

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: P252657

Luminaire Tested: **LE_6B10D010 EC6B10209040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252657
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 EC6B10209040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1076.2 lumens
Efficiency: N/A
Efficacy: 107.6 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

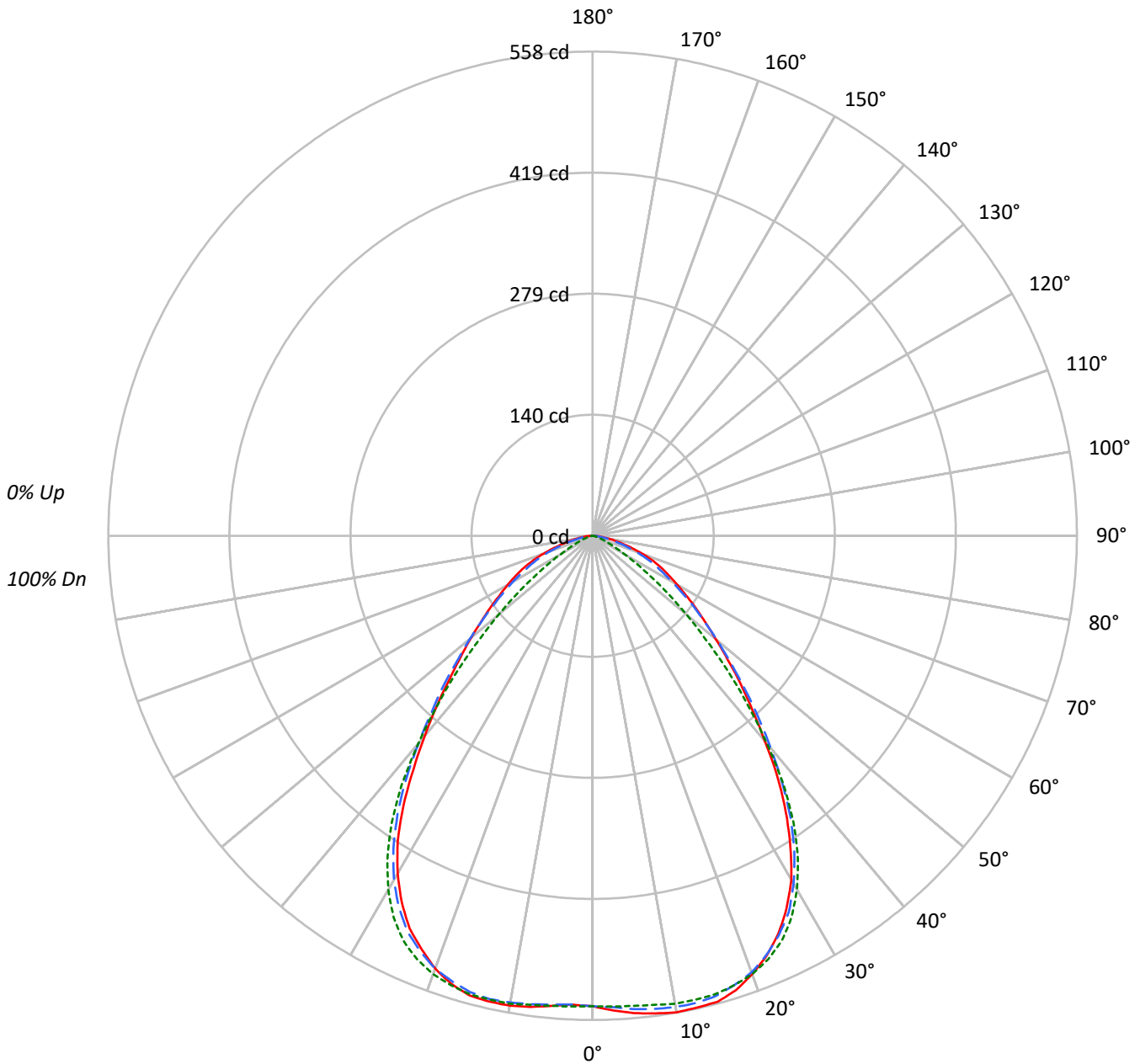
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35373	35373	35373
5°	36163	35613	35613
10°	36939	36277	36429
15°	37553	36939	37040
20°	37324	37324	36852
25°	36439	37101	35935
30°	34495	35474	33855
35°	30910	32128	30297
40°	26265	26580	25601
45°	22226	20307	21442
50°	18767	14321	18523
55°	16493	9236	16311
60°	14614	5493	14718
65°	13492	3319	13492
70°	11712	1908	11426
75°	9301	1160	8696
80°	6913	827	6612
85°	6288	599	5689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	4.9
10°-20°	154.5	14.4
20°-30°	232.4	21.6
30°-40°	244.3	22.7
40°-50°	182.5	17.0
50°-60°	113.6	10.6
60°-70°	64.6	6.0
70°-80°	26.6	2.5
80°-90°	5.5	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°	439.1	40.8
0°-40°	683.4	63.5
0°-60°	979.5	91.0
0°-90°	1076.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	542	542	542	542	542	
5°	552	548	544	542	544	53
15°	556	549	547	544	548	156
25°	506	508	515	504	499	232
35°	388	398	403	392	380	241
45°	241	246	220	242	232	187
55°	145	142	81	140	143	130
65°	87	78	22	78	87	86
75°	37	29	5	28	34	40
85°	8	5	1	5	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°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2
2.5°	547.6	546.9	547.6	546.1	545.2	545.2	546.1	544.5	543.8	544.5	543.8
5°	552.2	550.6	551.5	550.6	549.1	549.1	549.9	547.6	547.6	548.4	547.6
7.5°	555.2	555.2	555.2	553.8	553.0	552.2	553.8	551.5	550.6	550.6	549.9
10°	557.6	556.8	557.6	556.0	554.5	553.8	555.2	553.8	552.2	553.8	551.5
12.5°	556.8	556.8	556.8	556.0	554.5	553.8	555.2	553.0	552.2	553.0	551.5
15°	556.0	553.8	554.5	553.8	551.5	551.5	552.2	549.9	548.4	550.6	549.1
17.5°	549.1	547.6	548.4	546.9	545.2	544.5	545.2	544.5	543.0	544.5	543.0
20°	537.6	537.6	538.4	536.9	535.4	534.6	536.1	534.6	533.0	535.4	535.4
22.5°	523.9	523.9	523.9	523.1	522.2	522.2	522.2	521.5	520.8	522.2	523.1
25°	506.2	505.4	506.2	507.0	506.2	505.4	506.2	506.2	504.6	507.8	507.8
27.5°	484.0	484.0	485.5	484.8	484.8	484.0	485.5	485.5	484.8	487.0	489.4
30°	457.9	456.4	457.9	457.9	458.6	458.6	459.4	459.4	459.4	461.8	463.2
32.5°	424.1	424.9	427.2	426.4	425.6	428.0	428.0	429.5	430.2	431.8	432.6
35°	388.1	388.9	388.9	389.6	391.1	389.6	393.5	392.6	393.5	396.5	398.0
37.5°	349.8	347.4	351.2	349.8	350.5	350.5	352.0	352.8	355.1	358.9	358.9
40°	308.4	309.1	310.6	311.4	312.1	312.1	312.1	314.5	315.2	319.9	319.0
42.5°	272.2	272.2	273.8	274.6	274.6	274.6	274.6	276.9	278.4	280.0	281.5
45°	240.9	238.5	240.0	240.0	241.6	240.9	242.4	243.9	244.6	247.0	246.2
47.5°	210.9	210.1	210.9	211.6	210.9	211.6	212.5	213.2	214.0	214.0	214.0
50°	184.9	184.9	185.6	186.4	186.4	186.4	186.4	187.1	187.1	188.6	187.1
52.5°	163.4	164.1	164.1	163.4	164.1	164.1	164.9	164.9	164.1	164.1	161.9
55°	145.0	144.2	145.0	144.2	145.0	145.0	144.2	144.2	143.4	142.6	141.9
57.5°	127.4	127.4	127.4	127.4	126.5	127.4	126.5	125.8	125.8	124.2	122.0
60°	112.0	112.0	112.0	112.0	112.0	111.2	112.0	111.2	109.6	108.1	105.1
62.5°	98.9	98.1	98.9	98.1	98.1	97.4	97.4	96.6	95.1	93.6	90.5
65°	87.4	88.2	87.4	87.4	86.6	85.9	85.9	85.1	82.9	81.2	78.2
67.5°	75.1	74.4	74.4	74.4	73.6	73.6	73.6	72.1	70.5	68.2	65.2
70°	61.4	61.4	61.4	60.6	60.6	59.9	59.9	59.0	57.5	56.0	52.1
72.5°	48.4	48.4	48.4	46.8	47.5	46.8	46.8	45.2	44.5	42.1	39.9
75°	36.9	36.9	36.0	36.0	35.2	34.5	34.5	33.8	33.0	31.5	29.1
77.5°	26.9	26.9	26.9	26.1	25.2	24.5	24.5	23.8	23.0	22.2	20.8
80°	18.4	18.4	18.4	18.4	17.6	16.9	16.9	16.1	16.1	15.4	13.8
82.5°	12.2	12.2	12.2	12.2	11.5	11.5	11.5	10.8	10.0	10.0	8.4
85°	8.4	8.4	7.6	7.6	7.6	7.6	6.9	6.9	6.1	5.4	5.4
87.5°	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.9	3.1	3.1	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°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2
2.5°	546.1	546.1	545.2	543.0	543.8	543.0	543.8	543.0	540.8	543.0	540.8
5°	549.1	549.9	548.4	545.2	546.1	545.2	545.2	544.5	542.2	543.8	542.2
7.5°	552.2	551.5	550.6	547.6	548.4	547.6	547.6	546.1	543.8	545.2	543.0
10°	553.8	553.8	552.2	549.1	549.1	548.4	549.1	548.4	545.2	547.6	546.1
12.5°	553.8	553.0	553.0	549.1	549.9	549.1	549.9	548.4	546.1	547.6	546.9
15°	551.5	551.5	550.6	546.9	547.6	547.6	548.4	546.9	544.5	546.9	545.2
17.5°	546.9	546.9	546.1	543.0	544.5	544.5	545.2	543.8	541.5	543.0	543.0
20°	537.6	538.4	538.4	536.1	537.6	537.6	538.4	537.6	536.9	537.6	536.1
22.5°	526.9	528.4	528.4	526.1	527.6	527.6	530.0	529.2	527.6	528.4	527.6
25°	510.8	512.4	513.9	512.4	513.9	513.9	516.1	515.4	513.9	515.4	513.1
27.5°	492.4	493.1	494.6	493.1	495.5	494.6	497.0	496.2	493.9	496.2	495.5
30°	466.2	469.4	471.6	469.4	471.6	471.6	473.2	472.5	471.6	470.9	470.9
32.5°	437.1	440.2	440.2	439.5	441.0	441.0	441.8	440.2	439.5	440.2	441.0
35°	401.1	402.6	404.1	403.4	404.1	405.0	404.1	405.0	402.6	403.4	403.4
37.5°	362.0	363.5	363.5	361.2	362.8	362.8	361.2	361.2	359.8	361.2	358.1
40°	320.6	319.0	319.9	318.2	316.8	316.8	316.0	312.9	311.4	312.1	312.9
42.5°	280.0	280.0	277.6	273.8	270.0	270.0	267.6	266.1	263.1	264.6	263.9
45°	245.4	241.6	238.5	232.4	230.1	228.5	224.8	220.9	219.4	220.1	219.4
47.5°	212.5	209.4	201.8	193.2	191.0	188.6	184.1	179.5	177.9	176.4	176.4
50°	184.9	179.5	171.0	161.9	158.0	154.1	148.0	143.4	140.4	141.1	141.1
52.5°	159.5	153.4	143.4	131.9	127.4	122.8	117.4	112.0	109.6	108.9	108.9
55°	137.2	130.4	120.4	107.4	103.5	98.1	91.2	85.1	82.1	81.2	82.9
57.5°	117.4	111.2	99.8	86.6	82.1	76.8	69.8	64.4	60.6	59.9	60.6
60°	101.2	92.8	82.9	70.5	64.4	59.9	52.1	47.5	43.8	42.1	43.0
62.5°	85.1	77.5	67.5	55.2	50.6	46.0	39.1	33.8	30.6	29.9	30.6
65°	72.9	65.2	56.0	45.2	40.6	36.0	29.9	24.5	22.2	21.5	22.2
67.5°	60.6	53.6	46.0	36.0	32.2	28.4	22.2	18.4	15.4	14.6	15.4
70°	49.1	43.0	35.2	28.4	24.5	21.5	16.9	13.0	10.8	10.0	10.8
72.5°	36.9	32.2	26.9	20.8	18.4	16.1	12.2	9.2	7.6	6.9	7.6
75°	26.9	23.0	19.1	14.6	13.0	11.5	8.4	6.1	5.4	4.6	5.4
77.5°	18.4	16.1	13.0	10.0	8.4	7.6	5.4	4.6	3.9	3.1	3.1
80°	12.2	10.8	8.4	6.9	6.1	5.4	3.9	3.1	2.2	2.2	2.2
82.5°	7.6	6.1	5.4	3.9	3.1	3.1	2.2	1.5	1.5	1.5	1.5
85°	4.6	3.9	3.1	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°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2
2.5°	542.2	540.8	540.8	541.5	542.2	543.0	541.5	540.8	540.8	543.0	541.5
5°	542.2	541.5	541.5	541.5	543.0	543.8	542.2	541.5	542.2	544.5	543.8
7.5°	544.5	543.0	543.8	543.8	544.5	546.1	544.5	543.8	544.5	546.9	545.2
10°	546.1	544.5	545.2	544.5	546.9	547.6	546.1	545.2	546.1	549.1	548.4
12.5°	546.9	546.1	546.1	545.2	547.6	548.4	546.9	546.1	546.9	549.1	548.4
15°	545.2	544.5	544.5	544.5	546.1	547.6	545.2	544.5	544.5	546.9	546.1
17.5°	542.2	540.8	540.8	540.8	541.5	542.2	539.9	539.1	538.4	540.8	539.9
20°	536.9	535.4	533.8	533.8	534.6	534.6	533.0	530.8	530.8	531.5	530.0
22.5°	526.9	526.1	524.6	523.9	525.4	524.6	521.5	519.2	518.5	519.2	517.8
25°	513.1	511.5	510.8	510.0	510.8	510.0	507.0	503.9	503.9	503.9	501.6
27.5°	493.9	492.4	491.6	491.6	492.4	490.9	487.8	484.8	483.1	483.1	480.9
30°	469.4	469.4	468.6	467.9	467.1	467.1	462.5	459.4	457.9	458.6	457.1
32.5°	439.5	438.8	437.9	435.6	436.4	435.6	431.8	429.5	427.2	425.6	424.9
35°	401.1	401.1	400.4	400.4	400.4	399.6	395.8	393.5	391.9	391.1	388.9
37.5°	358.9	358.1	357.4	357.4	357.4	357.4	355.1	352.8	352.8	352.0	350.5
40°	311.4	312.1	312.9	312.1	314.5	316.8	313.6	312.1	311.4	313.6	310.6
42.5°	265.4	264.6	268.4	269.2	269.2	273.0	273.8	274.6	273.8	275.4	275.4
45°	220.9	220.1	224.0	225.5	229.4	233.9	236.2	240.0	241.6	243.1	241.6
47.5°	178.8	181.8	184.9	188.6	191.8	199.4	204.0	207.9	209.4	211.6	211.6
50°	143.4	146.5	151.9	154.9	158.8	168.0	175.6	181.0	184.1	186.4	185.6
52.5°	110.5	115.8	122.8	125.8	131.1	141.9	150.4	156.5	160.2	162.6	163.4
55°	85.1	89.8	96.6	101.2	106.6	118.1	128.9	135.8	139.6	142.6	144.2
57.5°	62.9	68.2	75.9	79.8	85.9	98.9	108.1	116.6	121.1	125.0	125.8
60°	46.0	51.4	58.2	62.9	69.0	82.1	92.8	100.5	105.9	108.9	110.5
62.5°	33.0	38.4	45.2	49.9	55.2	66.8	77.5	85.1	90.5	94.4	96.6
65°	23.8	29.1	36.0	39.9	44.5	55.2	65.2	72.9	78.2	82.9	84.4
67.5°	17.6	21.5	27.6	31.5	36.0	44.5	52.9	59.9	65.2	69.0	70.5
70°	13.0	16.1	21.5	23.8	26.9	34.5	41.4	47.5	52.1	55.2	56.8
72.5°	9.2	11.5	15.4	17.6	20.0	26.1	31.5	36.0	39.1	42.1	43.8
75°	6.1	7.6	10.8	12.2	13.8	18.4	22.2	26.1	28.4	30.6	31.5
77.5°	3.9	5.4	7.6	8.4	10.0	12.2	15.4	17.6	19.1	20.8	22.2
80°	2.2	3.1	4.6	5.4	6.1	8.4	10.0	11.5	13.0	14.6	15.4
82.5°	1.5	2.2	3.1	3.1	3.9	4.6	6.1	7.6	8.4	9.2	10.0
85°	0.8	0.8	1.5	1.5	2.2	2.2	3.1	3.9	4.6	5.4	6.1
87.5°	0.8	0.8	0.8	0.8	1.5	1.5	2.2	2.2	2.2	3.1	3.1
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°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2
2.5°	539.9	542.2	539.9	541.5	540.8	540.8	539.9	540.8
5°	542.2	545.2	542.2	544.5	543.0	543.0	543.0	543.8
7.5°	544.5	547.6	545.2	547.6	546.9	546.1	546.1	547.6
10°	546.9	549.1	547.6	549.9	549.1	548.4	548.4	549.9
12.5°	546.9	549.9	548.4	550.6	549.9	549.1	549.1	549.9
15°	544.5	548.4	546.1	548.4	547.6	546.9	546.9	548.4
17.5°	537.6	540.8	539.1	540.8	540.8	539.9	540.8	541.5
20°	528.4	530.8	529.2	530.8	530.8	529.2	530.0	530.8
22.5°	515.4	517.8	516.1	517.8	516.9	516.1	516.1	515.4
25°	499.2	502.4	500.0	501.6	500.0	498.5	498.5	499.2
27.5°	479.4	481.6	478.6	480.1	478.6	477.0	477.0	476.2
30°	453.2	454.0	451.8	453.2	451.8	451.0	449.4	449.4
32.5°	421.9	422.6	420.2	420.2	418.8	418.8	415.8	418.0
35°	385.0	385.8	385.0	384.2	382.0	381.1	380.4	380.4
37.5°	346.6	346.6	344.4	343.6	342.0	340.5	341.2	339.0
40°	307.5	306.8	304.5	305.2	304.5	302.1	301.4	300.6
42.5°	270.8	270.8	268.4	269.2	267.6	266.9	264.6	265.4
45°	238.5	238.5	236.2	236.2	235.5	233.1	233.9	232.4
47.5°	209.4	209.4	208.6	208.6	206.2	205.5	205.5	205.5
50°	184.1	184.1	184.1	184.1	183.2	182.5	181.8	182.5
52.5°	162.6	164.1	163.4	163.4	162.6	161.9	161.0	161.0
55°	143.4	144.2	144.2	145.0	144.2	143.4	144.2	143.4
57.5°	126.5	128.1	128.1	128.1	128.1	128.1	127.4	126.5
60°	112.0	112.8	112.8	113.5	113.5	113.5	112.8	112.8
62.5°	97.4	98.9	99.8	99.8	100.5	99.8	99.8	99.8
65°	85.9	87.4	88.2	87.4	88.2	88.2	87.4	87.4
67.5°	72.1	73.6	73.6	73.6	73.6	74.4	73.6	73.6
70°	58.2	59.9	59.0	59.9	59.9	59.9	59.9	59.9
72.5°	44.5	45.2	46.0	46.0	46.8	46.0	46.0	46.0
75°	32.2	33.8	33.8	33.8	33.8	34.5	34.5	34.5
77.5°	23.0	23.8	23.8	24.5	24.5	24.5	24.5	25.2
80°	16.1	16.1	16.9	16.9	17.6	17.6	17.6	17.6
82.5°	10.8	11.5	11.5	11.5	11.5	11.5	11.5	11.5
85°	6.1	6.9	6.9	6.9	6.9	7.6	7.6	7.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.1	3.1
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)