

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252452

Luminaire Tested: **LE_6B10D010 EC6B10209730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 842.5 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

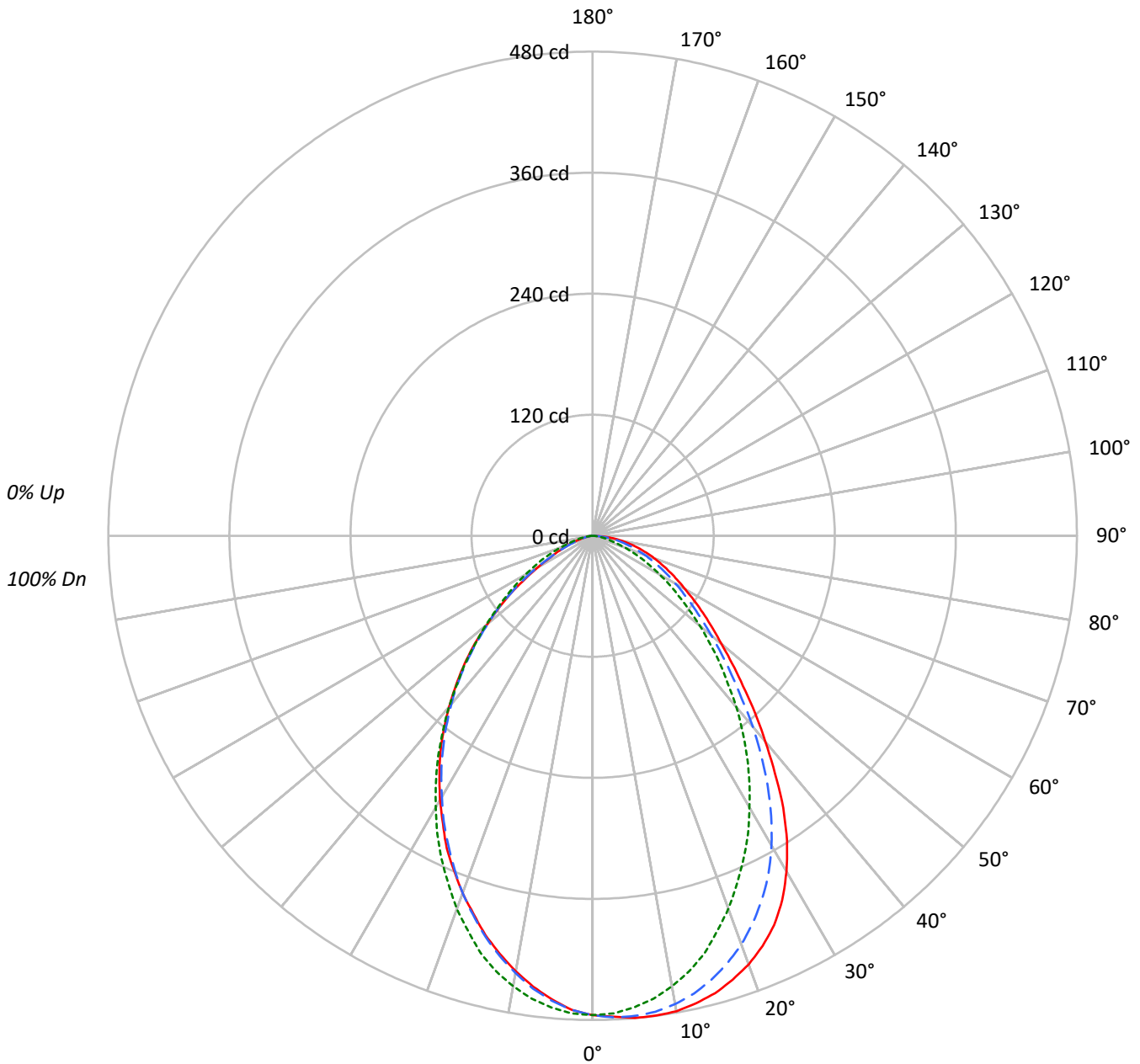
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

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				100															
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77															
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67															
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59															
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47															
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43															
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39															
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35															
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31002	31002	31002
5°	31429	30741	30217
10°	31706	30043	29043
15°	31704	28935	27692
20°	31395	27320	26167
25°	30651	25476	24619
30°	28943	23421	22781
35°	26235	21249	20978
40°	22654	18890	18830
45°	19431	16441	16561
50°	16889	14067	13864
55°	15173	11852	11124
60°	13779	9995	8194
65°	12952	8259	6021
70°	12361	6409	4406
75°	11822	4663	3000
80°	11196	3231	1954
85°	9881	1946	1048



TEST NUMBER: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	5.3
10°-20°	121.8	14.5
20°-30°	169.0	20.1
30°-40°	175.1	20.8
40°-50°	143.9	17.1
50°-60°	98.9	11.7
60°-70°	56.9	6.7
70°-80°	26.1	3.1
80°-90°	6.4	0.8
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°	335.3	39.8
0°-40°	510.4	60.6
0°-60°	753.1	89.4
0°-90°	842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	475	475	475	475	475	
5°	480	478	469	463	461	46
15°	469	456	428	411	410	132
25°	426	397	354	339	342	195
35°	329	302	267	259	263	204
45°	211	195	178	176	180	164
55°	133	121	104	98	98	120
65°	84	73	54	38	39	83
75°	47	37	18	12	12	50
85°	13	9	3	1	1	15
90°	0	0	0	0	0	



TEST NUMBER: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	477.2	481.2	478.6	477.9	479.2	479.2	479.2	477.2	478.6	476.6	477.9
5°	479.9	483.2	480.6	479.2	480.6	481.2	479.2	477.9	479.9	477.2	477.9
7.5°	479.9	483.2	480.6	479.9	480.6	480.6	479.9	477.2	478.6	476.0	476.0
10°	478.6	481.2	478.6	477.2	477.9	477.2	477.2	474.0	474.6	471.4	471.4
12.5°	474.6	477.9	474.6	473.4	473.4	473.4	471.4	468.8	469.4	465.4	464.8
15°	469.4	472.0	468.8	467.4	467.4	466.8	465.4	461.4	461.4	457.5	455.5
17.5°	461.4	464.1	461.4	459.5	458.8	457.5	456.1	452.2	450.9	446.2	444.2
20°	452.2	454.1	451.5	449.5	448.2	446.9	444.2	440.2	439.0	434.4	431.1
22.5°	440.2	443.0	439.0	437.0	435.6	433.8	431.1	427.1	425.1	419.1	415.2
25°	425.8	427.1	423.8	421.9	419.1	417.9	415.9	410.6	408.6	402.0	397.4
27.5°	407.2	408.6	404.6	403.4	400.0	398.8	396.1	391.5	388.9	382.2	377.6
30°	384.2	385.5	382.9	380.9	378.2	375.6	373.6	369.0	365.0	358.5	354.5
32.5°	358.5	360.4	357.8	355.1	350.5	351.2	347.9	343.2	340.0	334.0	329.4
35°	329.4	330.8	327.4	326.8	324.1	321.5	318.1	314.9	312.9	306.2	302.4
37.5°	297.0	300.4	297.0	294.4	293.1	291.1	289.1	284.5	283.2	279.2	274.0
40°	266.0	268.0	266.0	263.4	261.4	261.4	258.8	256.1	252.9	248.9	246.9
42.5°	238.2	237.0	236.4	235.0	232.4	231.8	231.0	227.8	225.8	221.8	218.5
45°	210.6	211.2	209.9	209.2	207.2	206.0	204.6	202.0	201.4	197.4	194.8
47.5°	187.5	186.9	185.5	185.5	184.1	182.9	181.5	179.5	178.9	175.6	173.0
50°	166.4	167.0	166.4	165.8	163.8	163.0	161.8	160.4	159.1	155.8	153.1
52.5°	149.2	148.5	147.9	147.9	145.9	145.2	143.9	142.6	141.2	138.0	136.0
55°	133.4	133.4	132.6	132.0	130.0	129.4	128.8	127.4	125.4	122.8	120.8
57.5°	118.9	118.9	118.1	117.5	116.1	116.1	114.9	113.5	112.2	109.6	107.0
60°	105.6	106.2	105.6	105.0	103.6	103.6	103.0	101.0	100.4	97.0	95.0
62.5°	94.4	94.4	94.4	93.8	93.1	91.8	91.8	89.8	88.5	86.5	83.9
65°	83.9	83.9	83.9	83.1	81.9	81.2	80.5	79.2	77.9	75.9	73.2
67.5°	73.9	73.9	73.9	73.2	72.0	71.2	70.6	70.0	68.0	66.0	63.4
70°	64.8	64.8	64.0	63.4	62.8	62.0	61.4	60.1	58.8	56.1	54.1
72.5°	55.5	55.5	55.5	54.1	53.5	53.5	52.1	51.5	50.1	47.5	45.5
75°	46.9	46.2	46.2	45.5	44.9	44.2	43.6	42.9	40.9	39.6	37.0
77.5°	38.2	38.2	37.6	37.0	37.0	36.2	35.6	34.4	33.6	31.6	29.8
80°	29.8	29.8	29.8	29.8	29.0	28.4	28.4	27.1	26.4	24.4	23.1
82.5°	22.5	21.8	21.8	21.8	21.1	20.5	20.5	19.8	19.1	17.9	16.5
85°	13.2	12.5	12.5	12.5	11.9	11.9	11.2	11.2	10.5	9.2	9.2
87.5°	4.0	4.0	4.6	4.6	4.0	4.0	4.0	4.0	4.0	3.2	3.2
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: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	476.6	478.6	476.0	475.2	477.9	476.6	476.0	474.6	475.2	474.0	472.0
5°	476.0	478.6	475.2	473.4	476.6	474.6	473.4	472.0	472.0	469.4	468.0
7.5°	474.0	475.2	472.0	470.0	472.0	470.0	468.8	466.8	466.0	462.8	460.8
10°	468.8	470.0	466.0	463.4	465.4	462.8	460.8	458.8	457.5	453.5	450.9
12.5°	461.4	462.1	457.5	454.1	455.5	453.5	450.2	447.6	446.2	442.2	439.0
15°	451.5	452.2	446.9	442.2	443.6	441.0	437.0	434.4	432.4	428.4	423.8
17.5°	439.6	439.0	433.0	428.4	429.1	425.8	421.9	417.9	415.2	410.6	407.2
20°	426.5	424.5	417.9	412.6	413.2	409.2	404.6	400.8	397.4	393.5	388.9
22.5°	410.0	407.2	401.4	394.8	395.4	392.1	385.5	382.2	378.9	373.6	369.6
25°	392.1	388.1	382.2	375.6	375.6	371.6	366.4	362.4	359.1	353.9	349.2
27.5°	371.0	369.0	361.1	355.8	355.1	351.2	346.6	342.0	338.0	333.4	328.8
30°	347.9	344.6	338.6	332.8	331.4	328.1	323.5	318.1	315.5	310.9	307.0
32.5°	323.5	320.1	313.6	307.6	307.0	304.4	300.4	295.1	292.5	289.1	286.5
35°	295.8	294.4	287.9	283.2	283.2	280.5	276.6	272.0	270.0	266.8	263.4
37.5°	269.4	267.4	261.4	257.5	257.5	254.1	250.2	248.2	246.2	243.6	241.6
40°	241.6	240.2	235.6	231.8	232.4	229.8	227.1	224.5	223.1	221.8	219.9
42.5°	215.9	214.5	211.2	208.0	208.0	206.0	203.4	201.4	200.0	198.0	197.4
45°	192.8	190.8	188.1	184.9	184.9	182.9	181.5	180.2	179.5	178.2	176.2
47.5°	170.4	169.0	166.4	163.0	163.0	163.0	160.4	158.4	158.4	157.1	156.5
50°	151.1	149.2	147.2	144.6	144.6	143.2	141.2	139.2	139.2	138.6	137.2
52.5°	133.4	132.0	129.4	126.8	126.8	125.4	123.5	122.8	122.1	120.1	119.5
55°	118.1	116.9	114.9	111.5	110.9	110.2	108.2	107.0	106.2	104.2	104.2
57.5°	104.2	103.0	99.6	97.8	97.0	95.8	93.8	92.4	91.8	90.5	89.1
60°	92.4	90.5	87.8	85.1	84.5	83.1	81.2	79.9	79.2	76.6	75.2
62.5°	81.2	79.2	76.6	73.9	73.2	72.0	69.4	68.0	66.6	64.0	62.8
65°	70.6	68.6	66.0	63.4	62.0	61.4	58.8	56.8	55.5	53.5	50.9
67.5°	60.8	58.8	56.1	52.8	52.8	50.9	48.9	46.9	44.9	42.9	40.9
70°	51.5	49.5	46.9	44.2	43.6	42.2	40.2	37.6	36.2	33.6	31.6
72.5°	42.9	40.9	38.2	35.6	35.0	33.6	31.6	29.0	27.1	25.1	23.1
75°	35.0	33.0	30.4	28.4	27.8	26.4	24.4	21.8	19.8	18.5	16.5
77.5°	27.8	25.8	23.8	21.8	21.1	19.8	17.9	16.5	14.5	13.2	11.2
80°	21.1	19.8	17.9	16.5	15.9	14.5	13.2	11.2	9.9	8.6	7.9
82.5°	15.1	13.9	12.5	10.5	10.5	9.2	8.6	7.2	6.0	5.2	4.6
85°	8.6	7.2	6.6	6.0	5.2	5.2	4.6	4.0	3.2	2.6	2.6
87.5°	2.6	2.6	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	1.4
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: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	472.0	472.6	471.4	472.6	471.4	472.0	470.6	472.0	470.6	472.0	469.4
5°	467.4	467.4	465.4	466.8	465.4	466.0	463.4	464.1	462.8	464.1	461.4
7.5°	459.5	460.1	456.8	458.1	456.1	456.1	454.1	454.9	452.9	453.5	451.5
10°	450.2	449.5	446.2	447.6	444.9	444.9	443.0	443.0	440.2	441.0	438.4
12.5°	437.0	436.4	432.4	433.8	431.1	431.1	429.1	429.1	426.5	427.8	425.1
15°	421.9	421.1	417.2	417.9	415.2	415.2	412.6	413.2	411.2	412.6	410.0
17.5°	404.6	404.0	400.0	400.8	397.4	398.0	396.1	395.4	394.1	394.8	392.8
20°	386.9	385.5	381.5	382.2	380.9	378.9	377.6	378.2	376.9	378.2	376.2
22.5°	368.4	365.8	362.4	362.4	361.1	361.1	359.1	360.4	357.8	359.8	358.5
25°	347.2	345.2	342.6	343.9	341.2	341.2	339.2	340.0	338.6	340.0	338.6
27.5°	326.8	325.5	321.5	322.8	320.9	321.5	319.5	320.1	319.5	320.9	319.5
30°	305.0	304.4	301.6	301.6	301.0	300.4	299.8	299.8	299.0	301.0	299.8
32.5°	284.5	282.5	279.9	281.9	278.6	280.5	279.2	280.5	279.2	280.5	279.9
35°	263.4	262.8	259.4	260.1	259.4	259.4	258.8	258.8	258.8	260.8	260.8
37.5°	241.0	240.2	238.2	239.0	237.6	237.0	237.0	238.2	238.2	239.6	239.6
40°	219.1	219.9	217.9	217.9	217.1	217.1	217.1	218.5	217.9	219.1	218.5
42.5°	197.4	197.4	195.4	196.0	195.4	196.0	196.0	197.4	197.4	198.0	197.4
45°	176.9	176.9	176.2	176.9	175.6	176.2	175.6	176.9	176.2	176.9	176.9
47.5°	156.5	156.5	156.5	155.8	155.8	155.8	155.8	155.8	155.1	156.5	155.8
50°	137.2	138.0	137.2	137.2	136.6	137.2	136.6	136.6	135.4	136.0	136.0
52.5°	120.1	120.1	118.9	118.9	118.9	118.1	118.1	118.1	117.5	117.5	116.1
55°	103.6	103.6	102.4	102.4	101.6	101.0	100.4	100.4	98.4	98.4	96.4
57.5°	88.5	87.8	85.9	85.9	84.5	83.9	83.1	82.5	81.2	79.9	79.2
60°	74.6	73.2	72.0	71.2	70.0	68.6	67.4	66.0	64.8	64.0	63.4
62.5°	61.4	59.4	58.1	57.4	56.1	54.1	52.8	51.5	50.1	49.5	48.2
65°	49.5	47.5	45.5	44.9	43.6	42.2	40.2	39.0	37.6	37.0	37.0
67.5°	39.0	37.0	34.4	34.4	33.0	31.6	30.4	29.0	28.4	29.0	29.0
70°	29.0	27.8	25.8	25.1	23.8	22.5	21.8	21.8	21.8	22.5	21.8
72.5°	21.8	19.8	18.5	17.9	17.1	16.5	16.5	16.5	15.9	16.5	16.5
75°	15.1	13.9	12.5	12.5	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	10.5	9.2	8.6	8.6	8.6	7.9	7.9	7.9	7.9	7.9	7.9
80°	6.6	6.6	6.0	6.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	4.0	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.6	0.6	0.6	0.6	0.6	1.4	1.4	1.4	1.4	1.4	1.4
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: P252452

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	469.4	471.4	468.8	470.6	470.0	469.4	468.0	470.6
5°	461.4	462.1	459.5	462.1	461.4	460.1	458.8	461.4
7.5°	450.2	452.2	448.9	451.5	450.9	449.5	448.2	450.9
10°	437.6	439.6	437.0	439.0	439.0	437.6	435.6	438.4
12.5°	423.8	425.1	422.5	425.1	424.5	423.1	422.5	424.5
15°	408.6	410.6	408.0	410.0	409.2	408.6	408.0	410.0
17.5°	392.1	394.1	392.1	394.1	394.1	392.1	391.5	392.8
20°	375.6	376.9	375.0	376.9	376.2	376.2	375.0	376.9
22.5°	357.1	359.1	357.8	359.1	358.5	358.5	357.8	359.1
25°	338.6	340.6	338.6	340.6	340.0	340.0	338.6	342.0
27.5°	320.1	321.5	319.5	322.1	321.5	320.1	320.9	321.5
30°	300.4	301.6	300.4	302.4	302.4	302.4	301.0	302.4
32.5°	280.5	282.5	280.5	282.5	281.9	281.9	281.2	282.5
35°	260.8	261.4	260.1	262.1	262.1	262.8	261.4	263.4
37.5°	240.2	241.0	240.2	241.0	242.2	240.2	241.6	242.2
40°	219.1	220.5	219.9	220.5	220.5	221.1	220.5	221.1
42.5°	198.0	199.4	198.0	200.0	199.4	199.4	200.0	200.0
45°	176.2	178.2	176.9	178.2	178.9	178.2	178.2	179.5
47.5°	155.8	157.1	156.5	157.1	157.1	157.1	157.1	158.4
50°	135.4	136.0	136.0	136.6	136.6	137.2	136.0	136.6
52.5°	114.9	116.1	116.1	116.1	115.5	116.1	116.1	116.1
55°	96.4	97.0	95.8	97.0	97.0	96.4	96.4	97.8
57.5°	78.5	78.5	78.5	78.5	78.5	77.9	78.5	78.5
60°	62.0	62.8	62.0	62.0	62.0	62.0	61.4	62.8
62.5°	48.2	48.2	47.5	48.2	48.2	48.2	48.9	48.9
65°	37.6	38.2	37.6	38.2	38.2	38.2	38.2	39.0
67.5°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
70°	22.5	22.5	22.5	23.1	22.5	22.5	22.5	23.1
72.5°	16.5	16.5	16.5	16.5	16.5	16.5	17.1	17.1
75°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	7.9	7.9	7.9	8.6	7.9	8.6	7.9	7.9
80°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)