

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: P684612

Luminaire Tested: **LX6C08D010 EX6C089030 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: P684612
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 EX6C089030 6LCSWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

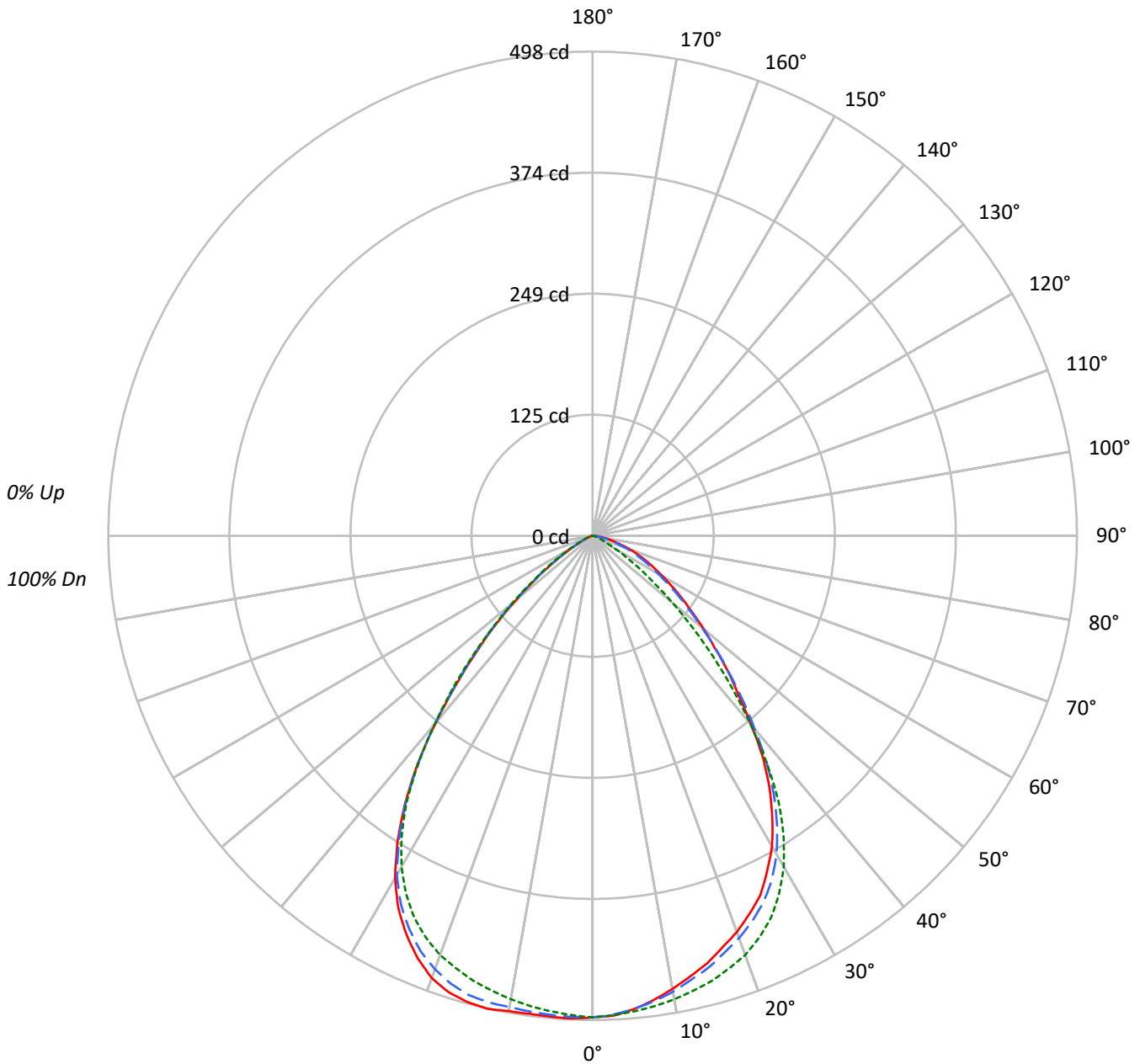
Lumens per Lamp: N/A
Luminaire Lumens: 831.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27152	27152	27152
5°	26893	27025	27322
10°	26341	26942	27638
15°	25834	26890	28178
20°	25301	26766	28236
25°	24679	26233	27389
30°	23364	24877	25713
35°	21221	22299	22500
40°	18113	18019	17934
45°	15211	13498	13079
50°	12707	9134	8673
55°	10695	5601	5085
60°	9056	2949	2555
65°	7835	1557	1245
70°	6524	962	673
75°	4808	635	381
80°	3788	379	189
85°	3019	377	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	5.6
10°-20°	133.7	16.1
20°-30°	197.4	23.8
30°-40°	203.4	24.5
40°-50°	140.5	16.9
50°-60°	69.3	8.3
60°-70°	28.1	3.4
70°-80°	10.0	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°	377.7	45.5
0°-40°	581.1	69.9
0°-60°	790.9	95.2
0°-90°	831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	495	495	495	495	495	
5°	489	489	491	495	496	46
15°	455	460	474	489	496	128
25°	408	416	434	446	453	187
35°	317	325	333	335	336	196
45°	196	197	174	172	169	152
55°	112	108	59	55	53	101
65°	60	54	12	10	10	60
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°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	494.1	492.3	493.5	491.1	494.1	491.1	491.7	492.3	491.7	492.3	492.9
5°	488.7	486.9	488.7	485.8	488.7	486.9	486.9	487.6	487.6	488.1	488.7
7.5°	481.6	479.8	481.6	478.6	482.2	480.4	480.4	481.6	481.0	481.6	482.8
10°	473.2	470.8	472.6	470.8	474.4	472.0	473.2	473.2	473.2	475.0	476.2
12.5°	464.2	461.8	464.2	461.2	464.8	463.0	463.6	465.4	466.0	467.2	467.8
15°	455.2	452.3	453.4	451.6	455.2	453.4	454.1	456.4	456.4	458.2	460.0
17.5°	443.9	441.5	443.9	441.5	444.5	443.3	444.5	446.3	446.3	448.1	449.8
20°	433.7	431.3	433.1	431.3	434.9	433.1	433.7	436.1	436.7	438.5	440.3
22.5°	421.1	419.3	420.5	418.8	422.3	421.1	421.8	424.1	424.7	425.9	428.9
25°	408.0	404.4	406.2	405.0	408.6	406.8	408.0	410.4	411.6	413.4	415.8
27.5°	388.8	387.0	388.2	388.2	391.2	389.4	390.0	392.4	394.2	396.0	399.0
30°	369.1	366.1	367.3	367.9	370.3	369.1	370.3	372.7	373.3	375.7	378.1
32.5°	344.0	342.8	345.2	344.0	345.2	345.2	345.8	347.6	348.8	350.0	353.0
35°	317.1	314.7	317.1	315.9	318.9	317.1	318.9	320.7	320.7	323.0	324.8
37.5°	287.7	284.8	285.9	285.9	287.1	286.6	286.6	289.5	290.1	291.9	293.7
40°	253.1	251.8	254.2	253.6	254.2	254.2	254.8	256.6	257.8	258.4	259.0
42.5°	221.9	222.5	223.1	223.1	223.1	223.1	223.1	225.5	224.9	226.7	227.3
45°	196.2	193.8	195.0	194.4	196.2	194.4	196.2	198.0	196.8	198.6	197.4
47.5°	169.9	169.9	169.9	169.3	170.5	169.9	171.1	171.7	171.7	171.7	171.1
50°	149.0	147.2	147.8	147.8	148.4	147.8	149.0	149.6	149.6	148.4	146.0
52.5°	128.6	128.0	128.0	129.2	129.2	128.6	128.6	128.6	128.6	126.8	125.6
55°	111.9	110.7	111.3	111.3	111.3	111.3	111.9	111.3	111.3	109.5	107.7
57.5°	96.9	95.7	95.7	95.7	96.3	95.7	95.7	95.7	95.1	93.3	90.9
60°	82.6	82.0	82.6	82.6	83.1	82.6	82.6	82.6	81.4	79.6	77.2
62.5°	70.6	70.6	70.6	71.2	71.2	70.6	70.6	70.0	69.4	67.0	64.6
65°	60.4	59.8	60.4	60.4	61.0	61.0	60.4	59.8	59.2	56.8	54.4
67.5°	50.3	49.6	50.3	50.3	50.8	50.3	50.3	50.3	48.5	47.3	44.9
70°	40.7	40.1	40.1	40.1	40.7	39.5	40.1	40.1	38.9	37.1	34.7
72.5°	31.1	31.1	31.1	31.1	31.1	31.1	30.5	30.5	29.3	27.5	26.3
75°	22.7	22.7	23.3	23.3	22.7	22.7	22.7	22.1	21.5	20.3	19.1
77.5°	16.8	16.8	16.8	16.8	16.2	16.2	16.2	15.5	15.0	14.4	13.2
80°	12.0	12.0	12.0	11.4	12.0	11.4	11.4	11.4	10.2	9.6	9.0
82.5°	8.4	7.8	7.8	7.8	7.8	7.8	7.8	7.2	7.2	6.6	6.0
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.2	3.6	3.6
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°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	492.9	492.9	494.1	492.3	495.3	493.5	492.9	495.9	494.1	493.5	494.7
5°	488.7	489.4	489.9	488.7	491.7	489.9	489.9	492.9	491.7	491.1	492.9
7.5°	483.4	484.0	485.1	484.6	486.9	485.8	486.4	489.4	488.1	488.1	489.9
10°	476.8	478.0	479.2	479.2	482.2	481.0	481.0	484.6	483.4	484.0	486.4
12.5°	469.0	470.8	472.6	473.2	476.2	474.4	475.0	479.2	478.6	479.2	481.6
15°	460.6	463.0	464.8	464.8	468.4	466.6	468.4	472.6	471.4	473.8	476.8
17.5°	451.1	453.4	455.8	456.4	460.0	458.8	461.2	465.4	465.4	466.6	470.2
20°	442.1	445.1	446.3	448.1	451.6	451.1	452.3	457.0	457.0	458.8	462.4
22.5°	430.1	433.1	435.5	437.3	440.3	440.3	442.1	446.3	446.3	447.5	451.1
25°	417.0	420.5	422.3	424.1	427.1	426.5	428.3	431.9	432.5	433.7	437.3
27.5°	400.2	403.2	405.6	406.8	411.0	408.6	410.4	414.6	414.0	415.2	418.2
30°	379.3	382.3	384.7	384.7	388.2	388.2	390.0	391.8	391.8	393.0	395.4
32.5°	354.7	358.3	358.3	360.1	362.5	360.1	362.5	364.9	363.7	365.5	367.3
35°	326.6	328.4	329.0	329.0	330.8	330.2	329.6	331.4	330.2	333.2	335.0
37.5°	292.5	294.9	293.7	294.9	294.3	292.5	292.5	295.5	293.1	293.7	295.5
40°	259.6	259.6	259.0	256.0	256.6	254.8	254.2	254.8	252.4	251.8	254.2
42.5°	225.5	224.9	223.1	219.0	219.5	216.5	214.2	214.2	213.0	212.4	213.0
45°	195.0	193.2	190.2	185.5	184.2	181.9	177.1	175.9	174.1	174.1	174.7
47.5°	166.9	164.5	159.7	154.3	151.4	148.4	143.6	141.8	138.8	137.6	138.8
50°	143.6	139.4	133.4	125.6	122.6	119.0	114.3	111.3	108.3	107.1	106.5
52.5°	122.0	116.1	110.1	100.5	98.1	94.5	87.9	84.9	82.0	79.6	79.6
55°	103.5	98.1	89.7	80.8	77.2	73.6	67.0	62.8	59.8	58.6	57.4
57.5°	86.7	80.8	73.0	63.4	59.8	56.2	49.6	45.5	42.5	40.7	39.5
60°	73.0	66.4	58.6	50.3	46.1	42.5	35.9	31.7	28.7	26.9	25.7
62.5°	59.8	54.4	46.7	38.9	35.3	31.7	26.3	22.1	19.1	18.0	16.2
65°	50.3	44.9	37.7	31.1	28.1	24.5	19.8	16.2	13.8	12.0	10.8
67.5°	40.7	36.5	30.5	24.5	21.5	19.1	15.0	12.0	9.6	8.4	7.8
70°	32.3	28.1	23.3	18.5	16.8	14.4	11.4	8.4	7.2	6.0	5.4
72.5°	23.9	20.9	17.3	13.8	12.0	10.8	7.8	6.6	4.8	4.2	3.6
75°	17.3	15.0	12.6	9.6	8.4	7.8	6.0	4.2	3.6	3.0	2.4
77.5°	12.0	10.8	8.4	6.6	6.0	5.4	4.2	3.0	2.4	1.8	1.8
80°	7.8	6.6	5.4	4.2	4.2	3.6	2.4	1.8	1.8	1.2	1.2
82.5°	4.8	4.2	3.6	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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CATALOG NUMBER: LX6C08D010 EX6C089030 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	494.7	494.7	495.9	494.1	495.3	495.3	496.5	494.1	495.3	495.9	497.1
5°	492.3	492.9	494.1	493.5	494.1	494.1	495.3	492.3	494.7	494.7	496.5
7.5°	489.9	489.9	491.1	490.5	491.7	492.3	493.5	491.1	493.5	493.5	495.3
10°	486.9	486.9	488.7	488.1	489.9	490.5	492.3	489.9	492.3	492.9	494.7
12.5°	482.8	483.4	485.1	485.1	486.9	488.1	489.9	488.7	491.7	492.3	494.7
15°	478.0	479.2	481.6	481.0	482.8	484.6	486.9	485.1	489.4	490.5	492.9
17.5°	472.0	473.2	475.0	475.0	476.8	478.0	481.0	479.8	483.4	484.0	486.9
20°	463.0	464.8	467.2	466.6	468.4	469.6	472.0	470.8	474.4	475.6	478.6
22.5°	452.3	453.4	455.2	455.2	457.0	458.2	460.6	458.8	462.4	463.0	465.4
25°	437.9	439.1	440.3	440.9	442.7	443.3	444.5	443.3	446.3	446.9	449.8
27.5°	419.3	420.0	421.8	421.8	422.9	423.5	425.3	422.9	427.1	427.1	428.9
30°	397.2	396.6	399.0	397.8	399.0	399.0	400.8	399.6	402.6	401.4	403.2
32.5°	367.9	369.1	369.1	367.9	370.3	369.7	369.7	368.5	370.3	370.9	372.1
35°	333.8	335.6	335.6	336.2	336.8	335.0	335.6	332.0	335.0	335.6	336.2
37.5°	296.7	294.9	296.1	294.3	297.3	293.7	293.7	291.3	293.7	293.7	294.3
40°	254.2	253.6	254.8	253.6	253.1	252.4	251.3	249.5	251.8	250.6	252.4
42.5°	214.2	213.6	213.6	212.4	211.8	211.8	210.6	209.4	208.8	208.8	211.8
45°	172.9	174.1	172.9	172.3	173.5	172.3	172.9	170.5	171.7	170.5	171.7
47.5°	138.2	138.8	137.6	136.4	138.2	136.4	136.4	134.6	137.0	137.0	135.8
50°	107.1	106.5	105.3	106.5	105.9	105.9	105.9	104.1	105.3	103.5	104.7
52.5°	79.0	78.4	78.4	77.8	78.4	77.8	77.8	77.2	77.2	76.6	77.2
55°	57.4	56.8	55.6	55.6	55.6	56.2	55.6	55.0	55.0	54.4	55.0
57.5°	38.9	37.7	37.7	37.7	37.7	37.1	37.1	36.5	37.1	36.5	37.1
60°	25.1	25.1	23.9	23.9	23.9	23.9	23.9	23.3	23.9	23.9	23.9
62.5°	15.5	15.5	15.0	14.4	15.0	14.4	14.4	14.4	15.0	14.4	15.0
65°	10.2	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	7.2	6.6	6.6	6.6	6.6	6.6	6.6	6.0	6.6	6.6	6.6
70°	4.8	4.8	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: P684612

CATALOG NUMBER: LX6C08D010 EX6C089030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	495.3	495.9	494.7	495.3	494.1	495.3	495.9	497.1
5°	494.1	494.7	493.5	494.7	493.5	494.7	495.3	496.5
7.5°	492.9	494.1	492.9	494.1	492.9	494.1	494.7	495.9
10°	492.9	494.7	493.5	495.3	493.5	494.7	495.9	496.5
12.5°	492.9	494.7	494.1	495.3	494.7	495.9	497.1	498.3
15°	491.7	493.5	492.3	494.1	493.5	494.1	496.5	496.5
17.5°	485.1	486.9	486.9	488.1	488.1	489.9	491.1	492.3
20°	476.8	478.6	478.0	479.8	479.8	481.6	482.8	484.0
22.5°	464.2	466.6	466.0	467.8	467.2	468.4	470.8	470.2
25°	448.1	451.1	450.5	451.6	451.1	451.1	452.3	452.8
27.5°	428.3	430.1	429.5	430.7	429.5	430.7	431.9	432.5
30°	402.6	403.8	403.2	403.8	403.2	404.4	405.0	406.2
32.5°	371.5	373.3	371.5	372.7	372.1	372.1	374.5	373.3
35°	334.4	335.0	335.6	335.6	334.4	335.0	336.2	336.2
37.5°	293.1	296.1	292.5	294.3	293.7	293.7	293.7	295.5
40°	250.1	250.6	249.5	249.5	249.5	248.8	251.3	250.6
42.5°	209.4	210.0	209.4	207.6	208.2	208.2	210.0	207.6
45°	169.9	171.1	170.5	170.5	169.3	169.3	169.9	168.7
47.5°	134.6	135.8	134.0	134.6	133.4	134.6	134.0	135.2
50°	102.3	103.5	102.9	103.5	103.5	102.3	104.1	101.7
52.5°	76.6	77.2	76.6	76.0	75.4	75.4	76.6	76.0
55°	54.4	53.8	53.8	53.8	54.4	54.4	53.8	53.2
57.5°	36.5	36.5	35.9	35.9	36.5	35.3	35.9	35.3
60°	23.3	23.3	23.3	23.3	22.7	23.3	23.3	23.3
62.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
65°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	6.0	6.6	6.6	6.6	6.0	6.0	6.0	6.0
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)