

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: P856843

Luminaire Tested: **LX4C10D010 EX4C109835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P856843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

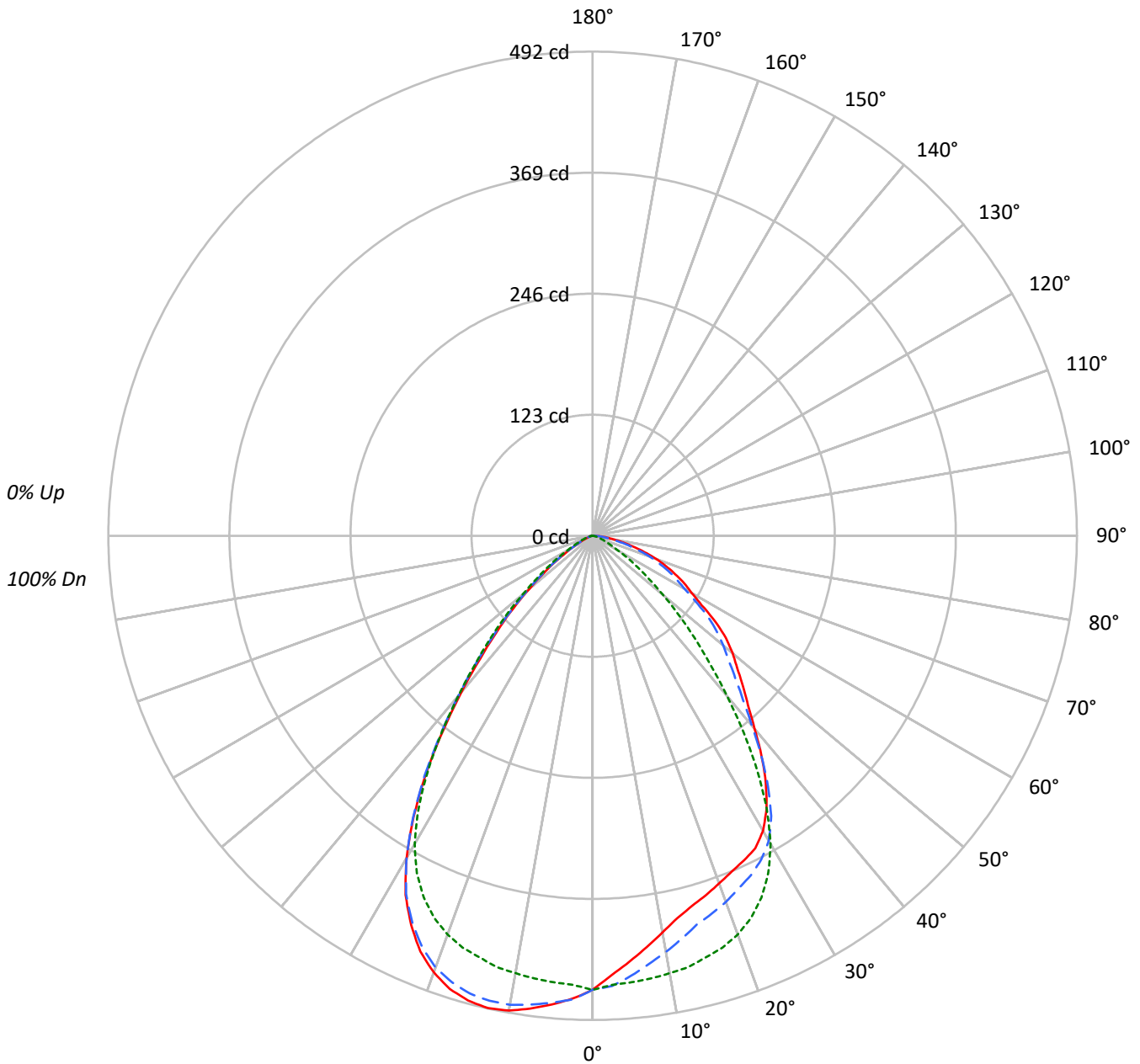
Lumens per Lamp: N/A
Luminaire Lumens: 808.8 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

TEST NUMBER: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56685	56685	56685
5°	53522	56174	58961
10°	51035	56299	61114
15°	49527	56420	62169
20°	49131	56361	61721
25°	49328	54981	59156
30°	49097	51282	53651
35°	46013	43793	44228
40°	41008	33951	33197
45°	37493	25314	23768
50°	35454	17717	16016
55°	32599	11973	10067
60°	28477	7003	5553
65°	26948	4477	3110
70°	24569	3197	1940
75°	20316	2231	1377
80°	15989	1273	849
85°	14237	846	0



TEST NUMBER: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	5.4
10°-20°	125.1	15.5
20°-30°	185.4	22.9
30°-40°	185.7	23.0
40°-50°	129.8	16.0
50°-60°	77.2	9.5
60°-70°	40.3	5.0
70°-80°	17.9	2.2
80°-90°	3.9	0.5
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°	354.1	43.8
0°-40°	539.7	66.7
0°-60°	746.7	92.3
0°-90°	808.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	461	461	461	461	461	
5°	434	449	456	476	478	41
15°	389	409	444	482	489	110
25°	364	381	406	434	436	168
35°	307	310	292	297	295	190
45°	216	205	146	141	137	168
55°	152	143	56	49	47	135
65°	93	85	15	11	11	92
75°	43	38	5	3	3	46
85°	10	8	1	1	0	11
90°	0	0	0	0	0	



TEST NUMBER: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
2.5°	446.6	451.9	446.6	448.4	455.5	448.9	452.5	452.5	450.7	454.9	457.8
5°	434.0	439.5	434.0	436.4	444.2	437.6	441.8	440.6	441.2	444.8	448.9
7.5°	421.6	425.7	421.0	423.9	431.1	425.7	429.3	429.3	429.9	435.3	438.8
10°	409.1	412.6	409.1	411.4	419.2	414.5	416.8	417.4	419.2	423.9	429.3
12.5°	397.8	400.7	397.2	400.7	407.3	402.5	405.6	406.1	407.9	413.2	419.2
15°	389.4	392.5	388.9	391.8	397.8	394.2	396.6	397.8	399.0	403.7	409.1
17.5°	382.9	385.3	382.3	385.9	390.7	386.5	390.0	390.0	391.8	396.6	402.5
20°	375.8	378.2	375.8	378.7	384.2	380.6	383.5	383.5	385.3	390.7	396.0
22.5°	369.3	370.4	369.3	371.6	376.9	374.0	375.8	376.4	378.2	382.9	387.7
25°	363.9	366.2	365.1	367.5	371.1	368.0	369.8	370.4	372.2	376.4	380.6
27.5°	357.9	359.1	357.9	360.9	363.9	361.5	363.3	362.7	363.9	367.5	371.1
30°	346.1	347.2	347.2	349.0	351.4	350.3	352.0	350.3	351.4	354.4	357.9
32.5°	328.8	329.4	330.0	331.8	333.6	331.8	333.0	333.0	333.0	335.4	337.7
35°	306.8	308.0	307.4	308.6	310.4	309.8	309.8	309.2	308.0	309.2	310.4
37.5°	281.9	280.0	280.0	281.9	283.0	280.6	281.9	280.6	280.6	281.3	281.3
40°	255.7	253.9	255.7	256.3	256.8	255.7	255.1	253.9	252.1	252.7	251.6
42.5°	233.7	232.5	233.1	233.1	233.7	232.5	233.1	230.7	228.9	227.8	226.0
45°	215.8	214.1	215.8	214.6	214.6	214.1	213.5	212.2	209.9	208.1	205.1
47.5°	199.2	199.2	199.8	199.8	199.8	198.6	198.6	196.2	193.9	191.5	187.3
50°	185.5	184.3	186.7	186.7	184.9	184.3	184.9	181.9	180.1	177.2	173.0
52.5°	170.7	170.7	171.2	171.2	170.7	169.4	170.1	167.6	165.9	162.9	158.7
55°	152.2	151.1	152.8	152.8	152.2	151.6	152.2	150.4	148.7	146.2	142.7
57.5°	131.4	130.8	132.0	132.6	131.4	131.4	132.0	130.2	129.7	127.3	123.7
60°	115.9	115.4	116.6	117.2	115.9	115.9	115.9	113.5	112.4	110.0	107.6
62.5°	105.2	104.7	105.8	105.2	104.7	104.1	104.7	102.3	101.1	98.7	96.3
65°	92.7	93.4	94.0	94.0	93.4	92.7	92.7	91.6	90.4	88.0	85.1
67.5°	80.9	80.9	81.5	82.0	81.5	81.5	81.5	79.6	78.5	76.7	73.1
70°	68.4	67.8	69.6	69.6	68.4	68.9	68.4	67.8	66.6	64.2	61.3
72.5°	55.3	55.3	55.9	55.9	55.3	55.3	55.3	54.7	52.9	51.7	48.8
75°	42.8	42.8	43.4	44.0	42.8	42.8	43.4	42.2	41.0	39.2	37.5
77.5°	32.1	31.5	32.1	32.1	31.5	31.5	31.5	30.9	30.3	28.5	26.8
80°	22.6	22.0	22.6	22.6	22.6	22.0	22.0	21.4	21.4	20.2	18.5
82.5°	15.4	14.9	15.4	15.4	15.4	14.9	14.9	14.9	14.3	13.6	12.5
85°	10.1	9.5	9.5	10.1	9.5	9.5	9.5	9.5	8.9	8.3	7.8
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.2	4.2	4.2	3.6
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: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
2.5°	455.5	454.3	457.8	456.7	457.3	454.3	459.1	456.7	459.6	456.7	462.6
5°	447.7	446.6	451.9	451.3	451.9	449.5	454.9	454.3	457.8	455.5	462.0
7.5°	439.5	438.2	444.2	444.8	446.0	443.6	450.7	450.7	454.3	453.7	460.9
10°	429.9	430.4	436.4	437.6	440.0	438.8	445.3	447.1	451.9	451.3	460.2
12.5°	421.0	421.0	428.7	431.1	432.9	432.3	440.0	442.4	447.7	448.9	457.3
15°	412.1	412.6	419.7	423.3	425.7	425.2	433.5	436.4	443.0	443.6	453.7
17.5°	404.9	404.3	412.1	415.0	418.6	418.0	426.9	430.4	437.0	438.8	448.4
20°	399.0	398.4	405.6	409.1	411.4	410.9	419.7	423.9	429.9	431.1	440.6
22.5°	391.8	390.7	397.8	400.7	403.2	402.5	410.3	413.2	419.2	420.4	429.3
25°	383.5	382.3	388.9	390.7	392.5	391.3	397.8	399.6	404.3	405.6	414.5
27.5°	374.0	371.1	376.4	376.4	377.6	375.8	380.6	382.3	386.5	386.5	394.9
30°	359.1	355.0	357.9	357.3	357.9	355.5	358.6	359.1	362.1	361.5	367.5
32.5°	338.3	332.4	334.1	332.4	330.6	327.0	330.6	329.4	331.8	329.4	334.8
35°	309.8	303.8	303.3	300.9	299.1	296.1	296.1	293.1	293.7	292.0	295.5
37.5°	278.8	271.2	269.9	265.2	262.3	258.7	258.7	256.3	253.3	252.1	255.1
40°	248.5	240.2	237.3	229.5	226.5	222.9	220.6	217.7	216.4	211.7	214.1
42.5°	222.4	213.5	207.0	198.6	195.6	190.3	186.7	183.2	181.4	176.0	178.3
45°	200.4	189.7	182.5	171.8	167.6	161.8	156.4	152.2	148.0	145.7	144.5
47.5°	181.9	170.7	161.1	149.3	142.7	137.3	130.2	126.1	120.7	117.7	115.9
50°	166.5	154.0	143.3	129.7	123.1	117.2	108.8	102.3	97.6	92.7	91.6
52.5°	152.8	139.7	127.9	112.4	104.7	97.6	88.6	81.5	77.3	72.0	71.3
55°	136.8	125.5	112.4	96.3	88.6	81.5	72.0	64.8	59.5	55.9	54.7
57.5°	119.5	108.8	96.3	80.3	72.5	64.8	55.9	49.3	44.6	41.6	41.0
60°	103.4	93.4	81.5	65.4	57.7	51.1	41.6	35.0	30.9	28.5	27.4
62.5°	91.6	82.0	70.8	55.9	48.8	42.2	33.4	27.4	23.8	21.4	20.2
65°	80.3	70.8	60.6	47.0	41.0	35.0	26.8	21.4	17.8	15.4	14.3
67.5°	68.4	60.1	50.6	39.2	33.4	28.5	21.4	16.7	13.6	11.9	10.7
70°	56.4	48.8	41.0	31.5	27.4	22.6	16.7	13.1	10.1	8.9	7.8
72.5°	44.6	38.6	32.1	24.3	20.8	17.8	13.1	9.5	7.8	6.5	5.4
75°	33.4	29.2	23.8	18.5	15.4	13.1	9.5	7.1	6.0	4.7	4.2
77.5°	23.8	20.2	16.7	12.5	11.3	9.5	6.5	5.4	4.2	2.9	2.4
80°	16.1	14.3	11.3	8.9	7.1	6.5	4.7	3.6	2.4	1.8	1.8
82.5°	10.7	8.9	7.1	5.4	4.7	4.2	2.9	2.4	1.8	1.2	1.2
85°	6.5	5.4	4.2	2.9	2.9	2.4	1.8	1.2	0.6	0.6	0.6
87.5°	2.9	2.4	1.8	1.2	1.2	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	0.0	0.0	0.0



TEST NUMBER: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
2.5°	467.4	463.8	461.4	464.3	465.6	463.8	465.6	468.5	471.6	472.1	463.8
5°	468.0	464.3	463.2	466.7	467.4	466.7	468.5	472.7	476.3	477.4	469.1
7.5°	468.0	465.6	465.0	469.1	469.8	469.1	472.1	476.9	480.5	482.8	474.5
10°	466.7	465.6	466.2	469.8	470.9	470.9	475.1	480.5	484.0	486.4	478.1
12.5°	465.0	465.0	465.0	469.1	470.3	470.9	474.5	481.6	484.0	487.6	479.2
15°	462.0	462.0	462.0	466.2	468.0	468.0	472.1	478.7	481.6	485.2	476.9
17.5°	456.7	456.7	457.3	460.9	462.6	462.6	466.7	473.9	475.7	479.8	471.6
20°	448.9	448.9	449.5	453.1	454.9	453.7	459.1	465.0	466.7	470.3	462.0
22.5°	437.6	437.6	437.6	441.2	442.4	441.8	447.1	452.5	452.5	457.3	448.4
25°	421.0	422.2	421.0	424.6	425.7	425.2	429.9	434.6	433.5	438.8	429.9
27.5°	400.7	400.1	400.1	403.2	403.2	402.5	406.1	411.4	410.3	413.9	405.6
30°	372.8	374.6	371.6	375.8	374.0	372.8	375.2	380.0	378.2	381.1	374.6
32.5°	340.7	338.3	338.3	338.3	339.5	336.5	339.0	341.3	339.5	342.5	335.4
35°	298.5	299.1	297.3	297.9	298.5	294.9	297.3	299.7	297.3	299.1	292.6
37.5°	256.3	256.8	252.7	255.1	252.7	251.6	253.9	255.1	252.7	254.5	247.4
40°	214.1	212.9	212.2	212.2	212.9	209.9	211.7	213.5	211.7	212.9	206.3
42.5°	177.2	176.6	175.4	176.0	174.2	173.6	174.2	176.0	174.2	175.4	170.7
45°	145.1	143.9	142.1	142.7	142.7	139.7	141.5	142.7	140.9	141.5	137.3
47.5°	115.4	113.5	113.5	113.0	113.0	111.8	113.5	113.0	111.2	112.4	108.3
50°	89.8	88.6	88.6	88.6	88.6	86.8	87.4	88.6	86.8	86.8	84.4
52.5°	70.2	68.4	67.2	67.2	67.2	66.6	66.6	67.2	65.4	65.4	64.8
55°	52.9	52.3	50.6	50.6	50.6	48.8	49.3	49.3	48.8	48.8	47.0
57.5°	39.2	37.5	36.3	36.3	35.0	35.0	34.5	35.0	33.9	33.9	32.7
60°	26.1	25.0	24.3	23.8	23.8	23.2	23.8	23.2	23.2	22.6	22.0
62.5°	19.0	17.8	16.7	16.7	16.7	16.1	16.1	16.1	16.1	16.1	15.4
65°	13.6	12.5	12.5	11.9	11.9	11.3	11.3	11.3	11.3	11.3	10.7
67.5°	9.5	8.9	8.3	8.3	8.3	8.3	8.3	8.3	7.8	7.8	7.8
70°	7.1	6.5	6.0	6.0	6.0	6.0	6.0	5.4	6.0	6.0	5.4
72.5°	4.7	4.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.6	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.0	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



TEST NUMBER: P856843

CATALOG NUMBER: LX4C10D010 EX4C109835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
2.5°	472.7	472.1	470.9	472.7	468.0	466.2	465.6	470.9
5°	479.2	478.1	478.1	479.8	474.5	473.3	472.1	478.1
7.5°	485.2	484.0	484.0	485.8	481.0	479.8	478.7	484.6
10°	488.8	488.8	488.8	489.9	485.8	484.6	484.0	489.9
12.5°	490.5	490.5	489.9	492.3	487.0	487.0	485.8	491.7
15°	488.1	488.1	488.1	489.9	485.2	484.0	484.0	488.8
17.5°	482.3	482.3	481.6	483.4	478.1	478.1	477.4	482.8
20°	473.3	473.3	472.1	474.5	469.1	467.4	466.7	472.1
22.5°	459.1	458.4	457.8	459.1	454.3	453.1	452.5	457.3
25°	440.6	440.0	438.8	440.0	434.6	432.9	432.9	436.4
27.5°	414.5	414.5	412.6	414.5	408.5	407.9	407.3	411.4
30°	382.3	380.0	378.7	381.1	375.2	375.2	374.0	378.2
32.5°	342.5	340.1	339.5	340.7	335.4	333.6	335.9	338.3
35°	296.7	297.3	294.9	294.9	290.2	290.7	291.3	294.9
37.5°	252.7	251.6	250.9	251.6	248.0	246.7	245.6	249.2
40°	211.7	208.7	208.1	208.1	205.1	204.6	205.1	207.0
42.5°	173.0	172.5	170.1	171.2	168.3	169.4	168.9	168.9
45°	139.7	140.4	138.0	139.7	137.3	135.5	135.5	136.8
47.5°	110.6	110.6	110.0	110.0	108.3	108.8	107.6	109.4
50°	85.6	85.6	84.4	85.1	83.8	83.8	83.2	83.8
52.5°	65.4	64.8	64.8	64.2	63.0	63.7	64.2	63.0
55°	47.5	48.2	47.0	47.5	46.4	47.0	46.4	47.0
57.5°	32.7	33.4	32.1	33.4	32.1	32.7	32.1	32.1
60°	22.6	22.6	22.0	22.6	22.0	22.0	21.4	22.6
62.5°	15.4	15.4	15.4	15.4	15.4	14.9	15.4	15.4
65°	11.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7
67.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.0	0.6	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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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)