

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: P252655

Luminaire Tested: **LE_6B10D010 EC6B10209030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 1060.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

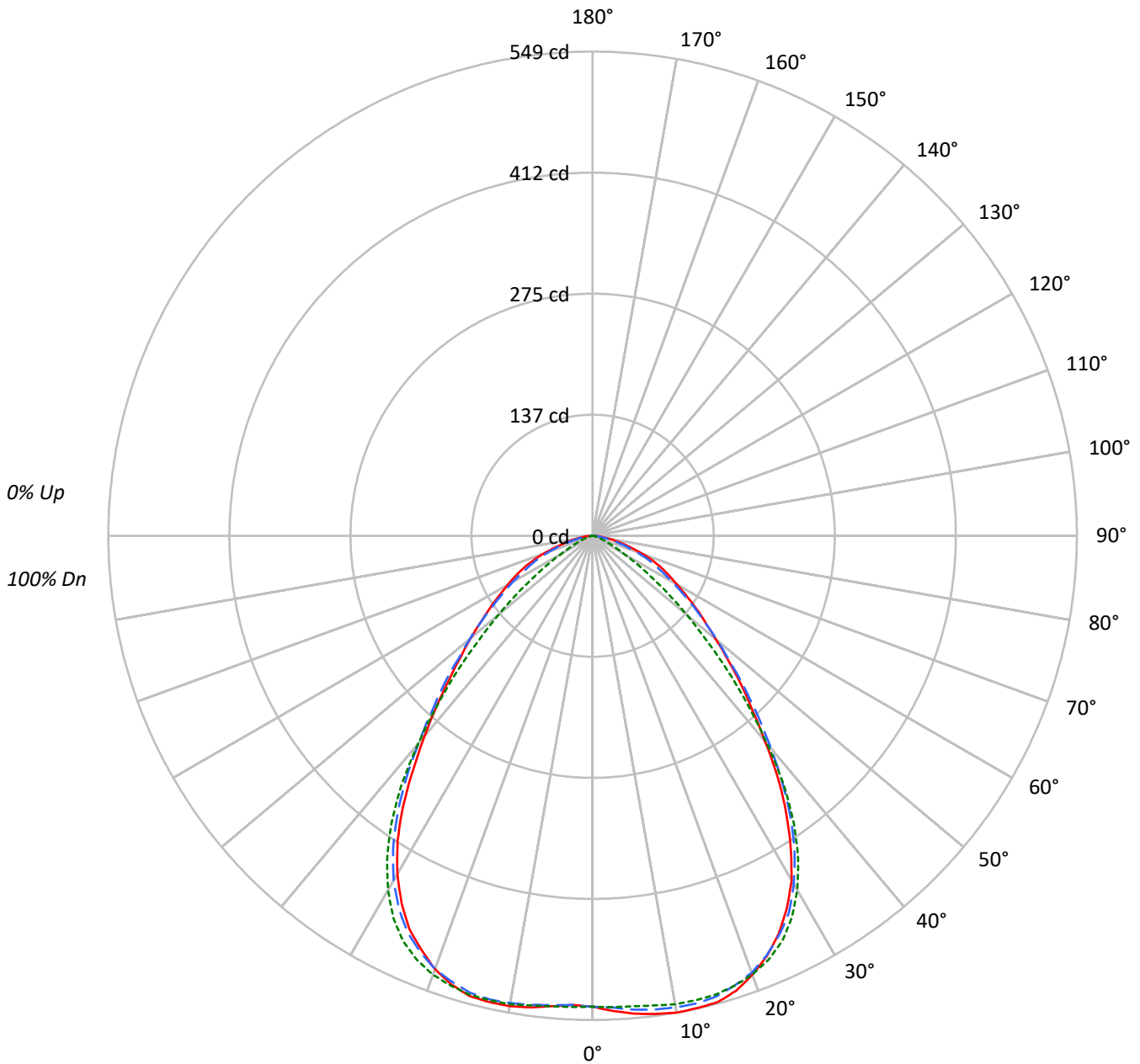
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34838	34838	34838
5°	35620	35070	35070
10°	36376	35734	35879
15°	36986	36378	36479
20°	36762	36762	36297
25°	35885	36540	35402
30°	33975	34940	33343
35°	30440	31651	29835
40°	25856	26188	25218
45°	21885	20003	21119
50°	18472	14108	18249
55°	16243	9111	16061
60°	14379	5415	14483
65°	13291	3257	13291
70°	11521	1888	11235
75°	9125	1134	8570
80°	6800	827	6537
85°	6138	599	5614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	4.9
10°-20°	152.2	14.4
20°-30°	228.9	21.6
30°-40°	240.6	22.7
40°-50°	179.8	17.0
50°-60°	111.9	10.6
60°-70°	63.6	6.0
70°-80°	26.2	2.5
80°-90°	5.4	0.5
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°	432.5	40.8
0°-40°	673.1	63.5
0°-60°	964.7	91.0
0°-90°	1060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	544	539	536	534	536	52
15°	548	541	539	536	540	154
25°	498	500	508	496	492	228
35°	382	392	397	386	375	237
45°	237	242	217	238	229	184
55°	143	140	80	138	141	128
65°	86	77	21	77	86	85
75°	36	29	4	28	34	39
85°	8	5	1	4	8	9
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°	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
2.5°	539.4	538.6	539.4	537.9	537.1	537.1	537.9	536.4	535.5	536.4	535.5
5°	543.9	542.4	543.1	542.4	540.9	540.9	541.6	539.4	539.4	540.1	539.4
7.5°	546.9	546.9	546.9	545.4	544.6	543.9	545.4	543.1	542.4	542.4	541.6
10°	549.1	548.4	549.1	547.6	546.1	545.4	546.9	545.4	543.9	545.4	543.1
12.5°	548.4	548.4	548.4	547.6	546.1	545.4	546.9	544.6	543.9	544.6	543.1
15°	547.6	545.4	546.1	545.4	543.1	543.1	543.9	541.6	540.1	542.4	540.9
17.5°	540.9	539.4	540.1	538.6	537.1	536.4	537.1	536.4	534.8	536.4	534.8
20°	529.5	529.5	530.2	528.8	527.2	526.5	528.0	526.5	525.0	527.2	527.2
22.5°	515.9	515.9	515.9	515.1	514.4	514.4	514.4	513.6	512.9	514.4	515.1
25°	498.5	497.8	498.5	499.2	498.5	497.8	498.5	498.5	497.0	500.0	500.0
27.5°	476.6	476.6	478.1	477.4	477.4	476.6	478.1	478.1	477.4	479.6	481.9
30°	451.0	449.5	451.0	451.0	451.8	451.8	452.5	452.5	452.5	454.8	456.2
32.5°	417.8	418.5	420.8	420.0	419.2	421.5	421.5	423.0	423.8	425.2	426.0
35°	382.2	383.0	383.0	383.8	385.2	383.8	387.5	386.8	387.5	390.5	392.0
37.5°	344.5	342.1	346.0	344.5	345.2	345.2	346.8	347.5	349.8	353.5	353.5
40°	303.6	304.4	305.9	306.6	307.5	307.5	307.5	309.8	310.5	315.0	314.2
42.5°	268.1	268.1	269.6	270.4	270.4	270.4	270.4	272.8	274.2	275.8	277.2
45°	237.2	234.9	236.4	236.4	238.0	237.2	238.8	240.2	241.0	243.2	242.5
47.5°	207.8	207.0	207.8	208.5	207.8	208.5	209.2	210.0	210.8	210.8	210.8
50°	182.0	182.0	182.8	183.5	183.5	183.5	183.5	184.2	184.2	185.9	184.2
52.5°	160.9	161.6	161.6	160.9	161.6	161.6	162.4	162.4	161.6	161.6	159.4
55°	142.8	142.0	142.8	142.0	142.8	142.8	142.0	142.0	141.2	140.5	139.8
57.5°	125.4	125.4	125.4	125.4	124.6	125.4	124.6	123.9	123.9	122.4	120.1
60°	110.2	110.2	110.2	110.2	110.2	109.5	110.2	109.5	108.0	106.5	103.5
62.5°	97.5	96.8	97.5	96.8	96.8	95.9	95.9	95.1	93.6	92.1	89.1
65°	86.1	86.9	86.1	86.1	85.4	84.6	84.6	83.9	81.6	80.1	77.0
67.5°	74.0	73.2	73.2	73.2	72.5	72.5	72.5	71.0	69.5	67.2	64.2
70°	60.4	60.4	60.4	59.6	59.6	58.9	58.9	58.1	56.6	55.1	51.4
72.5°	47.6	47.6	47.6	46.1	46.9	46.1	46.1	44.6	43.8	41.5	39.2
75°	36.2	36.2	35.5	35.5	34.8	34.0	34.0	33.2	32.5	31.0	28.8
77.5°	26.5	26.5	26.5	25.6	24.9	24.1	24.1	23.4	22.6	21.9	20.4
80°	18.1	18.1	18.1	18.1	17.4	16.6	16.6	15.9	15.9	15.1	13.6
82.5°	12.1	12.1	12.1	12.1	11.4	11.4	11.4	10.6	9.9	9.9	8.2
85°	8.2	8.2	7.5	7.5	7.5	7.5	6.8	6.8	6.0	5.2	5.2
87.5°	4.5	4.5	4.5	4.5	3.8	3.8	3.8	3.8	3.0	3.0	2.2
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°	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
2.5°	537.9	537.9	537.1	534.8	535.5	534.8	535.5	534.8	532.5	534.8	532.5
5°	540.9	541.6	540.1	537.1	537.9	537.1	537.1	536.4	534.0	535.5	534.0
7.5°	543.9	543.1	542.4	539.4	540.1	539.4	539.4	537.9	535.5	537.1	534.8
10°	545.4	545.4	543.9	540.9	540.9	540.1	540.9	540.1	537.1	539.4	537.9
12.5°	545.4	544.6	544.6	540.9	541.6	540.9	541.6	540.1	537.9	539.4	538.6
15°	543.1	543.1	542.4	538.6	539.4	539.4	540.1	538.6	536.4	538.6	537.1
17.5°	538.6	538.6	537.9	534.8	536.4	536.4	537.1	535.5	533.2	534.8	534.8
20°	529.5	530.2	530.2	528.0	529.5	529.5	530.2	529.5	528.8	529.5	528.0
22.5°	519.0	520.5	520.5	518.2	519.8	519.8	522.0	521.2	519.8	520.5	519.8
25°	503.1	504.6	506.1	504.6	506.1	506.1	508.4	507.6	506.1	507.6	505.4
27.5°	485.0	485.8	487.2	485.8	488.0	487.2	489.5	488.8	486.5	488.8	488.0
30°	459.2	462.2	464.5	462.2	464.5	464.5	466.1	465.2	464.5	463.8	463.8
32.5°	430.6	433.6	433.6	432.9	434.4	434.4	435.1	433.6	432.9	433.6	434.4
35°	395.0	396.6	398.1	397.4	398.1	398.9	398.1	398.9	396.6	397.4	397.4
37.5°	356.5	358.0	358.0	355.8	357.2	357.2	355.8	355.8	354.2	355.8	352.8
40°	315.8	314.2	315.0	313.5	312.0	312.0	311.2	308.2	306.6	307.5	308.2
42.5°	275.8	275.8	273.5	269.6	265.9	265.9	263.6	262.1	259.1	260.6	259.9
45°	241.8	238.0	234.9	228.9	226.6	225.1	221.4	217.5	216.0	216.8	216.0
47.5°	209.2	206.2	198.6	190.4	188.1	185.9	181.2	176.8	175.2	173.8	173.8
50°	182.0	176.8	168.5	159.4	155.6	151.9	145.8	141.2	138.2	139.0	139.0
52.5°	157.1	151.1	141.2	129.9	125.4	120.9	115.6	110.2	108.0	107.2	107.2
55°	135.2	128.4	118.6	105.8	102.0	96.8	89.9	83.9	80.9	80.1	81.6
57.5°	115.6	109.5	98.2	85.4	80.9	75.5	68.8	63.5	59.6	58.9	59.6
60°	99.8	91.4	81.6	69.5	63.5	58.9	51.4	46.9	43.0	41.5	42.2
62.5°	83.9	76.2	66.5	54.4	49.9	45.4	38.5	33.2	30.2	29.5	30.2
65°	71.8	64.2	55.1	44.6	40.0	35.5	29.5	24.1	21.9	21.1	21.9
67.5°	59.6	52.9	45.4	35.5	31.8	28.0	21.9	18.1	15.1	14.4	15.1
70°	48.4	42.2	34.8	28.0	24.1	21.1	16.6	12.9	10.6	9.9	10.6
72.5°	36.2	31.8	26.5	20.4	18.1	15.9	12.1	9.1	7.5	6.8	7.5
75°	26.5	22.6	18.9	14.4	12.9	11.4	8.2	6.0	5.2	4.5	5.2
77.5°	18.1	15.9	12.9	9.9	8.2	7.5	5.2	4.5	3.8	3.0	3.0
80°	12.1	10.6	8.2	6.8	6.0	5.2	3.8	3.0	2.2	2.2	2.2
82.5°	7.5	6.0	5.2	3.8	3.0	3.0	2.2	1.5	1.5	1.5	1.5
85°	4.5	3.8	3.0	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8
87.5°	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.0	0.0	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°	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
2.5°	534.0	532.5	532.5	533.2	534.0	534.8	533.2	532.5	532.5	534.8	533.2
5°	534.0	533.2	533.2	533.2	534.8	535.5	534.0	533.2	534.0	536.4	535.5
7.5°	536.4	534.8	535.5	535.5	536.4	537.9	536.4	535.5	536.4	538.6	537.1
10°	537.9	536.4	537.1	536.4	538.6	539.4	537.9	537.1	537.9	540.9	540.1
12.5°	538.6	537.9	537.9	537.1	539.4	540.1	538.6	537.9	538.6	540.9	540.1
15°	537.1	536.4	536.4	536.4	537.9	539.4	537.1	536.4	536.4	538.6	537.9
17.5°	534.0	532.5	532.5	532.5	533.2	534.0	531.8	531.0	530.2	532.5	531.8
20°	528.8	527.2	525.8	525.8	526.5	526.5	525.0	522.8	522.8	523.5	522.0
22.5°	519.0	518.2	516.6	515.9	517.4	516.6	513.6	511.4	510.6	511.4	509.9
25°	505.4	503.9	503.1	502.4	503.1	502.4	499.2	496.2	496.2	496.2	494.0
27.5°	486.5	485.0	484.2	484.2	485.0	483.5	480.4	477.4	475.9	475.9	473.6
30°	462.2	462.2	461.5	460.8	460.0	460.0	455.5	452.5	451.0	451.8	450.2
32.5°	432.9	432.1	431.4	429.0	429.8	429.0	425.2	423.0	420.8	419.2	418.5
35°	395.0	395.0	394.2	394.2	394.2	393.5	389.8	387.5	386.0	385.2	383.0
37.5°	353.5	352.8	352.0	352.0	352.0	352.0	349.8	347.5	347.5	346.8	345.2
40°	306.6	307.5	308.2	307.5	309.8	312.0	309.0	307.5	306.6	309.0	305.9
42.5°	261.4	260.6	264.4	265.1	265.1	268.9	269.6	270.4	269.6	271.1	271.1
45°	217.5	216.8	220.6	222.1	225.9	230.4	232.6	236.4	238.0	239.5	238.0
47.5°	176.0	179.0	182.0	185.9	188.9	196.4	200.9	204.8	206.2	208.5	208.5
50°	141.2	144.2	149.6	152.6	156.4	165.4	173.0	178.2	181.2	183.5	182.8
52.5°	108.8	114.0	120.9	123.9	129.1	139.8	148.0	154.1	157.9	160.1	160.9
55°	83.9	88.4	95.1	99.8	105.0	116.4	126.9	133.8	137.5	140.5	142.0
57.5°	62.0	67.2	74.8	78.5	84.6	97.5	106.5	114.9	119.4	123.1	123.9
60°	45.4	50.6	57.4	62.0	68.0	80.9	91.4	99.0	104.2	107.2	108.8
62.5°	32.5	37.8	44.6	49.1	54.4	65.8	76.2	83.9	89.1	92.9	95.1
65°	23.4	28.8	35.5	39.2	43.8	54.4	64.2	71.8	77.0	81.6	83.1
67.5°	17.4	21.1	27.2	31.0	35.5	43.8	52.1	58.9	64.2	68.0	69.5
70°	12.9	15.9	21.1	23.4	26.5	34.0	40.8	46.9	51.4	54.4	55.9
72.5°	9.1	11.4	15.1	17.4	19.6	25.6	31.0	35.5	38.5	41.5	43.0
75°	6.0	7.5	10.6	12.1	13.6	18.1	21.9	25.6	28.0	30.2	31.0
77.5°	3.8	5.2	7.5	8.2	9.9	12.1	15.1	17.4	18.9	20.4	21.9
80°	2.2	3.0	4.5	5.2	6.0	8.2	9.9	11.4	12.9	14.4	15.1
82.5°	1.5	2.2	3.0	3.0	3.8	4.5	6.0	7.5	8.2	9.1	9.9
85°	0.8	0.8	1.5	1.5	2.2	2.2	3.0	3.8	4.5	5.2	6.0
87.5°	0.8	0.8	0.8	0.8	1.5	1.5	2.2	2.2	2.2	3.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
2.5°	531.8	534.0	531.8	533.2	532.5	532.5	531.8	532.5
5°	534.0	537.1	534.0	536.4	534.8	534.8	534.8	535.5
7.5°	536.4	539.4	537.1	539.4	538.6	537.9	537.9	539.4
10°	538.6	540.9	539.4	541.6	540.9	540.1	540.1	541.6
12.5°	538.6	541.6	540.1	542.4	541.6	540.9	540.9	541.6
15°	536.4	540.1	537.9	540.1	539.4	538.6	538.6	540.1
17.5°	529.5	532.5	531.0	532.5	532.5	531.8	532.5	533.2
20°	520.5	522.8	521.2	522.8	522.8	521.2	522.0	522.8
22.5°	507.6	509.9	508.4	509.9	509.1	508.4	508.4	507.6
25°	491.8	494.8	492.5	494.0	492.5	491.0	491.0	491.8
27.5°	472.1	474.4	471.4	472.9	471.4	469.9	469.9	469.1
30°	446.4	447.1	444.9	446.4	444.9	444.1	442.6	442.6
32.5°	415.5	416.2	414.0	414.0	412.4	412.4	409.4	411.6
35°	379.2	380.0	379.2	378.5	376.1	375.4	374.6	374.6
37.5°	341.4	341.4	339.1	338.4	336.9	335.4	336.1	333.9
40°	302.9	302.1	299.9	300.6	299.9	297.6	296.9	296.1
42.5°	266.6	266.6	264.4	265.1	263.6	262.9	260.6	261.4
45°	234.9	234.9	232.6	232.6	231.9	229.6	230.4	228.9
47.5°	206.2	206.2	205.5	205.5	203.2	202.5	202.5	202.5
50°	181.2	181.2	181.2	181.2	180.5	179.8	179.0	179.8
52.5°	160.1	161.6	160.9	160.9	160.1	159.4	158.6	158.6
55°	141.2	142.0	142.0	142.8	142.0	141.2	142.0	141.2
57.5°	124.6	126.1	126.1	126.1	126.1	126.1	125.4	124.6
60°	110.2	111.0	111.0	111.8	111.8	111.8	111.0	111.0
62.5°	95.9	97.5	98.2	98.2	99.0	98.2	98.2	98.2
65°	84.6	86.1	86.9	86.1	86.9	86.9	86.1	86.1
67.5°	71.0	72.5	72.5	72.5	72.5	73.2	72.5	72.5
70°	57.4	58.9	58.1	58.9	58.9	58.9	58.9	58.9
72.5°	43.8	44.6	45.4	45.4	46.1	45.4	45.4	45.4
75°	31.8	33.2	33.2	33.2	33.2	34.0	34.0	34.0
77.5°	22.6	23.4	23.4	24.1	24.1	24.1	24.1	24.9
80°	15.9	15.9	16.6	16.6	17.4	17.4	17.4	17.4
82.5°	10.6	11.4	11.4	11.4	11.4	11.4	11.4	11.4
85°	6.0	6.8	6.8	6.8	6.8	7.5	7.5	7.5
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.0	3.0
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)