

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: P856817

Luminaire Tested: **LX4C10D010 EX4C109827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P856817
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 EX4C109827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

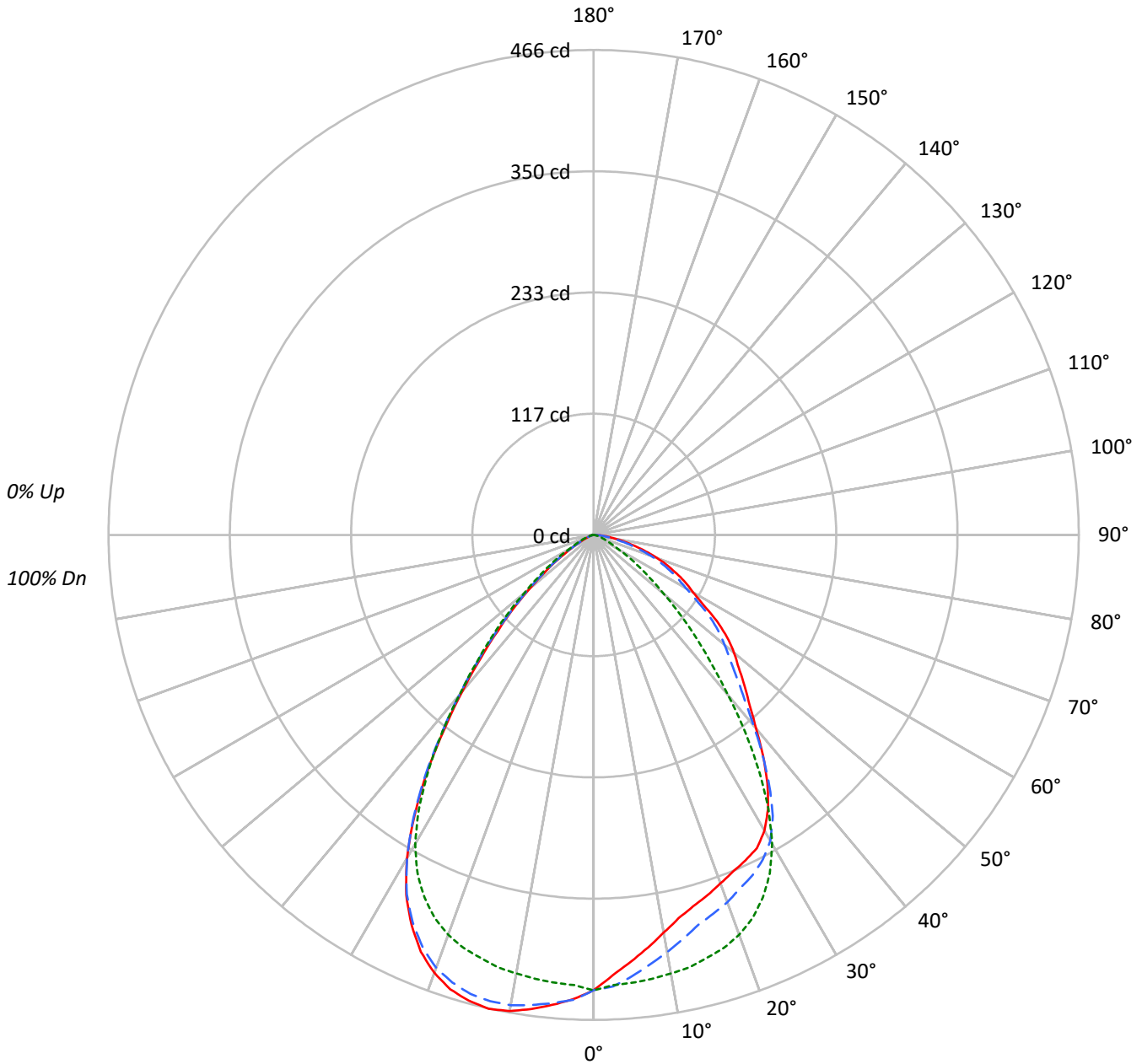
Lumens per Lamp: N/A
Luminaire Lumens: 766.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	53748	53748	53748
5°	50747	53263	55902
10°	48390	53380	57958
15°	46970	53495	58939
20°	46582	53446	58531
25°	46766	52120	56092
30°	46558	48629	50871
35°	43628	41513	41948
40°	38891	32187	31465
45°	35565	23994	22534
50°	33619	16800	15195
55°	30929	11352	9531
60°	27028	6634	5258
65°	25552	4244	2965
70°	23276	3053	1832
75°	19272	2136	1377
80°	15140	1203	849
85°	13532	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	5.4
10°-20°	118.6	15.5
20°-30°	175.8	22.9
30°-40°	176.0	23.0
40°-50°	123.0	16.0
50°-60°	73.2	9.5
60°-70°	38.2	5.0
70°-80°	17.0	2.2
80°-90°	3.7	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°	335.7	43.8
0°-40°	511.8	66.7
0°-60°	708.0	92.3
0°-90°	766.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	438	438	438	438	438	
5°	412	426	432	452	453	39
15°	369	388	421	457	463	105
25°	345	361	384	411	414	159
35°	291	294	277	282	280	180
45°	205	194	138	134	130	159
55°	144	135	53	46	44	128
65°	88	81	15	11	10	87
75°	41	36	4	3	3	44
85°	10	7	0	0	0	11
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°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	423.4	428.5	423.4	425.1	431.9	425.6	429.0	429.0	427.3	431.3	434.1
5°	411.5	416.6	411.5	413.8	421.2	414.9	418.9	417.8	418.3	421.7	425.6
7.5°	399.8	403.7	399.1	402.0	408.8	403.7	407.1	407.1	407.6	412.7	416.1
10°	387.9	391.3	387.9	390.1	397.4	393.0	395.2	395.8	397.4	402.0	407.1
12.5°	377.2	380.0	376.6	380.0	386.2	381.7	384.5	385.1	386.7	391.8	397.4
15°	369.3	372.1	368.7	371.5	377.2	373.8	376.0	377.2	378.3	382.8	387.9
17.5°	363.1	365.3	362.5	365.9	370.4	366.5	369.9	369.9	371.5	376.0	381.7
20°	356.3	358.6	356.3	359.1	364.2	360.8	363.7	363.7	365.3	370.4	375.5
22.5°	350.1	351.3	350.1	352.4	357.4	354.6	356.3	356.9	358.6	363.1	367.6
25°	345.0	347.3	346.2	348.4	351.8	349.0	350.6	351.3	353.0	356.9	360.8
27.5°	339.4	340.6	339.4	342.3	345.0	342.8	344.5	343.9	345.0	348.4	351.8
30°	328.2	329.2	329.2	330.9	333.2	332.1	333.8	332.1	333.2	336.0	339.4
32.5°	311.8	312.4	312.9	314.6	316.3	314.6	315.8	315.8	315.8	318.0	320.2
35°	290.9	292.0	291.5	292.6	294.3	293.7	293.7	293.2	292.0	293.2	294.3
37.5°	267.3	265.6	265.6	267.3	268.3	266.1	267.3	266.1	266.1	266.6	266.6
40°	242.5	240.8	242.5	243.0	243.5	242.5	241.8	240.8	239.1	239.6	238.5
42.5°	221.6	220.4	221.0	221.0	221.6	220.4	221.0	218.7	217.0	215.9	214.3
45°	204.7	203.0	204.7	203.5	203.5	203.0	202.4	201.3	199.0	197.3	194.5
47.5°	188.9	188.9	189.4	189.4	189.4	188.3	188.3	186.0	183.8	181.6	177.6
50°	175.9	174.8	177.0	177.0	175.3	174.8	175.3	172.6	170.9	168.0	164.1
52.5°	161.8	161.8	162.4	162.4	161.8	160.7	161.2	159.0	157.3	154.4	150.5
55°	144.4	143.2	144.9	144.9	144.4	143.7	144.4	142.7	141.0	138.7	135.3
57.5°	124.6	124.0	125.1	125.7	124.6	124.6	125.1	123.5	122.9	120.7	117.3
60°	110.0	109.4	110.5	111.1	110.0	110.0	110.0	107.6	106.6	104.3	102.0
62.5°	99.8	99.3	100.3	99.8	99.3	98.6	99.3	97.0	95.9	93.6	91.3
65°	87.9	88.5	89.1	89.1	88.5	87.9	87.9	86.9	85.7	83.5	80.6
67.5°	76.7	76.7	77.2	77.8	77.2	77.2	77.2	75.5	74.4	72.8	69.4
70°	64.8	64.3	66.0	66.0	64.8	65.4	64.8	64.3	63.1	60.9	58.1
72.5°	52.4	52.4	53.0	53.0	52.4	52.4	52.4	51.9	50.2	49.0	46.2
75°	40.6	40.6	41.1	41.7	40.6	40.6	41.1	40.0	38.9	37.2	35.5
77.5°	30.5	29.9	30.5	30.5	29.9	29.9	29.9	29.3	28.7	27.0	25.4
80°	21.4	20.9	21.4	21.4	21.4	20.9	20.9	20.3	20.3	19.2	17.5
82.5°	14.6	14.1	14.6	14.6	14.6	14.1	14.1	14.1	13.6	12.9	11.9
85°	9.6	9.0	9.0	9.6	9.0	9.0	9.0	9.0	8.5	7.8	7.3
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.9	3.9	3.9	3.4
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°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	431.9	430.7	434.1	433.0	433.6	430.7	435.3	433.0	435.8	433.0	438.6
5°	424.6	423.4	428.5	427.9	428.5	426.3	431.3	430.7	434.1	431.9	438.0
7.5°	416.6	415.6	421.2	421.7	422.9	420.6	427.3	427.3	430.7	430.2	437.0
10°	407.6	408.2	413.8	414.9	417.2	416.1	422.2	423.9	428.5	427.9	436.4
12.5°	399.1	399.1	406.5	408.8	410.5	409.8	417.2	419.5	424.6	425.6	433.6
15°	390.8	391.3	398.1	401.4	403.7	403.2	411.0	413.8	420.0	420.6	430.2
17.5°	383.9	383.4	390.8	393.5	396.9	396.4	404.8	408.2	414.4	416.1	425.1
20°	378.3	377.7	384.5	387.9	390.1	389.6	398.1	402.0	407.6	408.8	417.8
22.5°	371.5	370.4	377.2	380.0	382.3	381.7	389.0	391.8	397.4	398.6	407.1
25°	363.7	362.5	368.7	370.4	372.1	371.0	377.2	378.9	383.4	384.5	393.0
27.5°	354.6	351.8	356.9	356.9	358.0	356.3	360.8	362.5	366.5	366.5	374.4
30°	340.6	336.6	339.4	338.9	339.4	337.2	339.9	340.6	343.3	342.8	348.4
32.5°	320.8	315.1	316.8	315.1	313.4	310.1	313.4	312.4	314.6	312.4	317.4
35°	293.7	288.1	287.5	285.3	283.6	280.8	280.8	278.0	278.5	276.8	280.2
37.5°	264.4	257.1	255.9	251.5	248.6	245.2	245.2	243.0	240.1	239.1	241.8
40°	235.7	227.8	225.0	217.6	214.8	211.4	209.2	206.3	205.2	200.7	203.0
42.5°	210.9	202.4	196.2	188.3	185.5	180.4	177.0	173.6	171.9	166.8	169.2
45°	190.0	179.9	173.1	162.9	159.0	153.4	148.3	144.4	140.4	138.1	137.0
47.5°	172.6	161.8	152.8	141.5	135.3	130.3	123.5	119.5	114.5	111.6	110.0
50°	157.8	146.0	135.9	122.9	116.7	111.1	103.2	97.0	92.5	87.9	86.9
52.5°	144.9	132.5	121.2	106.6	99.3	92.5	84.0	77.2	73.3	68.2	67.7
55°	129.7	119.0	106.6	91.3	84.0	77.2	68.2	61.4	56.4	53.0	51.9
57.5°	113.3	103.2	91.3	76.2	68.8	61.4	53.0	46.8	42.3	39.5	38.9
60°	98.1	88.5	77.2	62.0	54.7	48.5	39.5	33.3	29.3	27.0	25.9
62.5°	86.9	77.8	67.1	53.0	46.2	40.0	31.6	25.9	22.6	20.3	19.2
65°	76.2	67.1	57.5	44.5	38.9	33.3	25.4	20.3	16.9	14.6	13.6
67.5°	64.8	57.0	47.9	37.2	31.6	27.0	20.3	15.8	12.9	11.2	10.2
70°	53.6	46.2	38.9	29.9	25.9	21.4	15.8	12.4	9.6	8.5	7.3
72.5°	42.3	36.7	30.5	23.1	19.7	16.9	12.4	9.0	7.3	6.2	5.1
75°	31.6	27.6	22.6	17.5	14.6	12.4	9.0	6.8	5.6	4.5	3.9
77.5°	22.6	19.2	15.8	11.9	10.7	9.0	6.2	5.1	3.9	2.9	2.2
80°	15.2	13.6	10.7	8.5	6.8	6.2	4.5	3.4	2.2	1.7	1.7
82.5°	10.2	8.5	6.8	5.1	4.5	3.9	2.9	2.2	1.7	1.2	1.2
85°	6.2	5.1	3.9	2.9	2.9	2.2	1.7	1.2	0.5	0.5	0.5
87.5°	2.9	2.2	1.7	1.2	1.2	0.5	0.5	0.5	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°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	443.1	439.7	437.5	440.3	441.4	439.7	441.4	444.3	447.1	447.7	439.7
5°	443.7	440.3	439.2	442.6	443.1	442.6	444.3	448.2	451.6	452.7	444.8
7.5°	443.7	441.4	440.9	444.8	445.4	444.8	447.7	452.1	455.5	457.8	449.9
10°	442.6	441.4	442.0	445.4	446.5	446.5	450.5	455.5	458.9	461.2	453.3
12.5°	440.9	440.9	440.9	444.8	446.0	446.5	449.9	456.7	458.9	462.3	454.4
15°	438.0	438.0	438.0	442.0	443.7	443.7	447.7	453.9	456.7	460.0	452.1
17.5°	433.0	433.0	433.6	437.0	438.6	438.6	442.6	449.3	451.0	455.0	447.1
20°	425.6	425.6	426.3	429.6	431.3	430.2	435.3	440.9	442.6	446.0	438.0
22.5°	414.9	414.9	414.9	418.3	419.5	418.9	423.9	429.0	429.0	433.6	425.1
25°	399.1	400.3	399.1	402.5	403.7	403.2	407.6	412.2	411.0	416.1	407.6
27.5°	380.0	379.4	379.4	382.3	382.3	381.7	385.1	390.1	389.0	392.4	384.5
30°	353.5	355.2	352.4	356.3	354.6	353.5	355.7	360.3	358.6	361.4	355.2
32.5°	323.1	320.8	320.8	320.8	321.9	319.2	321.4	323.6	321.9	324.8	318.0
35°	283.0	283.6	281.9	282.5	283.0	279.7	281.9	284.1	281.9	283.6	277.4
37.5°	243.0	243.5	239.6	241.8	239.6	238.5	240.8	241.8	239.6	241.3	234.5
40°	203.0	201.8	201.3	201.3	201.8	199.0	200.7	202.4	200.7	201.8	195.6
42.5°	168.0	167.5	166.3	166.8	165.2	164.6	165.2	166.8	165.2	166.3	161.8
45°	137.6	136.4	134.7	135.3	135.3	132.5	134.2	135.3	133.6	134.2	130.3
47.5°	109.4	107.6	107.6	107.1	107.1	106.0	107.6	107.1	105.4	106.6	102.6
50°	85.2	84.0	84.0	84.0	84.0	82.3	82.8	84.0	82.3	82.3	80.1
52.5°	66.5	64.8	63.8	63.8	63.8	63.1	63.1	63.8	62.0	62.0	61.4
55°	50.2	49.6	47.9	47.9	47.9	46.2	46.8	46.8	46.2	46.2	44.5
57.5°	37.2	35.5	34.4	34.4	33.3	33.3	32.7	33.3	32.1	32.1	31.0
60°	24.8	23.6	23.1	22.6	22.6	22.0	22.6	22.0	22.0	21.4	20.9
62.5°	18.0	16.9	15.8	15.8	15.8	15.2	15.2	15.2	15.2	15.2	14.6
65°	12.9	11.9	11.9	11.2	11.2	10.7	10.7	10.7	10.7	10.7	10.2
67.5°	9.0	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.3	7.3	7.3
70°	6.8	6.2	5.6	5.6	5.6	5.6	5.6	5.1	5.6	5.6	5.1
72.5°	4.5	4.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	3.4	3.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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: P856817

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	448.2	447.7	446.5	448.2	443.7	442.0	441.4	446.5
5°	454.4	453.3	453.3	455.0	449.9	448.8	447.7	453.3
7.5°	460.0	458.9	458.9	460.6	456.1	455.0	453.9	459.5
10°	463.4	463.4	463.4	464.6	460.6	459.5	458.9	464.6
12.5°	465.1	465.1	464.6	466.8	461.7	461.7	460.6	466.3
15°	462.9	462.9	462.9	464.6	460.0	458.9	458.9	463.4
17.5°	457.2	457.2	456.7	458.4	453.3	453.3	452.7	457.8
20°	448.8	448.8	447.7	449.9	444.8	443.1	442.6	447.7
22.5°	435.3	434.6	434.1	435.3	430.7	429.6	429.0	433.6
25°	417.8	417.2	416.1	417.2	412.2	410.5	410.5	413.8
27.5°	393.0	393.0	391.3	393.0	387.3	386.7	386.2	390.1
30°	362.5	360.3	359.1	361.4	355.7	355.7	354.6	358.6
32.5°	324.8	322.5	321.9	323.1	318.0	316.3	318.5	320.8
35°	281.3	281.9	279.7	279.7	275.1	275.7	276.3	279.7
37.5°	239.6	238.5	237.9	238.5	235.1	234.0	232.8	236.2
40°	200.7	197.9	197.3	197.3	194.5	194.0	194.5	196.2
42.5°	164.1	163.5	161.2	162.4	159.5	160.7	160.2	160.2
45°	132.5	133.0	130.8	132.5	130.3	128.5	128.5	129.7
47.5°	104.9	104.9	104.3	104.3	102.6	103.2	102.0	103.7
50°	81.1	81.1	80.1	80.6	79.5	79.5	78.9	79.5
52.5°	62.0	61.4	61.4	60.9	59.7	60.4	60.9	59.7
55°	45.1	45.7	44.5	45.1	44.0	44.5	44.0	44.5
57.5°	31.0	31.6	30.5	31.6	30.5	31.0	30.5	30.5
60°	21.4	21.4	20.9	21.4	20.9	20.9	20.3	21.4
62.5°	14.6	14.6	14.6	14.6	14.6	14.1	14.6	14.6
65°	10.7	10.2	10.2	10.2	10.2	10.2	10.2	10.2
67.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.0	0.5	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)