

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: P252661

Luminaire Tested: **LE_6B15D010 EC6B10208027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252661
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 EC6B10208027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.5 lumens
Efficiency: N/A
Efficacy: 113.7 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

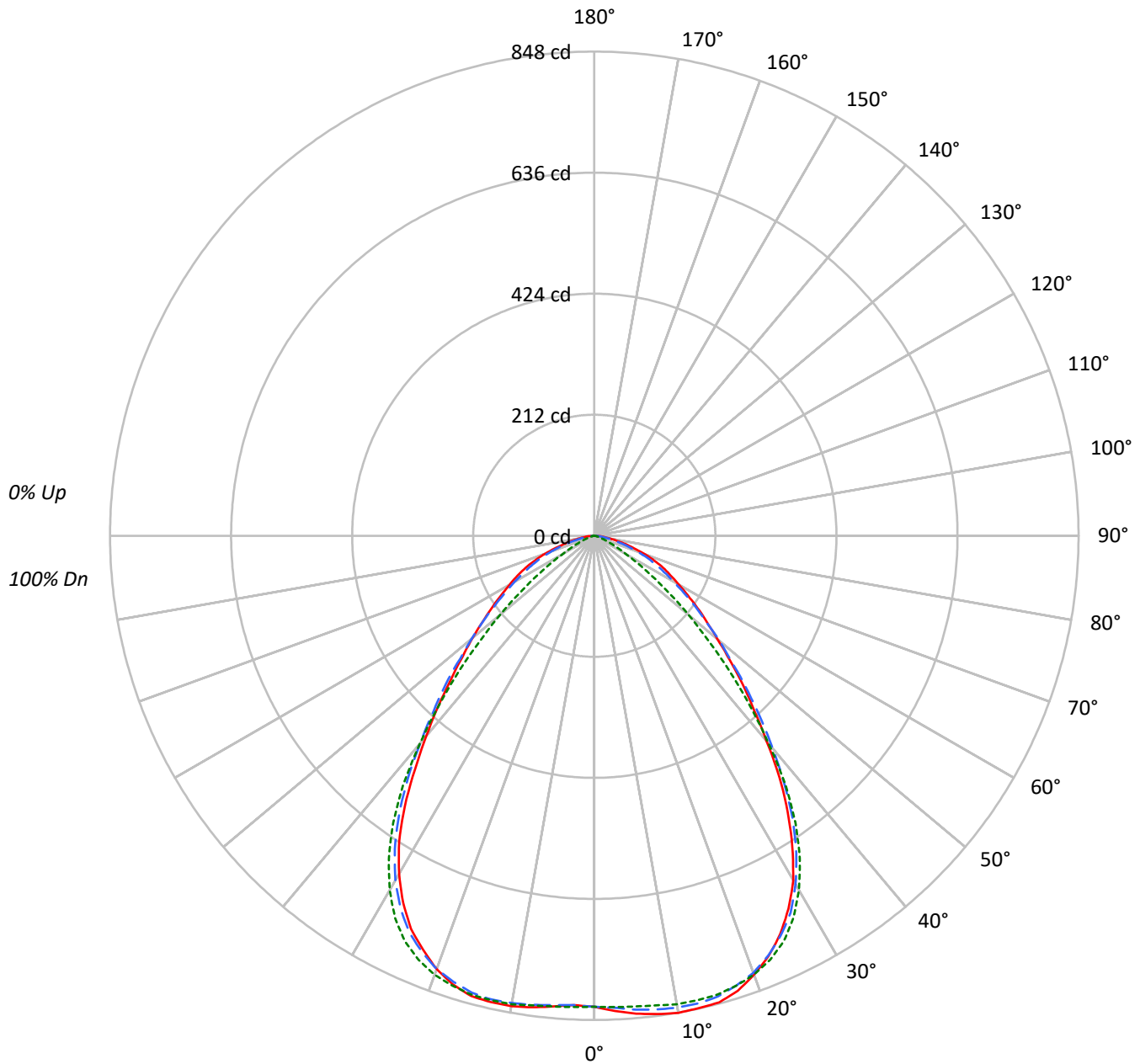
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	53824	53824	53824
5°	55018	54186	54186
10°	56204	55190	55422
15°	57141	56195	56357
20°	56792	56792	56063
25°	55436	56443	54680
30°	52477	53976	51513
35°	47030	48886	46098
40°	39951	40445	38955
45°	33806	30899	32625
50°	28541	21801	28196
55°	25080	14081	24819
60°	22234	8364	22378
65°	20532	5033	20532
70°	17816	2880	17358
75°	14116	1764	13234
80°	10520	1315	10106
85°	9656	823	8683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	4.9
10°-20°	235.1	14.4
20°-30°	353.5	21.6
30°-40°	371.7	22.7
40°-50°	277.7	17.0
50°-60°	172.9	10.6
60°-70°	98.3	6.0
70°-80°	40.5	2.5
80°-90°	8.4	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°	668.0	40.8
0°-40°	1039.8	63.5
0°-60°	1490.3	91.0
0°-90°	1637.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	825	825	825	825	825	
5°	840	833	827	825	827	80
15°	846	836	832	828	834	238
25°	770	772	784	767	760	353
35°	590	606	614	596	579	366
45°	366	375	335	368	354	284
55°	220	216	124	212	218	198
65°	133	119	33	119	133	131
75°	56	44	7	43	52	61
85°	13	8	1	7	12	14
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°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	833.1	832.0	833.1	830.9	829.6	829.6	830.9	828.5	827.4	828.5	827.4
5°	840.1	837.9	839.0	837.9	835.5	835.5	836.6	833.1	833.1	834.4	833.1
7.5°	844.9	844.9	844.9	842.5	841.4	840.1	842.5	839.0	837.9	837.9	836.6
10°	848.4	847.1	848.4	846.0	843.6	842.5	844.9	842.5	840.1	842.5	839.0
12.5°	847.1	847.1	847.1	846.0	843.6	842.5	844.9	841.4	840.1	841.4	839.0
15°	846.0	842.5	843.6	842.5	839.0	839.0	840.1	836.6	834.4	837.9	835.5
17.5°	835.5	833.1	834.4	832.0	829.6	828.5	829.6	828.5	826.1	828.5	826.1
20°	818.0	818.0	819.1	816.9	814.5	813.4	815.6	813.4	811.0	814.5	814.5
22.5°	797.0	797.0	797.0	795.9	794.6	794.6	794.6	793.5	792.4	794.6	795.9
25°	770.1	769.0	770.1	771.4	770.1	769.0	770.1	770.1	767.9	772.5	772.5
27.5°	736.4	736.4	738.6	737.5	737.5	736.4	738.6	738.6	737.5	741.0	744.5
30°	696.6	694.4	696.6	696.6	697.9	697.9	699.0	699.0	699.0	702.5	704.9
32.5°	645.2	646.5	650.0	648.8	647.6	651.1	651.1	653.5	654.6	657.0	658.1
35°	590.5	591.6	591.6	592.8	595.1	592.8	598.6	597.5	598.6	603.2	605.6
37.5°	532.1	528.6	534.5	532.1	533.2	533.2	535.6	536.8	540.2	546.1	546.1
40°	469.1	470.2	472.6	473.8	474.9	474.9	474.9	478.4	479.6	486.6	485.4
42.5°	414.2	414.2	416.6	417.8	417.8	417.8	417.8	421.2	423.6	425.9	428.2
45°	366.4	362.9	365.2	365.2	367.6	366.4	368.8	371.1	372.2	375.8	374.6
47.5°	320.9	319.8	320.9	322.1	320.9	322.1	323.2	324.4	325.6	325.6	325.6
50°	281.2	281.2	282.4	283.5	283.5	283.5	283.5	284.8	284.8	287.0	284.8
52.5°	248.5	249.8	249.8	248.5	249.8	249.8	250.9	250.9	249.8	249.8	246.2
55°	220.5	219.4	220.5	219.4	220.5	220.5	219.4	219.4	218.2	217.0	215.9
57.5°	193.8	193.8	193.8	193.8	192.5	193.8	192.5	191.4	191.4	189.0	185.5
60°	170.4	170.4	170.4	170.4	170.4	169.2	170.4	169.2	166.9	164.5	159.9
62.5°	150.5	149.4	150.5	149.4	149.4	148.2	148.2	147.0	144.8	142.4	137.8
65°	133.0	134.2	133.0	133.0	131.9	130.8	130.8	129.5	126.0	123.8	119.0
67.5°	114.4	113.2	113.2	113.2	112.0	112.0	112.0	109.8	107.4	103.9	99.2
70°	93.4	93.4	93.4	92.1	92.1	91.0	91.0	89.9	87.5	85.1	79.4
72.5°	73.5	73.5	73.5	71.1	72.4	71.1	71.1	68.9	67.6	64.1	60.6
75°	56.0	56.0	54.9	54.9	53.6	52.5	52.5	51.4	50.1	47.9	44.4
77.5°	40.9	40.9	40.9	39.6	38.5	37.4	37.4	36.1	35.0	33.9	31.5
80°	28.0	28.0	28.0	28.0	26.9	25.6	25.6	24.5	24.5	23.4	21.0
82.5°	18.6	18.6	18.6	18.6	17.5	17.5	17.5	16.4	15.1	15.1	12.9
85°	12.9	12.9	11.6	11.6	11.6	11.6	10.5	10.5	9.4	8.1	8.1
87.5°	7.0	7.0	7.0	7.0	5.9	5.9	5.9	5.9	4.6	4.6	3.5
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°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	830.9	830.9	829.6	826.1	827.4	826.1	827.4	826.1	822.6	826.1	822.6
5°	835.5	836.6	834.4	829.6	830.9	829.6	829.6	828.5	825.0	827.4	825.0
7.5°	840.1	839.0	837.9	833.1	834.4	833.1	833.1	830.9	827.4	829.6	826.1
10°	842.5	842.5	840.1	835.5	835.5	834.4	835.5	834.4	829.6	833.1	830.9
12.5°	842.5	841.4	841.4	835.5	836.6	835.5	836.6	834.4	830.9	833.1	832.0
15°	839.0	839.0	837.9	832.0	833.1	833.1	834.4	832.0	828.5	832.0	829.6
17.5°	832.0	832.0	830.9	826.1	828.5	828.5	829.6	827.4	823.9	826.1	826.1
20°	818.0	819.1	819.1	815.6	818.0	818.0	819.1	818.0	816.9	818.0	815.6
22.5°	801.6	804.0	804.0	800.5	802.9	802.9	806.4	805.1	802.9	804.0	802.9
25°	777.1	779.5	781.9	779.5	781.9	781.9	785.4	784.1	781.9	784.1	780.6
27.5°	749.1	750.4	752.6	750.4	753.9	752.6	756.1	755.0	751.5	755.0	753.9
30°	709.5	714.1	717.6	714.1	717.6	717.6	720.0	718.9	717.6	716.5	716.5
32.5°	665.1	669.8	669.8	668.6	671.0	671.0	672.1	669.8	668.6	669.8	671.0
35°	610.2	612.6	615.0	613.8	615.0	616.1	615.0	616.1	612.6	613.8	613.8
37.5°	550.8	553.1	553.1	549.6	552.0	552.0	549.6	549.6	547.2	549.6	545.0
40°	487.8	485.4	486.6	484.2	481.9	481.9	480.8	476.1	473.8	474.9	476.1
42.5°	425.9	425.9	422.4	416.6	410.8	410.8	407.2	404.9	400.2	402.6	401.4
45°	373.4	367.6	362.9	353.6	350.1	347.8	341.9	336.1	333.8	334.9	333.8
47.5°	323.2	318.6	306.9	294.0	290.5	287.0	280.0	273.0	270.8	268.4	268.4
50°	281.2	273.0	260.2	246.2	240.4	234.5	225.2	218.2	213.5	214.8	214.8
52.5°	242.8	233.4	218.2	200.8	193.8	186.8	178.5	170.4	166.9	165.8	165.8
55°	208.9	198.4	183.2	163.4	157.5	149.4	138.9	129.5	124.9	123.8	126.0
57.5°	178.5	169.2	151.8	131.9	124.9	116.8	106.2	98.0	92.1	91.0	92.1
60°	154.0	141.2	126.0	107.4	98.0	91.0	79.4	72.4	66.5	64.1	65.4
62.5°	129.5	117.9	102.8	84.0	77.0	70.0	59.5	51.4	46.6	45.5	46.6
65°	110.9	99.2	85.1	68.9	61.9	54.9	45.5	37.4	33.9	32.6	33.9
67.5°	92.1	81.6	70.0	54.9	49.0	43.1	33.9	28.0	23.4	22.1	23.4
70°	74.6	65.4	53.6	43.1	37.4	32.6	25.6	19.9	16.4	15.1	16.4
72.5°	56.0	49.0	40.9	31.5	28.0	24.5	18.6	14.0	11.6	10.5	11.6
75°	40.9	35.0	29.1	22.1	19.9	17.5	12.9	9.4	8.1	7.0	8.1
77.5°	28.0	24.5	19.9	15.1	12.9	11.6	8.1	7.0	5.9	4.6	4.6
80°	18.6	16.4	12.9	10.5	9.4	8.1	5.9	4.6	3.5	3.5	3.5
82.5°	11.6	9.4	8.1	5.9	4.6	4.6	3.5	2.4	2.4	2.4	2.4
85°	7.0	5.9	4.6	3.5	2.4	2.4	1.1	1.1	1.1	1.1	1.1
87.5°	3.5	2.4	2.4	1.1	1.1	1.1	1.1	1.1	0.0	0.0	1.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	825.0	822.6	822.6	823.9	825.0	826.1	823.9	822.6	822.6	826.1	823.9
5°	825.0	823.9	823.9	823.9	826.1	827.4	825.0	823.9	825.0	828.5	827.4
7.5°	828.5	826.1	827.4	827.4	828.5	830.9	828.5	827.4	828.5	832.0	829.6
10°	830.9	828.5	829.6	828.5	832.0	833.1	830.9	829.6	830.9	835.5	834.4
12.5°	832.0	830.9	830.9	829.6	833.1	834.4	832.0	830.9	832.0	835.5	834.4
15°	829.6	828.5	828.5	828.5	830.9	833.1	829.6	828.5	828.5	832.0	830.9
17.5°	825.0	822.6	822.6	822.6	823.9	825.0	821.5	820.4	819.1	822.6	821.5
20°	816.9	814.5	812.1	812.1	813.4	813.4	811.0	807.5	807.5	808.6	806.4
22.5°	801.6	800.5	798.1	797.0	799.4	798.1	793.5	790.0	788.9	790.0	787.6
25°	780.6	778.4	777.1	776.0	777.1	776.0	771.4	766.6	766.6	766.6	763.1
27.5°	751.5	749.1	748.0	748.0	749.1	746.9	742.1	737.5	735.1	735.1	731.6
30°	714.1	714.1	713.0	711.9	710.6	710.6	703.6	699.0	696.6	697.9	695.5
32.5°	668.6	667.5	666.2	662.8	664.0	662.8	657.0	653.5	650.0	647.6	646.5
35°	610.2	610.2	609.1	609.1	609.1	608.0	602.1	598.6	596.2	595.1	591.6
37.5°	546.1	545.0	543.8	543.8	543.8	543.8	540.2	536.8	536.8	535.6	533.2
40°	473.8	474.9	476.1	474.9	478.4	481.9	477.2	474.9	473.8	477.2	472.6
42.5°	403.8	402.6	408.4	409.6	409.6	415.4	416.6	417.8	416.6	418.9	418.9
45°	336.1	334.9	340.8	343.1	348.9	355.9	359.4	365.2	367.6	369.9	367.6
47.5°	271.9	276.5	281.2	287.0	291.8	303.4	310.4	316.2	318.6	322.1	322.1
50°	218.2	222.9	231.0	235.8	241.5	255.5	267.2	275.4	280.0	283.5	282.4
52.5°	168.0	176.2	186.8	191.4	199.5	215.9	228.8	238.0	243.9	247.4	248.5
55°	129.5	136.5	147.0	154.0	162.2	179.8	196.0	206.5	212.4	217.0	219.4
57.5°	95.6	103.9	115.5	121.4	130.8	150.5	164.5	177.4	184.4	190.2	191.4
60°	70.0	78.1	88.6	95.6	105.0	124.9	141.2	152.9	161.0	165.8	168.0
62.5°	50.1	58.4	68.9	75.9	84.0	101.5	117.9	129.5	137.8	143.5	147.0
65°	36.1	44.4	54.9	60.6	67.6	84.0	99.2	110.9	119.0	126.0	128.4
67.5°	26.9	32.6	42.0	47.9	54.9	67.6	80.5	91.0	99.2	105.0	107.4
70°	19.9	24.5	32.6	36.1	40.9	52.5	63.0	72.4	79.4	84.0	86.4
72.5°	14.0	17.5	23.4	26.9	30.4	39.6	47.9	54.9	59.5	64.1	66.5
75°	9.4	11.6	16.4	18.6	21.0	28.0	33.9	39.6	43.1	46.6	47.9
77.5°	5.9	8.1	11.6	12.9	15.1	18.6	23.4	26.9	29.1	31.5	33.9
80°	3.5	4.6	7.0	8.1	9.4	12.9	15.1	17.5	19.9	22.1	23.4
82.5°	2.4	3.5	4.6	4.6	5.9	7.0	9.4	11.6	12.9	14.0	15.1
85°	1.1	1.1	2.4	2.4	3.5	3.5	4.6	5.9	7.0	8.1	9.4
87.5°	1.1	1.1	1.1	1.1	2.4	2.4	3.5	3.5	3.5	4.6	4.6
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 EC6B10208027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	821.5	825.0	821.5	823.9	822.6	822.6	821.5	822.6
5°	825.0	829.6	825.0	828.5	826.1	826.1	826.1	827.4
7.5°	828.5	833.1	829.6	833.1	832.0	830.9	830.9	833.1
10°	832.0	835.5	833.1	836.6	835.5	834.4	834.4	836.6
12.5°	832.0	836.6	834.4	837.9	836.6	835.5	835.5	836.6
15°	828.5	834.4	830.9	834.4	833.1	832.0	832.0	834.4
17.5°	818.0	822.6	820.4	822.6	822.6	821.5	822.6	823.9
20°	804.0	807.5	805.1	807.5	807.5	805.1	806.4	807.5
22.5°	784.1	787.6	785.4	787.6	786.5	785.4	785.4	784.1
25°	759.6	764.4	760.9	763.1	760.9	758.5	758.5	759.6
27.5°	729.4	732.9	728.1	730.5	728.1	725.9	725.9	724.6
30°	689.6	690.9	687.2	689.6	687.2	686.1	683.8	683.8
32.5°	641.8	643.0	639.5	639.5	637.1	637.1	632.5	636.0
35°	585.8	587.0	585.8	584.6	581.1	580.0	578.8	578.8
37.5°	527.5	527.5	524.0	522.8	520.5	518.1	519.2	515.8
40°	467.9	466.8	463.2	464.4	463.2	459.8	458.6	457.4
42.5°	411.9	411.9	408.4	409.6	407.2	406.1	402.6	403.8
45°	362.9	362.9	359.4	359.4	358.2	354.8	355.9	353.6
47.5°	318.6	318.6	317.4	317.4	313.9	312.8	312.8	312.8
50°	280.0	280.0	280.0	280.0	278.9	277.8	276.5	277.8
52.5°	247.4	249.8	248.5	248.5	247.4	246.2	245.0	245.0
55°	218.2	219.4	219.4	220.5	219.4	218.2	219.4	218.2
57.5°	192.5	194.9	194.9	194.9	194.9	194.9	193.8	192.5
60°	170.4	171.5	171.5	172.8	172.8	172.8	171.5	171.5
62.5°	148.2	150.5	151.8	151.8	152.9	151.8	151.8	151.8
65°	130.8	133.0	134.2	133.0	134.2	134.2	133.0	133.0
67.5°	109.8	112.0	112.0	112.0	112.0	113.2	112.0	112.0
70°	88.6	91.0	89.9	91.0	91.0	91.0	91.0	91.0
72.5°	67.6	68.9	70.0	70.0	71.1	70.0	70.0	70.0
75°	49.0	51.4	51.4	51.4	51.4	52.5	52.5	52.5
77.5°	35.0	36.1	36.1	37.4	37.4	37.4	37.4	38.5
80°	24.5	24.5	25.6	25.6	26.9	26.9	26.9	26.9
82.5°	16.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5
85°	9.4	10.5	10.5	10.5	10.5	11.6	11.6	11.6
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	4.6	4.6
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)