

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: P252342

Luminaire Tested: **LE\_6B10D010 EC6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252342  
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 EC6B10209027 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 986.3 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

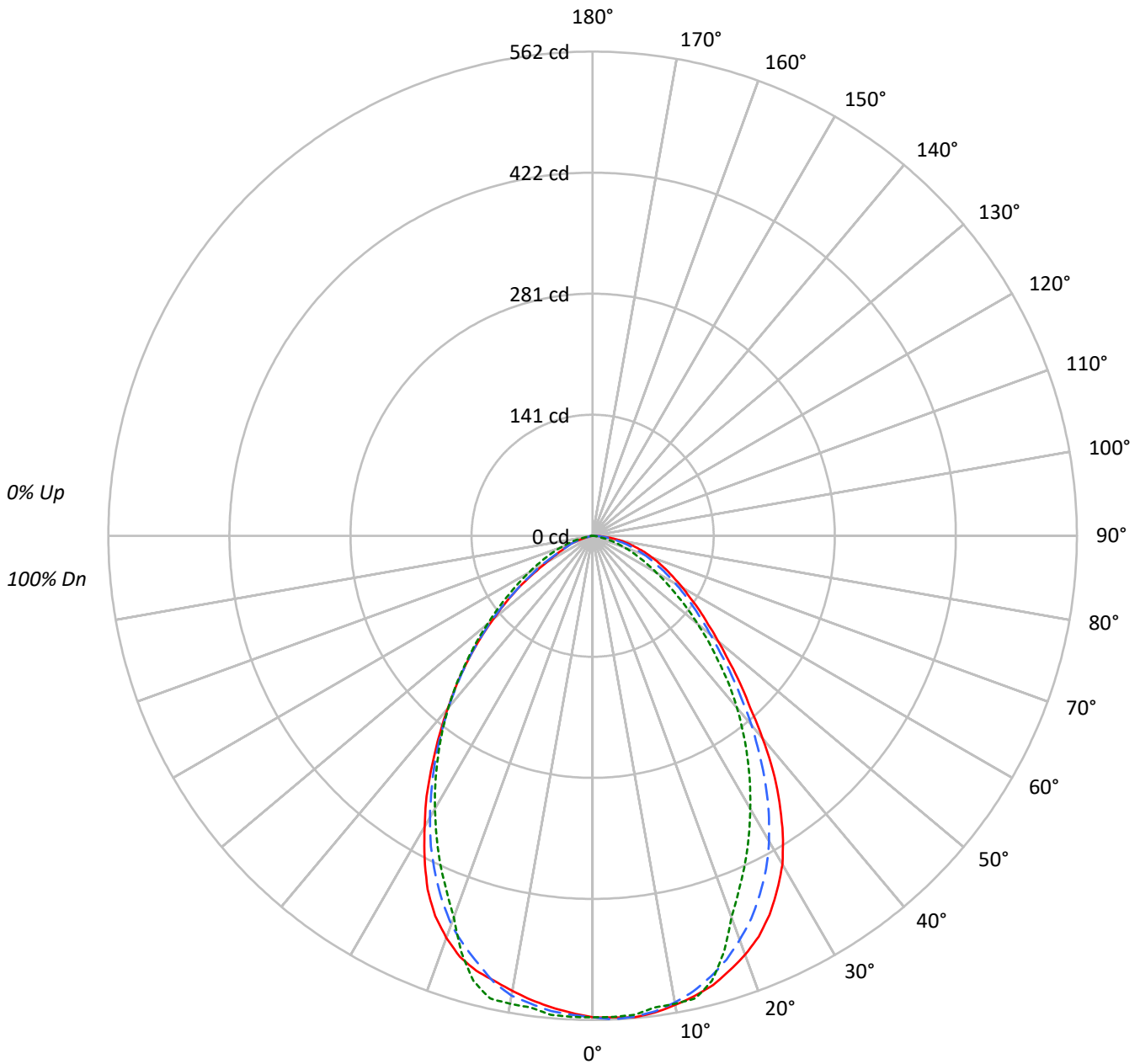
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	43								
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°	36463	36463	36463
5°	36740	36550	35980
10°	36635	36535	35535
15°	36473	36128	35291
20°	35929	32700	34464
25°	34949	30147	32602
30°	33184	27557	29365
35°	30113	24913	25837
40°	26146	22186	22245
45°	22291	19089	18877
50°	19294	16128	15245
55°	17244	13444	11807
60°	15723	11169	7959
65°	14681	9185	5943
70°	13963	7477	4979
75°	13158	5293	1638
80°	12549	2705	564
85°	10330	1572	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	5.4
10°-20°	147.6	15.0
20°-30°	203.7	20.7
30°-40°	207.3	21.0
40°-50°	166.6	16.9
50°-60°	110.8	11.2
60°-70°	63.1	6.4
70°-80°	28.4	2.9
80°-90°	6.0	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°	404.1	41.0
0°-40°	611.4	62.0
0°-60°	888.8	90.1
0°-90°	986.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	559	559	559	559	559	
5°	561	560	558	554	549	53
15°	540	530	535	514	522	152
25°	486	459	419	432	453	222
35°	378	349	313	319	324	235
45°	242	227	207	205	205	187
55°	152	142	118	105	104	136
65°	95	85	60	38	38	95
75°	52	44	21	9	6	56
85°	14	9	2	1	0	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°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	559.5	562.5	561.8	561.0	561.8	561.0	559.5	559.5	558.1	558.1	561.8
5°	561.0	562.5	561.8	561.0	561.0	561.8	558.9	558.9	557.4	556.6	560.2
7.5°	558.1	560.2	558.9	558.9	558.1	558.9	555.9	555.9	553.8	553.0	556.6
10°	553.0	555.9	554.5	554.5	554.5	553.0	551.5	550.9	548.6	547.9	550.1
12.5°	547.2	549.4	548.6	547.2	547.2	547.2	544.2	543.6	540.6	539.2	541.4
15°	540.0	541.4	540.6	540.0	538.5	538.5	535.6	534.1	531.2	528.4	529.8
17.5°	529.0	531.2	529.8	529.0	526.9	526.9	524.0	522.5	518.1	515.2	516.0
20°	517.5	518.1	517.5	516.0	513.9	513.1	510.2	507.2	503.6	500.0	499.2
22.5°	503.6	504.4	502.2	500.8	498.6	497.9	494.2	492.0	486.2	481.9	481.1
25°	485.5	486.2	486.2	482.6	481.1	479.8	476.1	472.5	467.4	461.6	459.4
27.5°	463.8	465.9	464.5	460.9	458.0	457.2	453.6	450.6	444.1	439.1	436.1
30°	440.5	439.8	439.1	436.9	432.5	431.9	428.1	424.5	419.5	413.0	409.4
32.5°	410.8	410.8	410.0	407.9	403.5	402.0	399.1	394.8	389.0	383.9	380.2
35°	378.1	378.9	378.1	373.8	370.9	369.4	368.0	362.9	357.8	352.0	349.1
37.5°	344.0	341.9	342.5	338.9	335.2	336.8	332.4	330.2	324.4	320.0	317.1
40°	307.0	308.5	305.5	304.1	301.9	299.8	299.8	296.1	293.2	288.1	286.6
42.5°	270.8	272.9	272.1	270.8	267.8	268.5	264.9	263.5	259.9	257.6	255.5
45°	241.6	241.6	241.6	240.2	239.5	238.0	235.9	233.6	231.5	228.6	227.1
47.5°	213.4	213.4	214.1	212.6	211.2	210.5	209.0	209.0	205.4	202.5	201.0
50°	190.1	190.1	190.1	188.8	187.2	187.2	185.8	184.4	182.1	180.0	178.5
52.5°	169.1	169.1	169.1	167.6	166.9	166.2	165.5	164.8	161.9	160.4	158.9
55°	151.6	151.0	151.0	150.2	148.8	148.8	148.0	146.6	144.4	142.2	141.5
57.5°	134.2	135.0	134.2	134.2	132.8	132.8	131.4	130.6	128.5	127.0	125.5
60°	120.5	120.5	120.5	119.8	118.2	119.0	117.6	116.9	114.6	112.5	111.0
62.5°	106.6	107.4	107.4	106.6	105.2	105.2	104.5	103.8	101.6	99.4	97.2
65°	95.1	95.1	95.1	94.4	93.6	93.6	92.9	92.1	90.0	87.1	84.9
67.5°	84.1	83.5	83.5	83.5	82.8	82.0	81.2	80.5	78.4	76.2	73.2
70°	73.2	73.2	73.2	72.6	71.1	71.9	71.1	70.4	68.2	66.0	63.9
72.5°	63.1	63.1	62.4	61.8	61.8	61.0	61.0	60.2	58.0	55.1	53.0
75°	52.2	52.2	52.2	52.2	50.8	51.5	50.1	49.4	47.9	45.8	43.5
77.5°	42.9	42.9	42.9	42.1	41.4	41.4	40.6	39.9	37.8	36.2	33.4
80°	33.4	33.4	33.4	33.4	32.6	31.9	31.2	30.5	29.0	26.9	24.6
82.5°	24.6	24.6	24.0	24.0	24.0	23.2	22.5	21.8	20.4	18.9	17.4
85°	13.8	14.5	14.5	13.1	13.8	13.1	13.1	11.6	11.6	10.1	9.4
87.5°	5.1	4.4	4.4	4.4	4.4	4.4	4.4	3.6	3.6	3.6	2.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	558.9	558.1	561.0	561.0	556.6	558.9	559.5	558.1	558.1	558.9	556.6
5°	557.4	555.9	558.9	559.5	555.2	557.4	558.1	556.6	557.4	558.1	555.2
7.5°	552.2	552.2	554.5	555.2	550.9	553.0	553.0	551.5	552.2	552.2	550.1
10°	547.2	545.0	547.2	547.2	543.6	544.2	545.8	545.0	547.9	551.5	551.5
12.5°	537.8	535.6	539.2	539.2	537.0	540.0	543.6	545.8	548.6	550.1	545.8
15°	526.1	526.9	533.4	538.5	536.4	540.6	544.2	542.9	539.2	534.9	528.4
17.5°	510.9	508.8	514.5	517.5	514.5	516.0	518.9	516.0	510.2	506.6	497.9
20°	493.5	487.8	487.8	486.2	481.1	481.1	480.5	475.4	473.1	471.0	467.4
22.5°	473.9	467.4	465.2	460.9	456.5	455.8	453.6	448.5	445.6	444.1	439.8
25°	451.4	445.6	442.0	437.6	431.1	429.6	427.5	422.4	420.9	418.8	415.1
27.5°	428.1	420.9	415.9	411.5	405.6	405.0	400.6	397.0	394.1	392.6	389.8
30°	401.4	393.4	389.8	383.9	379.5	378.1	374.5	369.4	367.2	365.8	363.6
32.5°	371.6	365.0	361.4	356.4	350.5	351.2	346.9	342.5	341.1	339.6	337.5
35°	342.5	336.0	331.6	327.2	323.6	322.2	319.4	315.8	313.5	312.8	311.4
37.5°	310.6	305.5	301.9	297.5	294.6	293.2	291.8	288.1	286.6	286.6	283.8
40°	279.4	275.0	272.1	270.0	266.4	265.6	264.1	262.0	261.2	260.5	258.4
42.5°	251.1	245.2	243.1	241.6	239.5	238.0	237.4	235.9	235.1	234.4	232.2
45°	224.2	219.1	217.0	215.5	213.4	212.6	211.9	209.8	208.2	206.9	206.1
47.5°	198.1	194.5	193.8	190.1	188.8	187.2	185.8	184.4	183.6	182.9	180.0
50°	175.6	173.5	169.9	167.6	166.2	165.5	162.6	160.4	159.6	158.9	156.8
52.5°	155.2	152.4	150.2	146.6	145.9	144.4	143.0	140.1	138.6	137.9	135.8
55°	137.1	135.0	132.1	129.1	127.0	126.2	124.1	121.2	119.8	118.2	116.9
57.5°	121.9	118.2	115.4	112.5	111.0	108.9	106.6	105.2	103.0	100.9	98.8
60°	107.4	104.5	100.9	98.0	96.5	95.1	92.1	90.0	87.9	85.6	83.5
62.5°	93.6	90.8	87.1	84.1	82.8	81.2	78.4	76.2	74.0	71.9	69.0
65°	81.2	78.4	75.5	72.6	71.1	69.6	66.8	63.9	61.8	59.5	56.6
67.5°	71.1	67.5	64.6	61.8	60.2	58.8	55.9	53.8	50.8	48.6	45.8
70°	60.2	57.4	55.1	52.2	50.8	49.4	46.5	43.5	41.4	39.2	36.2
72.5°	50.8	47.1	45.0	42.1	40.6	39.9	37.0	34.9	32.6	29.8	27.6
75°	40.6	37.8	34.9	32.6	31.2	30.5	27.6	25.4	23.2	21.0	18.9
77.5°	31.2	29.0	26.1	24.0	22.5	21.8	18.9	16.8	14.5	13.1	10.9
80°	23.2	20.4	18.9	16.8	16.0	14.5	13.1	10.9	9.4	7.2	5.8
82.5°	16.0	13.8	12.4	10.9	10.1	9.4	8.0	6.5	5.1	4.4	3.6
85°	8.8	7.2	6.5	5.8	5.1	5.1	4.4	3.6	2.9	2.1	1.5
87.5°	2.9	2.1	2.1	2.1	2.1	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°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	558.1	558.1	558.1	557.4	557.4	557.4	556.6	559.5	556.6	555.9	558.1
5°	557.4	555.9	555.9	555.9	555.9	555.2	554.5	555.9	553.8	553.0	553.0
7.5°	553.0	552.2	552.2	551.5	550.9	550.1	549.4	550.1	547.9	547.2	547.2
10°	553.8	552.2	552.2	550.1	548.6	546.5	544.2	545.0	542.1	540.0	540.0
12.5°	545.0	541.4	539.2	537.0	535.6	534.9	532.0	533.4	530.5	529.8	529.8
15°	525.4	521.1	517.5	516.0	516.0	514.5	512.4	515.2	513.9	514.5	518.1
17.5°	495.0	492.8	490.6	489.9	490.6	492.0	493.5	497.9	497.9	500.0	503.6
20°	468.1	466.6	468.1	468.1	468.9	471.8	474.6	478.2	479.8	481.9	487.0
22.5°	442.0	442.0	443.4	445.6	444.9	450.0	450.6	457.2	457.2	461.6	465.9
25°	416.6	416.6	418.0	418.8	420.2	423.1	426.0	431.1	432.5	436.9	440.5
27.5°	391.9	391.1	391.1	391.9	393.4	397.0	398.4	404.2	406.4	409.4	413.0
30°	364.4	363.6	365.0	366.5	365.8	369.4	371.6	375.9	377.4	380.2	383.2
32.5°	338.2	338.2	338.2	339.6	339.6	342.5	342.5	347.6	347.6	349.8	352.8
35°	311.4	311.4	312.1	312.8	313.5	314.2	315.0	317.9	318.6	319.4	320.8
37.5°	286.0	285.2	286.0	286.0	284.5	287.4	287.4	290.2	288.1	290.2	291.0
40°	259.9	259.9	259.1	259.1	259.1	260.5	259.1	261.2	259.9	261.2	260.5
42.5°	233.0	233.0	231.5	233.0	232.2	232.2	232.2	233.6	231.5	233.0	233.6
45°	206.1	205.4	205.4	204.6	204.6	204.6	205.4	205.4	204.6	206.1	206.1
47.5°	180.0	179.2	179.2	179.2	179.2	180.0	177.8	179.2	177.8	177.8	177.8
50°	157.5	156.8	156.0	155.2	154.6	154.6	153.9	153.9	152.4	151.6	151.0
52.5°	135.8	135.0	133.5	133.5	132.8	132.1	129.9	129.9	127.8	127.0	127.0
55°	116.1	114.0	113.2	111.8	111.8	110.2	108.9	107.4	105.2	103.8	103.8
57.5°	98.0	95.8	94.4	93.6	92.9	91.5	88.5	87.9	84.9	84.1	83.5
60°	82.0	79.9	77.6	76.2	75.5	73.2	70.4	69.0	67.5	65.4	63.1
62.5°	66.8	64.6	61.8	61.0	59.5	57.4	55.1	53.0	51.5	49.4	47.9
65°	53.8	51.5	49.4	47.9	46.5	44.2	42.1	39.9	38.5	37.8	37.0
67.5°	43.5	40.6	38.5	37.8	36.2	34.9	32.6	31.9	30.5	30.5	30.5
70°	34.1	31.9	29.8	29.0	28.2	26.9	25.4	25.4	25.4	25.4	25.4
72.5°	25.4	24.0	21.8	21.0	20.4	19.6	18.1	18.9	18.1	18.1	18.1
75°	16.0	14.5	13.1	12.4	11.6	10.9	10.1	9.4	8.8	8.0	8.0
77.5°	8.8	7.2	6.5	5.8	5.8	5.1	4.4	4.4	3.6	3.6	3.6
80°	5.1	4.4	3.6	2.9	2.9	2.1	2.1	2.1	2.1	1.5	1.5
82.5°	2.9	2.1	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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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	554.5	556.6	554.5	556.6	556.6	556.6	556.6	554.5
5°	550.9	552.2	550.1	551.5	552.2	551.5	551.5	549.4
7.5°	544.2	545.8	543.6	545.8	546.5	545.8	545.0	543.6
10°	537.8	538.5	536.4	537.8	539.2	539.2	538.5	536.4
12.5°	527.6	529.8	527.6	529.0	530.5	531.2	531.2	529.0
15°	516.0	519.6	518.1	520.4	522.5	523.2	523.2	522.5
17.5°	504.4	508.0	505.9	509.5	511.6	513.1	513.9	512.4
20°	487.8	492.0	490.6	493.5	496.4	498.6	498.6	496.4
22.5°	465.9	471.8	471.0	473.1	476.8	477.5	479.0	477.5
25°	442.0	446.4	445.6	447.8	452.1	452.1	452.9	452.9
27.5°	414.4	418.8	418.0	419.5	422.4	423.1	423.9	422.4
30°	384.6	386.9	386.9	389.0	391.1	391.9	391.9	389.8
32.5°	352.0	354.9	356.4	355.6	357.8	359.2	358.5	358.5
35°	322.2	323.0	323.6	324.4	325.1	326.6	325.1	324.4
37.5°	290.2	292.5	291.0	292.5	293.9	293.2	292.5	292.5
40°	261.2	262.0	260.5	262.0	262.8	262.8	262.8	261.2
42.5°	232.2	233.6	232.2	233.6	233.6	233.6	233.6	233.0
45°	203.2	204.6	204.6	205.4	205.4	204.6	204.6	204.6
47.5°	176.4	177.8	176.4	177.8	178.5	177.1	177.1	177.1
50°	151.0	150.2	150.2	151.0	151.0	151.0	151.0	150.2
52.5°	124.9	125.5	125.5	125.5	126.2	125.5	126.2	126.2
55°	102.4	102.4	102.4	103.0	102.4	102.4	103.0	103.8
57.5°	82.0	81.2	80.5	80.5	81.2	80.5	80.5	80.5
60°	63.1	62.4	61.8	61.8	61.8	61.8	61.8	61.0
62.5°	47.1	47.1	47.1	47.9	47.9	47.9	47.9	48.6
65°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.5
67.5°	30.5	30.5	30.5	31.2	31.2	31.2	31.2	31.2
70°	25.4	25.4	26.1	25.4	26.1	26.1	26.1	26.1
72.5°	17.4	17.4	17.4	17.4	17.4	16.8	17.4	16.8
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.5
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)