

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 EC8B159727 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 EC8B159727 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: 1096.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

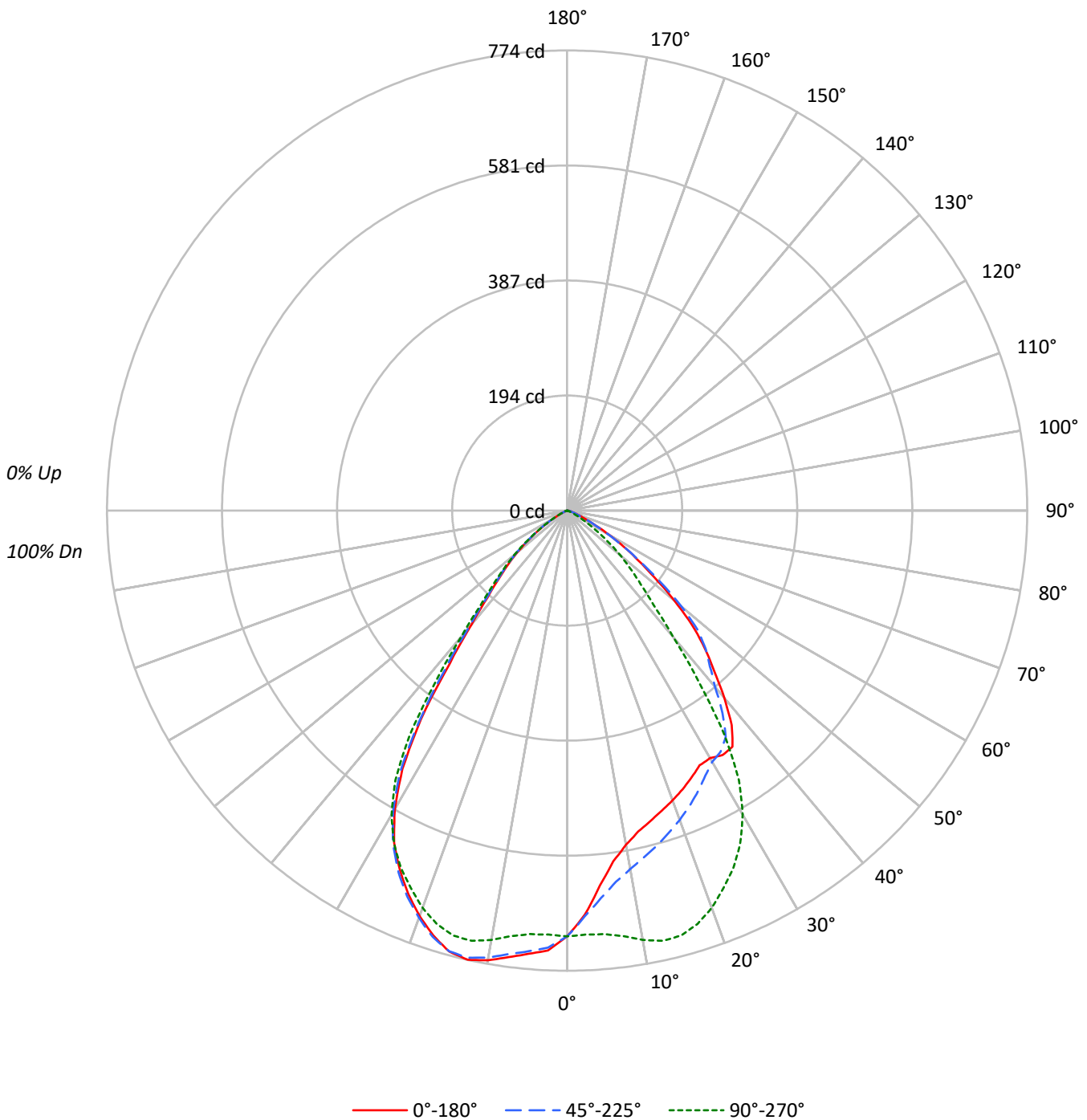
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	66.7	6.1
10°-20°	192.7	17.6
20°-30°	279.8	25.5
30°-40°	275.5	25.1
40°-50°	172.7	15.8
50°-60°	83.3	7.6
60°-70°	20.2	1.8
70°-80°	4.1	0.4
80°-90°	0.9	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°	539.2	49.2
0°-40°	814.8	74.3
0°-60°	1070.8	97.7
0°-90°	1096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	633	654	715	744	748	59
15°	541	583	740	767	768	153
25°	495	521	662	671	666	229
35°	485	465	462	436	429	293
45°	327	330	175	167	163	250
55°	145	150	64	63	60	134
65°	34	34	9	8	7	39
75°	8	7	2	1	1	9
85°	2	2	0	0	0	2
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°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	680.6	676.3	668.2	678.0	678.0	672.5	683.4	676.9	682.1	690.4	683.1
5°	632.8	629.3	622.5	632.8	634.2	629.1	642.3	637.4	645.1	655.2	654.3
7.5°	595.0	590.5	584.3	595.0	597.1	593.7	606.3	604.1	614.2	627.4	629.6
10°	570.4	565.7	560.2	570.0	571.5	569.3	582.1	580.7	590.7	605.9	612.0
12.5°	552.9	548.9	542.9	553.3	555.0	551.8	563.8	563.2	573.6	589.6	597.1
15°	540.7	536.0	530.5	539.3	541.6	538.0	549.5	548.4	558.9	574.7	583.2
17.5°	529.2	524.9	519.2	527.5	529.8	526.0	537.3	535.4	544.4	559.5	568.1
20°	518.5	513.8	508.7	517.1	518.5	514.1	525.4	523.0	531.1	545.0	553.5
22.5°	507.4	502.5	497.2	505.5	506.8	502.5	512.8	510.0	517.5	530.1	537.8
25°	495.1	490.6	485.4	493.1	494.2	489.5	500.4	496.8	503.4	514.5	520.9
27.5°	482.9	478.6	472.8	480.7	481.2	476.7	486.7	481.8	487.2	497.4	502.9
30°	480.8	476.0	469.9	476.3	476.5	470.7	480.1	474.3	477.3	484.8	488.0
32.5°	487.4	482.5	476.3	481.6	481.0	474.6	483.7	476.5	477.5	481.4	480.7
35°	484.8	479.0	471.6	477.3	477.3	469.6	478.6	470.1	469.2	469.7	465.0
37.5°	454.9	450.4	443.4	448.9	448.3	442.5	449.4	442.5	439.3	437.9	429.5
40°	410.9	405.4	400.1	406.0	406.5	400.3	409.4	401.5	400.5	396.8	386.8
42.5°	366.3	364.4	359.3	364.2	366.8	361.6	369.1	365.3	365.9	365.0	355.6
45°	327.3	324.1	320.4	326.0	327.7	325.1	332.6	330.3	332.6	337.3	329.6
47.5°	285.4	282.2	278.0	284.1	287.1	282.2	288.6	287.8	291.2	299.3	298.6
50°	234.8	232.5	231.8	232.5	234.4	232.1	236.7	236.8	239.1	250.2	251.0
52.5°	185.9	185.3	182.7	185.1	185.1	181.5	186.1	184.0	186.2	193.8	198.7
55°	145.4	144.9	143.2	145.4	143.0	141.7	143.0	140.9	139.2	145.0	150.1
57.5°	113.2	111.4	109.3	110.2	110.1	107.2	108.7	106.3	105.0	107.0	111.6
60°	80.7	80.1	78.3	79.2	80.0	77.9	79.4	78.3	76.0	77.7	77.9
62.5°	53.6	54.0	52.9	53.1	52.5	52.1	53.1	53.6	53.1	52.3	52.5
65°	34.1	33.9	33.7	33.9	34.2	33.5	34.1	34.4	33.9	33.9	33.7
67.5°	22.6	22.0	21.4	21.8	22.2	21.6	22.2	22.0	22.2	22.0	21.4
70°	15.2	15.0	14.9	15.0	15.0	14.7	15.0	14.9	15.0	14.9	14.3
72.5°	11.1	11.1	10.9	11.1	11.1	10.7	10.9	10.5	10.7	10.5	10.2
75°	8.3	8.3	8.1	8.3	8.1	7.9	8.1	7.9	7.5	7.5	7.1
77.5°	6.0	6.0	6.0	6.0	6.0	5.8	5.8	5.6	5.5	5.3	5.3
80°	4.5	4.3	4.3	4.3	4.3	4.1	4.3	4.1	4.0	3.8	3.6
82.5°	3.2	3.4	3.2	3.2	3.2	3.0	3.2	3.0	3.0	2.8	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.1	2.1	1.9
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.1	1.1	0.9	0.9
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°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	692.9	693.8	691.7	694.9	707.3	697.4	701.5	702.8	712.2	713.9	712.8
5°	666.5	670.7	673.3	680.4	694.2	687.0	694.4	699.1	711.1	715.1	716.0
7.5°	645.8	654.5	660.9	672.5	688.7	683.3	694.4	702.1	716.7	721.8	724.3
10°	630.4	643.6	654.7	670.7	688.9	685.3	699.8	710.7	727.1	733.1	736.1
12.5°	618.7	634.7	649.6	669.9	689.7	688.0	705.5	717.9	735.2	741.2	744.8
15°	605.9	624.4	641.7	664.4	685.7	685.3	704.1	717.3	735.0	740.1	743.5
17.5°	590.7	610.5	629.5	654.1	675.2	675.5	694.5	707.5	724.8	729.0	731.2
20°	575.3	594.8	613.8	639.2	659.9	660.5	679.1	691.2	707.7	711.1	711.7
22.5°	558.9	577.2	596.2	621.4	641.3	641.7	660.1	671.4	685.5	687.2	688.7
25°	540.3	558.2	576.0	601.1	620.1	621.2	637.9	647.9	660.9	662.2	662.8
27.5°	520.9	535.6	552.7	574.2	593.3	592.6	608.4	619.7	631.3	630.6	630.4
30°	501.3	513.6	524.1	544.8	558.9	559.5	574.3	579.8	592.0	590.5	590.3
32.5°	487.6	490.8	493.6	504.2	517.5	512.8	523.0	529.8	538.2	537.7	537.8
35°	462.4	456.6	448.1	449.6	457.7	450.4	455.8	455.6	464.3	462.2	464.7
37.5°	419.3	402.8	384.0	373.2	374.7	365.5	363.6	368.2	371.2	365.3	367.4
40°	373.4	349.0	319.6	295.2	293.8	282.4	280.3	275.8	281.6	276.7	278.2
42.5°	339.6	307.2	268.6	238.9	232.5	222.9	217.3	216.5	218.2	214.8	213.9
45°	313.6	279.2	235.0	200.9	193.8	183.4	177.8	175.7	175.9	174.8	173.8
47.5°	283.1	248.5	203.7	168.9	160.8	151.1	145.4	144.1	144.9	143.3	142.2
50°	241.0	209.9	169.1	137.3	130.2	123.0	118.5	117.2	117.0	115.9	115.1
52.5°	195.6	169.9	134.5	108.0	101.6	94.6	91.4	89.7	89.9	88.8	87.7
55°	151.4	135.4	104.2	81.6	75.8	70.4	67.3	65.3	64.7	63.6	63.0
57.5°	112.7	102.0	78.1	58.9	55.5	50.2	47.2	44.8	44.4	43.8	43.6
60°	79.0	71.3	54.9	42.0	38.0	34.8	31.8	29.3	28.2	28.0	27.5
62.5°	51.2	46.5	36.1	28.0	25.0	22.8	19.8	18.1	17.3	16.6	16.7
65°	31.8	28.2	22.6	18.1	16.4	14.7	12.4	10.9	10.2	9.4	9.6
67.5°	19.8	17.7	14.3	11.7	10.5	9.2	7.5	6.4	5.8	5.3	4.9
70°	13.4	11.5	9.8	8.3	7.5	6.6	5.5	4.5	4.1	3.8	3.4
72.5°	9.4	8.5	7.1	6.2	5.6	4.9	4.1	3.6	3.2	2.8	2.4
75°	6.8	6.0	5.3	4.5	4.1	3.8	3.2	2.8	2.4	2.1	1.7
77.5°	4.9	4.3	3.8	3.4	3.2	2.6	2.3	2.1	1.9	1.5	1.1
80°	3.4	3.0	2.4	2.3	2.3	1.9	1.7	1.5	1.3	0.9	0.8
82.5°	2.3	2.1	1.9	1.7	1.5	1.3	1.3	0.9	0.8	0.6	0.4
85°	1.7	1.5	1.3	1.1	1.1	0.9	0.8	0.6	0.6	0.4	0.2
87.5°	0.9	0.9	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°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	722.4	723.0	726.2	723.7	729.9	734.4	732.2	737.3	735.6	735.2	741.0
5°	727.3	728.6	732.9	730.7	737.4	742.3	740.1	745.7	744.0	743.6	749.7
7.5°	736.7	738.0	741.8	739.9	747.0	751.4	748.5	754.7	752.5	752.3	758.1
10°	748.5	750.4	753.6	751.7	758.3	762.1	759.3	765.3	763.2	762.3	768.7
12.5°	757.4	758.7	761.9	760.4	766.8	769.6	767.2	773.0	770.4	769.6	775.3
15°	755.3	756.6	759.3	757.9	764.0	766.6	763.4	769.8	767.2	765.7	770.7
17.5°	742.1	742.9	744.8	743.5	749.9	751.5	748.0	754.4	751.9	749.3	754.2
20°	722.8	722.4	723.5	723.0	728.2	729.2	726.9	731.6	728.8	727.3	730.1
22.5°	698.7	698.3	699.1	697.6	702.8	703.4	700.0	705.6	702.8	700.0	704.7
25°	672.0	669.9	669.5	670.1	673.7	674.2	670.7	674.8	671.2	669.0	673.5
27.5°	639.1	636.4	635.9	636.4	640.0	637.4	634.3	637.4	633.8	631.7	634.5
30°	598.4	594.7	593.0	591.8	595.6	594.7	587.7	591.1	585.4	582.4	584.5
32.5°	543.7	541.6	537.1	534.5	538.0	530.9	526.6	526.6	524.3	519.2	520.3
35°	467.7	464.5	460.3	458.1	458.6	449.0	441.9	443.4	435.9	434.6	435.1
37.5°	371.5	366.3	364.8	360.1	361.2	352.7	342.9	343.1	339.2	335.0	333.7
40°	279.2	278.2	276.7	272.8	274.3	265.1	261.3	261.5	258.9	255.8	257.4
42.5°	215.8	212.8	211.8	210.5	210.9	209.4	204.5	205.1	202.8	202.0	201.3
45°	175.3	172.1	169.9	171.0	171.0	169.3	167.4	168.6	167.4	165.9	166.7
47.5°	144.5	141.5	140.3	140.2	141.5	140.3	138.5	138.8	138.6	138.1	137.7
50°	115.3	114.6	113.6	113.1	113.6	113.2	111.6	112.5	113.1	111.2	111.7
52.5°	87.9	87.9	87.7	86.3	87.5	86.3	86.2	86.5	86.0	85.2	85.0
55°	64.3	63.8	62.8	62.6	63.0	62.6	62.3	62.5	62.8	61.0	61.0
57.5°	44.0	43.6	43.1	43.1	43.8	42.9	42.3	43.1	42.3	41.6	41.6
60°	28.2	28.0	27.5	27.5	27.5	27.3	26.7	26.9	27.3	26.1	26.3
62.5°	16.9	16.4	16.2	16.0	16.2	16.0	16.0	15.8	15.6	15.6	15.0
65°	9.2	8.8	8.5	8.7	8.7	8.5	8.5	8.5	8.1	7.9	7.7
67.5°	4.7	4.3	4.3	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.8
70°	3.0	2.8	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.3
72.5°	2.1	1.9	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.3	1.3
75°	1.5	1.3	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	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°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	738.9	737.4	738.4	745.3	742.3	741.4	733.5	740.5
5°	747.8	746.7	746.7	754.6	751.0	750.2	742.5	748.5
7.5°	756.1	754.9	755.1	763.2	760.4	759.3	751.5	757.6
10°	766.8	766.0	766.2	773.9	770.9	769.8	761.9	768.1
12.5°	773.2	772.1	772.1	780.3	776.9	775.3	767.7	773.7
15°	768.3	766.6	766.6	774.9	771.1	768.7	762.1	767.7
17.5°	751.5	749.9	749.9	757.0	754.2	750.6	743.8	749.1
20°	728.2	726.2	725.6	733.9	729.9	726.7	720.7	725.8
22.5°	701.9	700.9	699.3	707.5	704.0	700.6	694.2	698.1
25°	670.3	668.8	667.1	675.2	671.6	668.2	663.1	666.3
27.5°	631.0	631.2	630.2	636.6	633.0	631.2	624.9	630.2
30°	583.4	581.3	580.5	588.1	584.7	582.2	574.5	579.6
32.5°	521.3	518.3	514.3	522.8	517.0	514.9	508.3	515.6
35°	431.0	430.0	426.5	433.6	430.4	426.7	422.5	428.7
37.5°	333.2	333.9	333.5	335.4	333.5	331.1	326.6	324.3
40°	254.3	252.5	251.0	254.3	250.4	250.4	247.8	250.6
42.5°	199.4	198.7	200.5	201.3	199.0	198.7	198.3	198.1
45°	164.6	164.6	165.0	165.7	165.0	164.6	163.5	162.7
47.5°	135.6	136.4	135.6	138.1	136.8	136.4	134.1	135.1
50°	109.9	108.9	109.9	110.6	110.8	109.7	108.5	109.1
52.5°	85.2	83.7	83.3	84.5	83.7	83.7	83.0	82.8
55°	60.0	60.6	59.6	60.6	60.2	59.6	59.1	59.8
57.5°	40.6	40.8	40.4	41.0	40.1	40.3	40.1	39.9
60°	26.3	25.6	25.6	26.1	25.2	25.2	25.0	25.0
62.5°	15.0	14.9	14.9	14.7	14.5	14.5	14.5	14.1
65°	7.7	7.5	7.3	7.3	7.3	7.3	7.1	7.1
67.5°	3.8	3.6	3.6	3.8	3.6	3.6	3.6	3.6
70°	2.3	2.3	2.1	2.3	2.1	2.1	2.1	2.1
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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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