

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245449

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B159730 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1160.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

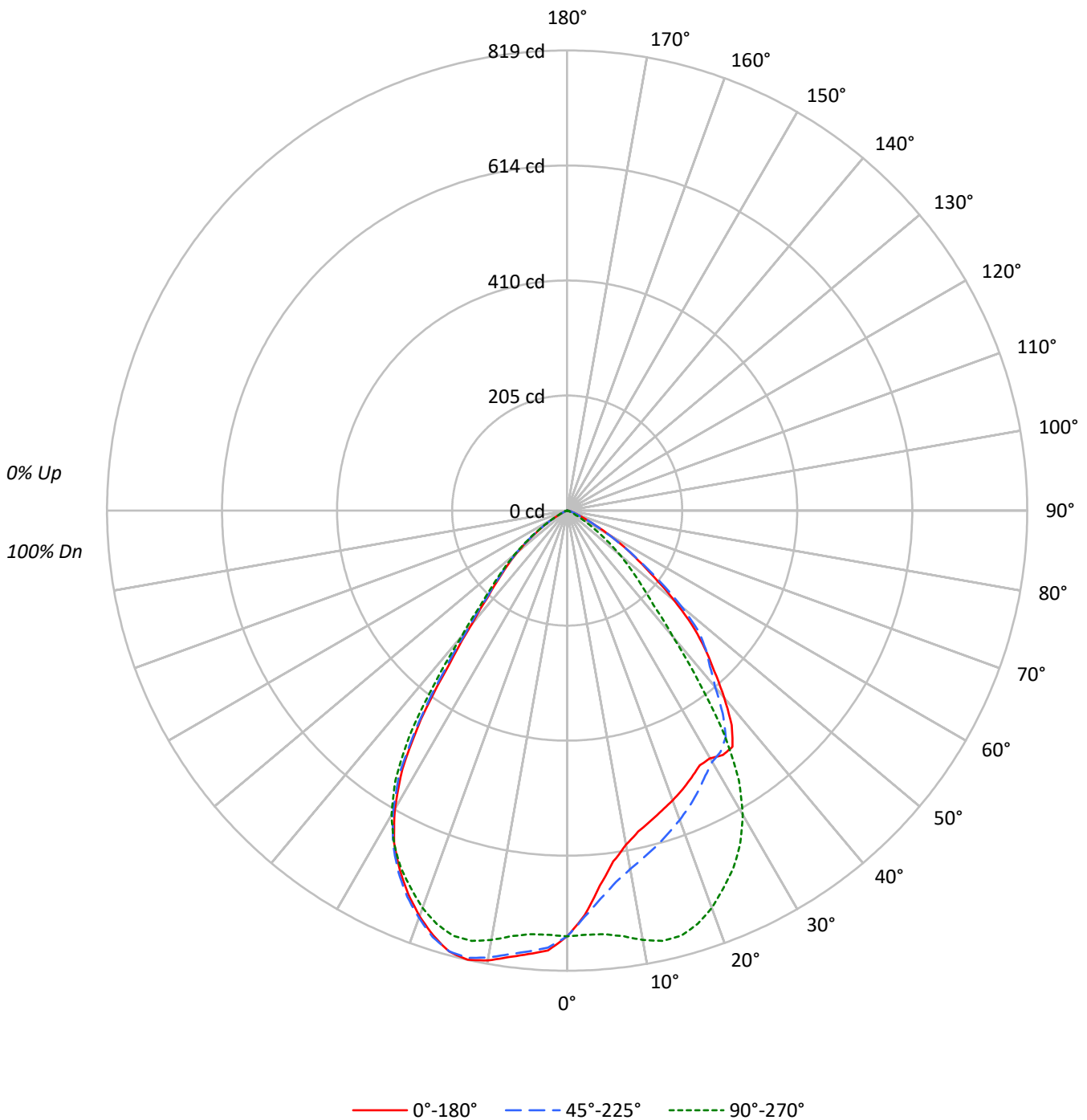
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	6.1
10°-20°	204.0	17.6
20°-30°	296.1	25.5
30°-40°	291.6	25.1
40°-50°	182.8	15.8
50°-60°	88.2	7.6
60°-70°	21.3	1.8
70°-80°	4.3	0.4
80°-90°	1.0	0.1
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°	570.7	49.2
0°-40°	862.3	74.3
0°-60°	1133.4	97.7
0°-90°	1160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	670	692	757	788	792	62
15°	572	617	783	812	813	162
25°	524	551	701	710	705	243
35°	513	492	489	461	454	310
45°	346	349	185	177	172	265
55°	154	159	67	66	63	142
65°	36	36	10	9	8	41
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
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°	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5°	720.4	715.8	707.2	717.6	717.6	711.8	723.4	716.4	722.0	730.7	723.0
5°	669.8	666.0	658.8	669.8	671.2	665.8	679.8	674.6	682.7	693.5	692.5
7.5°	629.8	625.0	618.4	629.8	632.0	628.4	641.7	639.3	650.1	664.0	666.4
10°	603.7	598.7	592.9	603.3	604.9	602.5	616.0	614.6	625.2	641.3	647.7
12.5°	585.2	581.0	574.6	585.6	587.4	584.0	596.7	596.1	607.1	624.0	632.0
15°	572.2	567.3	561.5	570.8	573.2	569.4	581.6	580.4	591.5	608.3	617.2
17.5°	560.1	555.5	549.5	558.3	560.7	556.7	568.7	566.7	576.2	592.1	601.3
20°	548.7	543.8	538.4	547.3	548.7	544.2	556.1	553.5	562.1	576.8	585.8
22.5°	537.0	531.8	526.2	535.0	536.4	531.8	542.8	539.8	547.7	561.1	569.2
25°	524.1	519.3	513.7	521.9	523.1	518.1	529.6	525.8	532.8	544.6	551.3
27.5°	511.1	506.5	500.4	508.7	509.3	504.5	515.1	509.9	515.7	526.4	532.2
30°	508.9	503.7	497.4	504.1	504.3	498.2	508.1	502.0	505.1	513.1	516.5
32.5°	515.9	510.7	504.1	509.7	509.1	502.3	511.9	504.3	505.3	509.5	508.7
35°	513.1	506.9	499.2	505.1	505.1	497.0	506.5	497.6	496.6	497.2	492.2
37.5°	481.4	476.7	469.3	475.1	474.5	468.3	475.7	468.3	464.9	463.5	454.6
40°	434.9	429.1	423.5	429.7	430.3	423.7	433.3	424.9	423.9	419.9	409.4
42.5°	387.7	385.7	380.3	385.5	388.3	382.7	390.6	386.7	387.3	386.3	376.3
45°	346.4	343.1	339.1	345.1	346.8	344.1	352.0	349.6	352.0	357.0	348.8
47.5°	302.0	298.7	294.3	300.7	303.8	298.7	305.4	304.6	308.2	316.8	316.0
50°	248.5	246.1	245.3	246.1	248.1	245.7	250.5	250.7	253.1	264.8	265.6
52.5°	196.7	196.1	193.3	195.9	195.9	192.1	196.9	194.7	197.1	205.1	210.3
55°	153.9	153.3	151.5	153.9	151.3	149.9	151.3	149.1	147.3	153.5	158.9
57.5°	119.9	117.9	115.7	116.7	116.5	113.5	115.1	112.5	111.1	113.3	118.1
60°	85.4	84.8	82.8	83.8	84.6	82.4	84.0	82.8	80.4	82.2	82.4
62.5°	56.7	57.1	55.9	56.1	55.6	55.2	56.1	56.7	56.1	55.4	55.6
65°	36.0	35.8	35.6	35.8	36.2	35.4	36.0	36.4	35.8	35.8	35.6
67.5°	23.9	23.3	22.7	23.1	23.5	22.9	23.5	23.3	23.5	23.3	22.7
70°	16.1	15.9	15.7	15.9	15.9	15.5	15.9	15.7	15.9	15.7	15.1
72.5°	11.7	11.7	11.5	11.7	11.7	11.3	11.5	11.2	11.3	11.2	10.8
75°	8.8	8.8	8.6	8.8	8.6	8.4	8.6	8.4	8.0	8.0	7.6
77.5°	6.4	6.4	6.4	6.4	6.4	6.2	6.2	6.0	5.8	5.6	5.6
80°	4.8	4.6	4.6	4.6	4.6	4.4	4.6	4.4	4.2	4.0	3.8
82.5°	3.4	3.6	3.4	3.4	3.4	3.2	3.4	3.2	3.2	3.0	2.6
85°	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.0
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5°	733.3	734.3	732.1	735.5	748.6	738.1	742.5	743.9	753.8	755.6	754.4
5°	705.4	709.8	712.6	720.2	734.7	727.1	734.9	739.9	752.6	756.8	757.8
7.5°	683.5	692.7	699.5	711.8	728.9	723.2	734.9	743.1	758.6	764.0	766.6
10°	667.2	681.1	692.9	709.8	729.1	725.3	740.7	752.2	769.6	775.9	779.1
12.5°	654.9	671.8	687.5	709.0	729.9	728.1	746.7	759.8	778.1	784.5	788.3
15°	641.3	660.8	679.2	703.2	725.7	725.3	745.3	759.2	777.9	783.3	786.9
17.5°	625.2	646.1	666.2	692.3	714.6	715.0	735.1	748.8	767.2	771.5	773.9
20°	608.9	629.6	649.7	676.6	698.5	699.1	718.8	731.5	749.0	752.6	753.2
22.5°	591.5	610.9	631.0	657.7	678.8	679.2	698.7	710.6	725.5	727.3	728.9
25°	571.8	590.8	609.7	636.1	656.3	657.5	675.2	685.7	699.5	700.9	701.5
27.5°	551.3	566.9	585.0	607.7	628.0	627.2	643.9	655.9	668.2	667.4	667.2
30°	530.6	543.6	554.7	576.6	591.5	592.1	607.9	613.7	626.6	625.0	624.8
32.5°	516.1	519.5	522.5	533.6	547.7	542.8	553.5	560.7	569.6	569.1	569.2
35°	489.4	483.2	474.3	475.9	484.4	476.7	482.4	482.2	491.4	489.2	491.8
37.5°	443.8	426.3	406.4	395.0	396.6	386.9	384.9	389.7	392.8	386.7	388.9
40°	395.2	369.3	338.3	312.4	311.0	298.9	296.7	291.9	298.1	292.9	294.5
42.5°	359.4	325.1	284.3	252.9	246.1	235.9	230.0	229.2	231.0	227.4	226.4
45°	331.9	295.5	248.7	212.6	205.1	194.1	188.2	186.0	186.2	185.0	184.0
47.5°	299.7	263.0	215.6	178.8	170.2	159.9	153.9	152.5	153.3	151.7	150.5
50°	255.1	222.2	179.0	145.3	137.8	130.2	125.4	124.0	123.8	122.7	121.9
52.5°	207.1	179.8	142.4	114.3	107.5	100.2	96.8	95.0	95.2	94.0	92.8
55°	160.3	143.4	110.3	86.4	80.2	74.5	71.3	69.1	68.5	67.3	66.7
57.5°	119.3	107.9	82.6	62.3	58.7	53.2	50.0	47.4	47.0	46.4	46.2
60°	83.6	75.5	58.1	44.4	40.2	36.8	33.6	31.1	29.9	29.7	29.1
62.5°	54.2	49.2	38.2	29.7	26.5	24.1	20.9	19.1	18.3	17.5	17.7
65°	33.6	29.9	23.9	19.1	17.3	15.5	13.1	11.5	10.8	10.0	10.2
67.5°	20.9	18.7	15.1	12.3	11.2	9.8	8.0	6.8	6.2	5.6	5.2
70°	14.1	12.1	10.4	8.8	8.0	7.0	5.8	4.8	4.4	4.0	3.6
72.5°	10.0	9.0	7.6	6.6	6.0	5.2	4.4	3.8	3.4	3.0	2.6
75°	7.2	6.4	5.6	4.8	4.4	4.0	3.4	3.0	2.6	2.2	1.8
77.5°	5.2	4.6	4.0	3.6	3.4	2.8	2.4	2.2	2.0	1.6	1.2
80°	3.6	3.2	2.6	2.4	2.4	2.0	1.8	1.6	1.4	1.0	0.8
82.5°	2.4	2.2	2.0	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5°	764.6	765.2	768.6	766.0	772.5	777.3	774.9	780.3	778.5	778.1	784.3
5°	769.8	771.1	775.7	773.3	780.5	785.7	783.3	789.3	787.5	787.1	793.4
7.5°	779.7	781.1	785.1	783.1	790.7	795.2	792.3	798.8	796.4	796.2	802.4
10°	792.3	794.2	797.6	795.6	802.6	806.6	803.6	810.0	807.8	806.8	813.6
12.5°	801.6	803.0	806.4	804.8	811.6	814.6	812.0	818.1	815.3	814.6	820.5
15°	799.4	800.8	803.6	802.2	808.6	811.4	808.0	814.7	812.0	810.4	815.7
17.5°	785.5	786.3	788.3	786.9	793.6	795.4	791.7	798.4	795.8	793.0	798.2
20°	765.0	764.6	765.8	765.2	770.7	771.7	769.4	774.3	771.3	769.8	772.7
22.5°	739.5	739.1	739.9	738.3	743.9	744.5	740.9	746.9	743.9	740.9	745.9
25°	711.2	709.0	708.6	709.2	713.0	713.6	709.8	714.2	710.4	708.0	712.8
27.5°	676.4	673.6	673.0	673.6	677.4	674.6	671.4	674.6	670.8	668.6	671.6
30°	633.4	629.4	627.6	626.4	630.4	629.4	622.0	625.6	619.6	616.4	618.6
32.5°	575.4	573.2	568.5	565.7	569.4	561.9	557.3	557.3	554.9	549.5	550.7
35°	495.0	491.6	487.2	484.8	485.4	475.3	467.7	469.3	461.3	459.9	460.5
37.5°	393.2	387.7	386.1	381.1	382.3	373.3	363.0	363.2	359.0	354.6	353.2
40°	295.5	294.5	292.9	288.7	290.3	280.5	276.6	276.8	274.0	270.8	272.4
42.5°	228.4	225.2	224.2	222.8	223.2	221.6	216.4	217.0	214.6	213.8	213.0
45°	185.6	182.2	179.8	181.0	181.0	179.2	177.2	178.4	177.2	175.6	176.4
47.5°	152.9	149.7	148.5	148.3	149.7	148.5	146.5	146.9	146.7	146.1	145.7
50°	122.1	121.3	120.3	119.7	120.3	119.9	118.1	119.1	119.7	117.7	118.3
52.5°	93.0	93.0	92.8	91.4	92.6	91.4	91.2	91.6	91.0	90.2	90.0
55°	68.1	67.5	66.5	66.3	66.7	66.3	65.9	66.1	66.5	64.5	64.5
57.5°	46.6	46.2	45.6	45.6	46.4	45.4	44.8	45.6	44.8	44.0	44.0
60°	29.9	29.7	29.1	29.1	29.1	28.9	28.3	28.5	28.9	27.7	27.9
62.5°	17.9	17.3	17.1	16.9	17.1	16.9	16.9	16.7	16.5	16.5	15.9
65°	9.8	9.4	9.0	9.2	9.2	9.0	9.0	9.0	8.6	8.4	8.2
67.5°	5.0	4.6	4.6	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.0
70°	3.2	3.0	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.6	2.4
72.5°	2.2	2.0	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5°	782.1	780.5	781.5	788.9	785.7	784.7	776.3	783.7
5°	791.5	790.3	790.3	798.6	794.8	794.0	785.9	792.3
7.5°	800.2	799.0	799.2	807.8	804.8	803.6	795.4	801.8
10°	811.6	810.8	811.0	819.1	815.9	814.7	806.4	813.0
12.5°	818.3	817.1	817.1	825.9	822.3	820.5	812.6	818.9
15°	813.2	811.4	811.4	820.1	816.1	813.6	806.6	812.6
17.5°	795.4	793.6	793.6	801.2	798.2	794.4	787.3	792.8
20°	770.7	768.6	768.0	776.7	772.5	769.2	762.8	768.2
22.5°	742.9	741.9	740.1	748.8	745.1	741.5	734.7	738.9
25°	709.4	707.8	706.0	714.6	710.8	707.2	701.9	705.2
27.5°	667.8	668.0	667.0	673.8	670.0	668.0	661.4	667.0
30°	617.4	615.2	614.4	622.4	618.8	616.2	608.1	613.5
32.5°	551.7	548.5	544.4	553.3	547.1	545.0	538.0	545.8
35°	456.2	455.2	451.4	458.9	455.6	451.6	447.2	453.8
37.5°	352.6	353.4	353.0	355.0	353.0	350.4	345.7	343.3
40°	269.2	267.2	265.6	269.2	265.0	265.0	262.2	265.2
42.5°	211.1	210.3	212.2	213.0	210.7	210.3	209.9	209.7
45°	174.2	174.2	174.6	175.4	174.6	174.2	173.0	172.2
47.5°	143.6	144.4	143.6	146.1	144.8	144.4	142.0	143.0
50°	116.3	115.3	116.3	117.1	117.3	116.1	114.9	115.5
52.5°	90.2	88.6	88.2	89.4	88.6	88.6	87.8	87.6
55°	63.5	64.1	63.1	64.1	63.7	63.1	62.5	63.3
57.5°	43.0	43.2	42.8	43.4	42.4	42.6	42.4	42.2
60°	27.9	27.1	27.1	27.7	26.7	26.7	26.5	26.5
62.5°	15.9	15.7	15.7	15.5	15.3	15.3	15.3	14.9
65°	8.2	8.0	7.8	7.8	7.8	7.8	7.6	7.6
67.5°	4.0	3.8	3.8	4.0	3.8	3.8	3.8	3.8
70°	2.4	2.4	2.2	2.4	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

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