

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: P245443

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245443
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 EC8B15927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

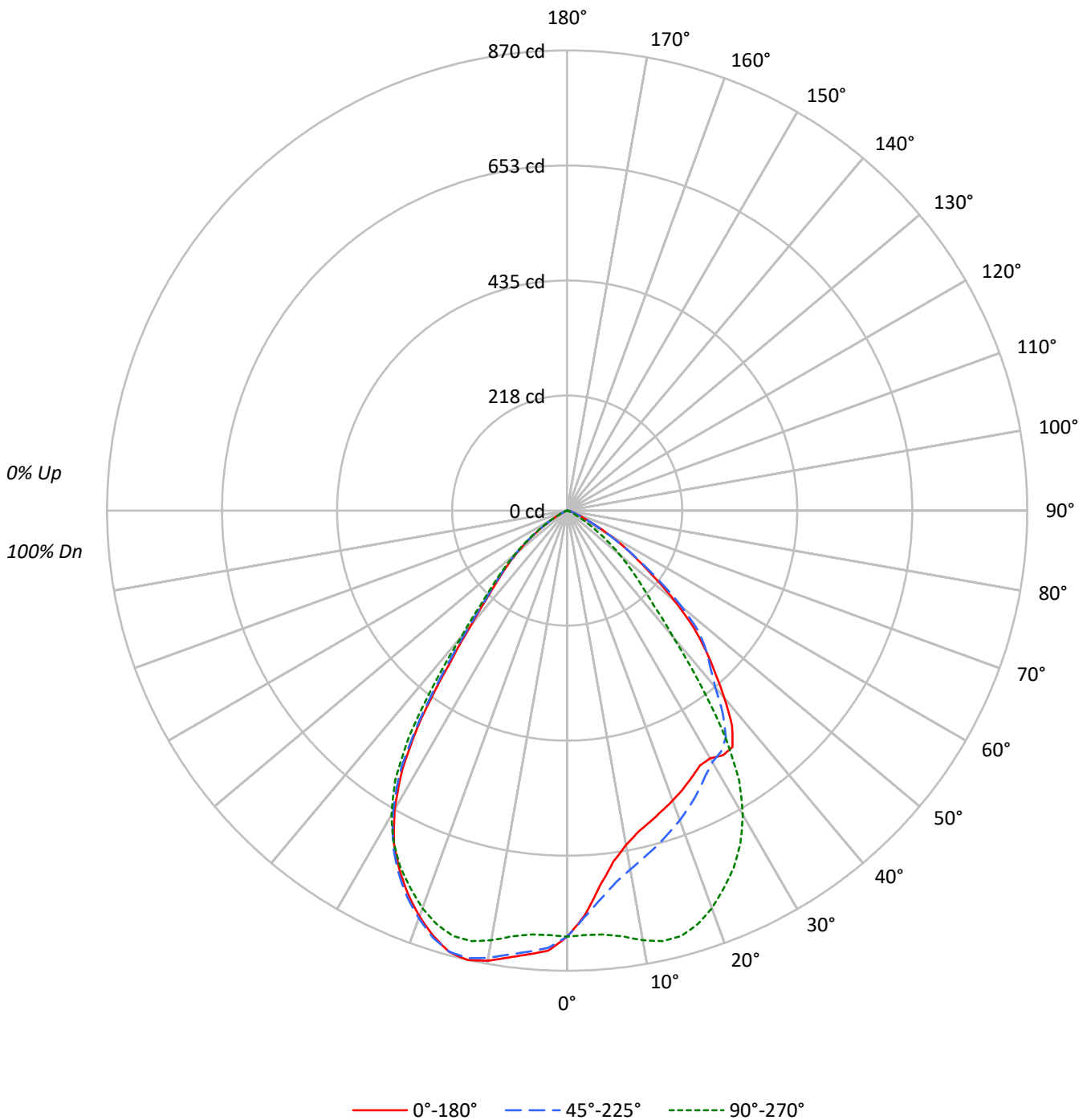
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	75.1	6.1
10°-20°	216.8	17.6
20°-30°	314.7	25.5
30°-40°	310.0	25.1
40°-50°	194.3	15.8
50°-60°	93.8	7.6
60°-70°	22.7	1.8
70°-80°	4.6	0.4
80°-90°	1.1	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°	606.6	49.2
0°-40°	916.6	74.3
0°-60°	1204.7	97.7
0°-90°	1233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	806	806	806	806	806	
5°	712	736	804	837	842	66
15°	608	656	833	863	864	172
25°	557	586	745	755	750	258
35°	545	523	520	490	482	330
45°	368	371	197	188	183	282
55°	164	169	72	71	67	151
65°	38	38	11	9	8	44
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°	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5
2.5°	765.7	760.8	751.7	762.8	762.8	756.6	768.8	761.5	767.4	776.7	768.5
5°	711.9	708.0	700.3	711.9	713.5	707.7	722.6	717.1	725.7	737.1	736.1
7.5°	669.4	664.3	657.3	669.4	671.7	667.9	682.1	679.6	691.0	705.8	708.3
10°	641.7	636.4	630.2	641.2	642.9	640.5	654.9	653.3	664.5	681.6	688.5
12.5°	622.0	617.5	610.8	622.5	624.4	620.8	634.3	633.6	645.3	663.3	671.7
15°	608.3	603.0	596.8	606.7	609.3	605.2	618.2	616.9	628.8	646.5	656.1
17.5°	595.4	590.5	584.1	593.4	596.0	591.8	604.5	602.3	612.4	629.4	639.1
20°	583.3	578.0	572.3	581.7	583.3	578.4	591.1	588.4	597.5	613.1	622.7
22.5°	570.8	565.3	559.4	568.7	570.2	565.3	576.9	573.8	582.2	596.4	605.0
25°	557.0	551.9	546.1	554.7	556.0	550.7	562.9	558.9	566.3	578.8	586.0
27.5°	543.3	538.4	531.9	540.8	541.4	536.3	547.5	542.0	548.1	559.6	565.8
30°	540.9	535.5	528.6	535.8	536.1	529.5	540.1	533.6	537.0	545.4	549.0
32.5°	548.3	542.8	535.8	541.8	541.1	533.9	544.2	536.1	537.2	541.6	540.8
35°	545.4	538.9	530.6	537.0	537.0	528.3	538.4	528.9	527.8	528.4	523.1
37.5°	511.8	506.7	498.8	505.0	504.3	497.8	505.6	497.8	494.2	492.6	483.2
40°	462.3	456.1	450.1	456.8	457.3	450.3	460.6	451.7	450.6	446.4	435.2
42.5°	412.1	410.0	404.2	409.7	412.6	406.8	415.2	411.0	411.6	410.6	400.0
45°	368.2	364.6	360.4	366.8	368.7	365.7	374.2	371.6	374.2	379.5	370.8
47.5°	321.1	317.5	312.8	319.6	323.0	317.5	324.7	323.8	327.6	336.7	335.9
50°	264.2	261.6	260.8	261.6	263.7	261.1	266.3	266.4	269.0	281.5	282.4
52.5°	209.1	208.5	205.5	208.2	208.2	204.2	209.4	207.0	209.5	218.0	223.5
55°	163.6	163.0	161.1	163.6	160.9	159.4	160.9	158.5	156.6	163.1	168.9
57.5°	127.4	125.3	123.0	124.0	123.9	120.6	122.3	119.6	118.1	120.4	125.6
60°	90.8	90.1	88.1	89.1	90.0	87.6	89.3	88.1	85.5	87.4	87.6
62.5°	60.3	60.8	59.5	59.7	59.1	58.6	59.7	60.3	59.7	58.8	59.1
65°	38.4	38.1	37.9	38.1	38.5	37.7	38.4	38.7	38.1	38.1	37.9
67.5°	25.4	24.8	24.1	24.5	25.0	24.3	25.0	24.8	25.0	24.8	24.1
70°	17.1	16.9	16.8	16.9	16.9	16.5	16.9	16.8	16.9	16.8	16.1
72.5°	12.5	12.5	12.3	12.5	12.5	12.0	12.3	11.8	12.0	11.8	11.5
75°	9.3	9.3	9.1	9.3	9.1	8.9	9.1	8.9	8.4	8.4	8.0
77.5°	6.8	6.8	6.8	6.8	6.8	6.5	6.5	6.3	6.2	6.0	6.0
80°	5.1	4.8	4.8	4.8	4.8	4.6	4.8	4.6	4.5	4.3	4.0
82.5°	3.6	3.8	3.6	3.6	3.6	3.4	3.6	3.4	3.4	3.2	2.7
85°	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.4	2.4	2.1
87.5°	1.5	1.5	1.5	1.7	1.5	1.5	1.5	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°	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5
2.5°	779.5	780.5	778.2	781.8	795.7	784.6	789.2	790.6	801.2	803.1	801.9
5°	749.8	754.5	757.5	765.4	781.0	772.9	781.2	786.5	800.0	804.5	805.5
7.5°	726.5	736.3	743.5	756.6	774.8	768.7	781.2	789.9	806.3	812.0	814.8
10°	709.2	724.1	736.5	754.5	775.0	771.0	787.3	799.5	818.0	824.7	828.1
12.5°	696.0	714.0	730.8	753.6	775.9	774.0	793.7	807.6	827.1	833.8	837.9
15°	681.6	702.4	721.9	747.4	771.4	771.0	792.1	807.0	826.9	832.6	836.4
17.5°	664.5	686.8	708.2	735.9	759.6	759.9	781.3	795.9	815.4	820.1	822.6
20°	647.2	669.2	690.5	719.1	742.4	743.1	764.0	777.6	796.2	800.0	800.7
22.5°	628.8	649.4	670.7	699.1	721.5	721.9	742.6	755.3	771.2	773.1	774.8
25°	607.8	628.0	648.0	676.2	697.6	698.8	717.6	728.9	743.5	745.0	745.6
27.5°	586.0	602.6	621.8	646.0	667.5	666.7	684.4	697.2	710.2	709.4	709.2
30°	564.0	577.8	589.6	612.9	628.8	629.4	646.1	652.3	666.0	664.3	664.1
32.5°	548.6	552.2	555.3	567.2	582.2	576.9	588.4	596.0	605.5	604.9	605.0
35°	520.2	513.7	504.1	505.8	514.9	506.7	512.8	512.6	522.3	520.0	522.8
37.5°	471.7	453.2	432.0	419.8	421.5	411.2	409.0	414.2	417.6	411.0	413.3
40°	420.1	392.6	359.6	332.1	330.5	317.7	315.3	310.3	316.8	311.3	313.0
42.5°	382.0	345.6	302.2	268.8	261.6	250.8	244.5	243.6	245.5	241.6	240.6
45°	352.8	314.1	264.4	226.0	218.0	206.3	200.0	197.7	197.9	196.6	195.5
47.5°	318.5	279.6	229.2	190.0	180.9	170.0	163.6	162.1	163.0	161.2	160.0
50°	271.1	236.1	190.2	154.5	146.5	138.4	133.3	131.8	131.6	130.4	129.5
52.5°	220.0	191.1	151.3	121.5	114.3	106.4	102.8	100.9	101.1	99.9	98.7
55°	170.3	152.3	117.2	91.8	85.3	79.2	75.7	73.5	72.8	71.6	70.9
57.5°	126.8	114.8	87.9	66.3	62.4	56.5	53.1	50.4	49.9	49.3	49.1
60°	88.9	80.2	61.8	47.2	42.8	39.2	35.8	33.0	31.7	31.5	30.9
62.5°	57.6	52.3	40.6	31.5	28.1	25.6	22.3	20.4	19.5	18.7	18.8
65°	35.8	31.7	25.4	20.4	18.4	16.5	14.0	12.3	11.5	10.6	10.8
67.5°	22.3	19.9	16.1	13.2	11.8	10.4	8.4	7.2	6.5	6.0	5.5
70°	15.1	12.9	11.0	9.3	8.4	7.4	6.2	5.1	4.6	4.3	3.8
72.5°	10.6	9.6	8.0	7.0	6.3	5.5	4.6	4.0	3.6	3.2	2.7
75°	7.6	6.8	6.0	5.1	4.6	4.3	3.6	3.2	2.7	2.4	1.9
77.5°	5.5	4.8	4.3	3.8	3.6	2.9	2.6	2.4	2.1	1.7	1.2
80°	3.8	3.4	2.7	2.6	2.6	2.1	1.9	1.7	1.5	1.0	0.9
82.5°	2.6	2.4	2.1	1.9	1.7	1.5	1.5	1.0	0.9	0.7	0.4
85°	1.9	1.7	1.5	1.2	1.2	1.0	0.9	0.7	0.7	0.4	0.2
87.5°	1.0	1.0	0.9	0.7	0.7	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°	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5
2.5°	812.7	813.4	817.0	814.2	821.1	826.2	823.7	829.5	827.6	827.1	833.6
5°	818.2	819.7	824.5	822.0	829.6	835.1	832.6	838.9	837.0	836.6	843.4
7.5°	828.8	830.2	834.5	832.4	840.4	845.3	842.1	849.0	846.6	846.3	852.9
10°	842.1	844.2	847.8	845.7	853.1	857.4	854.2	861.0	858.6	857.6	864.8
12.5°	852.1	853.5	857.1	855.4	862.6	865.8	863.1	869.6	866.7	865.8	872.2
15°	849.7	851.2	854.2	852.6	859.5	862.4	858.8	866.0	863.1	861.4	867.0
17.5°	834.9	835.8	837.9	836.4	843.6	845.4	841.5	848.7	845.9	843.0	848.5
20°	813.2	812.7	813.9	813.4	819.2	820.4	817.8	823.0	819.9	818.2	821.4
22.5°	786.0	785.6	786.5	784.8	790.6	791.3	787.5	793.8	790.6	787.5	792.8
25°	756.0	753.6	753.2	753.9	757.9	758.5	754.5	759.2	755.1	752.6	757.7
27.5°	719.0	715.9	715.4	715.9	720.0	717.1	713.6	717.1	713.0	710.7	713.8
30°	673.2	669.0	667.1	665.8	670.1	669.0	661.2	665.0	658.6	655.2	657.6
32.5°	611.7	609.3	604.2	601.3	605.2	597.3	592.4	592.4	589.8	584.1	585.3
35°	526.2	522.6	517.8	515.4	515.9	505.1	497.1	498.8	490.4	488.9	489.5
37.5°	417.9	412.1	410.4	405.1	406.3	396.8	385.8	386.0	381.6	376.9	375.4
40°	314.1	313.0	311.3	306.9	308.6	298.2	294.0	294.2	291.3	287.8	289.6
42.5°	242.8	239.4	238.3	236.8	237.3	235.6	230.1	230.7	228.2	227.2	226.5
45°	197.2	193.6	191.1	192.4	192.4	190.5	188.3	189.7	188.3	186.6	187.5
47.5°	162.6	159.2	157.8	157.7	159.2	157.8	155.8	156.2	155.9	155.4	154.9
50°	129.7	128.9	127.8	127.2	127.8	127.4	125.6	126.6	127.2	125.1	125.7
52.5°	98.9	98.9	98.7	97.1	98.4	97.1	97.0	97.3	96.8	95.9	95.6
55°	72.3	71.8	70.6	70.4	70.9	70.4	70.1	70.3	70.6	68.6	68.6
57.5°	49.5	49.1	48.5	48.5	49.3	48.3	47.6	48.5	47.6	46.8	46.8
60°	31.7	31.5	30.9	30.9	30.9	30.7	30.0	30.3	30.7	29.4	29.6
62.5°	19.0	18.4	18.2	18.0	18.2	18.0	18.0	17.8	17.6	17.6	16.9
65°	10.4	9.9	9.6	9.8	9.8	9.6	9.6	9.6	9.1	8.9	8.7
67.5°	5.3	4.8	4.8	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.3
70°	3.4	3.2	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.6
72.5°	2.4	2.1	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.5	1.5
75°	1.7	1.5	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.4
80°	0.7	0.7	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°	805.5	805.5	805.5	805.5	805.5	805.5	805.5	805.5
2.5°	831.3	829.6	830.7	838.5	835.1	834.1	825.2	833.1
5°	841.3	840.0	840.0	848.9	844.9	844.0	835.3	842.1
7.5°	850.6	849.3	849.5	858.6	855.4	854.2	845.4	852.3
10°	862.6	861.8	862.0	870.6	867.3	866.0	857.1	864.1
12.5°	869.8	868.6	868.6	877.8	874.0	872.2	863.7	870.4
15°	864.3	862.4	862.4	871.8	867.5	864.8	857.4	863.7
17.5°	845.4	843.6	843.6	851.6	848.5	844.4	836.8	842.7
20°	819.2	817.0	816.3	825.6	821.1	817.5	810.8	816.5
22.5°	789.6	788.5	786.7	795.9	792.0	788.2	781.0	785.4
25°	754.1	752.4	750.5	759.6	755.6	751.7	746.0	749.6
27.5°	709.9	710.1	709.0	716.2	712.1	710.1	703.0	709.0
30°	656.3	654.0	653.1	661.6	657.8	655.0	646.3	652.1
32.5°	586.5	583.1	578.6	588.2	581.6	579.3	571.8	580.1
35°	484.9	483.8	479.8	487.8	484.2	480.0	475.3	482.3
37.5°	374.8	375.6	375.2	377.3	375.2	372.5	367.4	364.8
40°	286.1	284.1	282.4	286.1	281.7	281.7	278.8	281.9
42.5°	224.3	223.5	225.6	226.5	223.9	223.5	223.1	222.9
45°	185.2	185.2	185.6	186.4	185.6	185.2	183.9	183.0
47.5°	152.5	153.5	152.5	155.4	153.9	153.5	150.9	152.0
50°	123.6	122.5	123.6	124.4	124.6	123.4	122.1	122.7
52.5°	95.9	94.2	93.7	95.1	94.2	94.2	93.4	93.1
55°	67.5	68.2	67.0	68.2	67.7	67.0	66.5	67.3
57.5°	45.7	45.9	45.4	46.1	45.1	45.3	45.1	44.9
60°	29.6	28.8	28.8	29.4	28.4	28.4	28.1	28.1
62.5°	16.9	16.8	16.8	16.5	16.3	16.3	16.3	15.9
65°	8.7	8.4	8.2	8.2	8.2	8.2	8.0	8.0
67.5°	4.3	4.0	4.0	4.3	4.0	4.0	4.0	4.0
70°	2.6	2.6	2.4	2.6	2.4	2.4	2.4	2.4
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.7	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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