

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: P684619

Luminaire Tested: **LX6C08D010 EX6C089035 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: P684619
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 EX6C089035 6LCSWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

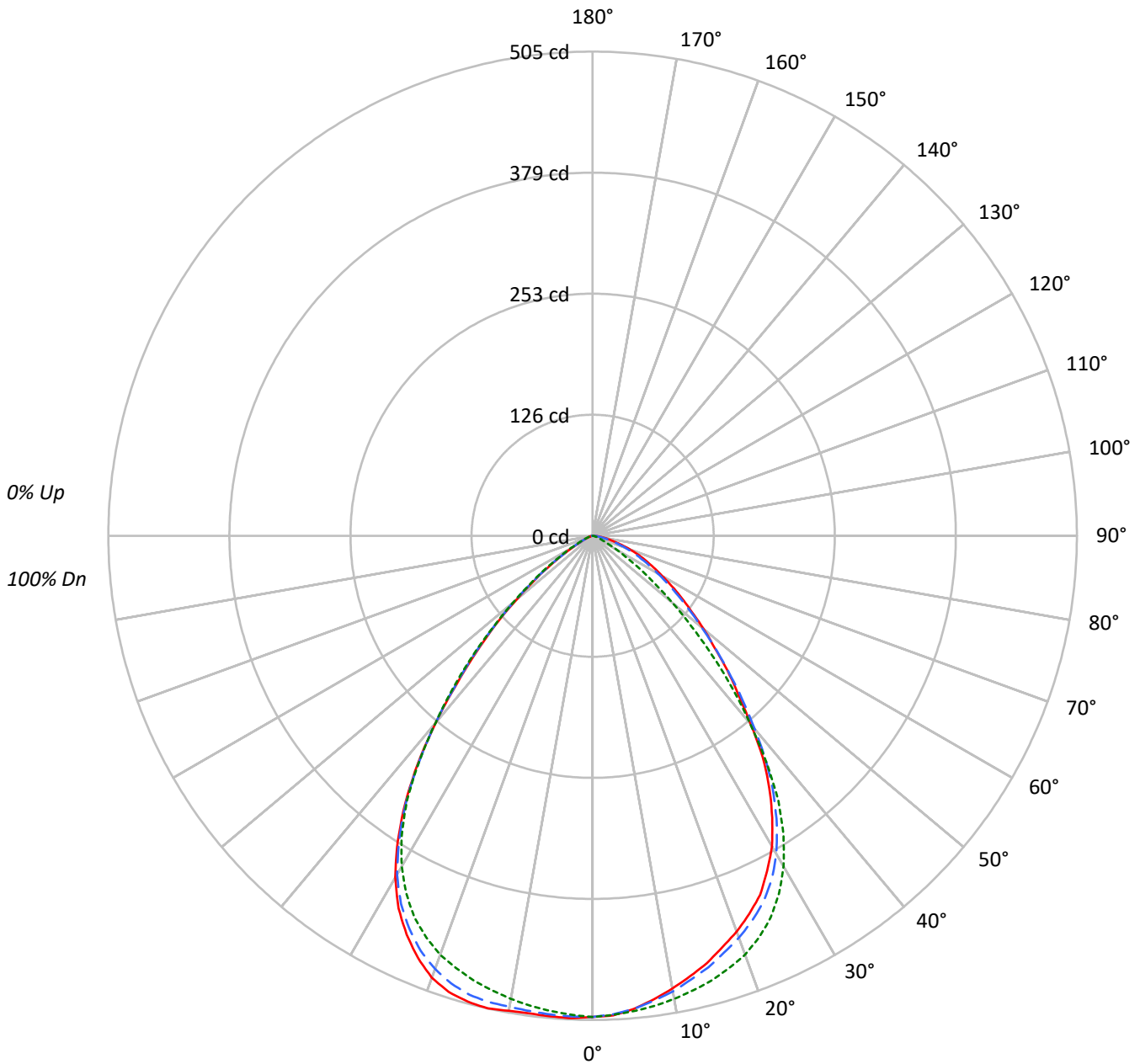
Lumens per Lamp: N/A
Luminaire Lumens: 842.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	103	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°	27514	27514	27514
5°	27251	27383	27685
10°	26692	27299	28005
15°	26181	27248	28553
20°	25634	27122	28609
25°	25005	26578	27752
30°	23675	25206	26055
35°	21502	22593	22801
40°	18349	18263	18177
45°	15412	13676	13249
50°	12870	9253	8793
55°	10838	5677	5161
60°	9177	2993	2588
65°	7939	1570	1258
70°	6604	978	673
75°	4872	635	381
80°	3820	379	189
85°	3082	377	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	5.6
10°-20°	135.4	16.1
20°-30°	200.0	23.8
30°-40°	206.1	24.5
40°-50°	142.4	16.9
50°-60°	70.2	8.3
60°-70°	28.4	3.4
70°-80°	10.1	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°	382.7	45.5
0°-40°	588.8	69.9
0°-60°	801.3	95.2
0°-90°	842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	502	502	502	502	502	
5°	495	495	498	501	503	47
15°	461	466	480	496	503	130
25°	413	421	439	452	459	189
35°	321	329	338	339	341	199
45°	199	200	176	174	171	154
55°	113	109	59	56	54	102
65°	61	55	12	10	10	61
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°	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9
2.5°	500.7	498.9	500.1	497.6	500.7	497.6	498.2	498.9	498.2	498.9	499.5
5°	495.2	493.4	495.2	492.2	495.2	493.4	493.4	494.0	494.0	494.6	495.2
7.5°	487.9	486.1	487.9	484.9	488.5	486.7	486.7	487.9	487.3	487.9	489.2
10°	479.5	477.0	478.8	477.0	480.7	478.2	479.5	479.5	479.5	481.3	482.5
12.5°	470.4	467.9	470.4	467.3	471.0	469.2	469.8	471.6	472.2	473.4	474.0
15°	461.3	458.2	459.5	457.6	461.3	459.5	460.1	462.5	462.5	464.3	466.1
17.5°	449.8	447.3	449.8	447.3	450.4	449.1	450.4	452.2	452.2	454.0	455.8
20°	439.4	437.0	438.8	437.0	440.7	438.8	439.4	441.9	442.5	444.3	446.1
22.5°	426.7	424.9	426.1	424.3	427.9	426.7	427.3	429.8	430.4	431.6	434.6
25°	413.4	409.7	411.6	410.4	414.0	412.2	413.4	415.8	417.0	418.8	421.3
27.5°	394.0	392.2	393.4	393.4	396.4	394.6	395.2	397.6	399.4	401.3	404.3
30°	374.0	371.0	372.2	372.8	375.2	374.0	375.2	377.6	378.2	380.7	383.1
32.5°	348.5	347.3	349.7	348.5	349.7	349.7	350.3	352.2	353.4	354.6	357.6
35°	321.3	318.8	321.3	320.0	323.1	321.3	323.1	324.9	324.9	327.3	329.1
37.5°	291.6	288.5	289.7	289.7	290.9	290.3	290.3	293.4	294.0	295.8	297.6
40°	256.4	255.2	257.6	257.0	257.6	257.6	258.2	260.0	261.2	261.9	262.5
42.5°	224.9	225.5	226.1	226.1	226.1	226.1	226.1	228.5	227.9	229.7	230.3
45°	198.8	196.4	197.6	197.0	198.8	197.0	198.8	200.6	199.4	201.2	200.0
47.5°	172.1	172.1	172.1	171.5	172.8	172.1	173.3	174.0	174.0	174.0	173.3
50°	150.9	149.1	149.7	149.7	150.3	149.7	150.9	151.5	151.5	150.3	147.9
52.5°	130.3	129.7	129.7	130.9	130.9	130.3	130.3	130.3	130.3	128.5	127.3
55°	113.4	112.1	112.7	112.7	112.7	112.7	113.4	112.7	112.7	110.9	109.1
57.5°	98.2	97.0	97.0	97.0	97.6	97.0	97.0	97.0	96.4	94.5	92.1
60°	83.7	83.0	83.7	83.7	84.2	83.7	83.7	83.7	82.4	80.6	78.2
62.5°	71.5	71.5	71.5	72.1	72.1	71.5	71.5	70.9	70.3	67.9	65.5
65°	61.2	60.6	61.2	61.2	61.8	61.8	61.2	60.6	60.0	57.6	55.2
67.5°	50.9	50.3	50.9	50.9	51.5	50.9	50.9	50.9	49.1	47.9	45.5
70°	41.2	40.6	40.6	40.6	41.2	40.0	40.6	40.6	39.4	37.6	35.1
72.5°	31.5	31.5	31.5	31.5	31.5	31.5	30.9	30.9	29.7	27.9	26.7
75°	23.0	23.0	23.6	23.6	23.0	23.0	23.0	22.4	21.8	20.6	19.4
77.5°	17.0	17.0	17.0	17.0	16.4	16.4	16.4	15.8	15.2	14.5	13.3
80°	12.1	12.1	12.1	11.5	12.1	11.5	11.5	11.5	10.3	9.7	9.1
82.5°	8.5	7.9	7.9	7.9	7.9	7.9	7.9	7.3	7.3	6.7	6.1
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	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°	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9
2.5°	499.5	499.5	500.7	498.9	501.9	500.1	499.5	502.5	500.7	500.1	501.3
5°	495.2	495.8	496.4	495.2	498.2	496.4	496.4	499.5	498.2	497.6	499.5
7.5°	489.8	490.4	491.6	491.0	493.4	492.2	492.8	495.8	494.6	494.6	496.4
10°	483.1	484.3	485.5	485.5	488.5	487.3	487.3	491.0	489.8	490.4	492.8
12.5°	475.2	477.0	478.8	479.5	482.5	480.7	481.3	485.5	484.9	485.5	487.9
15°	466.7	469.2	471.0	471.0	474.6	472.8	474.6	478.8	477.6	480.1	483.1
17.5°	457.0	459.5	461.9	462.5	466.1	464.9	467.3	471.6	471.6	472.8	476.4
20°	447.9	451.0	452.2	454.0	457.6	457.0	458.2	463.1	463.1	464.9	468.5
22.5°	435.8	438.8	441.3	443.1	446.1	446.1	447.9	452.2	452.2	453.4	457.0
25°	422.5	426.1	427.9	429.8	432.8	432.2	434.0	437.6	438.2	439.4	443.1
27.5°	405.5	408.5	411.0	412.2	416.4	414.0	415.8	420.1	419.4	420.7	423.7
30°	384.3	387.3	389.7	389.7	393.4	393.4	395.2	397.0	397.0	398.2	400.7
32.5°	359.4	363.1	363.1	364.9	367.3	364.9	367.3	369.7	368.5	370.4	372.2
35°	330.9	332.8	333.4	333.4	335.2	334.6	334.0	335.8	334.6	337.6	339.4
37.5°	296.4	298.8	297.6	298.8	298.2	296.4	296.4	299.4	297.0	297.6	299.4
40°	263.1	263.1	262.5	259.4	260.0	258.2	257.6	258.2	255.8	255.2	257.6
42.5°	228.5	227.9	226.1	221.9	222.4	219.4	217.0	217.0	215.8	215.2	215.8
45°	197.6	195.8	192.7	187.9	186.7	184.3	179.4	178.2	176.4	176.4	177.0
47.5°	169.1	166.7	161.8	156.4	153.4	150.3	145.5	143.6	140.6	139.4	140.6
50°	145.5	141.2	135.2	127.3	124.2	120.6	115.8	112.7	109.7	108.5	107.9
52.5°	123.7	117.6	111.5	101.8	99.4	95.8	89.1	86.1	83.0	80.6	80.6
55°	104.9	99.4	90.9	81.8	78.2	74.6	67.9	63.6	60.6	59.4	58.2
57.5°	87.9	81.8	73.9	64.3	60.6	57.0	50.3	46.1	43.0	41.2	40.0
60°	73.9	67.3	59.4	50.9	46.7	43.0	36.4	32.1	29.1	27.3	26.1
62.5°	60.6	55.2	47.3	39.4	35.8	32.1	26.7	22.4	19.4	18.2	16.4
65°	50.9	45.5	38.2	31.5	28.5	24.8	20.0	16.4	13.9	12.1	10.9
67.5°	41.2	37.0	30.9	24.8	21.8	19.4	15.2	12.1	9.7	8.5	7.9
70°	32.7	28.5	23.6	18.8	17.0	14.5	11.5	8.5	7.3	6.1	5.4
72.5°	24.3	21.2	17.6	13.9	12.1	10.9	7.9	6.7	4.9	4.2	3.6
75°	17.6	15.2	12.7	9.7	8.5	7.9	6.1	4.2	3.6	3.0	2.4
77.5°	12.1	10.9	8.5	6.7	6.1	5.4	4.2	3.0	2.4	1.8	1.8
80°	7.9	6.7	5.4	4.2	4.2	3.6	2.4	1.8	1.8	1.2	1.2
82.5°	4.9	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9
2.5°	501.3	501.3	502.5	500.7	501.9	501.9	503.1	500.7	501.9	502.5	503.7
5°	498.9	499.5	500.7	500.1	500.7	500.7	501.9	498.9	501.3	501.3	503.1
7.5°	496.4	496.4	497.6	497.0	498.2	498.9	500.1	497.6	500.1	500.1	501.9
10°	493.4	493.4	495.2	494.6	496.4	497.0	498.9	496.4	498.9	499.5	501.3
12.5°	489.2	489.8	491.6	491.6	493.4	494.6	496.4	495.2	498.2	498.9	501.3
15°	484.3	485.5	487.9	487.3	489.2	491.0	493.4	491.6	495.8	497.0	499.5
17.5°	478.2	479.5	481.3	481.3	483.1	484.3	487.3	486.1	489.8	490.4	493.4
20°	469.2	471.0	473.4	472.8	474.6	475.8	478.2	477.0	480.7	481.9	484.9
22.5°	458.2	459.5	461.3	461.3	463.1	464.3	466.7	464.9	468.5	469.2	471.6
25°	443.7	444.9	446.1	446.7	448.5	449.1	450.4	449.1	452.2	452.8	455.8
27.5°	424.9	425.5	427.3	427.3	428.5	429.1	431.0	428.5	432.8	432.8	434.6
30°	402.5	401.9	404.3	403.1	404.3	404.3	406.1	404.9	407.9	406.7	408.5
32.5°	372.8	374.0	374.0	372.8	375.2	374.6	374.6	373.4	375.2	375.8	377.0
35°	338.2	340.0	340.0	340.7	341.3	339.4	340.0	336.4	339.4	340.0	340.7
37.5°	300.6	298.8	300.0	298.2	301.2	297.6	297.6	295.2	297.6	297.6	298.2
40°	257.6	257.0	258.2	257.0	256.4	255.8	254.6	252.8	255.2	254.0	255.8
42.5°	217.0	216.4	216.4	215.2	214.6	214.6	213.4	212.1	211.5	211.5	214.6
45°	175.2	176.4	175.2	174.6	175.8	174.6	175.2	172.8	174.0	172.8	174.0
47.5°	140.0	140.6	139.4	138.2	140.0	138.2	138.2	136.4	138.8	138.8	137.6
50°	108.5	107.9	106.7	107.9	107.3	107.3	107.3	105.5	106.7	104.9	106.1
52.5°	80.0	79.4	79.4	78.8	79.4	78.8	78.8	78.2	78.2	77.6	78.2
55°	58.2	57.6	56.4	56.4	56.4	57.0	56.4	55.8	55.8	55.2	55.8
57.5°	39.4	38.2	38.2	38.2	38.2	37.6	37.6	37.0	37.6	37.0	37.6
60°	25.5	25.5	24.3	24.3	24.3	24.3	24.3	23.6	24.3	24.3	24.3
62.5°	15.8	15.8	15.2	14.5	15.2	14.5	14.5	14.5	15.2	14.5	15.2
65°	10.3	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	7.3	6.7	6.7	6.7	6.7	6.7	6.7	6.1	6.7	6.7	6.7
70°	4.9	4.9	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



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CATALOG NUMBER: LX6C08D010 EX6C089035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	501.9	501.9	501.9	501.9	501.9	501.9	501.9	501.9
2.5°	501.9	502.5	501.3	501.9	500.7	501.9	502.5	503.7
5°	500.7	501.3	500.1	501.3	500.1	501.3	501.9	503.1
7.5°	499.5	500.7	499.5	500.7	499.5	500.7	501.3	502.5
10°	499.5	501.3	500.1	501.9	500.1	501.3	502.5	503.1
12.5°	499.5	501.3	500.7	501.9	501.3	502.5	503.7	504.9
15°	498.2	500.1	498.9	500.7	500.1	500.7	503.1	503.1
17.5°	491.6	493.4	493.4	494.6	494.6	496.4	497.6	498.9
20°	483.1	484.9	484.3	486.1	486.1	487.9	489.2	490.4
22.5°	470.4	472.8	472.2	474.0	473.4	474.6	477.0	476.4
25°	454.0	457.0	456.4	457.6	457.0	457.0	458.2	458.8
27.5°	434.0	435.8	435.2	436.4	435.2	436.4	437.6	438.2
30°	407.9	409.1	408.5	409.1	408.5	409.7	410.4	411.6
32.5°	376.4	378.2	376.4	377.6	377.0	377.0	379.4	378.2
35°	338.8	339.4	340.0	340.0	338.8	339.4	340.7	340.7
37.5°	297.0	300.0	296.4	298.2	297.6	297.6	297.6	299.4
40°	253.4	254.0	252.8	252.8	252.8	252.1	254.6	254.0
42.5°	212.1	212.8	212.1	210.3	210.9	210.9	212.8	210.3
45°	172.1	173.3	172.8	172.8	171.5	171.5	172.1	170.9
47.5°	136.4	137.6	135.8	136.4	135.2	136.4	135.8	137.0
50°	103.6	104.9	104.3	104.9	104.9	103.6	105.5	103.1
52.5°	77.6	78.2	77.6	77.0	76.4	76.4	77.6	77.0
55°	55.2	54.5	54.5	54.5	55.2	55.2	54.5	54.0
57.5°	37.0	37.0	36.4	36.4	37.0	35.8	36.4	35.8
60°	23.6	23.6	23.6	23.6	23.0	23.6	23.6	23.6
62.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
65°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	6.1	6.7	6.7	6.7	6.1	6.1	6.1	6.1
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)