

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: P252669

Luminaire Tested: **LE_6B15D010 EC6B10209035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252669
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_6B15D010 EC6B10209035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1482.5 lumens
Efficiency: N/A
Efficacy: 102.9 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

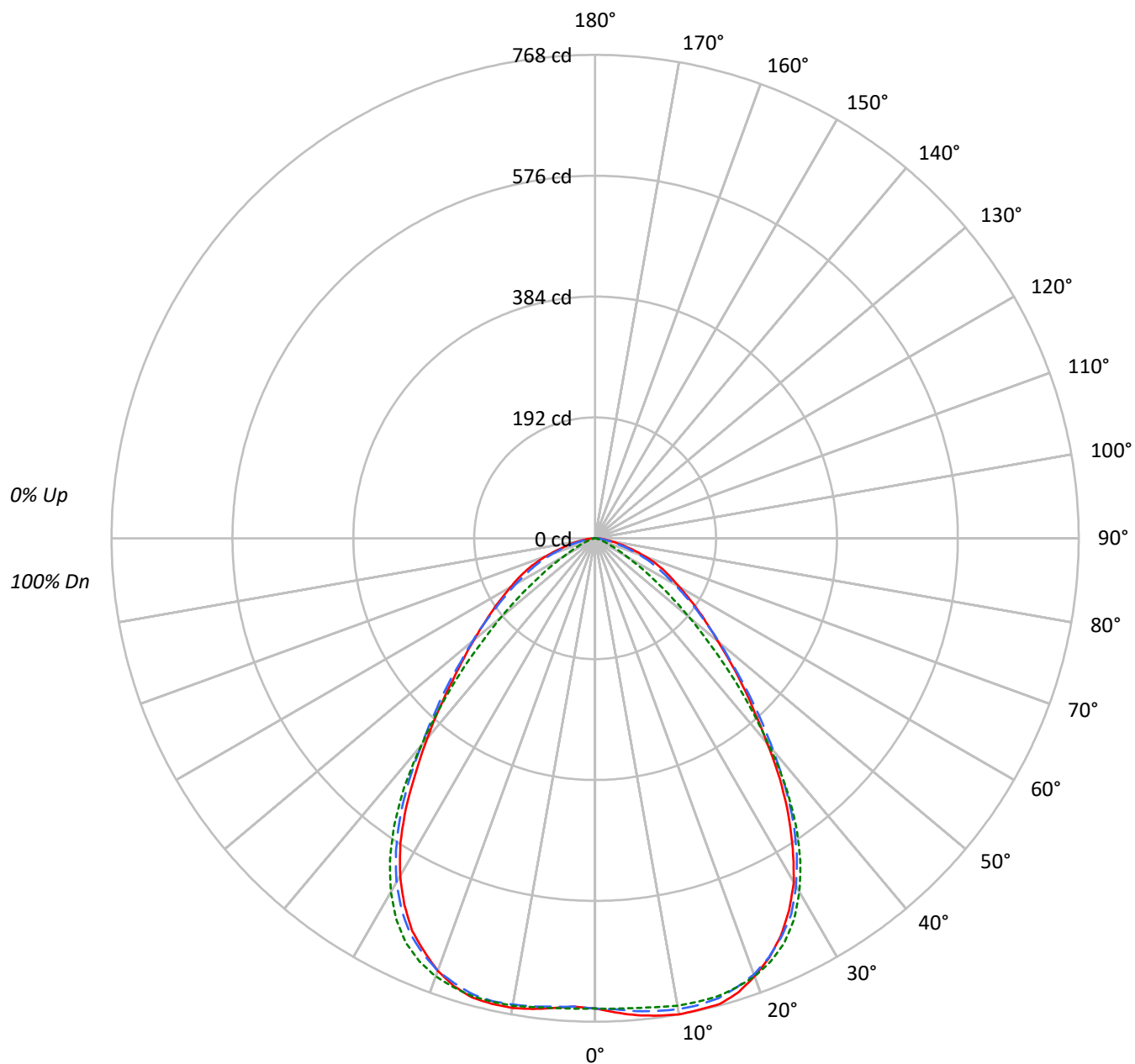
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75		93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65		87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58		80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52		75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47		70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42		66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48728	48728	48728
5°	49812	49052	49052
10°	50878	49964	50182
15°	51730	50873	51021
20°	51418	51418	50759
25°	50188	51109	49511
30°	47520	48861	46639
35°	42578	44266	41734
40°	36178	36621	35267
45°	30613	27974	29534
50°	25841	19731	25516
55°	22703	12739	22464
60°	20120	7581	20251
65°	18586	4569	18586
70°	16118	2632	15718
75°	12805	1613	11973
80°	9543	1165	9092
85°	8683	749	7935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	4.9
10°-20°	212.8	14.4
20°-30°	320.1	21.6
30°-40°	336.5	22.7
40°-50°	251.4	17.0
50°-60°	156.5	10.6
60°-70°	89.0	6.0
70°-80°	36.7	2.5
80°-90°	7.6	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°	604.8	40.8
0°-40°	941.3	63.5
0°-60°	1349.3	91.0
0°-90°	1482.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	747	747	747	747	747	
5°	761	754	749	747	749	73
15°	766	756	753	750	755	215
25°	697	699	710	694	688	319
35°	535	548	556	540	524	332
45°	332	339	303	333	320	257
55°	200	196	112	192	198	180
65°	120	108	30	108	120	119
75°	51	40	6	39	48	55
85°	12	7	1	6	11	13
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°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	754.2	753.2	754.2	752.2	751.1	751.1	752.2	750.1	749.0	750.1	749.0
5°	760.6	758.5	759.6	758.5	756.4	756.4	757.5	754.2	754.2	755.4	754.2
7.5°	764.9	764.9	764.9	762.8	761.8	760.6	762.8	759.6	758.5	758.5	757.5
10°	768.0	767.0	768.0	765.9	763.9	762.8	764.9	762.8	760.6	762.8	759.6
12.5°	767.0	767.0	767.0	765.9	763.9	762.8	764.9	761.8	760.6	761.8	759.6
15°	765.9	762.8	763.9	762.8	759.6	759.6	760.6	757.5	755.4	758.5	756.4
17.5°	756.4	754.2	755.4	753.2	751.1	750.1	751.1	750.1	748.0	750.1	748.0
20°	740.6	740.6	741.6	739.5	737.4	736.4	738.5	736.4	734.2	737.4	737.4
22.5°	721.5	721.5	721.5	720.5	719.5	719.5	719.5	718.4	717.4	719.5	720.5
25°	697.2	696.2	697.2	698.4	697.2	696.2	697.2	697.2	695.1	699.4	699.4
27.5°	666.6	666.6	668.8	667.6	667.6	666.6	668.8	668.8	667.6	670.9	674.0
30°	630.8	628.6	630.8	630.8	631.8	631.8	632.9	632.9	632.9	636.0	638.1
32.5°	584.2	585.2	588.5	587.4	586.4	589.5	589.5	591.6	592.6	594.8	595.9
35°	534.6	535.6	535.6	536.6	538.8	536.6	542.0	540.9	542.0	546.2	548.2
37.5°	481.8	478.6	483.9	481.8	482.8	482.8	484.9	486.0	489.1	494.4	494.4
40°	424.8	425.8	427.9	428.9	430.0	430.0	430.0	433.1	434.2	440.5	439.5
42.5°	375.0	375.0	377.1	378.2	378.2	378.2	378.2	381.4	383.5	385.6	387.8
45°	331.8	328.5	330.6	330.6	332.8	331.8	333.9	336.0	337.0	340.1	339.1
47.5°	290.5	289.5	290.5	291.6	290.5	291.6	292.6	293.8	294.8	294.8	294.8
50°	254.6	254.6	255.6	256.8	256.8	256.8	256.8	257.8	257.8	259.9	257.8
52.5°	225.0	226.1	226.1	225.0	226.1	226.1	227.1	227.1	226.1	226.1	222.9
55°	199.6	198.6	199.6	198.6	199.6	199.6	198.6	198.6	197.5	196.5	195.5
57.5°	175.4	175.4	175.4	175.4	174.4	175.4	174.4	173.2	173.2	171.1	168.0
60°	154.2	154.2	154.2	154.2	154.2	153.1	154.2	153.1	151.1	149.0	144.8
62.5°	136.2	135.2	136.2	135.2	135.2	134.1	134.1	133.1	131.0	128.9	124.6
65°	120.4	121.5	120.4	120.4	119.4	118.4	118.4	117.2	114.1	112.0	107.8
67.5°	103.5	102.5	102.5	102.5	101.4	101.4	101.4	99.2	97.2	94.0	89.8
70°	84.5	84.5	84.5	83.5	83.5	82.4	82.4	81.4	79.2	77.1	71.9
72.5°	66.5	66.5	66.5	64.5	65.5	64.5	64.5	62.4	61.2	58.1	54.9
75°	50.8	50.8	49.6	49.6	48.6	47.5	47.5	46.5	45.4	43.4	40.1
77.5°	37.0	37.0	37.0	35.9	34.9	33.8	33.8	32.8	31.8	30.6	28.5
80°	25.4	25.4	25.4	25.4	24.2	23.2	23.2	22.1	22.1	21.1	19.0
82.5°	16.9	16.9	16.9	16.9	15.9	15.9	15.9	14.8	13.8	13.8	11.6
85°	11.6	11.6	10.6	10.6	10.6	10.6	9.5	9.5	8.5	7.4	7.4
87.5°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	5.2	4.2	4.2	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	752.2	752.2	751.1	748.0	749.0	748.0	749.0	748.0	744.8	748.0	744.8
5°	756.4	757.5	755.4	751.1	752.2	751.1	751.1	750.1	746.9	749.0	746.9
7.5°	760.6	759.6	758.5	754.2	755.4	754.2	754.2	752.2	749.0	751.1	748.0
10°	762.8	762.8	760.6	756.4	756.4	755.4	756.4	755.4	751.1	754.2	752.2
12.5°	762.8	761.8	761.8	756.4	757.5	756.4	757.5	755.4	752.2	754.2	753.2
15°	759.6	759.6	758.5	753.2	754.2	754.2	755.4	753.2	750.1	753.2	751.1
17.5°	753.2	753.2	752.2	748.0	750.1	750.1	751.1	749.0	745.9	748.0	748.0
20°	740.6	741.6	741.6	738.5	740.6	740.6	741.6	740.6	739.5	740.6	738.5
22.5°	725.8	727.9	727.9	724.8	726.9	726.9	730.0	729.0	726.9	727.9	726.9
25°	703.6	705.8	707.9	705.8	707.9	707.9	711.0	710.0	707.9	710.0	706.8
27.5°	678.2	679.2	681.4	679.2	682.5	681.4	684.6	683.5	680.4	683.5	682.5
30°	642.4	646.5	649.8	646.5	649.8	649.8	651.9	650.8	649.8	648.6	648.6
32.5°	602.1	606.4	606.4	605.4	607.5	607.5	608.5	606.4	605.4	606.4	607.5
35°	552.5	554.6	556.8	555.8	556.8	557.8	556.8	557.8	554.6	555.8	555.8
37.5°	498.6	500.8	500.8	497.6	499.8	499.8	497.6	497.6	495.5	497.6	493.4
40°	441.6	439.5	440.5	438.4	436.4	436.4	435.2	431.0	428.9	430.0	431.0
42.5°	385.6	385.6	382.4	377.1	371.9	371.9	368.8	366.6	362.4	364.5	363.4
45°	338.1	332.8	328.5	320.1	316.9	314.9	309.5	304.2	302.1	303.2	302.1
47.5°	292.6	288.4	277.9	266.2	263.0	259.9	253.5	247.2	245.1	243.0	243.0
50°	254.6	247.2	235.6	222.9	217.6	212.4	203.9	197.5	193.4	194.4	194.4
52.5°	219.8	211.2	197.5	181.8	175.4	169.0	161.6	154.2	151.1	150.0	150.0
55°	189.1	179.6	165.9	147.9	142.6	135.2	125.8	117.2	113.0	112.0	114.1
57.5°	161.6	153.1	137.4	119.4	113.0	105.6	96.1	88.8	83.5	82.4	83.5
60°	139.5	127.9	114.1	97.2	88.8	82.4	71.9	65.5	60.2	58.1	59.1
62.5°	117.2	106.8	93.0	76.1	69.8	63.4	53.9	46.5	42.2	41.2	42.2
65°	100.4	89.8	77.1	62.4	56.0	49.6	41.2	33.8	30.6	29.6	30.6
67.5°	83.5	74.0	63.4	49.6	44.4	39.1	30.6	25.4	21.1	20.1	21.1
70°	67.6	59.1	48.6	39.1	33.8	29.6	23.2	18.0	14.8	13.8	14.8
72.5°	50.8	44.4	37.0	28.5	25.4	22.1	16.9	12.6	10.6	9.5	10.6
75°	37.0	31.8	26.4	20.1	18.0	15.9	11.6	8.5	7.4	6.4	7.4
77.5°	25.4	22.1	18.0	13.8	11.6	10.6	7.4	6.4	5.2	4.2	4.2
80°	16.9	14.8	11.6	9.5	8.5	7.4	5.2	4.2	3.1	3.1	3.1
82.5°	10.6	8.5	7.4	5.2	4.2	4.2	3.1	2.1	2.1	2.1	2.1
85°	6.4	5.2	4.2	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
87.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	746.9	744.8	744.8	745.9	746.9	748.0	745.9	744.8	744.8	748.0	745.9
5°	746.9	745.9	745.9	745.9	748.0	749.0	746.9	745.9	746.9	750.1	749.0
7.5°	750.1	748.0	749.0	749.0	750.1	752.2	750.1	749.0	750.1	753.2	751.1
10°	752.2	750.1	751.1	750.1	753.2	754.2	752.2	751.1	752.2	756.4	755.4
12.5°	753.2	752.2	752.2	751.1	754.2	755.4	753.2	752.2	753.2	756.4	755.4
15°	751.1	750.1	750.1	750.1	752.2	754.2	751.1	750.1	750.1	753.2	752.2
17.5°	746.9	744.8	744.8	744.8	745.9	746.9	743.8	742.8	741.6	744.8	743.8
20°	739.5	737.4	735.2	735.2	736.4	736.4	734.2	731.1	731.1	732.1	730.0
22.5°	725.8	724.8	722.6	721.5	723.6	722.6	718.4	715.2	714.1	715.2	713.1
25°	706.8	704.6	703.6	702.5	703.6	702.5	698.4	694.1	694.1	694.1	690.9
27.5°	680.4	678.2	677.2	677.2	678.2	676.1	671.9	667.6	665.6	665.6	662.4
30°	646.5	646.5	645.5	644.5	643.4	643.4	637.0	632.9	630.8	631.8	629.6
32.5°	605.4	604.2	603.2	600.1	601.1	600.1	594.8	591.6	588.5	586.4	585.2
35°	552.5	552.5	551.5	551.5	551.5	550.4	545.1	542.0	539.9	538.8	535.6
37.5°	494.4	493.4	492.2	492.2	492.2	492.2	489.1	486.0	486.0	484.9	482.8
40°	428.9	430.0	431.0	430.0	433.1	436.4	432.1	430.0	428.9	432.1	427.9
42.5°	365.5	364.5	369.8	370.9	370.9	376.1	377.1	378.2	377.1	379.2	379.2
45°	304.2	303.2	308.5	310.6	315.9	322.2	325.4	330.6	332.8	334.9	332.8
47.5°	246.1	250.4	254.6	259.9	264.1	274.6	281.0	286.2	288.4	291.6	291.6
50°	197.5	201.8	209.1	213.4	218.6	231.4	241.9	249.4	253.5	256.8	255.6
52.5°	152.1	159.5	169.0	173.2	180.6	195.5	207.1	215.5	220.8	224.0	225.0
55°	117.2	123.6	133.1	139.5	146.9	162.8	177.5	187.0	192.2	196.5	198.6
57.5°	86.6	94.0	104.6	109.9	118.4	136.2	149.0	160.6	166.9	172.2	173.2
60°	63.4	70.8	80.2	86.6	95.1	113.0	127.9	138.4	145.8	150.0	152.1
62.5°	45.4	52.9	62.4	68.6	76.1	91.9	106.8	117.2	124.6	130.0	133.1
65°	32.8	40.1	49.6	54.9	61.2	76.1	89.8	100.4	107.8	114.1	116.2
67.5°	24.2	29.6	38.0	43.4	49.6	61.2	72.9	82.4	89.8	95.1	97.2
70°	18.0	22.1	29.6	32.8	37.0	47.5	57.0	65.5	71.9	76.1	78.1
72.5°	12.6	15.9	21.1	24.2	27.5	35.9	43.4	49.6	53.9	58.1	60.2
75°	8.5	10.6	14.8	16.9	19.0	25.4	30.6	35.9	39.1	42.2	43.4
77.5°	5.2	7.4	10.6	11.6	13.8	16.9	21.1	24.2	26.4	28.5	30.6
80°	3.1	4.2	6.4	7.4	8.5	11.6	13.8	15.9	18.0	20.1	21.1
82.5°	2.1	3.1	4.2	4.2	5.2	6.4	8.5	10.6	11.6	12.6	13.8
85°	1.0	1.0	2.1	2.1	3.1	3.1	4.2	5.2	6.4	7.4	8.5
87.5°	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	3.1	4.2	4.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	743.8	746.9	743.8	745.9	744.8	744.8	743.8	744.8
5°	746.9	751.1	746.9	750.1	748.0	748.0	748.0	749.0
7.5°	750.1	754.2	751.1	754.2	753.2	752.2	752.2	754.2
10°	753.2	756.4	754.2	757.5	756.4	755.4	755.4	757.5
12.5°	753.2	757.5	755.4	758.5	757.5	756.4	756.4	757.5
15°	750.1	755.4	752.2	755.4	754.2	753.2	753.2	755.4
17.5°	740.6	744.8	742.8	744.8	744.8	743.8	744.8	745.9
20°	727.9	731.1	729.0	731.1	731.1	729.0	730.0	731.1
22.5°	710.0	713.1	711.0	713.1	712.0	711.0	711.0	710.0
25°	687.8	692.0	688.8	690.9	688.8	686.8	686.8	687.8
27.5°	660.2	663.5	659.2	661.4	659.2	657.1	657.1	656.0
30°	624.4	625.4	622.2	624.4	622.2	621.2	619.1	619.1
32.5°	581.0	582.1	579.0	579.0	576.9	576.9	572.6	575.8
35°	530.4	531.4	530.4	529.2	526.1	525.0	524.0	524.0
37.5°	477.5	477.5	474.4	473.2	471.1	469.1	470.1	467.0
40°	423.6	422.6	419.4	420.5	419.4	416.2	415.2	414.1
42.5°	372.9	372.9	369.8	370.9	368.8	367.6	364.5	365.5
45°	328.5	328.5	325.4	325.4	324.4	321.1	322.2	320.1
47.5°	288.4	288.4	287.4	287.4	284.1	283.1	283.1	283.1
50°	253.5	253.5	253.5	253.5	252.5	251.4	250.4	251.4
52.5°	224.0	226.1	225.0	225.0	224.0	222.9	221.9	221.9
55°	197.5	198.6	198.6	199.6	198.6	197.5	198.6	197.5
57.5°	174.4	176.4	176.4	176.4	176.4	176.4	175.4	174.4
60°	154.2	155.2	155.2	156.4	156.4	156.4	155.2	155.2
62.5°	134.1	136.2	137.4	137.4	138.4	137.4	137.4	137.4
65°	118.4	120.4	121.5	120.4	121.5	121.5	120.4	120.4
67.5°	99.2	101.4	101.4	101.4	101.4	102.5	101.4	101.4
70°	80.2	82.4	81.4	82.4	82.4	82.4	82.4	82.4
72.5°	61.2	62.4	63.4	63.4	64.5	63.4	63.4	63.4
75°	44.4	46.5	46.5	46.5	46.5	47.5	47.5	47.5
77.5°	31.8	32.8	32.8	33.8	33.8	33.8	33.8	34.9
80°	22.1	22.1	23.2	23.2	24.2	24.2	24.2	24.2
82.5°	14.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9
85°	8.5	9.5	9.5	9.5	9.5	10.6	10.6	10.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	4.2	4.2
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)