.5°	135.9	135.9	135.1	134.4	132.9	132.9	131.4	129.9	128.4	125.4	122.4
60°	120.9	121.6	120.9	120.1	118.5	118.5	117.8	115.5	114.8	111.0	108.8
62.5°	108.0	108.0	108.0	107.2	106.5	105.0	105.0	102.8	101.2	98.9	95.9
65°	95.9	95.9	95.9	95.1	93.6	92.9	92.1	90.6	89.1	86.9	83.9
67.5°	84.6	84.6	84.6	83.9	82.2	81.5	80.8	80.0	77.8	75.5	72.5
70°	74.0	74.0	73.2	72.5	71.8	71.0	70.2	68.8	67.2	64.1	61.9
72.5°	63.4	63.4	63.4	61.9	61.1	61.1	59.6	58.9	57.4	54.4	52.1
75°	53.6	52.9	52.9	52.1	51.4	50.6	49.9	49.1	46.9	45.2	42.2
77.5°	43.8	43.8	43.0	42.2	42.2	41.5	40.8	39.2	38.5	36.2	34.0
80°	34.0	34.0	34.0	34.0	33.2	32.5	32.5	31.0	30.2	28.0	26.4
82.5°	25.6	24.9	24.9	24.9	24.1	23.4	23.4	22.6	21.9	20.4	18.9
85°	15.1	14.4	14.4	14.4	13.6	13.6	12.9	12.9	12.1	10.6	10.6
87.5°	4.5	4.5	5.2	5.2	4.5	4.5	4.5	4.5	4.5	3.8	3.8
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°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	545.2	547.5	544.5	543.8	546.8	545.2	544.5	543.0	543.8	542.1	539.9
5°	544.5	547.5	543.8	541.4	545.2	543.0	541.4	539.9	539.9	536.9	535.4
7.5°	542.1	543.8	539.9	537.6	539.9	537.6	536.1	533.9	533.1	529.4	527.1
10°	536.1	537.6	533.1	530.1	532.4	529.4	527.1	524.9	523.2	518.8	515.8
12.5°	527.9	528.6	523.2	519.5	521.0	518.8	515.0	512.0	510.5	506.0	502.1
15°	516.5	517.2	511.2	506.0	507.5	504.4	499.9	496.9	494.6	490.1	484.8
17.5°	502.9	502.1	495.4	490.1	490.9	487.1	482.5	478.0	475.0	469.8	465.9
20°	487.9	485.5	478.0	472.0	472.8	468.1	462.9	458.4	454.6	450.0	444.8
22.5°	469.0	465.9	459.1	451.6	452.4	448.5	441.0	437.2	433.5	427.4	422.9
25°	448.5	444.0	437.2	429.6	429.6	425.1	419.1	414.6	410.8	404.8	399.5
27.5°	424.4	422.1	413.0	407.0	406.2	401.8	396.5	391.1	386.6	381.4	376.0
30°	398.0	394.1	387.4	380.6	379.1	375.2	370.0	364.0	361.0	355.6	351.1
32.5°	370.0	366.2	358.8	351.9	351.1	348.1	343.6	337.5	334.5	330.8	327.8
35°	338.2	336.8	329.2	324.0	324.0	320.9	316.4	311.1	308.9	305.1	301.2
37.5°	308.1	305.9	299.0	294.5	294.5	290.8	286.2	283.9	281.6	278.6	276.4
40°	276.4	274.9	269.6	265.0	265.8	262.8	259.8	256.8	255.2	253.8	251.5
42.5°	246.9	245.4	241.6	237.9	237.9	235.6	232.6	230.4	228.8	226.5	225.8
45°	220.5	218.2	215.2	211.5	211.5	209.1	207.6	206.1	205.4	203.9	201.6
47.5°	194.9	193.4	190.2	186.5	186.5	186.5	183.5	181.2	181.2	179.8	179.0
50°	172.9	170.6	168.4	165.4	165.4	163.9	161.6	159.4	159.4	158.6	157.1
52.5°	152.5	151.0	148.0	145.0	145.0	143.5	141.2	140.5	139.8	137.4	136.6
55°	135.1	133.6	131.4	127.6	126.9	126.1	123.9	122.4	121.6	119.2	119.2
57.5°	119.2	117.8	114.0	111.8	111.0	109.5	107.2	105.8	105.0	103.5	102.0
60°	105.8	103.5	100.4	97.4	96.6	95.1	92.9	91.4	90.6	87.6	86.1
62.5°	92.9	90.6	87.6	84.6	83.9	82.2	79.2	77.8	76.2	73.2	71.8
65°	80.8	78.5	75.5	72.5	71.0	70.2	67.2	65.0	63.4	61.1	58.1
67.5°	69.5	67.2	64.1	60.4	60.4	58.1	55.9	53.6	51.4	49.1	46.9
70°	58.9	56.6	53.6	50.6	49.9	48.4	46.1	43.0	41.5	38.5	36.2
72.5°	49.1	46.9	43.8	40.8	40.0	38.5	36.2	33.2	31.0	28.8	26.4
75°	40.0	37.8	34.8	32.5	31.8	30.2	28.0	24.9	22.6	21.1	18.9
77.5°	31.8	29.5	27.1	24.9	24.1	22.6	20.4	18.9	16.6	15.1	12.9
80°	24.1	22.6	20.4	18.9	18.1	16.6	15.1	12.9	11.4	9.9	9.0
82.5°	17.4	15.9	14.4	12.1	12.1	10.6	9.9	8.2	6.8	6.0	5.2
85°	9.9	8.2	7.5	6.8	6.0	6.0	5.2	4.5	3.8	3.0	3.0
87.5°	3.0	3.0	2.2	2.2	2.2	2.2	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°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	539.9	540.6	539.1	540.6	539.1	539.9	538.4	539.9	538.4	539.9	536.9
5°	534.6	534.6	532.4	533.9	532.4	533.1	530.1	530.9	529.4	530.9	527.9
7.5°	525.6	526.4	522.5	524.1	521.8	521.8	519.5	520.2	518.0	518.8	516.5
10°	515.0	514.2	510.5	512.0	509.0	509.0	506.8	506.8	503.6	504.4	501.4
12.5°	499.9	499.1	494.6	496.1	493.1	493.1	490.9	490.9	487.9	489.4	486.2
15°	482.5	481.8	477.2	478.0	475.0	475.0	472.0	472.8	470.5	472.0	469.0
17.5°	462.9	462.1	457.6	458.4	454.6	455.4	453.1	452.4	450.9	451.6	449.2
20°	442.5	441.0	436.5	437.2	435.8	433.5	432.0	432.8	431.1	432.8	430.4
22.5°	421.4	418.4	414.6	414.6	413.0	413.0	410.8	412.2	409.2	411.5	410.0
25°	397.2	394.9	391.9	393.4	390.4	390.4	388.1	388.9	387.4	388.9	387.4
27.5°	373.8	372.2	367.8	369.2	367.0	367.8	365.5	366.2	365.5	367.0	365.5
30°	348.9	348.1	345.1	345.1	344.4	343.6	342.9	342.9	342.1	344.4	342.9
32.5°	325.5	323.2	320.1	322.5	318.6	320.9	319.4	320.9	319.4	320.9	320.1
35°	301.2	300.5	296.8	297.5	296.8	296.8	296.0	296.0	296.0	298.2	298.2
37.5°	275.6	274.9	272.6	273.4	271.9	271.1	271.1	272.6	272.6	274.1	274.1
40°	250.8	251.5	249.2	249.2	248.5	248.5	248.5	250.0	249.2	250.8	250.0
42.5°	225.8	225.8	223.5	224.2	223.5	224.2	224.2	225.8	225.8	226.5	225.8
45°	202.4	202.4	201.6	202.4	200.9	201.6	200.9	202.4	201.6	202.4	202.4
47.5°	179.0	179.0	179.0	178.2	178.2	178.2	178.2	178.2	177.5	179.0	178.2
50°	157.1	157.9	157.1	157.1	156.4	157.1	156.4	156.4	154.8	155.5	155.5
52.5°	137.4	137.4	135.9	135.9	135.9	135.1	135.1	135.1	134.4	134.4	132.9
55°	118.5	118.5	117.0	117.0	116.2	115.5	114.8	114.8	112.5	112.5	110.2
57.5°	101.2	100.4	98.1	98.1	96.6	95.9	95.1	94.4	92.9	91.4	90.6
60°	85.4	83.9	82.2	81.5	80.0	78.5	77.0	75.5	74.0	73.2	72.5
62.5°	70.2	68.0	66.5	65.8	64.1	61.9	60.4	58.9	57.4	56.6	55.1
65°	56.6	54.4	52.1	51.4	49.9	48.4	46.1	44.5	43.0	42.2	42.2
67.5°	44.5	42.2	39.2	39.2	37.8	36.2	34.8	33.2	32.5	33.2	33.2
70°	33.2	31.8	29.5	28.8	27.1	25.6	24.9	24.9	24.9	25.6	24.9
72.5°	24.9	22.6	21.1	20.4	19.6	18.9	18.9	18.9	18.1	18.9	18.9
75°	17.4	15.9	14.4	14.4	13.6	13.6	13.6	13.6	13.6	13.6	13.6
77.5°	12.1	10.6	9.9	9.9	9.9	9.0	9.0	9.0	9.0	9.0	9.0
80°	7.5	7.5	6.8	6.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0
82.5°	4.5	4.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	2.2	2.2	2.2	2.2	2.2	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





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	536.9	539.1	536.1	538.4	537.6	536.9	535.4	538.4
5°	527.9	528.6	525.6	528.6	527.9	526.4	524.9	527.9
7.5°	515.0	517.2	513.5	516.5	515.8	514.2	512.8	515.8
10°	500.6	502.9	499.9	502.1	502.1	500.6	498.4	501.4
12.5°	484.8	486.2	483.2	486.2	485.5	484.0	483.2	485.5
15°	467.4	469.8	466.6	469.0	468.1	467.4	466.6	469.0
17.5°	448.5	450.9	448.5	450.9	450.9	448.5	447.8	449.2
20°	429.6	431.1	428.9	431.1	430.4	430.4	428.9	431.1
22.5°	408.5	410.8	409.2	410.8	410.0	410.0	409.2	410.8
25°	387.4	389.6	387.4	389.6	388.9	388.9	387.4	391.1
27.5°	366.2	367.8	365.5	368.5	367.8	366.2	367.0	367.8
30°	343.6	345.1	343.6	345.9	345.9	345.9	344.4	345.9
32.5°	320.9	323.2	320.9	323.2	322.5	322.5	321.8	323.2
35°	298.2	299.0	297.5	299.8	299.8	300.5	299.0	301.2
37.5°	274.9	275.6	274.9	275.6	277.1	274.9	276.4	277.1
40°	250.8	252.2	251.5	252.2	252.2	253.0	252.2	253.0
42.5°	226.5	228.0	226.5	228.8	228.0	228.0	228.8	228.8
45°	201.6	203.9	202.4	203.9	204.6	203.9	203.9	205.4
47.5°	178.2	179.8	179.0	179.8	179.8	179.8	179.8	181.2
50°	154.8	155.5	155.5	156.4	156.4	157.1	155.5	156.4
52.5°	131.4	132.9	132.9	132.9	132.1	132.9	132.9	132.9
55°	110.2	111.0	109.5	111.0	111.0	110.2	110.2	111.8
57.5°	89.9	89.9	89.9	89.9	89.9	89.1	89.9	89.9
60°	71.0	71.8	71.0	71.0	71.0	71.0	70.2	71.8
62.5°	55.1	55.1	54.4	55.1	55.1	55.1	55.9	55.9
65°	43.0	43.8	43.0	43.8	43.8	43.8	43.8	44.5
67.5°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
70°	25.6	25.6	25.6	26.4	25.6	25.6	25.6	26.4
72.5°	18.9	18.9	18.9	18.9	18.9	18.9	19.6	19.6
75°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
77.5°	9.0	9.0	9.0	9.9	9.0	9.9	9.0	9.0
80°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)