

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: P684626

Luminaire Tested: **LX6C08D010 EX6C089040 6LCSWH**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P684626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C08D010 EX6C089040 6LCSWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

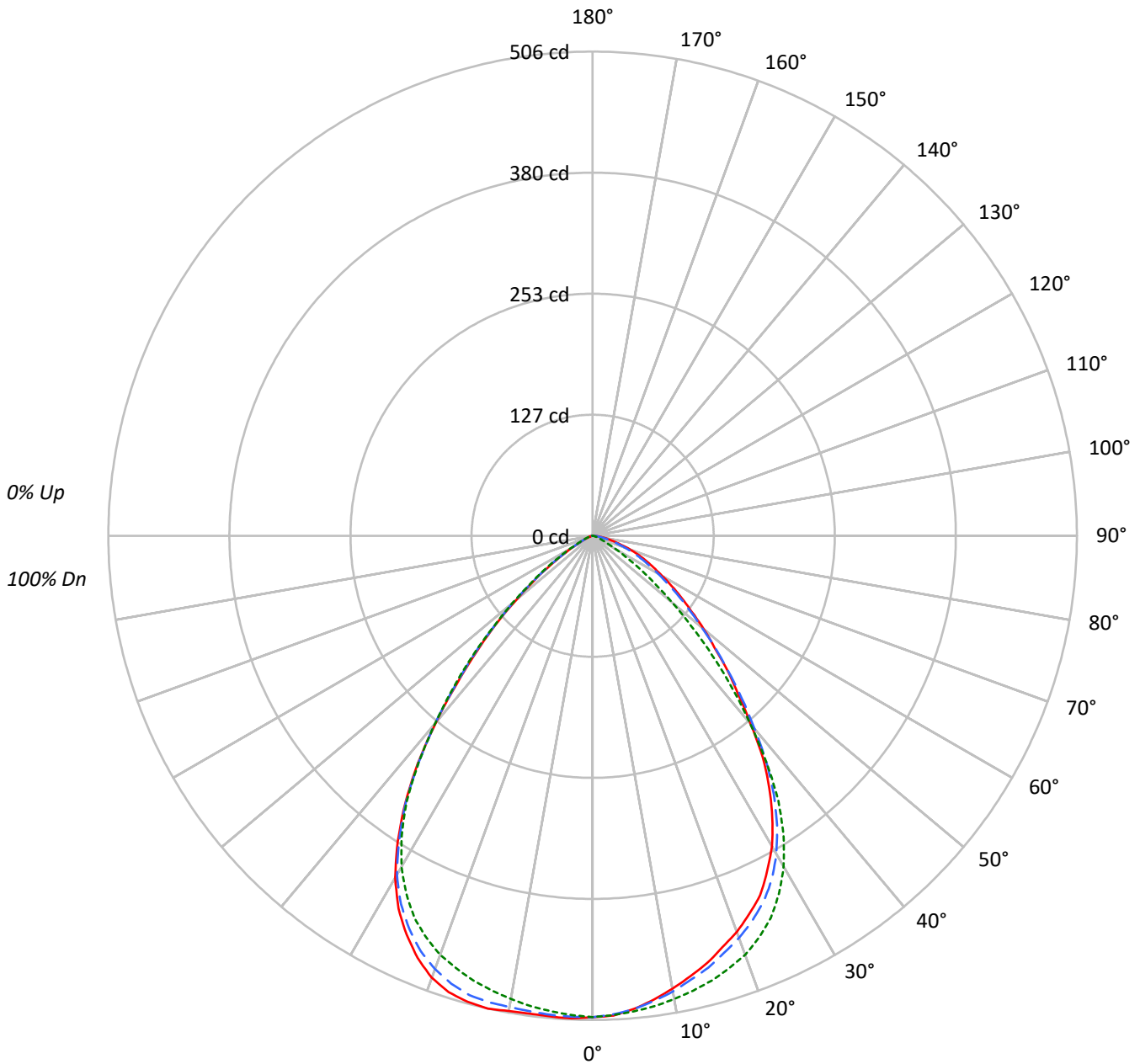
Lumens per Lamp: N/A
Luminaire Lumens: 844.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
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	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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27580	27580	27580
5°	27317	27449	27751
10°	26753	27360	28072
15°	26243	27310	28621
20°	25698	27186	28673
25°	25066	26645	27818
30°	23731	25270	26112
35°	21549	22647	22854
40°	18392	18306	18220
45°	15451	13707	13280
50°	12904	9279	8810
55°	10857	5687	5171
60°	9199	2993	2598
65°	7965	1583	1258
70°	6620	978	673
75°	4893	635	381
80°	3852	379	189
85°	3082	377	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	5.6
10°-20°	135.8	16.1
20°-30°	200.5	23.8
30°-40°	206.6	24.5
40°-50°	142.7	16.9
50°-60°	70.3	8.3
60°-70°	28.5	3.4
70°-80°	10.1	1.2
80°-90°	2.1	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°	383.6	45.5
0°-40°	590.2	69.9
0°-60°	803.2	95.2
0°-90°	844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	844.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	503	503	503	503	503	
5°	496	496	499	502	504	47
15°	462	467	481	497	504	130
25°	414	422	440	453	460	189
35°	322	330	338	340	342	200
45°	199	200	177	174	171	154
55°	114	109	60	56	54	103
65°	61	55	12	10	10	61
75°	23	19	3	2	2	26
85°	5	4	1	0	0	6
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°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1
2.5°	501.9	500.0	501.3	498.8	501.9	498.8	499.4	500.0	499.4	500.0	500.6
5°	496.4	494.6	496.4	493.4	496.4	494.6	494.6	495.2	495.2	495.8	496.4
7.5°	489.1	487.3	489.1	486.1	489.7	487.9	487.9	489.1	488.5	489.1	490.3
10°	480.6	478.2	480.0	478.2	481.8	479.4	480.6	480.6	480.6	482.4	483.6
12.5°	471.5	469.0	471.5	468.4	472.1	470.3	470.9	472.7	473.3	474.5	475.1
15°	462.4	459.3	460.5	458.7	462.4	460.5	461.2	463.6	463.6	465.4	467.2
17.5°	450.8	448.4	450.8	448.4	451.4	450.2	451.4	453.3	453.3	455.1	456.9
20°	440.5	438.1	439.9	438.1	441.7	439.9	440.5	442.9	443.5	445.3	447.2
22.5°	427.7	425.9	427.1	425.3	428.9	427.7	428.4	430.8	431.4	432.6	435.6
25°	414.4	410.7	412.5	411.3	415.0	413.2	414.4	416.8	418.0	419.8	422.3
27.5°	394.9	393.1	394.3	394.3	397.3	395.5	396.1	398.6	400.4	402.2	405.3
30°	374.9	371.8	373.1	373.7	376.1	374.9	376.1	378.5	379.1	381.6	384.0
32.5°	349.4	348.1	350.6	349.4	350.6	350.6	351.2	353.0	354.2	355.4	358.5
35°	322.0	319.6	322.0	320.8	323.8	322.0	323.8	325.7	325.7	328.1	329.9
37.5°	292.2	289.2	290.4	290.4	291.6	291.0	291.0	294.1	294.7	296.5	298.3
40°	257.0	255.8	258.2	257.6	258.2	258.2	258.8	260.6	261.9	262.5	263.1
42.5°	225.4	226.0	226.6	226.6	226.6	226.6	226.6	229.0	228.5	230.3	230.9
45°	199.3	196.9	198.1	197.5	199.3	197.5	199.3	201.1	199.9	201.7	200.5
47.5°	172.5	172.5	172.5	172.0	173.2	172.5	173.8	174.4	174.4	174.4	173.8
50°	151.3	149.5	150.1	150.1	150.7	150.1	151.3	151.9	151.9	150.7	148.3
52.5°	130.6	130.0	130.0	131.2	131.2	130.6	130.6	130.6	130.6	128.8	127.6
55°	113.6	112.4	113.0	113.0	113.0	113.0	113.6	113.0	113.0	111.2	109.4
57.5°	98.4	97.2	97.2	97.2	97.8	97.2	97.2	97.2	96.6	94.8	92.4
60°	83.9	83.2	83.9	83.9	84.4	83.9	83.9	83.9	82.6	80.8	78.4
62.5°	71.7	71.7	71.7	72.3	72.3	71.7	71.7	71.1	70.5	68.0	65.6
65°	61.4	60.8	61.4	61.4	62.0	62.0	61.4	60.8	60.2	57.7	55.3
67.5°	51.0	50.4	51.0	51.0	51.6	51.0	51.0	51.0	49.2	48.0	45.6
70°	41.3	40.7	40.7	40.7	41.3	40.1	40.7	40.7	39.5	37.7	35.2
72.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.0	31.0	29.8	27.9	26.7
75°	23.1	23.1	23.7	23.7	23.1	23.1	23.1	22.5	21.9	20.7	19.4
77.5°	17.0	17.0	17.0	17.0	16.4	16.4	16.4	15.8	15.2	14.6	13.4
80°	12.2	12.2	12.2	11.5	12.2	11.5	11.5	11.5	10.3	9.7	9.1
82.5°	8.5	7.9	7.9	7.9	7.9	7.9	7.9	7.3	7.3	6.7	6.1
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.2	3.7	3.7
87.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.4	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1
2.5°	500.6	500.6	501.9	500.0	503.1	501.3	500.6	503.7	501.9	501.3	502.5
5°	496.4	497.0	497.6	496.4	499.4	497.6	497.6	500.6	499.4	498.8	500.6
7.5°	490.9	491.5	492.7	492.1	494.6	493.4	494.0	497.0	495.8	495.8	497.6
10°	484.2	485.4	486.7	486.7	489.7	488.5	488.5	492.1	490.9	491.5	494.0
12.5°	476.3	478.2	480.0	480.6	483.6	481.8	482.4	486.7	486.1	486.7	489.1
15°	467.8	470.3	472.1	472.1	475.7	473.9	475.7	480.0	478.8	481.2	484.2
17.5°	458.1	460.5	463.0	463.6	467.2	466.0	468.4	472.7	472.7	473.9	477.6
20°	449.0	452.0	453.3	455.1	458.7	458.1	459.3	464.2	464.2	466.0	469.7
22.5°	436.8	439.9	442.3	444.1	447.2	447.2	449.0	453.3	453.3	454.5	458.1
25°	423.5	427.1	428.9	430.8	433.8	433.2	435.0	438.7	439.3	440.5	444.1
27.5°	406.5	409.5	411.9	413.2	417.4	415.0	416.8	421.1	420.4	421.7	424.7
30°	385.2	388.3	390.7	390.7	394.3	394.3	396.1	398.0	398.0	399.2	401.6
32.5°	360.3	363.9	363.9	365.8	368.2	365.8	368.2	370.6	369.4	371.2	373.1
35°	331.7	333.6	334.2	334.2	336.0	335.4	334.8	336.6	335.4	338.4	340.2
37.5°	297.1	299.5	298.3	299.5	298.9	297.1	297.1	300.2	297.7	298.3	300.2
40°	263.7	263.7	263.1	260.1	260.6	258.8	258.2	258.8	256.4	255.8	258.2
42.5°	229.0	228.5	226.6	222.4	223.0	219.9	217.5	217.5	216.3	215.7	216.3
45°	198.1	196.2	193.2	188.4	187.1	184.7	179.8	178.6	176.8	176.8	177.4
47.5°	169.5	167.1	162.2	156.8	153.7	150.7	145.8	144.0	140.9	139.7	140.9
50°	145.8	141.6	135.5	127.6	124.5	120.9	116.0	113.0	110.0	108.8	108.1
52.5°	123.9	117.9	111.8	102.1	99.6	96.0	89.3	86.3	83.2	80.8	80.8
55°	105.1	99.6	91.1	82.0	78.4	74.7	68.0	63.8	60.8	59.5	58.3
57.5°	88.1	82.0	74.1	64.4	60.8	57.1	50.4	46.2	43.1	41.3	40.1
60°	74.1	67.4	59.5	51.0	46.8	43.1	36.5	32.2	29.2	27.3	26.1
62.5°	60.8	55.3	47.4	39.5	35.8	32.2	26.7	22.5	19.4	18.2	16.4
65°	51.0	45.6	38.3	31.6	28.6	24.9	20.1	16.4	14.0	12.2	10.9
67.5°	41.3	37.1	31.0	24.9	21.9	19.4	15.2	12.2	9.7	8.5	7.9
70°	32.8	28.6	23.7	18.8	17.0	14.6	11.5	8.5	7.3	6.1	5.5
72.5°	24.3	21.3	17.6	14.0	12.2	10.9	7.9	6.7	4.9	4.2	3.7
75°	17.6	15.2	12.7	9.7	8.5	7.9	6.1	4.2	3.7	3.0	2.4
77.5°	12.2	10.9	8.5	6.7	6.1	5.5	4.2	3.0	2.4	1.8	1.8
80°	7.9	6.7	5.5	4.2	4.2	3.7	2.4	1.8	1.8	1.2	1.2
82.5°	4.9	4.2	3.7	3.0	2.4	2.4	1.8	1.2	1.2	0.6	0.6
85°	3.0	2.4	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1
2.5°	502.5	502.5	503.7	501.9	503.1	503.1	504.3	501.9	503.1	503.7	504.9
5°	500.0	500.6	501.9	501.3	501.9	501.9	503.1	500.0	502.5	502.5	504.3
7.5°	497.6	497.6	498.8	498.2	499.4	500.0	501.3	498.8	501.3	501.3	503.1
10°	494.6	494.6	496.4	495.8	497.6	498.2	500.0	497.6	500.0	500.6	502.5
12.5°	490.3	490.9	492.7	492.7	494.6	495.8	497.6	496.4	499.4	500.0	502.5
15°	485.4	486.7	489.1	488.5	490.3	492.1	494.6	492.7	497.0	498.2	500.6
17.5°	479.4	480.6	482.4	482.4	484.2	485.4	488.5	487.3	490.9	491.5	494.6
20°	470.3	472.1	474.5	473.9	475.7	476.9	479.4	478.2	481.8	483.0	486.1
22.5°	459.3	460.5	462.4	462.4	464.2	465.4	467.8	466.0	469.7	470.3	472.7
25°	444.8	446.0	447.2	447.8	449.6	450.2	451.4	450.2	453.3	453.9	456.9
27.5°	425.9	426.5	428.4	428.4	429.6	430.2	432.0	429.6	433.8	433.8	435.6
30°	403.4	402.8	405.3	404.0	405.3	405.3	407.1	405.9	408.9	407.7	409.5
32.5°	373.7	374.9	374.9	373.7	376.1	375.5	375.5	374.3	376.1	376.7	377.9
35°	339.0	340.8	340.8	341.5	342.1	340.2	340.8	337.2	340.2	340.8	341.5
37.5°	301.4	299.5	300.7	298.9	302.0	298.3	298.3	295.9	298.3	298.3	298.9
40°	258.2	257.6	258.8	257.6	257.0	256.4	255.2	253.4	255.8	254.6	256.4
42.5°	217.5	216.9	216.9	215.7	215.1	215.1	213.9	212.6	212.1	212.1	215.1
45°	175.6	176.8	175.6	175.0	176.2	175.0	175.6	173.2	174.4	173.2	174.4
47.5°	140.4	140.9	139.7	138.5	140.4	138.5	138.5	136.7	139.1	139.1	137.9
50°	108.8	108.1	106.9	108.1	107.5	107.5	107.5	105.7	106.9	105.1	106.3
52.5°	80.2	79.6	79.6	79.0	79.6	79.0	79.0	78.4	78.4	77.8	78.4
55°	58.3	57.7	56.5	56.5	56.5	57.1	56.5	55.9	55.9	55.3	55.9
57.5°	39.5	38.3	38.3	38.3	38.3	37.7	37.7	37.1	37.7	37.1	37.7
60°	25.5	25.5	24.3	24.3	24.3	24.3	24.3	23.7	24.3	24.3	24.3
62.5°	15.8	15.8	15.2	14.6	15.2	14.6	14.6	14.6	15.2	14.6	15.2
65°	10.3	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	7.3	6.7	6.7	6.7	6.7	6.7	6.7	6.1	6.7	6.7	6.7
70°	4.9	4.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P684626

CATALOG NUMBER: LX6C08D010 EX6C089040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1
2.5°	503.1	503.7	502.5	503.1	501.9	503.1	503.7	504.9
5°	501.9	502.5	501.3	502.5	501.3	502.5	503.1	504.3
7.5°	500.6	501.9	500.6	501.9	500.6	501.9	502.5	503.7
10°	500.6	502.5	501.3	503.1	501.3	502.5	503.7	504.3
12.5°	500.6	502.5	501.9	503.1	502.5	503.7	504.9	506.1
15°	499.4	501.3	500.0	501.9	501.3	501.9	504.3	504.3
17.5°	492.7	494.6	494.6	495.8	495.8	497.6	498.8	500.0
20°	484.2	486.1	485.4	487.3	487.3	489.1	490.3	491.5
22.5°	471.5	473.9	473.3	475.1	474.5	475.7	478.2	477.6
25°	455.1	458.1	457.5	458.7	458.1	458.1	459.3	459.9
27.5°	435.0	436.8	436.2	437.5	436.2	437.5	438.7	439.3
30°	408.9	410.1	409.5	410.1	409.5	410.7	411.3	412.5
32.5°	377.3	379.1	377.3	378.5	377.9	377.9	380.3	379.1
35°	339.6	340.2	340.8	340.8	339.6	340.2	341.5	341.5
37.5°	297.7	300.7	297.1	298.9	298.3	298.3	298.3	300.2
40°	254.0	254.6	253.4	253.4	253.4	252.7	255.2	254.6
42.5°	212.6	213.3	212.6	210.8	211.4	211.4	213.3	210.8
45°	172.5	173.8	173.2	173.2	172.0	172.0	172.5	171.3
47.5°	136.7	137.9	136.1	136.7	135.5	136.7	136.1	137.3
50°	103.9	105.1	104.5	105.1	105.1	103.9	105.7	103.3
52.5°	77.8	78.4	77.8	77.2	76.6	76.6	77.8	77.2
55°	55.3	54.7	54.7	54.7	55.3	55.3	54.7	54.1
57.5°	37.1	37.1	36.5	36.5	37.1	35.8	36.5	35.8
60°	23.7	23.7	23.7	23.7	23.1	23.7	23.7	23.7
62.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
65°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	6.1	6.7	6.7	6.7	6.1	6.1	6.1	6.1
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)