

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: P252358

Luminaire Tested: **LE_6B15D010 EC6B10209040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1438.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

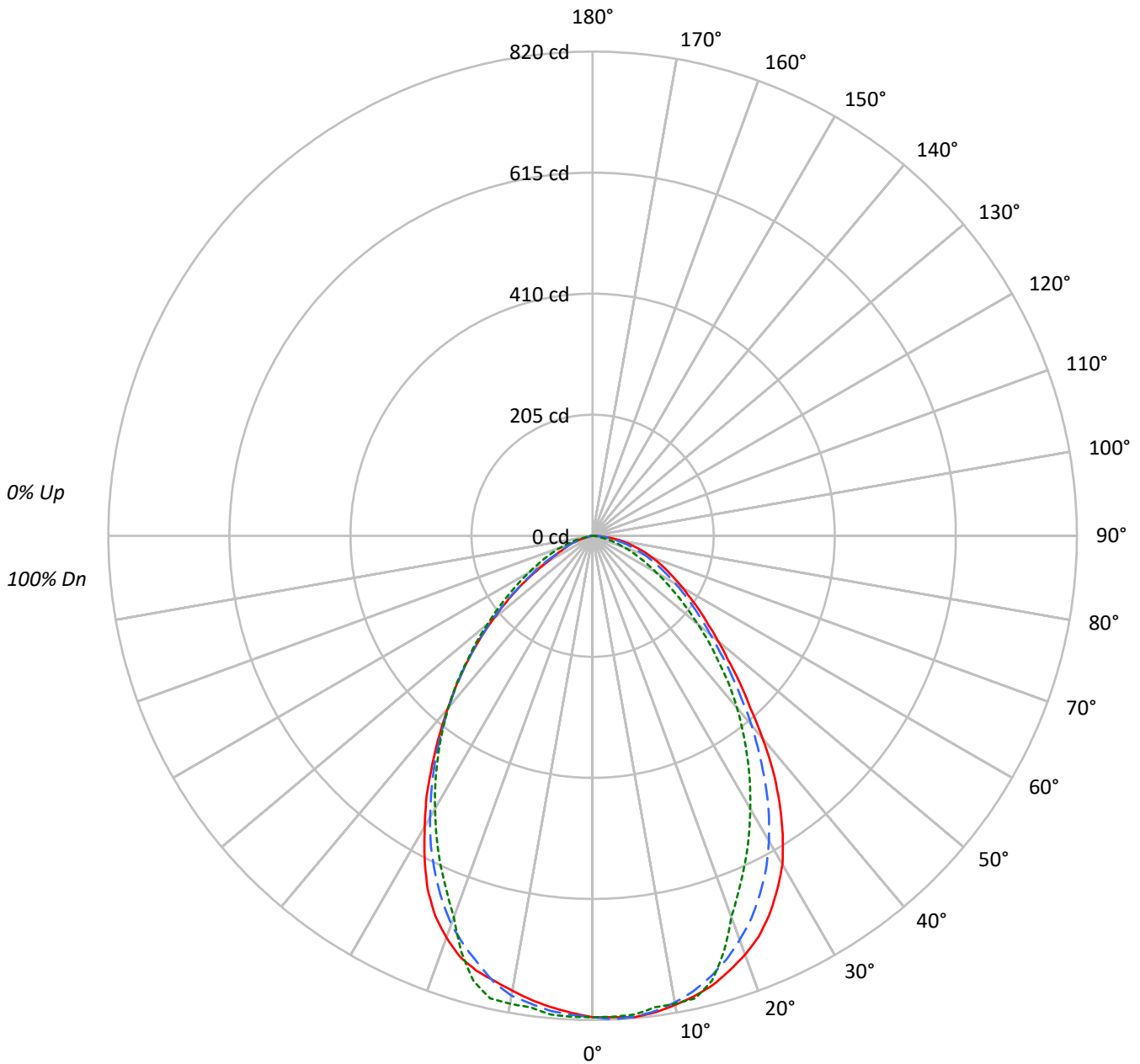
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	53184	53184	53184
5°	53597	53315	52490
10°	53448	53302	51832
15°	53196	52696	51481
20°	52411	47704	50273
25°	50980	43976	47553
30°	48409	40198	42827
35°	43932	36334	37688
40°	38146	32371	32457
45°	32523	27845	27541
50°	28155	23537	22238
55°	25160	19632	17221
60°	22939	16297	11600
65°	21427	13415	8660
70°	20391	10892	7268
75°	19208	7764	2395
80°	18334	3982	789
85°	15046	2321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	5.4
10°-20°	215.3	15.0
20°-30°	297.2	20.7
30°-40°	302.4	21.0
40°-50°	243.0	16.9
50°-60°	161.6	11.2
60°-70°	92.1	6.4
70°-80°	41.4	2.9
80°-90°	8.7	0.6
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°	589.5	41.0
0°-40°	891.9	62.0
0°-60°	1296.6	90.1
0°-90°	1438.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	815	815	815	815	815	
5°	818	817	814	808	802	78
15°	788	773	780	750	762	222
25°	708	670	611	631	661	325
35°	552	509	456	465	473	343
45°	352	331	302	298	298	273
55°	221	206	173	154	151	199
65°	139	124	87	56	56	138
75°	76	64	31	13	10	81
85°	20	14	3	1	0	24
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°	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2
2.5°	816.2	820.5	819.5	818.4	819.5	818.4	816.2	816.2	814.1	814.1	819.5
5°	818.4	820.5	819.5	818.4	818.4	819.5	815.2	815.2	813.1	812.0	817.4
7.5°	814.1	817.4	815.2	815.2	814.1	815.2	811.0	811.0	807.8	806.8	812.0
10°	806.8	811.0	808.9	808.9	808.9	806.8	804.6	803.5	800.4	799.4	802.5
12.5°	798.2	801.5	800.4	798.2	798.2	798.2	794.0	793.0	788.8	786.6	789.8
15°	787.6	789.8	788.8	787.6	785.6	785.6	781.4	779.2	775.0	770.8	772.9
17.5°	771.8	775.0	772.9	771.8	768.6	768.6	764.4	762.2	755.9	751.6	752.8
20°	754.9	755.9	754.9	752.8	749.6	748.5	744.2	740.0	734.8	729.5	728.4
22.5°	734.8	735.8	732.6	730.5	727.4	726.2	721.0	717.8	709.4	703.0	701.9
25°	708.2	709.4	709.4	704.0	701.9	699.8	694.5	689.2	681.8	673.4	670.1
27.5°	676.5	679.8	677.6	672.2	668.0	667.0	661.8	657.5	647.9	640.5	636.2
30°	642.6	641.6	640.5	637.4	631.0	629.9	624.6	619.4	611.9	602.4	597.1
32.5°	599.2	599.2	598.1	595.0	588.6	586.5	582.2	576.0	567.5	560.0	554.8
35°	551.6	552.6	551.6	545.2	541.0	538.9	536.8	529.4	522.0	513.5	509.2
37.5°	501.9	498.6	499.8	494.4	489.1	491.2	484.9	481.8	473.2	466.9	462.6
40°	447.9	450.0	445.8	443.6	440.4	437.2	437.2	432.0	427.8	420.2	418.2
42.5°	394.9	398.1	397.0	394.9	390.6	391.8	386.4	384.2	379.0	375.9	372.6
45°	352.5	352.5	352.5	350.4	349.4	347.2	344.1	340.9	337.8	333.5	331.4
47.5°	311.2	311.2	312.4	310.2	308.1	307.0	304.9	304.9	299.6	295.4	293.2
50°	277.4	277.4	277.4	275.2	273.1	273.1	271.0	268.9	265.8	262.5	260.5
52.5°	246.6	246.6	246.6	244.5	243.5	242.5	241.4	240.4	236.1	234.0	231.9
55°	221.2	220.2	220.2	219.1	217.0	217.0	216.0	213.9	210.6	207.5	206.5
57.5°	195.9	196.9	195.9	195.9	193.8	193.8	191.6	190.6	187.4	185.2	183.1
60°	175.8	175.8	175.8	174.6	172.6	173.6	171.5	170.5	167.2	164.1	162.0
62.5°	155.6	156.8	156.8	155.6	153.5	153.5	152.5	151.4	148.2	145.0	141.9
65°	138.8	138.8	138.8	137.6	136.6	136.6	135.5	134.5	131.2	127.0	123.9
67.5°	122.8	121.8	121.8	121.8	120.8	119.6	118.6	117.5	114.4	111.1	106.9
70°	106.9	106.9	106.9	105.9	103.8	104.8	103.8	102.8	99.5	96.4	93.1
72.5°	92.1	92.1	91.0	90.0	90.0	88.9	88.9	87.9	84.8	80.5	77.2
75°	76.2	76.2	76.2	76.2	74.1	75.1	73.0	72.0	69.9	66.8	63.5
77.5°	62.5	62.5	62.5	61.4	60.4	60.4	59.2	58.2	55.0	52.9	48.8
80°	48.8	48.8	48.8	48.8	47.6	46.6	45.5	44.5	42.4	39.1	36.0
82.5°	36.0	36.0	34.9	34.9	34.9	33.9	32.9	31.8	29.6	27.5	25.4
85°	20.1	21.1	21.1	19.0	20.1	19.0	19.0	17.0	17.0	14.9	13.8
87.5°	7.4	6.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2	5.2	4.2
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°	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2
2.5°	815.2	814.1	818.4	818.4	812.0	815.2	816.2	814.1	814.1	815.2	812.0
5°	813.1	811.0	815.2	816.2	809.9	813.1	814.1	812.0	813.1	814.1	809.9
7.5°	805.6	805.6	808.9	809.9	803.5	806.8	806.8	804.6	805.6	805.6	802.5
10°	798.2	795.1	798.2	798.2	793.0	794.0	796.1	795.1	799.4	804.6	804.6
12.5°	784.5	781.4	786.6	786.6	783.5	787.6	793.0	796.1	800.4	802.5	796.1
15°	767.6	768.6	778.1	785.6	782.4	788.8	794.0	791.9	786.6	780.2	770.8
17.5°	745.4	742.1	750.6	754.9	750.6	752.8	757.0	752.8	744.2	739.0	726.2
20°	719.9	711.5	711.5	709.4	701.9	701.9	700.9	693.5	690.2	687.1	681.8
22.5°	691.4	681.8	678.6	672.2	665.9	664.9	661.8	654.2	650.0	647.9	641.6
25°	658.5	650.0	644.8	638.4	628.9	626.8	623.6	616.1	614.0	610.9	605.6
27.5°	624.6	614.0	606.6	600.2	591.9	590.8	584.4	579.1	574.9	572.8	568.5
30°	585.5	573.9	568.5	560.0	553.8	551.6	546.2	538.9	535.8	533.6	530.4
32.5°	542.0	532.5	527.2	519.9	511.4	512.4	506.1	499.8	497.6	495.5	492.2
35°	499.8	490.1	483.9	477.5	472.1	470.1	465.9	460.5	457.4	456.2	454.1
37.5°	453.1	445.8	440.4	434.1	429.9	427.8	425.6	420.2	418.2	418.2	414.0
40°	407.6	401.2	397.0	393.9	388.5	387.5	385.4	382.2	381.1	380.1	376.9
42.5°	366.4	357.9	354.6	352.5	349.4	347.2	346.2	344.1	343.0	342.0	338.8
45°	327.1	319.8	316.5	314.4	311.2	310.2	309.1	306.0	303.9	301.8	300.6
47.5°	289.0	283.8	282.6	277.4	275.2	273.1	271.0	268.9	267.9	266.8	262.5
50°	256.2	253.0	247.8	244.5	242.5	241.4	237.1	234.0	232.9	231.9	228.6
52.5°	226.6	222.4	219.1	213.9	212.8	210.6	208.6	204.4	202.2	201.1	198.0
55°	200.1	196.9	192.6	188.5	185.2	184.2	181.0	176.8	174.6	172.6	170.5
57.5°	177.9	172.6	168.4	164.1	162.0	158.8	155.6	153.5	150.4	147.1	144.0
60°	156.8	152.5	147.1	142.9	140.8	138.8	134.5	131.2	128.1	124.9	121.8
62.5°	136.6	132.4	127.0	122.8	120.8	118.6	114.4	111.1	108.0	104.8	100.6
65°	118.6	114.4	110.1	105.9	103.8	101.6	97.4	93.1	90.0	86.9	82.6
67.5°	103.8	98.5	94.2	90.0	87.9	85.8	81.5	78.4	74.1	70.9	66.8
70°	87.9	83.6	80.5	76.2	74.1	72.0	67.8	63.5	60.4	57.1	52.9
72.5°	74.1	68.9	65.6	61.4	59.2	58.2	54.0	50.9	47.6	43.4	40.2
75°	59.2	55.0	50.9	47.6	45.5	44.5	40.2	37.0	33.9	30.8	27.5
77.5°	45.5	42.4	38.1	34.9	32.9	31.8	27.5	24.4	21.1	19.0	15.9
80°	33.9	29.6	27.5	24.4	23.2	21.1	19.0	15.9	13.8	10.6	8.5
82.5°	23.2	20.1	18.0	15.9	14.9	13.8	11.6	9.5	7.4	6.4	5.2
85°	12.8	10.6	9.5	8.5	7.4	7.4	6.4	5.2	4.2	3.1	2.1
87.5°	4.2	3.1	3.1	3.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0
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°	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2
2.5°	814.1	814.1	814.1	813.1	813.1	813.1	812.0	816.2	812.0	811.0	814.1
5°	813.1	811.0	811.0	811.0	811.0	809.9	808.9	811.0	807.8	806.8	806.8
7.5°	806.8	805.6	805.6	804.6	803.5	802.5	801.5	802.5	799.4	798.2	798.2
10°	807.8	805.6	805.6	802.5	800.4	797.2	794.0	795.1	790.9	787.6	787.6
12.5°	795.1	789.8	786.6	783.5	781.4	780.2	776.0	778.1	773.9	772.9	772.9
15°	766.5	760.1	754.9	752.8	752.8	750.6	747.5	751.6	749.6	750.6	755.9
17.5°	722.0	718.9	715.8	714.6	715.8	717.8	719.9	726.2	726.2	729.5	734.8
20°	682.9	680.8	682.9	682.9	683.9	688.1	692.4	697.8	699.8	703.0	710.4
22.5°	644.8	644.8	646.9	650.0	649.0	656.4	657.5	667.0	667.0	673.4	679.8
25°	607.8	607.8	609.9	610.9	613.0	617.2	621.5	628.9	631.0	637.4	642.6
27.5°	571.8	570.6	570.6	571.8	573.9	579.1	581.2	589.8	592.9	597.1	602.4
30°	531.5	530.4	532.5	534.6	533.6	538.9	542.0	548.4	550.5	554.8	559.0
32.5°	493.4	493.4	493.4	495.5	495.5	499.8	499.8	507.1	507.1	510.2	514.5
35°	454.1	454.1	455.2	456.2	457.4	458.4	459.5	463.8	464.8	465.9	468.0
37.5°	417.1	416.1	417.1	417.1	415.0	419.2	419.2	423.5	420.2	423.5	424.5
40°	379.0	379.0	378.0	378.0	378.0	380.1	378.0	381.1	379.0	381.1	380.1
42.5°	339.9	339.9	337.8	339.9	338.8	338.8	338.8	340.9	337.8	339.9	340.9
45°	300.6	299.6	299.6	298.5	298.5	298.5	299.6	299.6	298.5	300.6	300.6
47.5°	262.5	261.5	261.5	261.5	261.5	262.5	259.4	261.5	259.4	259.4	259.4
50°	229.8	228.6	227.6	226.6	225.5	225.5	224.5	224.5	222.4	221.2	220.2
52.5°	198.0	196.9	194.8	194.8	193.8	192.6	189.5	189.5	186.4	185.2	185.2
55°	169.4	166.2	165.1	163.0	163.0	160.9	158.8	156.8	153.5	151.4	151.4
57.5°	142.9	139.8	137.6	136.6	135.5	133.4	129.1	128.1	123.9	122.8	121.8
60°	119.6	116.5	113.2	111.1	110.1	106.9	102.8	100.6	98.5	95.2	92.1
62.5°	97.4	94.2	90.0	88.9	86.9	83.6	80.5	77.2	75.1	72.0	69.9
65°	78.4	75.1	72.0	69.9	67.8	64.6	61.4	58.2	56.1	55.0	54.0
67.5°	63.5	59.2	56.1	55.0	52.9	50.9	47.6	46.6	44.5	44.5	44.5
70°	49.8	46.6	43.4	42.4	41.2	39.1	37.0	37.0	37.0	37.0	37.0
72.5°	37.0	34.9	31.8	30.8	29.6	28.6	26.5	27.5	26.5	26.5	26.5
75°	23.2	21.1	19.0	18.0	17.0	15.9	14.9	13.8	12.8	11.6	11.6
77.5°	12.8	10.6	9.5	8.5	8.5	7.4	6.4	6.4	5.2	5.2	5.2
80°	7.4	6.4	5.2	4.2	4.2	3.1	3.1	3.1	3.1	2.1	2.1
82.5°	4.2	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
85°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2
2.5°	808.9	812.0	808.9	812.0	812.0	812.0	812.0	808.9
5°	803.5	805.6	802.5	804.6	805.6	804.6	804.6	801.5
7.5°	794.0	796.1	793.0	796.1	797.2	796.1	795.1	793.0
10°	784.5	785.6	782.4	784.5	786.6	786.6	785.6	782.4
12.5°	769.6	772.9	769.6	771.8	773.9	775.0	775.0	771.8
15°	752.8	758.0	755.9	759.1	762.2	763.4	763.4	762.2
17.5°	735.8	741.1	737.9	743.2	746.4	748.5	749.6	747.5
20°	711.5	717.8	715.8	719.9	724.1	727.4	727.4	724.1
22.5°	679.8	688.1	687.1	690.2	695.6	696.6	698.8	696.6
25°	644.8	651.1	650.0	653.2	659.6	659.6	660.6	660.6
27.5°	604.5	610.9	609.9	611.9	616.1	617.2	618.2	616.1
30°	561.1	564.2	564.2	567.5	570.6	571.8	571.8	568.5
32.5°	513.5	517.8	519.9	518.8	522.0	524.0	523.0	523.0
35°	470.1	471.1	472.1	473.2	474.2	476.4	474.2	473.2
37.5°	423.5	426.6	424.5	426.6	428.8	427.8	426.6	426.6
40°	381.1	382.2	380.1	382.2	383.2	383.2	383.2	381.1
42.5°	338.8	340.9	338.8	340.9	340.9	340.9	340.9	339.9
45°	296.5	298.5	298.5	299.6	299.6	298.5	298.5	298.5
47.5°	257.2	259.4	257.2	259.4	260.5	258.4	258.4	258.4
50°	220.2	219.1	219.1	220.2	220.2	220.2	220.2	219.1
52.5°	182.1	183.1	183.1	183.1	184.2	183.1	184.2	184.2
55°	149.2	149.2	149.2	150.4	149.2	149.2	150.4	151.4
57.5°	119.6	118.6	117.5	117.5	118.6	117.5	117.5	117.5
60°	92.1	91.0	90.0	90.0	90.0	90.0	90.0	88.9
62.5°	68.9	68.9	68.9	69.9	69.9	69.9	69.9	70.9
65°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	56.1
67.5°	44.5	44.5	44.5	45.5	45.5	45.5	45.5	45.5
70°	37.0	37.0	38.1	37.0	38.1	38.1	38.1	38.1
72.5°	25.4	25.4	25.4	25.4	25.4	24.4	25.4	24.4
75°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	9.5
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)