

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: P683942

Luminaire Tested: **LX6C10D010 EX6C109730 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: P683942
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: LX6C10D010 EX6C109730 6LCSWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

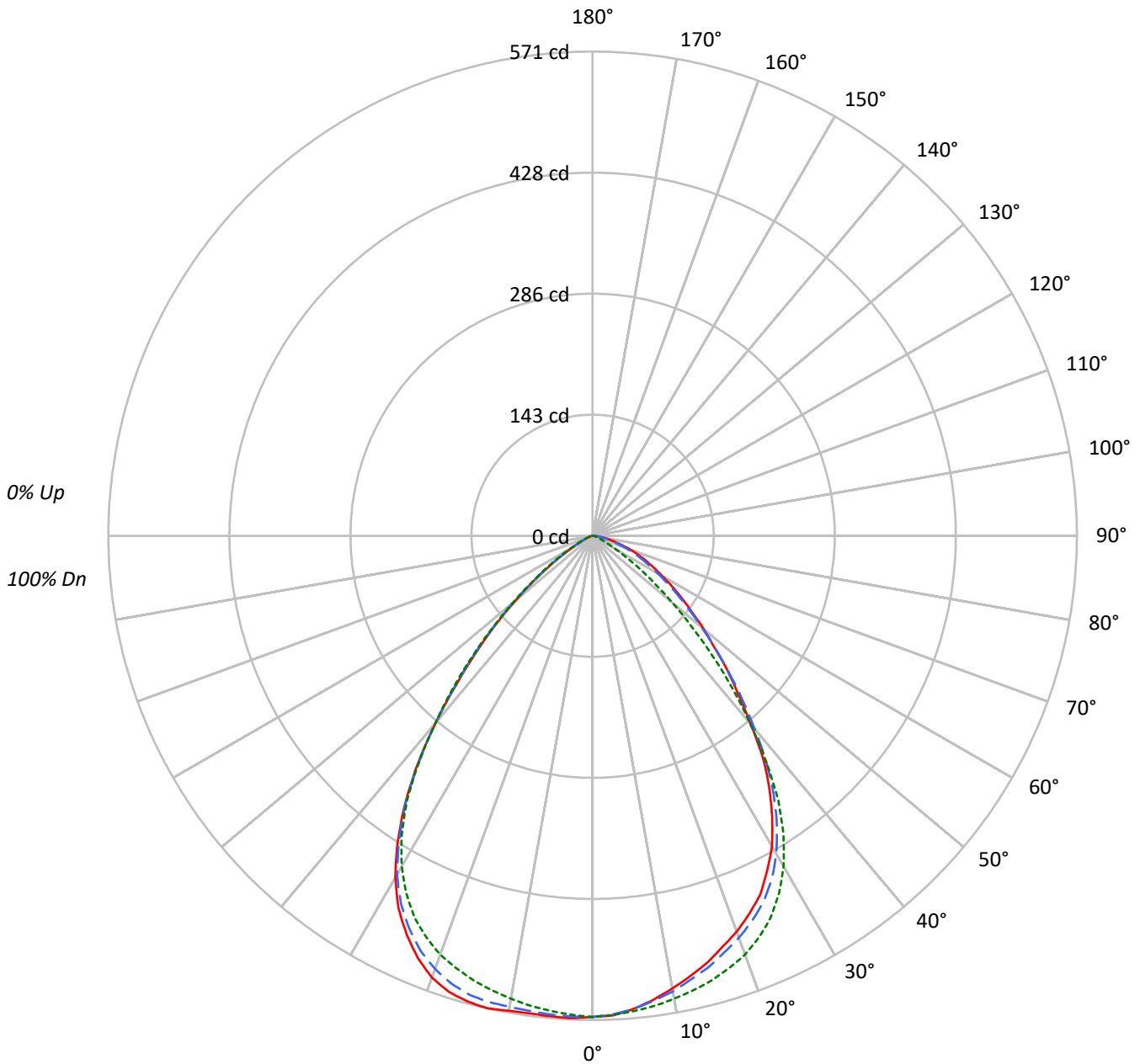
Lumens per Lamp: N/A
Luminaire Lumens: 952.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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
1	112	108	105	102	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°	31110	31110	31110
5°	30811	30960	31301
10°	30176	30861	31663
15°	29597	30806	32282
20°	28983	30663	32343
25°	28272	30050	31381
30°	26770	28504	29454
35°	24306	25545	25779
40°	20746	20646	20546
45°	17428	15459	14986
50°	14558	10464	9936
55°	12253	6423	5830
60°	10372	3377	2927
65°	8976	1777	1427
70°	7469	1106	769
75°	5528	720	445
80°	4325	442	221
85°	3459	440	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	5.6
10°-20°	153.1	16.1
20°-30°	226.1	23.8
30°-40°	233.0	24.5
40°-50°	161.0	16.9
50°-60°	79.3	8.3
60°-70°	32.2	3.4
70°-80°	11.5	1.2
80°-90°	2.4	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°	432.7	45.5
0°-40°	665.7	69.9
0°-60°	906.0	95.2
0°-90°	952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	568	568	568	568	568	
5°	560	560	563	567	569	53
15°	522	527	543	561	569	147
25°	467	476	497	511	519	214
35°	363	372	382	384	385	225
45°	225	226	199	197	193	174
55°	128	123	67	63	61	116
65°	69	62	14	11	11	69
75°	26	22	3	2	2	29
85°	6	4	1	0	0	7
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°	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5
2.5°	566.1	564.0	565.4	562.6	566.1	562.6	563.3	564.0	563.3	564.0	564.7
5°	559.9	557.8	559.9	556.5	559.9	557.8	557.8	558.5	558.5	559.2	559.9
7.5°	551.7	549.6	551.7	548.3	552.4	550.3	550.3	551.7	551.0	551.7	553.1
10°	542.1	539.3	541.4	539.3	543.5	540.7	542.1	542.1	542.1	544.1	545.5
12.5°	531.8	529.1	531.8	528.4	532.5	530.5	531.1	533.2	533.9	535.2	535.9
15°	521.5	518.1	519.5	517.4	521.5	519.5	520.2	522.9	522.9	525.0	527.0
17.5°	508.5	505.8	508.5	505.8	509.2	507.8	509.2	511.3	511.3	513.3	515.4
20°	496.8	494.1	496.2	494.1	498.2	496.2	496.8	499.6	500.3	502.3	504.4
22.5°	482.5	480.4	481.8	479.7	483.8	482.5	483.2	485.9	486.6	488.0	491.4
25°	467.4	463.3	465.3	464.0	468.1	466.0	467.4	470.1	471.5	473.5	476.3
27.5°	445.5	443.4	444.8	444.8	448.2	446.2	446.8	449.6	451.6	453.7	457.1
30°	422.9	419.4	420.8	421.5	424.2	422.9	424.2	427.0	427.7	430.4	433.1
32.5°	394.1	392.7	395.4	394.1	395.4	395.4	396.1	398.2	399.5	400.9	404.4
35°	363.2	360.5	363.2	361.9	365.3	363.2	365.3	367.3	367.3	370.1	372.1
37.5°	329.6	326.2	327.6	327.6	328.9	328.3	328.3	331.7	332.4	334.4	336.5
40°	289.9	288.5	291.3	290.6	291.3	291.3	291.9	294.0	295.4	296.1	296.8
42.5°	254.3	254.9	255.6	255.6	255.6	255.6	255.6	258.4	257.7	259.8	260.4
45°	224.8	222.0	223.4	222.7	224.8	222.7	224.8	226.8	225.5	227.5	226.1
47.5°	194.6	194.6	194.6	194.0	195.3	194.6	196.0	196.7	196.7	196.7	196.0
50°	170.7	168.6	169.3	169.3	170.0	169.3	170.7	171.3	171.3	170.0	167.2
52.5°	147.3	146.7	146.7	148.0	148.0	147.3	147.3	147.3	147.3	145.3	143.9
55°	128.2	126.8	127.5	127.5	127.5	127.5	128.2	127.5	127.5	125.4	123.4
57.5°	111.0	109.7	109.7	109.7	110.3	109.7	109.7	109.7	109.0	106.9	104.2
60°	94.6	93.9	94.6	94.6	95.3	94.6	94.6	94.6	93.2	91.2	88.4
62.5°	80.9	80.9	80.9	81.5	81.5	80.9	80.9	80.2	79.5	76.7	74.0
65°	69.2	68.5	69.2	69.2	69.9	69.9	69.2	68.5	67.9	65.1	62.4
67.5°	57.6	56.9	57.6	57.6	58.2	57.6	57.6	57.6	55.5	54.1	51.4
70°	46.6	45.9	45.9	45.9	46.6	45.2	45.9	45.9	44.6	42.5	39.7
72.5°	35.6	35.6	35.6	35.6	35.6	35.6	34.9	34.9	33.6	31.5	30.2
75°	26.1	26.1	26.7	26.7	26.1	26.1	26.1	25.4	24.7	23.3	21.9
77.5°	19.2	19.2	19.2	19.2	18.5	18.5	18.5	17.8	17.1	16.4	15.1
80°	13.7	13.7	13.7	13.0	13.7	13.0	13.0	13.0	11.6	11.0	10.3
82.5°	9.6	8.9	8.9	8.9	8.9	8.9	8.9	8.2	8.2	7.6	6.9
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.8	4.1	4.1
87.5°	2.7	3.4	3.4	3.4	3.4	3.4	3.4	2.7	2.7	2.7	2.1
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°	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5
2.5°	564.7	564.7	566.1	564.0	567.5	565.4	564.7	568.1	566.1	565.4	566.8
5°	559.9	560.6	561.3	559.9	563.3	561.3	561.3	564.7	563.3	562.6	564.7
7.5°	553.8	554.4	555.8	555.1	557.8	556.5	557.2	560.6	559.2	559.2	561.3
10°	546.2	547.6	549.0	549.0	552.4	551.0	551.0	555.1	553.8	554.4	557.2
12.5°	537.3	539.3	541.4	542.1	545.5	543.5	544.1	549.0	548.3	549.0	551.7
15°	527.7	530.5	532.5	532.5	536.6	534.6	536.6	541.4	540.0	542.8	546.2
17.5°	516.7	519.5	522.2	522.9	527.0	525.6	528.4	533.2	533.2	534.6	538.7
20°	506.5	509.9	511.3	513.3	517.4	516.7	518.1	523.6	523.6	525.6	529.8
22.5°	492.7	496.2	498.9	501.0	504.4	504.4	506.5	511.3	511.3	512.6	516.7
25°	477.7	481.8	483.8	485.9	489.3	488.6	490.7	494.8	495.5	496.8	501.0
27.5°	458.5	461.9	464.7	466.0	470.8	468.1	470.1	474.9	474.2	475.6	479.0
30°	434.5	437.9	440.7	440.7	444.8	444.8	446.8	448.9	448.9	450.3	453.0
32.5°	406.4	410.5	410.5	412.6	415.3	412.6	415.3	418.0	416.7	418.7	420.8
35°	374.2	376.2	376.9	376.9	379.0	378.3	377.6	379.7	378.3	381.7	383.8
37.5°	335.1	337.9	336.5	337.9	337.2	335.1	335.1	338.6	335.8	336.5	338.6
40°	297.4	297.4	296.8	293.3	294.0	291.9	291.3	291.9	289.2	288.5	291.3
42.5°	258.4	257.7	255.6	250.8	251.5	248.1	245.3	245.3	244.0	243.3	244.0
45°	223.4	221.4	217.9	212.5	211.1	208.3	202.8	201.5	199.4	199.4	200.1
47.5°	191.2	188.5	183.0	176.8	173.4	170.0	164.5	162.4	159.0	157.6	159.0
50°	164.5	159.7	152.8	143.9	140.5	136.4	130.9	127.5	124.0	122.7	122.0
52.5°	139.8	133.0	126.1	115.1	112.4	108.3	100.7	97.3	93.9	91.2	91.2
55°	118.5	112.4	102.8	92.5	88.4	84.3	76.7	72.0	68.5	67.2	65.8
57.5°	99.4	92.5	83.6	72.6	68.5	64.4	56.9	52.1	48.7	46.6	45.2
60°	83.6	76.1	67.2	57.6	52.8	48.7	41.1	36.3	32.9	30.8	29.5
62.5°	68.5	62.4	53.4	44.6	40.4	36.3	30.2	25.4	21.9	20.6	18.5
65°	57.6	51.4	43.2	35.6	32.2	28.1	22.6	18.5	15.8	13.7	12.3
67.5°	46.6	41.8	34.9	28.1	24.7	21.9	17.1	13.7	11.0	9.6	8.9
70°	37.0	32.2	26.7	21.2	19.2	16.4	13.0	9.6	8.2	6.9	6.2
72.5°	27.4	24.0	19.9	15.8	13.7	12.3	8.9	7.6	5.5	4.8	4.1
75°	19.9	17.1	14.4	11.0	9.6	8.9	6.9	4.8	4.1	3.4	2.7
77.5°	13.7	12.3	9.6	7.6	6.9	6.2	4.8	3.4	2.7	2.1	2.1
80°	8.9	7.6	6.2	4.8	4.8	4.1	2.7	2.1	2.1	1.4	1.4
82.5°	5.5	4.8	4.1	3.4	2.7	2.7	2.1	1.4	1.4	0.7	0.7
85°	3.4	2.7	2.1	2.1	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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°	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5
2.5°	566.8	566.8	568.1	566.1	567.5	567.5	568.8	566.1	567.5	568.1	569.5
5°	564.0	564.7	566.1	565.4	566.1	566.1	567.5	564.0	566.8	566.8	568.8
7.5°	561.3	561.3	562.6	562.0	563.3	564.0	565.4	562.6	565.4	565.4	567.5
10°	557.8	557.8	559.9	559.2	561.3	562.0	564.0	561.3	564.0	564.7	566.8
12.5°	553.1	553.8	555.8	555.8	557.8	559.2	561.3	559.9	563.3	564.0	566.8
15°	547.6	549.0	551.7	551.0	553.1	555.1	557.8	555.8	560.6	562.0	564.7
17.5°	540.7	542.1	544.1	544.1	546.2	547.6	551.0	549.6	553.8	554.4	557.8
20°	530.5	532.5	535.2	534.6	536.6	538.0	540.7	539.3	543.5	544.8	548.3
22.5°	518.1	519.5	521.5	521.5	523.6	525.0	527.7	525.6	529.8	530.5	533.2
25°	501.7	503.0	504.4	505.1	507.1	507.8	509.2	507.8	511.3	511.9	515.4
27.5°	480.4	481.1	483.2	483.2	484.5	485.2	487.3	484.5	489.3	489.3	491.4
30°	455.0	454.4	457.1	455.7	457.1	457.1	459.2	457.8	461.2	459.9	461.9
32.5°	421.5	422.9	422.9	421.5	424.2	423.5	423.5	422.2	424.2	424.9	426.3
35°	382.4	384.5	384.5	385.2	385.8	383.8	384.5	380.4	383.8	384.5	385.2
37.5°	339.9	337.9	339.2	337.2	340.6	336.5	336.5	333.8	336.5	336.5	337.2
40°	291.3	290.6	291.9	290.6	289.9	289.2	287.8	285.8	288.5	287.1	289.2
42.5°	245.3	244.6	244.6	243.3	242.6	242.6	241.2	239.9	239.2	239.2	242.6
45°	198.1	199.4	198.1	197.4	198.7	197.4	198.1	195.3	196.7	195.3	196.7
47.5°	158.3	159.0	157.6	156.3	158.3	156.3	156.3	154.2	156.9	156.9	155.6
50°	122.7	122.0	120.6	122.0	121.3	121.3	121.3	119.2	120.6	118.5	119.9
52.5°	90.5	89.8	89.8	89.1	89.8	89.1	89.1	88.4	88.4	87.7	88.4
55°	65.8	65.1	63.7	63.7	63.7	64.4	63.7	63.1	63.1	62.4	63.1
57.5°	44.6	43.2	43.2	43.2	43.2	42.5	42.5	41.8	42.5	41.8	42.5
60°	28.8	28.8	27.4	27.4	27.4	27.4	27.4	26.7	27.4	27.4	27.4
62.5°	17.8	17.8	17.1	16.4	17.1	16.4	16.4	16.4	17.1	16.4	17.1
65°	11.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
67.5°	8.2	7.6	7.6	7.6	7.6	7.6	7.6	6.9	7.6	7.6	7.6
70°	5.5	5.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	2.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	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	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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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CATALOG NUMBER: LX6C10D010 EX6C109730 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	567.5	567.5	567.5	567.5	567.5	567.5	567.5	567.5
2.5°	567.5	568.1	566.8	567.5	566.1	567.5	568.1	569.5
5°	566.1	566.8	565.4	566.8	565.4	566.8	567.5	568.8
7.5°	564.7	566.1	564.7	566.1	564.7	566.1	566.8	568.1
10°	564.7	566.8	565.4	567.5	565.4	566.8	568.1	568.8
12.5°	564.7	566.8	566.1	567.5	566.8	568.1	569.5	570.9
15°	563.3	565.4	564.0	566.1	565.4	566.1	568.8	568.8
17.5°	555.8	557.8	557.8	559.2	559.2	561.3	562.6	564.0
20°	546.2	548.3	547.6	549.6	549.6	551.7	553.1	554.4
22.5°	531.8	534.6	533.9	535.9	535.2	536.6	539.3	538.7
25°	513.3	516.7	516.0	517.4	516.7	516.7	518.1	518.8
27.5°	490.7	492.7	492.1	493.4	492.1	493.4	494.8	495.5
30°	461.2	462.6	461.9	462.6	461.9	463.3	464.0	465.3
32.5°	425.6	427.7	425.6	427.0	426.3	426.3	429.0	427.7
35°	383.1	383.8	384.5	384.5	383.1	383.8	385.2	385.2
37.5°	335.8	339.2	335.1	337.2	336.5	336.5	336.5	338.6
40°	286.5	287.1	285.8	285.8	285.8	285.1	287.8	287.1
42.5°	239.9	240.6	239.9	237.8	238.5	238.5	240.6	237.8
45°	194.6	196.0	195.3	195.3	194.0	194.0	194.6	193.3
47.5°	154.2	155.6	153.5	154.2	152.8	154.2	153.5	154.9
50°	117.2	118.5	117.9	118.5	118.5	117.2	119.2	116.5
52.5°	87.7	88.4	87.7	87.0	86.4	86.4	87.7	87.0
55°	62.4	61.7	61.7	61.7	62.4	62.4	61.7	61.0
57.5°	41.8	41.8	41.1	41.1	41.8	40.4	41.1	40.4
60°	26.7	26.7	26.7	26.7	26.1	26.7	26.7	26.7
62.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
65°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
67.5°	6.9	7.6	7.6	7.6	6.9	6.9	6.9	6.9
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)