

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: P252251

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1391.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

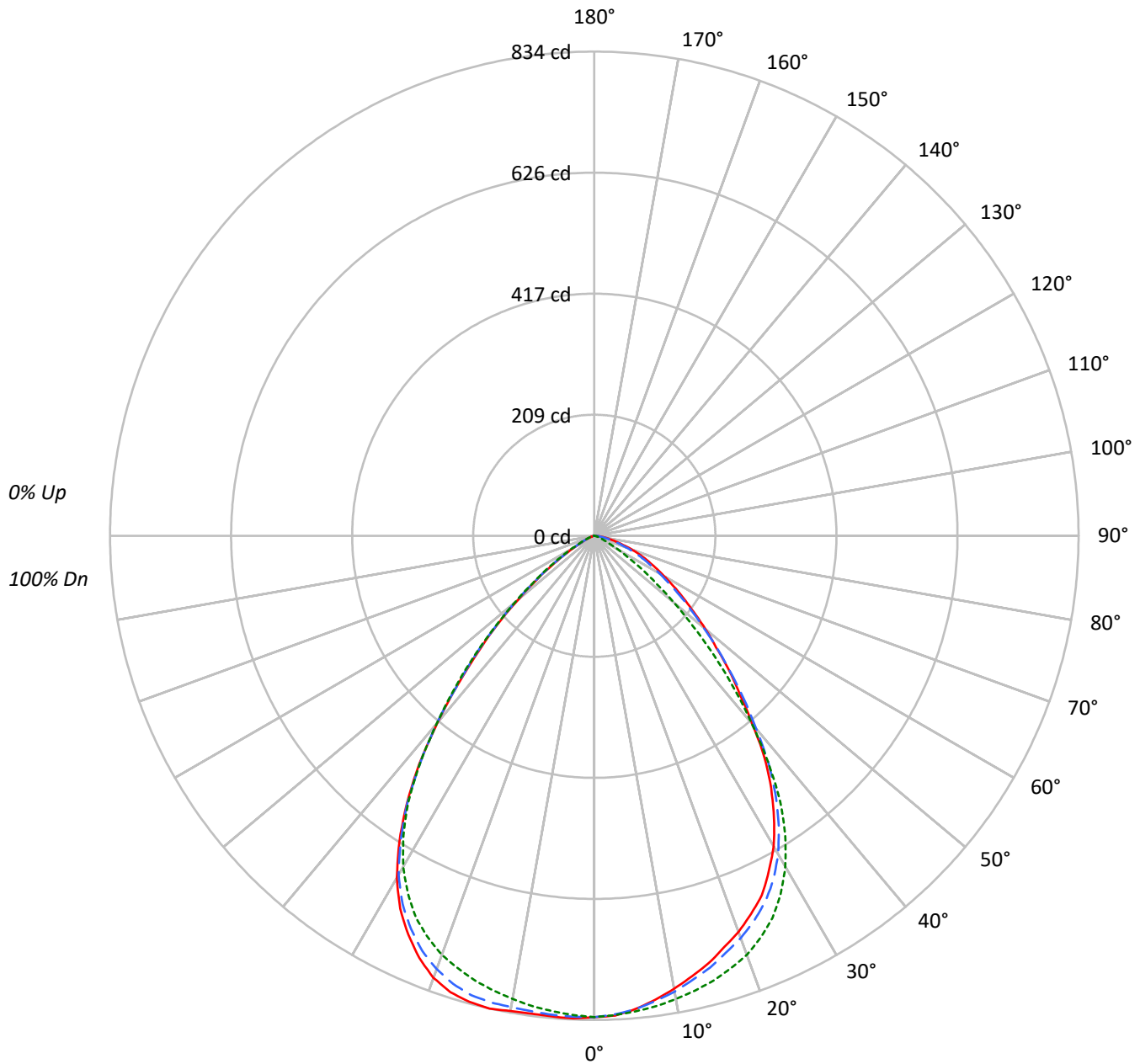
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	82	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	74	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	66	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	60	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	54	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	45	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	41	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	54098	54098	54098
5°	53584	53846	54435
10°	52481	53673	55065
15°	51474	53574	56141
20°	50411	53327	56250
25°	49166	52268	54572
30°	46556	49569	51227
35°	42283	44433	44832
40°	36076	35906	35735
45°	30309	26895	26055
50°	25313	18188	17275
55°	21293	11158	10135
60°	18033	5885	5089
65°	15607	3087	2470
70°	12990	1908	1335
75°	9579	1260	756
80°	7514	751	376
85°	5988	749	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	5.6
10°-20°	223.8	16.1
20°-30°	330.4	23.8
30°-40°	340.6	24.5
40°-50°	235.2	16.9
50°-60°	115.9	8.3
60°-70°	47.0	3.4
70°-80°	16.7	1.2
80°-90°	3.5	0.2
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°	632.3	45.5
0°-40°	972.9	69.9
0°-60°	1324.0	95.2
0°-90°	1391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	829	829	829	829	829	
5°	818	818	822	828	831	77
15°	762	770	793	819	831	215
25°	683	696	726	747	758	312
35°	531	544	558	561	563	329
45°	328	330	292	288	282	254
55°	187	180	98	92	89	169
65°	101	91	20	16	16	100
75°	38	32	5	3	3	43
85°	8	6	1	0	0	10
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°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
2.5°	827.2	824.2	826.2	822.2	827.2	822.2	823.2	824.2	823.2	824.2	825.2
5°	818.2	815.2	818.2	813.2	818.2	815.2	815.2	816.2	816.2	817.2	818.2
7.5°	806.2	803.2	806.2	801.2	807.2	804.2	804.2	806.2	805.2	806.2	808.2
10°	792.2	788.2	791.2	788.2	794.2	790.2	792.2	792.2	792.2	795.2	797.2
12.5°	777.2	773.1	777.2	772.1	778.2	775.2	776.2	779.2	780.2	782.2	783.2
15°	762.1	757.1	759.1	756.1	762.1	759.1	760.1	764.1	764.1	767.1	770.1
17.5°	743.1	739.1	743.1	739.1	744.1	742.1	744.1	747.1	747.1	750.1	753.1
20°	726.1	722.1	725.1	722.1	728.1	725.1	726.1	730.1	731.1	734.1	737.1
22.5°	705.1	702.1	704.1	701.1	707.1	705.1	706.1	710.1	711.1	713.1	718.1
25°	683.0	677.0	680.0	678.0	684.0	681.0	683.0	687.0	689.0	692.0	696.1
27.5°	651.0	648.0	650.0	650.0	655.0	652.0	653.0	657.0	660.0	663.0	668.0
30°	618.0	613.0	615.0	616.0	620.0	618.0	620.0	624.0	625.0	629.0	633.0
32.5°	575.9	573.9	577.9	575.9	577.9	577.9	578.9	581.9	583.9	585.9	590.9
35°	530.9	526.8	530.9	528.8	533.9	530.9	533.9	536.9	536.9	540.9	543.9
37.5°	481.8	476.8	478.8	478.8	480.8	479.8	479.8	484.8	485.8	488.8	491.8
40°	423.6	421.6	425.6	424.6	425.6	425.6	426.6	429.6	431.6	432.6	433.6
42.5°	371.6	372.6	373.6	373.6	373.6	373.6	373.6	377.6	376.6	379.6	380.6
45°	328.5	324.5	326.5	325.5	328.5	325.5	328.5	331.5	329.5	332.5	330.5
47.5°	284.4	284.4	284.4	283.4	285.4	284.4	286.5	287.5	287.5	287.5	286.5
50°	249.4	246.4	247.4	247.4	248.4	247.4	249.4	250.4	250.4	248.4	244.4
52.5°	215.4	214.4	214.4	216.4	216.4	215.4	215.4	215.4	215.4	212.4	210.4
55°	187.2	185.2	186.2	186.2	186.2	186.2	187.2	186.2	186.2	183.2	180.2
57.5°	162.2	160.2	160.2	160.2	161.2	160.2	160.2	160.2	159.2	156.2	152.2
60°	138.2	137.2	138.2	138.2	139.2	138.2	138.2	138.2	136.2	133.2	129.2
62.5°	118.1	118.1	118.1	119.1	119.1	118.1	118.1	117.1	116.1	112.1	108.1
65°	101.1	100.1	101.1	101.1	102.1	102.1	101.1	100.1	99.1	95.1	91.1
67.5°	84.1	83.1	84.1	84.1	85.1	84.1	84.1	84.1	81.1	79.1	75.1
70°	68.1	67.1	67.1	67.1	68.1	66.1	67.1	67.1	65.1	62.1	58.1
72.5°	52.1	52.1	52.1	52.1	52.1	52.1	51.1	51.1	49.1	46.1	44.1
75°	38.0	38.0	39.0	39.0	38.0	38.0	38.0	37.0	36.0	34.0	32.0
77.5°	28.0	28.0	28.0	28.0	27.0	27.0	27.0	26.0	25.0	24.0	22.0
80°	20.0	20.0	20.0	19.0	20.0	19.0	19.0	19.0	17.0	16.0	15.0
82.5°	14.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	11.0	10.0
85°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.0	6.0	6.0
87.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
2.5°	825.2	825.2	827.2	824.2	829.2	826.2	825.2	830.2	827.2	826.2	828.2
5°	818.2	819.2	820.2	818.2	823.2	820.2	820.2	825.2	823.2	822.2	825.2
7.5°	809.2	810.2	812.2	811.2	815.2	813.2	814.2	819.2	817.2	817.2	820.2
10°	798.2	800.2	802.2	802.2	807.2	805.2	805.2	811.2	809.2	810.2	814.2
12.5°	785.2	788.2	791.2	792.2	797.2	794.2	795.2	802.2	801.2	802.2	806.2
15°	771.1	775.2	778.2	778.2	784.2	781.2	784.2	791.2	789.2	793.2	798.2
17.5°	755.1	759.1	763.1	764.1	770.1	768.1	772.1	779.2	779.2	781.2	787.2
20°	740.1	745.1	747.1	750.1	756.1	755.1	757.1	765.1	765.1	768.1	774.1
22.5°	720.1	725.1	729.1	732.1	737.1	737.1	740.1	747.1	747.1	749.1	755.1
25°	698.1	704.1	707.1	710.1	715.1	714.1	717.1	723.1	724.1	726.1	732.1
27.5°	670.0	675.0	679.0	681.0	688.0	684.0	687.0	694.1	693.0	695.1	700.1
30°	635.0	640.0	644.0	644.0	650.0	650.0	653.0	656.0	656.0	658.0	662.0
32.5°	593.9	599.9	599.9	602.9	606.9	602.9	606.9	610.9	608.9	612.0	615.0
35°	546.9	549.9	550.9	550.9	553.9	552.9	551.9	554.9	552.9	557.9	560.9
37.5°	489.8	493.8	491.8	493.8	492.8	489.8	489.8	494.8	490.8	491.8	494.8
40°	434.6	434.6	433.6	428.6	429.6	426.6	425.6	426.6	422.6	421.6	425.6
42.5°	377.6	376.6	373.6	366.5	367.6	362.5	358.5	358.5	356.5	355.5	356.5
45°	326.5	323.5	318.5	310.5	308.5	304.5	296.5	294.5	291.5	291.5	292.5
47.5°	279.4	275.4	267.4	258.4	253.4	248.4	240.4	237.4	232.4	230.4	232.4
50°	240.4	233.4	223.4	210.4	205.4	199.2	191.2	186.2	181.2	179.2	178.2
52.5°	204.4	194.2	184.2	168.2	164.2	158.2	147.2	142.2	137.2	133.2	133.2
55°	173.2	164.2	150.2	135.2	129.2	123.2	112.1	105.1	100.1	98.1	96.1
57.5°	145.2	135.2	122.1	106.1	100.1	94.1	83.1	76.1	71.1	68.1	66.1
60°	122.1	111.1	98.1	84.1	77.1	71.1	60.1	53.1	48.1	45.1	43.1
62.5°	100.1	91.1	78.1	65.1	59.1	53.1	44.1	37.0	32.0	30.0	27.0
65°	84.1	75.1	63.1	52.1	47.1	41.1	33.0	27.0	23.0	20.0	18.0
67.5°	68.1	61.1	51.1	41.1	36.0	32.0	25.0	20.0	16.0	14.0	13.0
70°	54.1	47.1	39.0	31.0	28.0	24.0	19.0	14.0	12.0	10.0	9.0
72.5°	40.0	35.0	29.0	23.0	20.0	18.0	13.0	11.0	8.0	7.0	6.0
75°	29.0	25.0	21.0	16.0	14.0	13.0	10.0	7.0	6.0	5.0	4.0
77.5°	20.0	18.0	14.0	11.0	10.0	9.0	7.0	5.0	4.0	3.0	3.0
80°	13.0	11.0	9.0	7.0	7.0	6.0	4.0	3.0	3.0	2.0	2.0
82.5°	8.0	7.0	6.0	5.0	4.0	4.0	3.0	2.0	2.0	1.0	1.0
85°	5.0	4.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
87.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
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°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
2.5°	828.2	828.2	830.2	827.2	829.2	829.2	831.2	827.2	829.2	830.2	832.2
5°	824.2	825.2	827.2	826.2	827.2	827.2	829.2	824.2	828.2	828.2	831.2
7.5°	820.2	820.2	822.2	821.2	823.2	824.2	826.2	822.2	826.2	826.2	829.2
10°	815.2	815.2	818.2	817.2	820.2	821.2	824.2	820.2	824.2	825.2	828.2
12.5°	808.2	809.2	812.2	812.2	815.2	817.2	820.2	818.2	823.2	824.2	828.2
15°	800.2	802.2	806.2	805.2	808.2	811.2	815.2	812.2	819.2	821.2	825.2
17.5°	790.2	792.2	795.2	795.2	798.2	800.2	805.2	803.2	809.2	810.2	815.2
20°	775.2	778.2	782.2	781.2	784.2	786.2	790.2	788.2	794.2	796.2	801.2
22.5°	757.1	759.1	762.1	762.1	765.1	767.1	771.1	768.1	774.1	775.2	779.2
25°	733.1	735.1	737.1	738.1	741.1	742.1	744.1	742.1	747.1	748.1	753.1
27.5°	702.1	703.1	706.1	706.1	708.1	709.1	712.1	708.1	715.1	715.1	718.1
30°	665.0	664.0	668.0	666.0	668.0	668.0	671.0	669.0	674.0	672.0	675.0
32.5°	616.0	618.0	618.0	616.0	620.0	619.0	619.0	617.0	620.0	621.0	623.0
35°	558.9	561.9	561.9	562.9	563.9	560.9	561.9	555.9	560.9	561.9	562.9
37.5°	496.8	493.8	495.8	492.8	497.8	491.8	491.8	487.8	491.8	491.8	492.8
40°	425.6	424.6	426.6	424.6	423.6	422.6	420.6	417.6	421.6	419.6	422.6
42.5°	358.5	357.5	357.5	355.5	354.5	354.5	352.5	350.5	349.5	349.5	354.5
45°	289.5	291.5	289.5	288.5	290.5	288.5	289.5	285.4	287.5	285.4	287.5
47.5°	231.4	232.4	230.4	228.4	231.4	228.4	228.4	225.4	229.4	229.4	227.4
50°	179.2	178.2	176.2	178.2	177.2	177.2	177.2	174.2	176.2	173.2	175.2
52.5°	132.2	131.2	131.2	130.2	131.2	130.2	130.2	129.2	129.2	128.2	129.2
55°	96.1	95.1	93.1	93.1	93.1	94.1	93.1	92.1	92.1	91.1	92.1
57.5°	65.1	63.1	63.1	63.1	63.1	62.1	62.1	61.1	62.1	61.1	62.1
60°	42.1	42.1	40.0	40.0	40.0	40.0	40.0	39.0	40.0	40.0	40.0
62.5°	26.0	26.0	25.0	24.0	25.0	24.0	24.0	24.0	25.0	24.0	25.0
65°	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
67.5°	12.0	11.0	11.0	11.0	11.0	11.0	11.0	10.0	11.0	11.0	11.0
70°	8.0	8.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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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CATALOG NUMBER: LE_6B15D010 EC6B10209027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
2.5°	829.2	830.2	828.2	829.2	827.2	829.2	830.2	832.2
5°	827.2	828.2	826.2	828.2	826.2	828.2	829.2	831.2
7.5°	825.2	827.2	825.2	827.2	825.2	827.2	828.2	830.2
10°	825.2	828.2	826.2	829.2	826.2	828.2	830.2	831.2
12.5°	825.2	828.2	827.2	829.2	828.2	830.2	832.2	834.2
15°	823.2	826.2	824.2	827.2	826.2	827.2	831.2	831.2
17.5°	812.2	815.2	815.2	817.2	817.2	820.2	822.2	824.2
20°	798.2	801.2	800.2	803.2	803.2	806.2	808.2	810.2
22.5°	777.2	781.2	780.2	783.2	782.2	784.2	788.2	787.2
25°	750.1	755.1	754.1	756.1	755.1	755.1	757.1	758.1
27.5°	717.1	720.1	719.1	721.1	719.1	721.1	723.1	724.1
30°	674.0	676.0	675.0	676.0	675.0	677.0	678.0	680.0
32.5°	622.0	625.0	622.0	624.0	623.0	623.0	627.0	625.0
35°	559.9	560.9	561.9	561.9	559.9	560.9	562.9	562.9
37.5°	490.8	495.8	489.8	492.8	491.8	491.8	491.8	494.8
40°	418.6	419.6	417.6	417.6	417.6	416.6	420.6	419.6
42.5°	350.5	351.5	350.5	347.5	348.5	348.5	351.5	347.5
45°	284.4	286.5	285.4	285.4	283.4	283.4	284.4	282.4
47.5°	225.4	227.4	224.4	225.4	223.4	225.4	224.4	226.4
50°	171.2	173.2	172.2	173.2	173.2	171.2	174.2	170.2
52.5°	128.2	129.2	128.2	127.2	126.2	126.2	128.2	127.2
55°	91.1	90.1	90.1	90.1	91.1	91.1	90.1	89.1
57.5°	61.1	61.1	60.1	60.1	61.1	59.1	60.1	59.1
60°	39.0	39.0	39.0	39.0	38.0	39.0	39.0	39.0
62.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
65°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
67.5°	10.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0
70°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)