

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: P252458

Luminaire Tested: **LE_6B15D010 EC6B10209024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1125.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

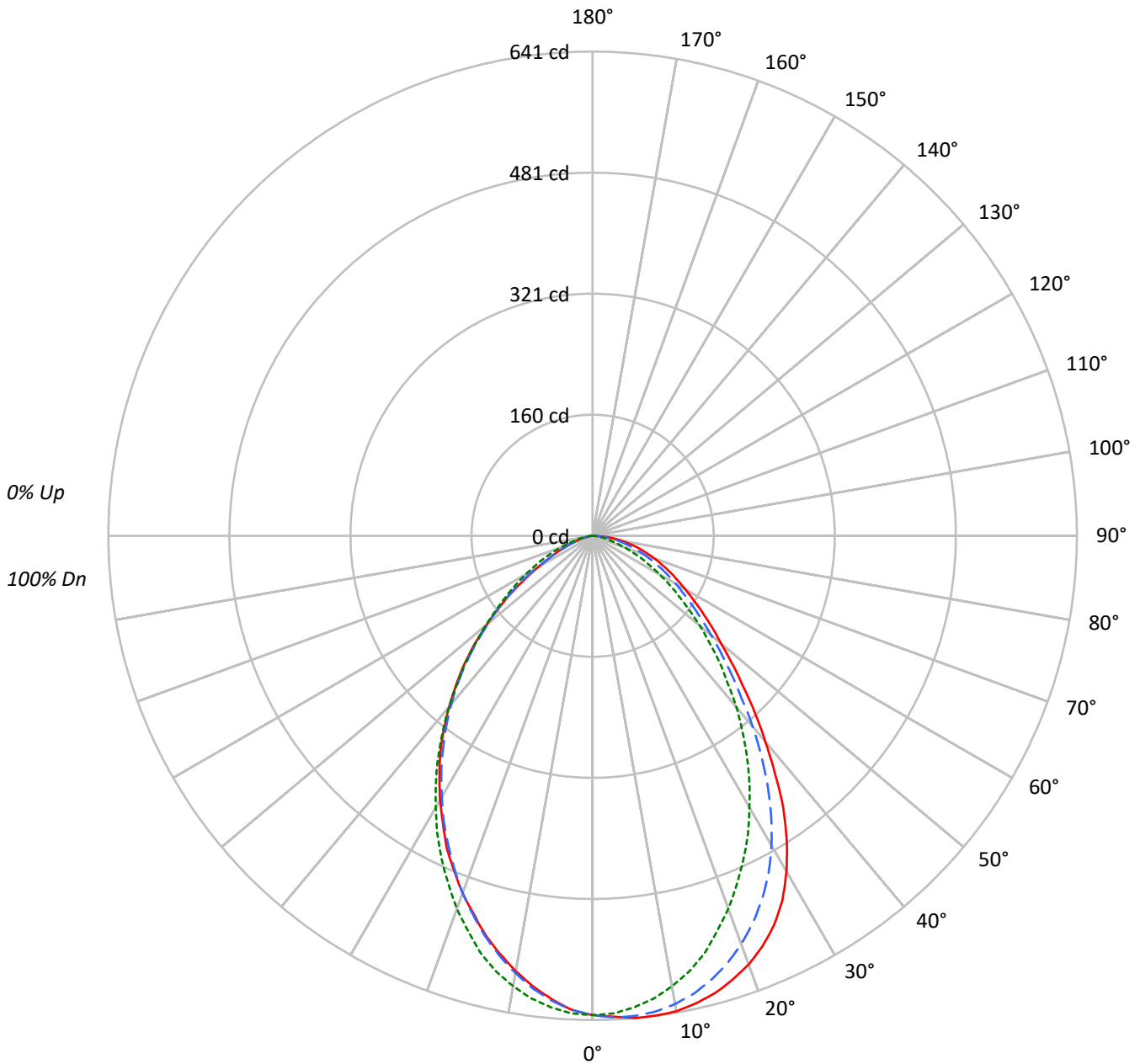
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41402	41402	41402
5°	41972	41049	40348
10°	42339	40119	38768
15°	42335	38641	36973
20°	41927	36477	34950
25°	40924	34013	32868
30°	38646	31271	30420
35°	35035	28361	28019
40°	30251	25218	25141
45°	25945	21959	22125
50°	22542	18787	18523
55°	20246	15833	14844
60°	18398	13335	10934
65°	17290	11022	8027
70°	16481	8584	5894
75°	15780	6201	4008
80°	14878	4321	2630
85°	13175	2620	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	5.3
10°-20°	162.6	14.5
20°-30°	225.7	20.1
30°-40°	233.8	20.8
40°-50°	192.1	17.1
50°-60°	132.1	11.7
60°-70°	75.9	6.7
70°-80°	34.9	3.1
80°-90°	8.5	0.8
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°	447.7	39.8
0°-40°	681.5	60.6
0°-60°	1005.7	89.4
0°-90°	1125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1125.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	635	635	635	635	635	
5°	641	638	627	618	616	61
15°	627	608	572	549	547	177
25°	568	531	472	452	457	260
35°	440	404	356	346	352	273
45°	281	260	238	235	240	219
55°	178	161	139	131	130	160
65°	112	98	71	50	52	111
75°	63	49	25	16	16	66
85°	18	12	4	2	2	20
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°	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6
2.5°	637.2	642.6	639.1	638.2	640.0	640.0	640.0	637.2	639.1	636.4	638.2
5°	640.9	645.2	641.8	640.0	641.8	642.6	640.0	638.2	640.9	637.2	638.2
7.5°	640.9	645.2	641.8	640.9	641.8	641.8	640.9	637.2	639.1	635.5	635.5
10°	639.1	642.6	639.1	637.2	638.2	637.2	637.2	632.9	633.8	629.4	629.4
12.5°	633.8	638.2	633.8	632.0	632.0	632.0	629.4	625.9	626.8	621.5	620.6
15°	626.8	630.2	625.9	624.1	624.1	623.2	621.5	616.1	616.1	610.9	608.2
17.5°	616.1	619.6	616.1	613.5	612.6	610.9	609.1	603.9	602.0	595.9	593.2
20°	603.9	606.5	602.9	600.2	598.5	596.8	593.2	588.0	586.1	580.0	575.6
22.5°	588.0	591.5	586.1	583.5	581.8	579.1	575.6	570.4	567.6	559.8	554.5
25°	568.5	570.4	565.9	563.2	559.8	558.0	555.4	548.2	545.6	536.9	530.6
27.5°	543.9	545.6	540.4	538.6	534.1	532.4	528.9	522.8	519.2	510.4	504.2
30°	513.0	514.8	511.2	508.6	505.1	501.6	498.9	492.8	487.5	478.6	473.4
32.5°	478.6	481.2	477.8	474.2	468.1	469.0	464.5	458.4	454.0	446.0	439.9
35°	439.9	441.6	437.2	436.4	432.8	429.2	424.9	420.5	417.9	409.0	403.8
37.5°	396.6	401.1	396.6	393.1	391.4	388.8	386.1	379.9	378.1	372.9	365.9
40°	355.2	357.9	355.2	351.8	349.1	349.1	345.5	342.0	337.6	332.4	329.6
42.5°	318.2	316.5	315.6	313.8	310.2	309.4	308.5	304.1	301.5	296.1	291.8
45°	281.2	282.1	280.2	279.4	276.8	275.0	273.2	269.8	268.9	263.6	260.0
47.5°	250.4	249.5	247.8	247.8	245.9	244.1	242.4	239.8	238.9	234.5	231.0
50°	222.1	223.0	222.1	221.2	218.6	217.8	216.0	214.2	212.4	208.0	204.5
52.5°	199.2	198.4	197.5	197.5	194.8	193.9	192.1	190.4	188.6	184.2	181.6
55°	178.0	178.0	177.1	176.2	173.6	172.8	171.9	170.1	167.5	164.0	161.2
57.5°	158.6	158.6	157.8	156.9	155.1	155.1	153.4	151.6	149.9	146.4	142.8
60°	141.0	141.9	141.0	140.1	138.4	138.4	137.5	134.9	134.0	129.6	126.9
62.5°	126.0	126.0	126.0	125.1	124.2	122.5	122.5	119.9	118.1	115.5	112.0
65°	112.0	112.0	112.0	111.1	109.2	108.4	107.5	105.8	104.0	101.4	97.9
67.5°	98.8	98.8	98.8	97.9	96.1	95.2	94.4	93.4	90.8	88.1	84.6
70°	86.4	86.4	85.5	84.6	83.8	82.9	82.0	80.2	78.5	74.9	72.2
72.5°	74.0	74.0	74.0	72.2	71.4	71.4	69.6	68.8	67.0	63.5	60.9
75°	62.6	61.8	61.8	60.9	60.0	59.0	58.1	57.2	54.6	52.9	49.4
77.5°	51.1	51.1	50.2	49.4	49.4	48.5	47.6	45.9	45.0	42.2	39.6
80°	39.6	39.6	39.6	39.6	38.8	37.9	37.9	36.1	35.2	32.6	30.9
82.5°	30.0	29.1	29.1	29.1	28.2	27.4	27.4	26.5	25.6	23.8	22.0
85°	17.6	16.8	16.8	16.8	15.9	15.9	15.0	15.0	14.1	12.4	12.4
87.5°	5.2	5.2	6.1	6.1	5.2	5.2	5.2	5.2	5.2	4.4	4.4
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°	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6
2.5°	636.4	639.1	635.5	634.6	638.2	636.4	635.5	633.8	634.6	632.9	630.2
5°	635.5	639.1	634.6	632.0	636.4	633.8	632.0	630.2	630.2	626.8	625.0
7.5°	632.9	634.6	630.2	627.6	630.2	627.6	625.9	623.2	622.4	617.9	615.2
10°	625.9	627.6	622.4	618.8	621.5	617.9	615.2	612.6	610.9	605.6	602.0
12.5°	616.1	617.0	610.9	606.5	608.2	605.6	601.1	597.6	595.9	590.6	586.1
15°	602.9	603.9	596.8	590.6	592.4	588.9	583.5	580.0	577.4	572.1	565.9
17.5°	587.1	586.1	578.2	572.1	573.0	568.5	563.2	558.0	554.5	548.2	543.9
20°	569.4	566.8	558.0	550.9	551.8	546.5	540.4	535.0	530.6	525.4	519.2
22.5°	547.4	543.9	536.0	527.1	528.0	523.6	514.8	510.4	506.0	498.9	493.6
25°	523.6	518.2	510.4	501.6	501.6	496.2	489.2	483.9	479.5	472.5	466.2
27.5°	495.4	492.8	482.1	475.1	474.2	469.0	462.8	456.6	451.4	445.1	439.0
30°	464.5	460.1	452.2	444.2	442.5	438.1	431.9	424.9	421.4	415.1	409.9
32.5°	431.9	427.5	418.8	410.8	409.9	406.4	401.1	394.0	390.5	386.1	382.6
35°	394.9	393.1	384.4	378.1	378.1	374.6	369.4	363.1	360.5	356.1	351.8
37.5°	359.6	357.0	349.1	343.8	343.8	339.4	334.1	331.4	328.8	325.2	322.6
40°	322.6	320.9	314.8	309.4	310.2	306.8	303.2	299.8	298.0	296.1	293.5
42.5°	288.2	286.5	282.1	277.6	277.6	275.0	271.5	268.9	267.1	264.5	263.6
45°	257.4	254.8	251.2	246.9	246.9	244.1	242.4	240.6	239.8	238.0	235.4
47.5°	227.4	225.6	222.1	217.8	217.8	217.8	214.2	211.5	211.5	209.8	208.9
50°	201.9	199.2	196.6	193.0	193.0	191.2	188.6	186.0	186.0	185.1	183.4
52.5°	178.0	176.2	172.8	169.2	169.2	167.5	164.9	164.0	163.1	160.4	159.5
55°	157.8	156.0	153.4	149.0	148.1	147.2	144.6	142.8	141.9	139.2	139.2
57.5°	139.2	137.5	133.1	130.5	129.6	127.9	125.1	123.4	122.5	120.8	119.0
60°	123.4	120.8	117.2	113.8	112.9	111.1	108.4	106.6	105.8	102.2	100.5
62.5°	108.4	105.8	102.2	98.8	97.9	96.1	92.5	90.8	89.0	85.5	83.8
65°	94.4	91.6	88.1	84.6	82.9	82.0	78.5	75.8	74.0	71.4	67.9
67.5°	81.1	78.5	74.9	70.5	70.5	67.9	65.2	62.6	60.0	57.2	54.6
70°	68.8	66.1	62.6	59.0	58.1	56.4	53.8	50.2	48.5	45.0	42.2
72.5°	57.2	54.6	51.1	47.6	46.8	45.0	42.2	38.8	36.1	33.5	30.9
75°	46.8	44.1	40.5	37.9	37.0	35.2	32.6	29.1	26.5	24.6	22.0
77.5°	37.0	34.4	31.8	29.1	28.2	26.5	23.8	22.0	19.4	17.6	15.0
80°	28.2	26.5	23.8	22.0	21.1	19.4	17.6	15.0	13.2	11.5	10.6
82.5°	20.2	18.5	16.8	14.1	14.1	12.4	11.5	9.8	7.9	7.0	6.1
85°	11.5	9.8	8.9	7.9	7.0	7.0	6.1	5.2	4.4	3.5	3.5
87.5°	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8
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°	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6
2.5°	630.2	631.1	629.4	631.1	629.4	630.2	628.5	630.2	628.5	630.2	626.8
5°	624.1	624.1	621.5	623.2	621.5	622.4	618.8	619.6	617.9	619.6	616.1
7.5°	613.5	614.4	610.0	611.8	609.1	609.1	606.5	607.4	604.8	605.6	602.9
10°	601.1	600.2	595.9	597.6	594.1	594.1	591.5	591.5	588.0	588.9	585.2
12.5°	583.5	582.6	577.4	579.1	575.6	575.6	573.0	573.0	569.4	571.2	567.6
15°	563.2	562.4	557.1	558.0	554.5	554.5	550.9	551.8	549.1	550.9	547.4
17.5°	540.4	539.5	534.1	535.0	530.6	531.5	528.9	528.0	526.2	527.1	524.5
20°	516.5	514.8	509.5	510.4	508.6	506.0	504.2	505.1	503.4	505.1	502.5
22.5°	491.9	488.4	483.9	483.9	482.1	482.1	479.5	481.2	477.8	480.4	478.6
25°	463.6	461.0	457.5	459.2	455.8	455.8	453.1	454.0	452.2	454.0	452.2
27.5°	436.4	434.6	429.2	431.0	428.4	429.2	426.6	427.5	426.6	428.4	426.6
30°	407.2	406.4	402.9	402.9	402.0	401.1	400.2	400.2	399.2	402.0	400.2
32.5°	379.9	377.2	373.8	376.4	372.0	374.6	372.9	374.6	372.9	374.6	373.8
35°	351.8	350.9	346.4	347.2	346.4	346.4	345.5	345.5	345.5	348.1	348.1
37.5°	321.8	320.9	318.2	319.1	317.4	316.5	316.5	318.2	318.2	320.0	320.0
40°	292.6	293.5	290.9	290.9	290.0	290.0	290.0	291.8	290.9	292.6	291.8
42.5°	263.6	263.6	260.9	261.8	260.9	261.8	261.8	263.6	263.6	264.5	263.6
45°	236.2	236.2	235.4	236.2	234.5	235.4	234.5	236.2	235.4	236.2	236.2
47.5°	208.9	208.9	208.9	208.0	208.0	208.0	208.0	208.0	207.1	208.9	208.0
50°	183.4	184.2	183.4	183.4	182.5	183.4	182.5	182.5	180.8	181.6	181.6
52.5°	160.4	160.4	158.6	158.6	158.6	157.8	157.8	157.8	156.9	156.9	155.1
55°	138.4	138.4	136.6	136.6	135.8	134.9	134.0	134.0	131.4	131.4	128.8
57.5°	118.1	117.2	114.6	114.6	112.9	112.0	111.1	110.1	108.4	106.6	105.8
60°	99.6	97.9	96.1	95.2	93.4	91.6	89.9	88.1	86.4	85.5	84.6
62.5°	82.0	79.4	77.6	76.8	74.9	72.2	70.5	68.8	67.0	66.1	64.4
65°	66.1	63.5	60.9	60.0	58.1	56.4	53.8	52.0	50.2	49.4	49.4
67.5°	52.0	49.4	45.9	45.9	44.1	42.2	40.5	38.8	37.9	38.8	38.8
70°	38.8	37.0	34.4	33.5	31.8	30.0	29.1	29.1	29.1	30.0	29.1
72.5°	29.1	26.5	24.6	23.8	22.9	22.0	22.0	22.0	21.1	22.0	22.0
75°	20.2	18.5	16.8	16.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	14.1	12.4	11.5	11.5	11.5	10.6	10.6	10.6	10.6	10.6	10.6
80°	8.9	8.9	7.9	7.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	634.6	634.6	634.6	634.6	634.6	634.6	634.6	634.6
2.5°	626.8	629.4	625.9	628.5	627.6	626.8	625.0	628.5
5°	616.1	617.0	613.5	617.0	616.1	614.4	612.6	616.1
7.5°	601.1	603.9	599.4	602.9	602.0	600.2	598.5	602.0
10°	584.4	587.1	583.5	586.1	586.1	584.4	581.8	585.2
12.5°	565.9	567.6	564.1	567.6	566.8	565.0	564.1	566.8
15°	545.6	548.2	544.8	547.4	546.5	545.6	544.8	547.4
17.5°	523.6	526.2	523.6	526.2	526.2	523.6	522.8	524.5
20°	501.6	503.4	500.6	503.4	502.5	502.5	500.6	503.4
22.5°	476.9	479.5	477.8	479.5	478.6	478.6	477.8	479.5
25°	452.2	454.9	452.2	454.9	454.0	454.0	452.2	456.6
27.5°	427.5	429.2	426.6	430.1	429.2	427.5	428.4	429.2
30°	401.1	402.9	401.1	403.8	403.8	403.8	402.0	403.8
32.5°	374.6	377.2	374.6	377.2	376.4	376.4	375.5	377.2
35°	348.1	349.1	347.2	350.0	350.0	350.9	349.1	351.8
37.5°	320.9	321.8	320.9	321.8	323.5	320.9	322.6	323.5
40°	292.6	294.4	293.5	294.4	294.4	295.2	294.4	295.2
42.5°	264.5	266.2	264.5	267.1	266.2	266.2	267.1	267.1
45°	235.4	238.0	236.2	238.0	238.9	238.0	238.0	239.8
47.5°	208.0	209.8	208.9	209.8	209.8	209.8	209.8	211.5
50°	180.8	181.6	181.6	182.5	182.5	183.4	181.6	182.5
52.5°	153.4	155.1	155.1	155.1	154.2	155.1	155.1	155.1
55°	128.8	129.6	127.9	129.6	129.6	128.8	128.8	130.5
57.5°	104.9	104.9	104.9	104.9	104.9	104.0	104.9	104.9
60°	82.9	83.8	82.9	82.9	82.9	82.9	82.0	83.8
62.5°	64.4	64.4	63.5	64.4	64.4	64.4	65.2	65.2
65°	50.2	51.1	50.2	51.1	51.1	51.1	51.1	52.0
67.5°	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
70°	30.0	30.0	30.0	30.9	30.0	30.0	30.0	30.9
72.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.9	22.9
75°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	10.6	10.6	10.6	11.5	10.6	11.5	10.6	10.6
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9
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)