

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: P252239

Luminaire Tested: **LE_6B10D010 EC6B10209030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252239
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_6B10D010 EC6B10209030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1048.7 lumens
Efficiency: N/A
Efficacy: 104.9 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

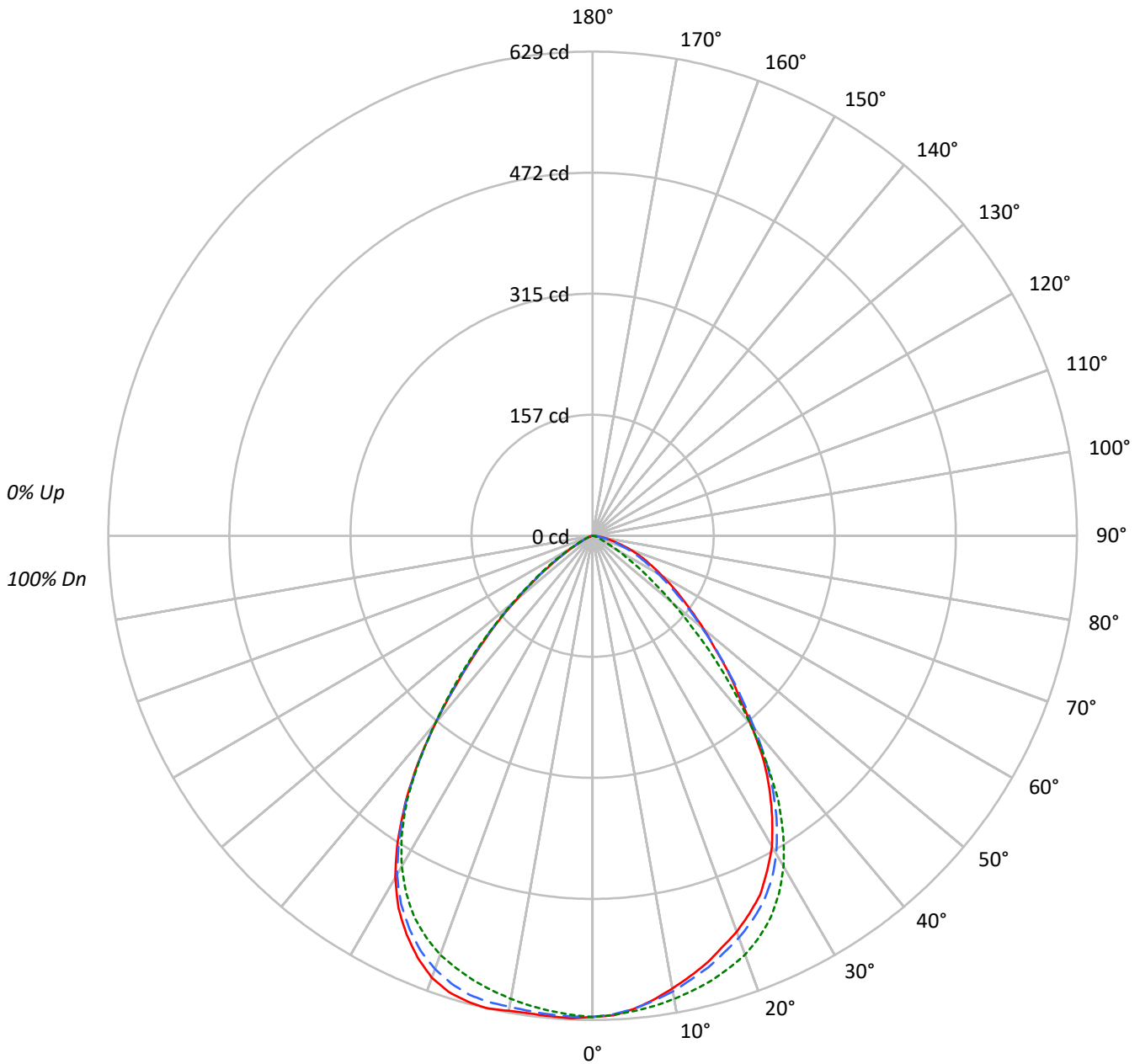
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40782	40782	40782
5°	40401	40597	41036
10°	39556	40464	41510
15°	38803	40390	42322
20°	38005	40206	42406
25°	37065	39405	41139
30°	35098	37365	38616
35°	31866	33490	33785
40°	27202	27074	26946
45°	22845	20280	19643
50°	19081	13712	13032
55°	16049	8417	7644
60°	13583	4436	3849
65°	11763	2331	1868
70°	9805	1431	992
75°	7260	958	555
80°	5673	564	301
85°	4491	599	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	5.6
10°-20°	168.7	16.1
20°-30°	249.1	23.8
30°-40°	256.7	24.5
40°-50°	177.3	16.9
50°-60°	87.4	8.3
60°-70°	35.4	3.4
70°-80°	12.6	1.2
80°-90°	2.6	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°	476.7	45.5
0°-40°	733.4	69.9
0°-60°	998.1	95.2
0°-90°	1048.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	625	625	625	625	625	
5°	617	617	620	624	627	58
15°	574	581	598	618	627	162
25°	515	525	547	563	572	235
35°	400	410	420	423	424	248
45°	248	249	220	217	213	191
55°	141	136	74	70	67	128
65°	76	69	15	12	12	76
75°	29	24	4	2	2	32
85°	6	4	1	0	0	7
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°	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1
2.5°	623.6	621.4	622.9	619.9	623.6	619.9	620.6	621.4	620.6	621.4	622.1
5°	616.9	614.5	616.9	613.0	616.9	614.5	614.5	615.2	615.2	616.0	616.9
7.5°	607.8	605.5	607.8	604.0	608.5	606.2	606.2	607.8	607.0	607.8	609.2
10°	597.1	594.1	596.4	594.1	598.8	595.6	597.1	597.1	597.1	599.5	601.0
12.5°	585.9	582.9	585.9	582.1	586.6	584.4	585.1	587.4	588.1	589.6	590.4
15°	574.5	570.8	572.2	570.0	574.5	572.2	573.0	576.0	576.0	578.2	580.6
17.5°	560.2	557.1	560.2	557.1	561.0	559.4	561.0	563.2	563.2	565.5	567.8
20°	547.4	544.4	546.6	544.4	548.9	546.6	547.4	550.4	551.1	553.4	555.6
22.5°	531.5	529.2	530.8	528.5	533.0	531.5	532.2	535.2	536.0	537.5	541.4
25°	514.9	510.4	512.6	511.1	515.6	513.4	514.9	517.9	519.4	521.8	524.8
27.5°	490.8	488.5	490.0	490.0	493.8	491.5	492.2	495.2	497.5	499.8	503.6
30°	465.9	462.0	463.5	464.2	467.4	465.9	467.4	470.4	471.1	474.1	477.1
32.5°	434.1	432.6	435.6	434.1	435.6	435.6	436.4	438.6	440.1	441.6	445.4
35°	400.1	397.1	400.1	398.6	402.4	400.1	402.4	404.6	404.6	407.6	410.0
37.5°	363.1	359.4	360.9	360.9	362.4	361.6	361.6	365.4	366.1	368.4	370.8
40°	319.4	317.9	320.9	320.1	320.9	320.9	321.6	323.9	325.4	326.1	326.9
42.5°	280.1	280.9	281.6	281.6	281.6	281.6	281.6	284.6	283.9	286.1	286.9
45°	247.6	244.6	246.1	245.4	247.6	245.4	247.6	249.9	248.4	250.6	249.1
47.5°	214.4	214.4	214.4	213.6	215.1	214.4	215.9	216.6	216.6	216.6	215.9
50°	188.0	185.8	186.5	186.5	187.2	186.5	188.0	188.8	188.8	187.2	184.2
52.5°	162.4	161.6	161.6	163.1	163.1	162.4	162.4	162.4	162.4	160.0	158.5
55°	141.1	139.6	140.4	140.4	140.4	140.4	141.1	140.4	140.4	138.1	135.9
57.5°	122.2	120.8	120.8	120.8	121.5	120.8	120.8	120.8	120.0	117.8	114.8
60°	104.1	103.4	104.1	104.1	105.0	104.1	104.1	104.1	102.6	100.4	97.4
62.5°	89.1	89.1	89.1	89.9	89.9	89.1	89.1	88.4	87.6	84.5	81.5
65°	76.2	75.5	76.2	76.2	77.0	77.0	76.2	75.5	74.8	71.8	68.8
67.5°	63.4	62.6	63.4	63.4	64.1	63.4	63.4	63.4	61.1	59.6	56.6
70°	51.4	50.6	50.6	50.6	51.4	49.9	50.6	50.6	49.1	46.8	43.8
72.5°	39.2	39.2	39.2	39.2	39.2	39.2	38.5	38.5	37.0	34.8	33.2
75°	28.8	28.8	29.5	29.5	28.8	28.8	28.8	27.9	27.1	25.6	24.1
77.5°	21.1	21.1	21.1	21.1	20.4	20.4	20.4	19.6	18.9	18.1	16.6
80°	15.1	15.1	15.1	14.4	15.1	14.4	14.4	14.4	12.9	12.1	11.4
82.5°	10.6	9.9	9.9	9.9	9.9	9.9	9.9	9.0	9.0	8.2	7.5
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.2	4.5	4.5
87.5°	3.0	3.8	3.8	3.8	3.8	3.8	3.8	3.0	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°	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1
2.5°	622.1	622.1	623.6	621.4	625.1	622.9	622.1	625.9	623.6	622.9	624.4
5°	616.9	617.6	618.4	616.9	620.6	618.4	618.4	622.1	620.6	619.9	622.1
7.5°	610.0	610.8	612.2	611.5	614.5	613.0	613.8	617.6	616.0	616.0	618.4
10°	601.8	603.2	604.8	604.8	608.5	607.0	607.0	611.5	610.0	610.8	613.8
12.5°	591.9	594.1	596.4	597.1	601.0	598.8	599.5	604.8	604.0	604.8	607.8
15°	581.4	584.4	586.6	586.6	591.1	588.9	591.1	596.4	594.9	598.0	601.8
17.5°	569.2	572.2	575.2	576.0	580.6	579.1	582.1	587.4	587.4	588.9	593.4
20°	557.9	561.8	563.2	565.5	570.0	569.2	570.8	576.8	576.8	579.1	583.6
22.5°	542.9	546.6	549.6	551.9	555.6	555.6	557.9	563.2	563.2	564.8	569.2
25°	526.2	530.8	533.0	535.2	539.0	538.2	540.5	545.1	545.9	547.4	551.9
27.5°	505.1	508.9	511.9	513.4	518.6	515.6	517.9	523.2	522.5	524.0	527.8
30°	478.6	482.4	485.5	485.5	490.0	490.0	492.2	494.5	494.5	496.0	499.0
32.5°	447.8	452.2	452.2	454.5	457.5	454.5	457.5	460.5	459.0	461.2	463.5
35°	412.2	414.5	415.2	415.2	417.5	416.8	416.0	418.2	416.8	420.5	422.8
37.5°	369.1	372.2	370.8	372.2	371.5	369.1	369.1	373.0	370.0	370.8	373.0
40°	327.6	327.6	326.9	323.1	323.9	321.6	320.9	321.6	318.6	317.9	320.9
42.5°	284.6	283.9	281.6	276.4	277.1	273.2	270.2	270.2	268.8	268.0	268.8
45°	246.1	243.9	240.1	234.0	232.5	229.5	223.5	222.0	219.8	219.8	220.5
47.5°	210.6	207.6	201.6	194.8	191.0	187.2	181.2	178.9	175.1	173.6	175.1
50°	181.2	175.9	168.4	158.5	154.8	150.2	144.2	140.4	136.6	135.1	134.4
52.5°	154.0	146.5	138.9	126.9	123.9	119.2	111.0	107.2	103.4	100.4	100.4
55°	130.6	123.9	113.2	101.9	97.4	92.9	84.5	79.2	75.5	74.0	72.5
57.5°	109.5	101.9	92.1	80.0	75.5	71.0	62.6	57.4	53.6	51.4	49.9
60°	92.1	83.8	74.0	63.4	58.1	53.6	45.2	40.0	36.2	34.0	32.5
62.5°	75.5	68.8	58.9	49.1	44.5	40.0	33.2	27.9	24.1	22.6	20.4
65°	63.4	56.6	47.6	39.2	35.5	31.0	24.9	20.4	17.4	15.1	13.6
67.5°	51.4	46.0	38.5	31.0	27.1	24.1	18.9	15.1	12.1	10.6	9.9
70°	40.8	35.5	29.5	23.4	21.1	18.1	14.4	10.6	9.0	7.5	6.8
72.5°	30.2	26.4	21.9	17.4	15.1	13.6	9.9	8.2	6.0	5.2	4.5
75°	21.9	18.9	15.9	12.1	10.6	9.9	7.5	5.2	4.5	3.8	3.0
77.5°	15.1	13.6	10.6	8.2	7.5	6.8	5.2	3.8	3.0	2.2	2.2
80°	9.9	8.2	6.8	5.2	5.2	4.5	3.0	2.2	2.2	1.5	1.5
82.5°	6.0	5.2	4.5	3.8	3.0	3.0	2.2	1.5	1.5	0.8	0.8
85°	3.8	3.0	2.2	2.2	1.5	1.5	1.5	0.8	0.8	0.8	0.8
87.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	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°	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1
2.5°	624.4	624.4	625.9	623.6	625.1	625.1	626.6	623.6	625.1	625.9	627.4
5°	621.4	622.1	623.6	622.9	623.6	623.6	625.1	621.4	624.4	624.4	626.6
7.5°	618.4	618.4	619.9	619.1	620.6	621.4	622.9	619.9	622.9	622.9	625.1
10°	614.5	614.5	616.9	616.0	618.4	619.1	621.4	618.4	621.4	622.1	624.4
12.5°	609.2	610.0	612.2	612.2	614.5	616.0	618.4	616.9	620.6	621.4	624.4
15°	603.2	604.8	607.8	607.0	609.2	611.5	614.5	612.2	617.6	619.1	622.1
17.5°	595.6	597.1	599.5	599.5	601.8	603.2	607.0	605.5	610.0	610.8	614.5
20°	584.4	586.6	589.6	588.9	591.1	592.6	595.6	594.1	598.8	600.2	604.0
22.5°	570.8	572.2	574.5	574.5	576.8	578.2	581.4	579.1	583.6	584.4	587.4
25°	552.6	554.1	555.6	556.4	558.6	559.4	561.0	559.4	563.2	564.0	567.8
27.5°	529.2	530.0	532.2	532.2	533.8	534.5	536.8	533.8	539.0	539.0	541.4
30°	501.2	500.5	503.6	502.0	503.6	503.6	505.9	504.4	508.1	506.6	508.9
32.5°	464.2	465.9	465.9	464.2	467.4	466.6	466.6	465.1	467.4	468.1	469.6
35°	421.2	423.5	423.5	424.2	425.0	422.8	423.5	419.0	422.8	423.5	424.2
37.5°	374.5	372.2	373.8	371.5	375.2	370.8	370.8	367.6	370.8	370.8	371.5
40°	320.9	320.1	321.6	320.1	319.4	318.6	317.1	314.9	317.9	316.4	318.6
42.5°	270.2	269.5	269.5	268.0	267.2	267.2	265.8	264.2	263.5	263.5	267.2
45°	218.2	219.8	218.2	217.4	219.0	217.4	218.2	215.1	216.6	215.1	216.6
47.5°	174.4	175.1	173.6	172.1	174.4	172.1	172.1	169.9	172.9	172.9	171.4
50°	135.1	134.4	132.9	134.4	133.6	133.6	133.6	131.4	132.9	130.6	132.1
52.5°	99.6	98.9	98.9	98.1	98.9	98.1	98.1	97.4	97.4	96.6	97.4
55°	72.5	71.8	70.2	70.2	70.2	71.0	70.2	69.5	69.5	68.8	69.5
57.5°	49.1	47.6	47.6	47.6	47.6	46.8	46.8	46.0	46.8	46.0	46.8
60°	31.8	31.8	30.2	30.2	30.2	30.2	30.2	29.5	30.2	30.2	30.2
62.5°	19.6	19.6	18.9	18.1	18.9	18.1	18.1	18.1	18.9	18.1	18.9
65°	12.9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
67.5°	9.0	8.2	8.2	8.2	8.2	8.2	8.2	7.5	8.2	8.2	8.2
70°	6.0	6.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	3.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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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CATALOG NUMBER: LE_6B10D010 EC6B10209030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1
2.5°	625.1	625.9	624.4	625.1	623.6	625.1	625.9	627.4
5°	623.6	624.4	622.9	624.4	622.9	624.4	625.1	626.6
7.5°	622.1	623.6	622.1	623.6	622.1	623.6	624.4	625.9
10°	622.1	624.4	622.9	625.1	622.9	624.4	625.9	626.6
12.5°	622.1	624.4	623.6	625.1	624.4	625.9	627.4	628.9
15°	620.6	622.9	621.4	623.6	622.9	623.6	626.6	626.6
17.5°	612.2	614.5	614.5	616.0	616.0	618.4	619.9	621.4
20°	601.8	604.0	603.2	605.5	605.5	607.8	609.2	610.8
22.5°	585.9	588.9	588.1	590.4	589.6	591.1	594.1	593.4
25°	565.5	569.2	568.5	570.0	569.2	569.2	570.8	571.5
27.5°	540.5	542.9	542.1	543.6	542.1	543.6	545.1	545.9
30°	508.1	509.6	508.9	509.6	508.9	510.4	511.1	512.6
32.5°	468.9	471.1	468.9	470.4	469.6	469.6	472.6	471.1
35°	422.0	422.8	423.5	423.5	422.0	422.8	424.2	424.2
37.5°	370.0	373.8	369.1	371.5	370.8	370.8	370.8	373.0
40°	315.6	316.4	314.9	314.9	314.9	314.1	317.1	316.4
42.5°	264.2	265.0	264.2	262.0	262.8	262.8	265.0	262.0
45°	214.4	215.9	215.1	215.1	213.6	213.6	214.4	212.9
47.5°	169.9	171.4	169.1	169.9	168.4	169.9	169.1	170.6
50°	129.1	130.6	129.9	130.6	130.6	129.1	131.4	128.4
52.5°	96.6	97.4	96.6	95.9	95.1	95.1	96.6	95.9
55°	68.8	68.0	68.0	68.0	68.8	68.8	68.0	67.2
57.5°	46.0	46.0	45.2	45.2	46.0	44.5	45.2	44.5
60°	29.5	29.5	29.5	29.5	28.8	29.5	29.5	29.5
62.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
65°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
67.5°	7.5	8.2	8.2	8.2	7.5	7.5	7.5	7.5
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)