

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: P244658

Luminaire Tested: **LD8B20D010 ER8B209730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B209730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1639.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

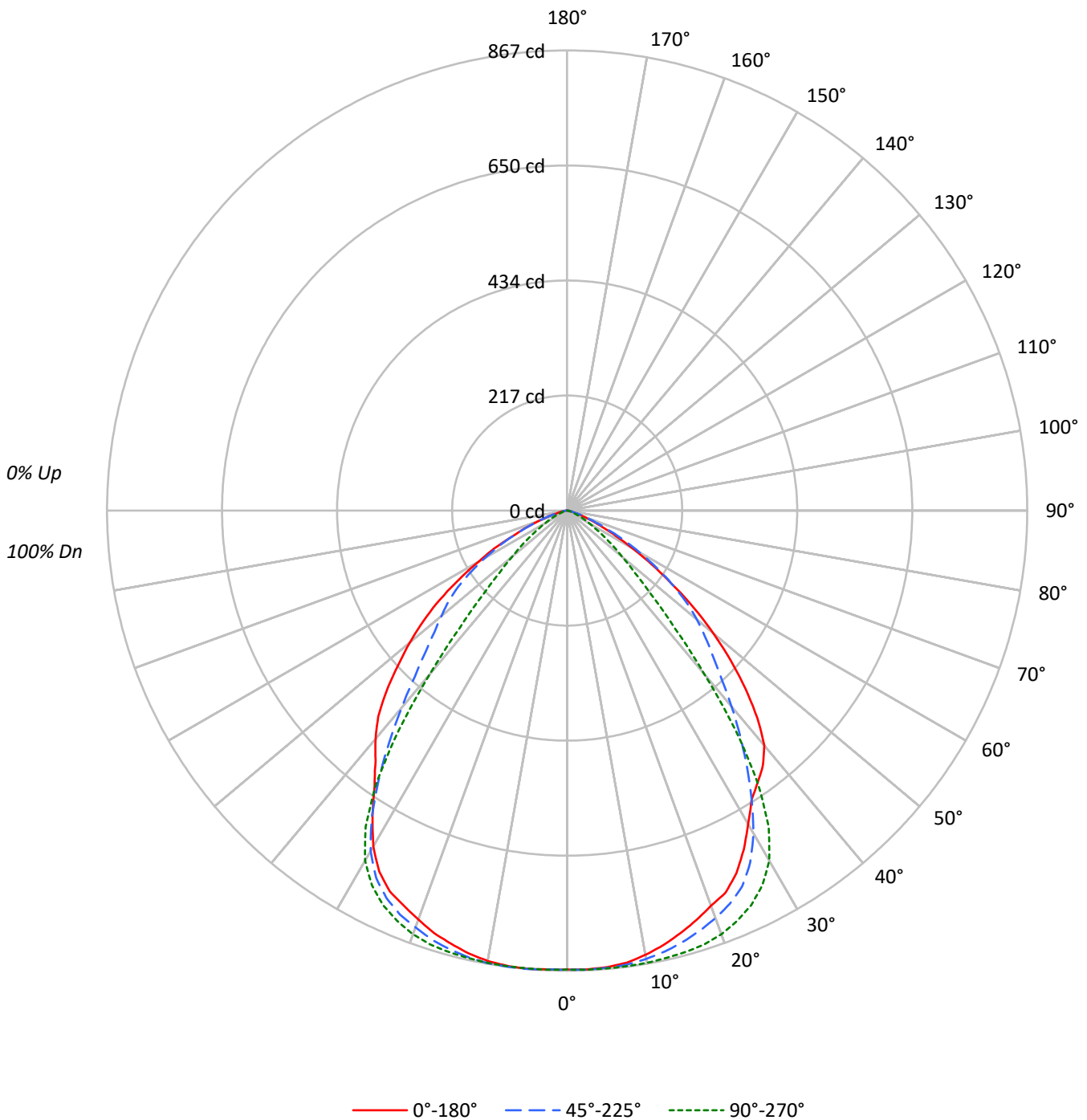
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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°	82.5	5.0
10°-20°	239.7	14.6
20°-30°	363.8	22.2
30°-40°	382.1	23.3
40°-50°	286.5	17.5
50°-60°	183.8	11.2
60°-70°	78.6	4.8
70°-80°	18.6	1.1
80°-90°	3.5	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°	686.0	41.9
0°-40°	1068.1	65.2
0°-60°	1538.3	93.9
0°-90°	1639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	865	865	865	865	865	
5°	863	865	866	867	867	82
15°	824	842	861	856	845	233
25°	754	781	820	805	791	345
35°	626	591	626	619	633	393
45°	475	388	223	377	482	364
55°	240	240	83	251	293	218
65°	72	85	26	110	112	77
75°	11	13	4	22	22	16
85°	4	2	2	4	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8
2.5°	865.2	866.2	865.7	865.7	865.2	865.7	865.7	866.6	866.6	865.7	865.2
5°	863.4	864.3	864.3	863.4	863.4	865.7	864.3	865.2	865.2	864.8	864.8
7.5°	859.2	859.2	861.1	859.7	859.7	861.1	860.6	861.5	862.5	862.9	862.9
10°	849.9	850.8	851.3	851.3	851.8	853.2	854.1	856.0	856.9	857.8	858.3
12.5°	838.3	839.7	840.2	839.7	841.1	843.0	845.3	847.6	849.0	850.8	852.2
15°	824.4	824.4	825.3	826.7	827.6	830.4	832.7	835.5	839.2	841.6	843.9
17.5°	809.1	810.0	811.4	811.4	813.2	817.9	819.3	823.5	827.6	830.0	834.6
20°	792.4	793.3	794.7	795.6	797.9	801.6	804.4	808.1	812.8	817.0	821.6
22.5°	779.4	777.5	778.4	779.4	781.7	784.9	788.2	792.8	797.5	801.6	806.3
25°	754.3	754.8	756.2	757.1	759.9	762.7	766.4	771.9	776.1	780.8	785.9
27.5°	720.4	720.9	723.2	723.2	725.5	730.2	732.5	737.1	742.7	747.3	753.4
30°	681.9	682.8	682.8	684.7	686.1	688.4	690.7	695.3	698.1	702.3	710.7
32.5°	646.6	647.5	647.1	646.6	645.2	644.7	644.3	645.2	646.1	647.5	650.8
35°	625.7	623.4	621.5	618.3	614.6	609.9	605.8	600.2	595.1	590.9	586.3
37.5°	605.8	605.3	602.5	597.9	590.4	582.1	572.3	560.3	548.2	535.2	522.7
40°	577.9	576.5	574.2	567.7	559.3	549.1	536.1	521.3	501.8	481.8	461.4
42.5°	530.6	531.0	528.2	523.1	515.2	505.5	492.0	475.8	454.9	431.2	404.8
45°	475.3	475.3	474.4	470.2	464.6	456.8	446.5	433.1	412.7	388.5	360.2
47.5°	417.8	418.2	416.8	415.9	413.6	408.5	401.1	390.8	376.5	353.2	324.9
50°	359.3	359.3	361.6	361.1	361.1	359.3	356.0	350.0	337.5	318.9	292.4
52.5°	300.8	301.7	303.1	305.0	307.3	311.0	307.3	304.5	296.6	282.2	259.5
55°	240.4	241.4	243.7	246.9	249.7	253.4	254.4	254.4	250.2	240.4	223.3
57.5°	188.9	187.5	189.4	192.2	195.9	199.6	202.4	205.6	205.2	198.7	184.7
60°	142.0	142.5	143.9	146.7	149.5	152.7	156.4	159.2	160.6	157.4	148.5
62.5°	103.5	103.5	105.4	108.1	109.5	114.2	116.5	117.9	119.3	118.8	113.3
65°	72.4	73.3	74.3	75.7	77.1	79.8	81.2	84.0	84.9	85.4	81.2
67.5°	51.1	49.7	50.6	51.5	52.9	54.8	57.6	57.6	58.9	58.9	56.2
70°	32.5	32.5	33.0	34.3	35.3	35.7	36.7	37.6	39.0	38.5	38.5
72.5°	21.8	21.4	21.8	22.3	22.7	24.1	24.1	24.6	25.5	26.0	24.1
75°	11.1	11.6	12.5	12.1	13.5	12.5	13.0	14.4	13.9	13.0	13.0
77.5°	9.3	9.3	9.3	8.8	9.7	9.7	9.3	10.2	9.7	9.7	9.3
80°	6.5	7.0	6.5	6.0	6.5	6.0	6.0	6.0	6.0	6.0	5.6
82.5°	5.1	4.2	4.6	4.2	4.6	4.6	4.2	3.7	3.7	4.2	3.7
85°	3.7	2.8	3.2	3.2	2.8	2.8	2.8	2.8	2.8	2.3	2.3
87.5°	2.3	1.4	1.4	1.4	1.9	1.9	1.9	1.4	1.9	1.9	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8
2.5°	866.2	865.7	866.6	866.2	866.2	865.7	866.2	865.7	866.6	864.8	865.2
5°	866.2	865.2	865.7	866.2	866.6	865.7	865.7	865.7	866.6	865.7	866.2
7.5°	864.3	863.8	865.2	866.2	865.7	865.2	866.2	865.7	866.6	866.2	867.1
10°	860.6	861.1	862.0	863.4	863.8	864.3	865.2	865.2	866.6	864.8	865.7
12.5°	855.0	856.9	859.2	860.1	862.0	862.0	862.9	863.4	864.3	863.8	865.2
15°	848.1	850.4	853.2	855.5	857.8	859.2	860.6	861.1	862.5	861.1	861.5
17.5°	839.7	842.5	846.7	849.4	853.2	854.6	856.4	857.3	858.7	857.8	858.3
20°	828.1	831.4	836.0	840.2	842.5	845.7	848.1	849.4	850.4	849.4	849.9
22.5°	811.9	816.5	822.5	825.8	830.4	833.2	833.7	836.9	839.2	836.9	837.9
25°	792.8	797.5	802.1	809.1	813.2	816.5	819.7	820.2	822.5	822.1	821.6
27.5°	761.3	767.3	775.2	780.8	786.3	791.4	795.1	796.1	798.4	797.5	797.9
30°	718.1	724.6	732.0	740.8	748.7	753.8	758.5	761.7	764.0	762.7	762.2
32.5°	656.8	663.3	671.2	680.0	689.3	696.7	702.3	706.5	709.3	708.3	706.0
35°	586.7	588.6	593.7	600.7	608.5	616.4	621.5	626.2	629.4	630.4	630.4
37.5°	514.8	508.7	505.0	505.0	509.7	512.9	517.6	520.3	525.5	527.3	528.7
40°	445.1	431.2	418.2	408.5	402.0	401.5	401.5	402.9	407.6	413.6	419.2
42.5°	382.9	360.7	340.7	322.6	309.6	302.2	298.9	299.4	303.1	308.7	318.0
45°	333.3	305.4	280.4	258.5	240.9	229.3	223.7	223.3	226.1	232.6	242.8
47.5°	294.8	265.0	236.7	211.7	192.6	180.1	173.6	171.8	173.6	179.6	191.7
50°	262.7	232.1	202.8	176.9	156.4	143.4	137.4	135.1	137.4	142.5	154.6
52.5°	233.0	201.5	174.1	149.0	127.2	116.0	109.5	108.1	109.5	115.6	125.3
55°	198.7	171.8	144.8	119.8	100.7	89.6	84.5	83.1	84.5	90.1	100.3
57.5°	164.8	141.6	117.9	95.2	78.9	69.2	64.5	62.7	65.9	69.6	81.7
60°	133.2	114.7	94.7	74.7	61.3	52.5	48.7	48.3	49.2	53.8	62.2
62.5°	104.4	89.1	73.3	57.1	46.0	42.2	37.6	37.1	38.1	40.8	47.4
65°	75.2	65.5	53.4	41.8	33.0	27.8	26.0	26.5	27.4	29.2	35.3
67.5°	52.5	45.5	37.1	29.2	22.7	20.4	18.6	18.1	18.6	21.8	25.1
70°	35.3	31.1	25.1	22.3	15.8	12.5	13.0	11.6	13.5	13.5	16.2
72.5°	23.2	20.4	16.7	13.0	11.1	8.8	8.8	8.4	9.3	9.7	12.1
75°	12.1	9.3	9.3	6.5	4.6	2.3	4.2	3.7	3.2	3.7	4.6
77.5°	8.4	7.0	6.5	5.1	4.6	3.7	3.7	3.7	3.7	4.2	4.6
80°	5.1	5.1	3.7	3.2	2.8	2.3	2.8	2.8	2.8	2.8	3.2
82.5°	3.2	2.8	2.8	2.3	2.3	1.9	1.9	1.9	1.9	1.9	2.8
85°	2.8	1.9	1.9	1.4	1.9	3.2	1.4	1.9	1.9	1.9	1.4
87.5°	0.9	1.4	1.4	1.4	0.9	0.5	0.9	1.4	1.4	2.3	1.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8
2.5°	866.2	866.6	866.6	866.2	866.2	865.2	867.1	865.7	866.2	868.0	866.6
5°	867.1	867.6	867.6	867.1	867.1	867.1	867.6	867.6	867.1	866.6	867.6
7.5°	868.9	868.5	868.5	867.6	867.6	866.6	867.6	866.2	867.1	866.2	867.6
10°	866.6	867.1	866.6	866.2	866.2	865.7	865.7	864.3	864.8	863.4	864.3
12.5°	865.2	864.8	864.8	863.8	862.9	862.0	861.5	860.1	860.1	856.9	858.3
15°	861.5	862.0	860.6	858.7	857.8	855.5	854.6	852.7	850.8	848.5	849.0
17.5°	858.3	856.9	855.0	853.2	849.4	847.6	845.7	843.0	842.0	839.2	838.3
20°	848.5	847.6	845.3	842.0	839.7	835.5	833.7	830.9	828.6	825.8	824.4
22.5°	836.0	835.1	832.3	829.0	825.3	823.5	821.6	816.5	814.2	811.4	810.9
25°	820.2	818.8	816.0	812.3	810.5	805.4	803.5	799.8	798.9	796.1	795.6
27.5°	796.1	794.2	791.0	786.3	783.1	779.8	778.0	775.2	774.3	771.5	771.0
30°	759.9	757.5	751.0	749.2	743.6	740.4	740.4	736.7	737.1	735.3	735.3
32.5°	702.8	699.1	693.9	690.2	686.5	684.7	684.7	683.3	684.2	684.2	685.1
35°	627.1	622.0	619.2	616.9	616.9	618.7	624.3	625.7	628.5	630.8	632.7
37.5°	530.1	529.6	532.9	535.7	542.6	550.5	560.3	568.6	576.5	582.1	587.7
40°	425.2	436.8	446.1	459.1	469.7	485.1	502.7	517.1	530.6	540.3	550.5
42.5°	331.9	346.7	366.2	385.3	404.3	425.2	448.4	468.4	486.0	499.5	510.1
45°	258.5	279.0	302.7	326.8	351.4	377.4	401.5	421.9	440.5	454.4	465.1
47.5°	208.4	230.7	257.6	284.1	311.9	339.3	366.2	383.9	399.2	410.3	420.1
50°	172.2	195.9	224.2	254.4	282.2	309.6	332.8	350.0	362.5	372.3	378.3
52.5°	143.9	169.0	199.1	229.3	257.2	282.2	303.1	316.1	326.3	333.3	338.8
55°	118.8	143.0	171.3	199.6	227.0	250.7	267.8	277.6	285.5	289.6	292.9
57.5°	97.0	119.3	145.3	171.3	195.0	214.5	227.9	237.7	241.4	244.6	244.2
60°	76.1	97.0	120.7	143.0	163.4	179.2	188.9	194.5	197.3	198.7	197.7
62.5°	59.9	78.9	97.0	116.5	131.4	144.8	154.1	154.1	155.5	156.0	157.4
65°	44.6	58.9	74.7	89.1	101.2	110.0	115.1	116.5	118.4	117.9	117.0
67.5°	33.0	43.6	55.2	65.9	74.3	79.8	83.5	86.8	86.3	85.4	84.9
70°	22.7	29.7	39.9	46.4	52.5	58.0	58.9	59.4	59.9	60.3	59.4
72.5°	15.8	20.9	26.5	32.0	35.7	38.1	40.4	40.8	40.8	40.8	40.4
75°	7.9	10.7	15.8	18.1	21.4	22.3	24.1	24.1	25.5	23.7	23.2
77.5°	7.0	8.4	11.1	13.0	14.4	15.8	16.2	17.6	17.2	16.2	16.7
80°	4.2	5.1	7.0	7.9	9.7	10.2	10.7	11.1	10.7	11.1	11.1
82.5°	3.2	3.7	4.6	4.6	6.0	6.0	6.5	6.5	7.0	7.0	7.0
85°	1.9	3.2	2.8	5.6	3.7	3.7	4.6	5.6	4.6	4.6	5.6
87.5°	1.9	1.9	1.4	1.9	1.9	1.9	2.3	2.8	2.8	3.2	2.8
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):

	165°	170°	175°	180°
0°	864.8	864.8	864.8	864.8
2.5°	866.2	867.1	865.7	865.2
5°	867.6	867.6	866.6	866.6
7.5°	867.6	867.6	866.2	865.2
10°	863.8	863.8	862.5	861.5
12.5°	856.9	856.9	856.4	855.0
15°	848.1	848.1	846.2	844.8
17.5°	836.0	836.9	834.6	834.6
20°	823.0	822.5	820.7	819.7
22.5°	809.5	808.6	808.1	805.4
25°	795.1	794.2	792.8	791.4
27.5°	770.5	770.1	768.7	766.8
30°	732.9	732.5	730.6	730.6
32.5°	684.2	683.7	681.9	682.4
35°	633.6	635.5	634.5	632.7
37.5°	591.4	592.8	593.7	592.8
40°	556.1	560.3	560.7	561.7
42.5°	518.5	524.1	525.9	526.8
45°	473.5	478.6	482.8	481.8
47.5°	427.5	431.2	434.9	432.2
50°	383.4	385.7	387.1	387.1
52.5°	341.6	341.6	341.2	341.6
55°	293.8	293.8	292.0	292.9
57.5°	243.7	244.6	243.2	240.9
60°	197.3	195.0	194.0	192.6
62.5°	153.6	153.6	150.4	154.6
65°	115.1	113.7	112.3	111.9
67.5°	83.5	83.1	81.7	81.2
70°	58.9	57.1	56.6	55.7
72.5°	39.5	39.5	38.5	38.5
75°	24.1	21.8	21.4	21.8
77.5°	16.7	16.2	16.2	15.8
80°	11.1	10.7	11.6	10.2
82.5°	7.0	7.4	7.0	7.4
85°	4.6	5.6	5.1	5.1
87.5°	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0

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