

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: P856869

Luminaire Tested: **LX4C10D010 EX4C109850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P856869
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 EX4C109850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

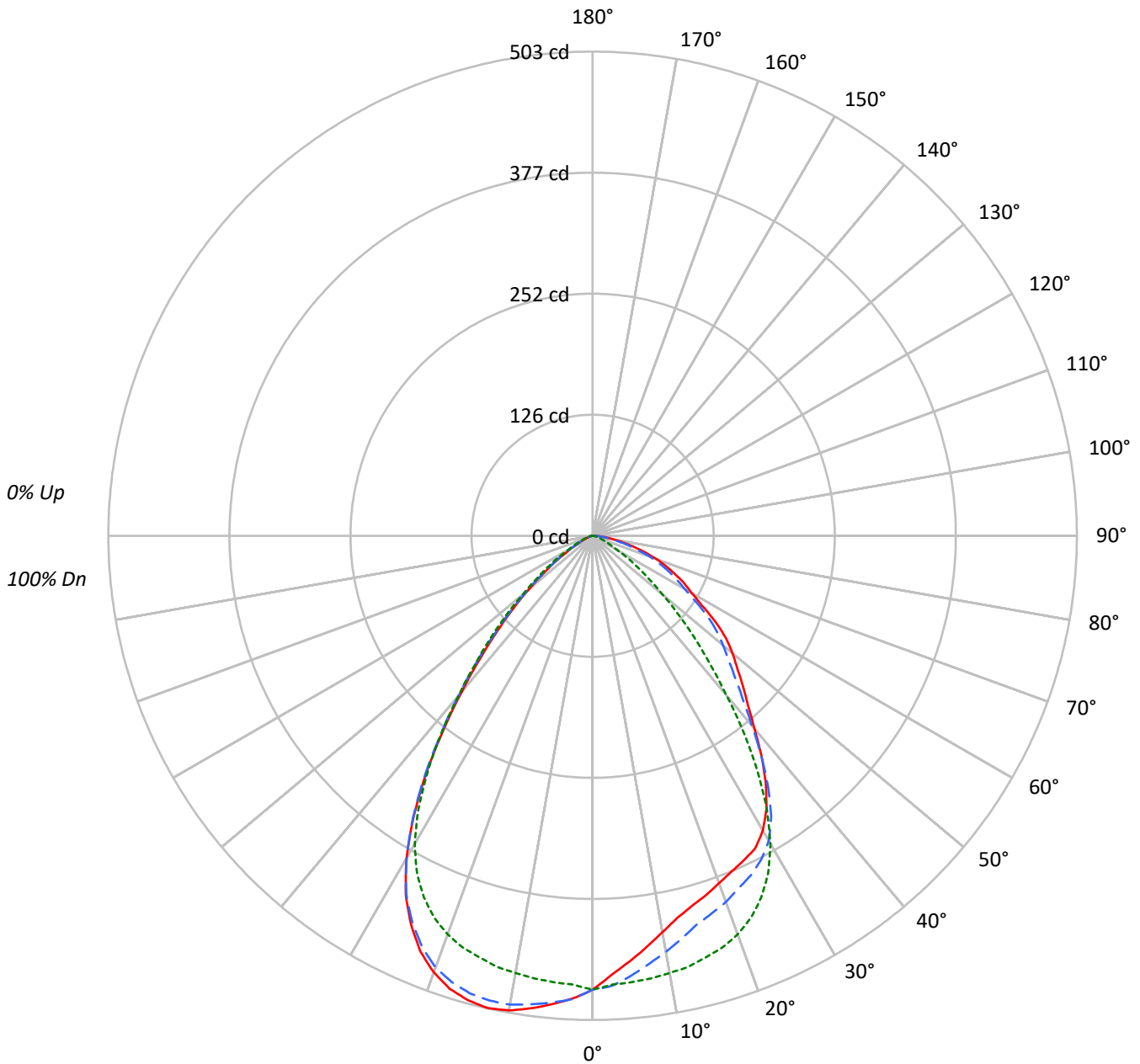
Lumens per Lamp: N/A
Luminaire Lumens: 826.6 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

Luminous Intensity Polar Plot





TEST NUMBER: P856869

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57938	57938	57938
5°	54706	57407	60255
10°	52157	57534	62462
15°	50633	57667	63543
20°	50216	57603	63081
25°	50412	56187	60457
30°	50176	52403	54828
35°	47018	44753	45203
40°	41906	34689	33919
45°	38327	25870	24272
50°	36238	18119	16380
55°	33328	12252	10281
60°	29116	7175	5676
65°	27558	4593	3198
70°	25108	3269	1940
75°	20791	2278	1424
80°	16343	1344	849
85°	14519	846	0



TEST NUMBER: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	5.4
10°-20°	127.8	15.5
20°-30°	189.5	22.9
30°-40°	189.7	23.0
40°-50°	132.6	16.0
50°-60°	78.9	9.5
60°-70°	41.2	5.0
70°-80°	18.3	2.2
80°-90°	4.0	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°	361.9	43.8
0°-40°	551.6	66.7
0°-60°	763.1	92.3
0°-90°	826.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	444	459	466	487	489	42
15°	398	418	453	492	500	113
25°	372	389	414	443	446	171
35°	314	317	298	304	301	194
45°	221	210	149	144	140	171
55°	156	146	57	50	48	138
65°	95	87	16	12	11	94
75°	44	38	5	3	3	47
85°	10	8	1	1	0	12
90°	0	0	0	0	0	



TEST NUMBER: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6
2.5°	456.4	461.8	456.4	458.3	465.5	458.8	462.5	462.5	460.7	464.9	468.0
5°	443.6	449.1	443.6	446.0	454.0	447.3	451.5	450.3	451.0	454.6	458.8
7.5°	430.9	435.1	430.3	433.3	440.6	435.1	438.7	438.7	439.4	444.8	448.5
10°	418.1	421.8	418.1	420.5	428.5	423.6	426.0	426.6	428.5	433.3	438.7
12.5°	406.5	409.6	405.9	409.6	416.3	411.4	414.5	415.0	416.9	422.3	428.5
15°	398.1	401.1	397.4	400.5	406.5	402.9	405.3	406.5	407.8	412.6	418.1
17.5°	391.4	393.8	390.8	394.4	399.2	395.0	398.7	398.7	400.5	405.3	411.4
20°	384.1	386.5	384.1	387.1	392.6	389.0	392.0	392.0	393.8	399.2	404.8
22.5°	377.4	378.6	377.4	379.8	385.3	382.3	384.1	384.7	386.5	391.4	396.2
25°	371.9	374.4	373.1	375.6	379.2	376.1	378.0	378.6	380.4	384.7	389.0
27.5°	365.9	367.0	365.9	368.9	371.9	369.4	371.3	370.7	371.9	375.6	379.2
30°	353.7	354.9	354.9	356.7	359.2	357.9	359.7	357.9	359.2	362.2	365.9
32.5°	336.1	336.7	337.3	339.1	340.9	339.1	340.3	340.3	340.3	342.8	345.2
35°	313.5	314.8	314.2	315.4	317.2	316.7	316.7	316.0	314.8	316.0	317.2
37.5°	288.0	286.2	286.2	288.0	289.3	286.9	288.0	286.9	286.9	287.4	287.4
40°	261.3	259.5	261.3	261.9	262.5	261.3	260.7	259.5	257.6	258.2	257.1
42.5°	238.8	237.6	238.2	238.2	238.8	237.6	238.2	235.8	234.0	232.7	231.0
45°	220.6	218.7	220.6	219.4	219.4	218.7	218.2	217.0	214.6	212.7	209.6
47.5°	203.6	203.6	204.2	204.2	204.2	203.0	203.0	200.6	198.1	195.6	191.5
50°	189.6	188.4	190.8	190.8	189.0	188.4	189.0	185.9	184.1	181.1	176.8
52.5°	174.4	174.4	175.0	175.0	174.4	173.2	173.8	171.4	169.5	166.5	162.3
55°	155.6	154.4	156.1	156.1	155.6	155.0	155.6	153.7	152.0	149.5	145.8
57.5°	134.3	133.7	134.9	135.5	134.3	134.3	134.9	133.1	132.5	130.0	126.4
60°	118.5	117.9	119.1	119.8	118.5	118.5	118.5	116.1	114.9	112.4	110.0
62.5°	107.5	106.9	108.2	107.5	106.9	106.4	106.9	104.5	103.4	100.9	98.4
65°	94.8	95.4	96.0	96.0	95.4	94.8	94.8	93.6	92.4	90.0	86.9
67.5°	82.7	82.7	83.3	83.8	83.3	83.3	83.3	81.4	80.2	78.4	74.7
70°	69.9	69.3	71.1	71.1	69.9	70.4	69.9	69.3	68.0	65.6	62.6
72.5°	56.5	56.5	57.2	57.2	56.5	56.5	56.5	55.9	54.0	52.9	49.8
75°	43.8	43.8	44.3	44.9	43.8	43.8	44.3	43.2	41.9	40.1	38.3
77.5°	32.8	32.2	32.8	32.8	32.2	32.2	32.2	31.7	31.0	29.2	27.4
80°	23.1	22.5	23.1	23.1	23.1	22.5	22.5	21.8	21.8	20.7	18.8
82.5°	15.8	15.2	15.8	15.8	15.8	15.2	15.2	15.2	14.5	14.0	12.8
85°	10.3	9.7	9.7	10.3	9.7	9.7	9.7	9.7	9.1	8.5	7.9
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	4.3	4.3	3.7
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: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6
2.5°	465.5	464.3	468.0	466.7	467.4	464.3	469.1	466.7	469.8	466.7	472.8
5°	457.6	456.4	461.8	461.2	461.8	459.4	464.9	464.3	468.0	465.5	472.2
7.5°	449.1	447.9	454.0	454.6	455.8	453.4	460.7	460.7	464.3	463.7	470.9
10°	439.4	440.0	446.0	447.3	449.7	448.5	455.1	457.0	461.8	461.2	470.4
12.5°	430.3	430.3	438.2	440.6	442.4	441.8	449.7	452.1	457.6	458.8	467.4
15°	421.2	421.8	429.0	432.7	435.1	434.5	443.0	446.0	452.7	453.4	463.7
17.5°	413.9	413.2	421.2	424.2	427.9	427.2	436.3	440.0	446.7	448.5	458.3
20°	407.8	407.2	414.5	418.1	420.5	419.9	429.0	433.3	439.4	440.6	450.3
22.5°	400.5	399.2	406.5	409.6	412.1	411.4	419.3	422.3	428.5	429.6	438.7
25°	392.0	390.8	397.4	399.2	401.1	399.9	406.5	408.4	413.2	414.5	423.6
27.5°	382.3	379.2	384.7	384.7	385.9	384.1	389.0	390.8	395.0	395.0	403.5
30°	367.0	362.8	365.9	365.3	365.9	363.4	366.4	367.0	370.1	369.4	375.6
32.5°	345.8	339.7	341.5	339.7	337.9	334.2	337.9	336.7	339.1	336.7	342.2
35°	316.7	310.5	310.0	307.5	305.7	302.7	302.7	299.6	300.2	298.4	302.0
37.5°	285.0	277.2	275.9	271.1	268.0	264.4	264.4	261.9	258.9	257.6	260.7
40°	254.1	245.5	242.5	234.6	231.5	227.9	225.4	222.4	221.2	216.3	218.7
42.5°	227.3	218.2	211.5	203.0	199.9	194.5	190.8	187.2	185.4	179.9	182.3
45°	204.8	193.9	186.6	175.6	171.4	165.3	159.8	155.6	151.3	148.9	147.7
47.5°	185.9	174.4	164.7	152.6	145.8	140.4	133.1	128.9	123.4	120.3	118.5
50°	170.1	157.4	146.4	132.5	125.8	119.8	111.2	104.5	99.7	94.8	93.6
52.5°	156.1	142.9	130.6	114.9	106.9	99.7	90.5	83.3	79.0	73.6	72.9
55°	139.7	128.2	114.9	98.4	90.5	83.3	73.6	66.3	60.7	57.2	55.9
57.5°	122.2	111.2	98.4	82.0	74.1	66.3	57.2	50.5	45.6	42.5	41.9
60°	105.8	95.4	83.3	66.9	58.9	52.3	42.5	35.8	31.7	29.2	27.9
62.5°	93.6	83.8	72.3	57.2	49.8	43.2	34.1	27.9	24.3	21.8	20.7
65°	82.0	72.3	62.0	48.0	41.9	35.8	27.4	21.8	18.2	15.8	14.5
67.5°	69.9	61.4	51.6	40.1	34.1	29.2	21.8	17.0	14.0	12.1	11.0
70°	57.7	49.8	41.9	32.2	27.9	23.1	17.0	13.4	10.3	9.1	7.9
72.5°	45.6	39.5	32.8	24.9	21.3	18.2	13.4	9.7	7.9	6.7	5.4
75°	34.1	29.8	24.3	18.8	15.8	13.4	9.7	7.3	6.1	4.8	4.3
77.5°	24.3	20.7	17.0	12.8	11.6	9.7	6.7	5.4	4.3	3.0	2.4
80°	16.4	14.5	11.6	9.1	7.3	6.7	4.8	3.7	2.4	1.9	1.9
82.5°	11.0	9.1	7.3	5.4	4.8	4.3	3.0	2.4	1.9	1.2	1.2
85°	6.7	5.4	4.3	3.0	3.0	2.4	1.9	1.2	0.6	0.6	0.6
87.5°	3.0	2.4	1.9	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: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6
2.5°	477.7	474.0	471.6	474.6	475.8	474.0	475.8	478.9	481.9	482.5	474.0
5°	478.2	474.6	473.4	477.1	477.7	477.1	478.9	483.1	486.8	488.0	479.5
7.5°	478.2	475.8	475.2	479.5	480.1	479.5	482.5	487.4	491.0	493.5	484.9
10°	477.1	475.8	476.5	480.1	481.3	481.3	485.6	491.0	494.6	497.1	488.6
12.5°	475.2	475.2	475.2	479.5	480.7	481.3	484.9	492.2	494.6	498.3	489.8
15°	472.2	472.2	472.2	476.5	478.2	478.2	482.5	489.2	492.2	495.9	487.4
17.5°	466.7	466.7	467.4	470.9	472.8	472.8	477.1	484.4	486.2	490.5	481.9
20°	458.8	458.8	459.4	463.1	464.9	463.7	469.1	475.2	477.1	480.7	472.2
22.5°	447.3	447.3	447.3	451.0	452.1	451.5	457.0	462.5	462.5	467.4	458.3
25°	430.3	431.5	430.3	433.9	435.1	434.5	439.4	444.3	443.0	448.5	439.4
27.5°	409.6	409.0	409.0	412.1	412.1	411.4	415.0	420.5	419.3	423.0	414.5
30°	381.0	382.8	379.8	384.1	382.3	381.0	383.4	388.4	386.5	389.5	382.8
32.5°	348.2	345.8	345.8	345.8	347.0	343.9	346.4	348.8	347.0	350.0	342.8
35°	305.1	305.7	303.8	304.4	305.1	301.4	303.8	306.3	303.8	305.7	299.0
37.5°	261.9	262.5	258.2	260.7	258.2	257.1	259.5	260.7	258.2	260.1	252.8
40°	218.7	217.6	217.0	217.0	217.6	214.6	216.3	218.2	216.3	217.6	210.9
42.5°	181.1	180.5	179.3	179.9	178.1	177.5	178.1	179.9	178.1	179.3	174.4
45°	148.3	147.0	145.3	145.8	145.8	142.9	144.6	145.8	144.0	144.6	140.4
47.5°	117.9	116.1	116.1	115.5	115.5	114.2	116.1	115.5	113.6	114.9	110.6
50°	91.8	90.5	90.5	90.5	90.5	88.7	89.4	90.5	88.7	88.7	86.3
52.5°	71.7	69.9	68.7	68.7	68.7	68.0	68.0	68.7	66.9	66.9	66.3
55°	54.0	53.5	51.6	51.6	51.6	49.8	50.5	50.5	49.8	49.8	48.0
57.5°	40.1	38.3	37.1	37.1	35.8	35.8	35.2	35.8	34.6	34.6	33.4
60°	26.8	25.5	24.9	24.3	24.3	23.7	24.3	23.7	23.7	23.1	22.5
62.5°	19.4	18.2	17.0	17.0	17.0	16.4	16.4	16.4	16.4	16.4	15.8
65°	14.0	12.8	12.8	12.1	12.1	11.6	11.6	11.6	11.6	11.6	11.0
67.5°	9.7	9.1	8.5	8.5	8.5	8.5	8.5	8.5	7.9	7.9	7.9
70°	7.3	6.7	6.1	6.1	6.1	6.1	6.1	5.4	6.1	6.1	5.4
72.5°	4.8	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	3.7	3.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.4	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	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: P856869

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6
2.5°	483.1	482.5	481.3	483.1	478.2	476.5	475.8	481.3
5°	489.8	488.6	488.6	490.5	484.9	483.8	482.5	488.6
7.5°	495.9	494.6	494.6	496.5	491.6	490.5	489.2	495.3
10°	499.6	499.6	499.6	500.7	496.5	495.3	494.6	500.7
12.5°	501.3	501.3	500.7	503.2	497.7	497.7	496.5	502.6
15°	498.9	498.9	498.9	500.7	495.9	494.6	494.6	499.6
17.5°	492.9	492.9	492.2	494.1	488.6	488.6	488.0	493.5
20°	483.8	483.8	482.5	484.9	479.5	477.7	477.1	482.5
22.5°	469.1	468.5	468.0	469.1	464.3	463.1	462.5	467.4
25°	450.3	449.7	448.5	449.7	444.3	442.4	442.4	446.0
27.5°	423.6	423.6	421.8	423.6	417.5	416.9	416.3	420.5
30°	390.8	388.4	387.1	389.5	383.4	383.4	382.3	386.5
32.5°	350.0	347.6	347.0	348.2	342.8	340.9	343.3	345.8
35°	303.3	303.8	301.4	301.4	296.6	297.1	297.8	301.4
37.5°	258.2	257.1	256.5	257.1	253.4	252.2	251.0	254.7
40°	216.3	213.3	212.7	212.7	209.6	209.0	209.6	211.5
42.5°	176.8	176.2	173.8	175.0	172.0	173.2	172.6	172.6
45°	142.9	143.4	141.0	142.9	140.4	138.6	138.6	139.7
47.5°	113.1	113.1	112.4	112.4	110.6	111.2	110.0	111.8
50°	87.5	87.5	86.3	86.9	85.7	85.7	85.1	85.7
52.5°	66.9	66.3	66.3	65.6	64.4	65.0	65.6	64.4
55°	48.6	49.2	48.0	48.6	47.4	48.0	47.4	48.0
57.5°	33.4	34.1	32.8	34.1	32.8	33.4	32.8	32.8
60°	23.1	23.1	22.5	23.1	22.5	22.5	21.8	23.1
62.5°	15.8	15.8	15.8	15.8	15.8	15.2	15.8	15.8
65°	11.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0
67.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)