

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: P252456

Luminaire Tested: **LE\_6B15D010 EC6B10208040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252456  
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\_6B15D010 EC6B10208040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1612.5 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

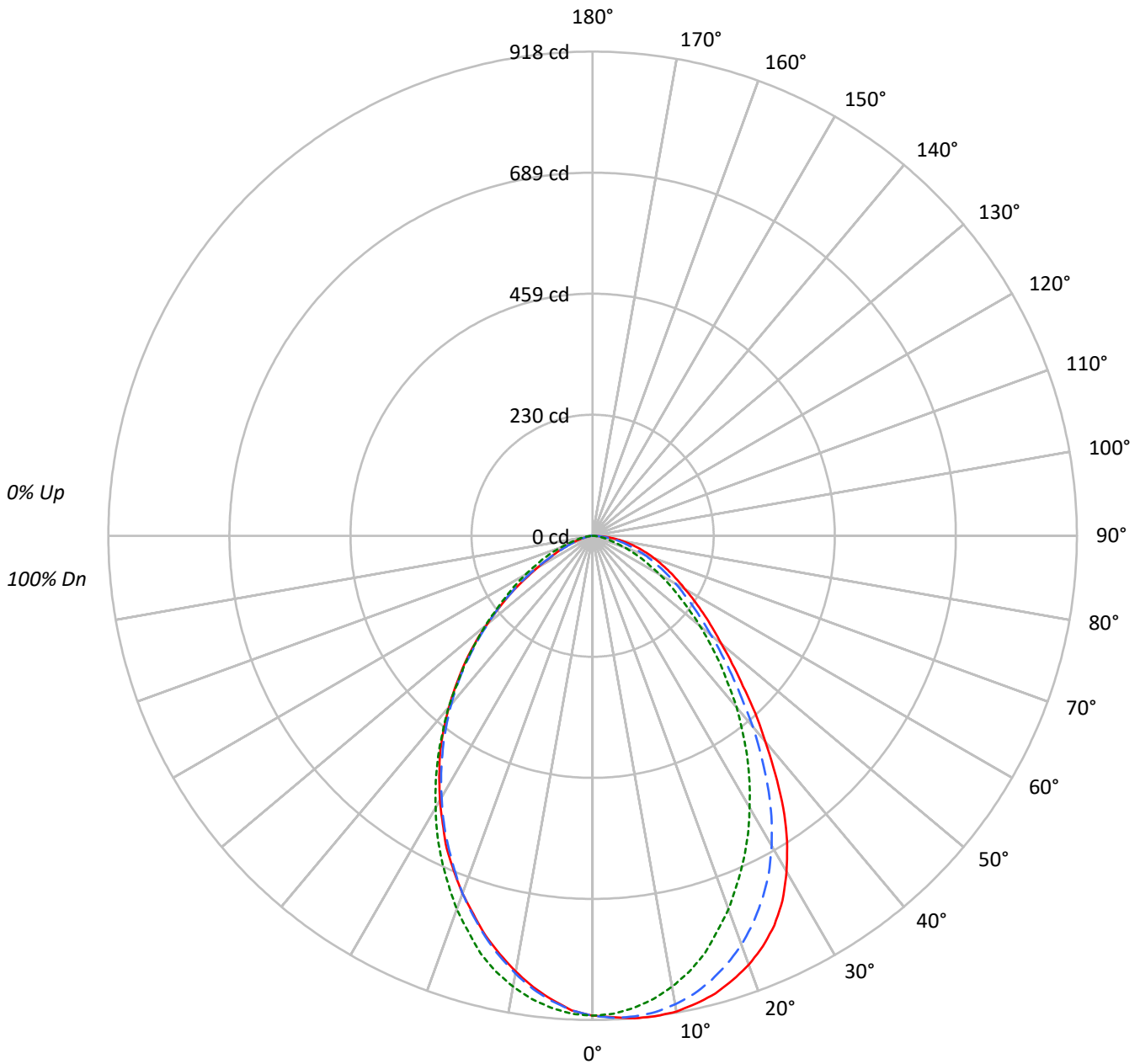
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	59356	59356	59356
5°	60152	58836	57834
10°	60682	57502	55575
15°	60680	55384	52994
20°	60090	52279	50085
25°	58661	48748	47114
30°	55400	44831	43588
35°	50216	40650	40149
40°	43358	36153	36042
45°	37182	31471	31702
50°	32316	26937	26541
55°	29027	22703	21270
60°	26370	19116	15658
65°	24777	15808	11501
70°	23634	12284	8431
75°	22636	8923	5747
80°	21378	6162	3795
85°	18864	3743	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	5.3
10°-20°	233.1	14.5
20°-30°	323.5	20.1
30°-40°	335.1	20.8
40°-50°	275.4	17.1
50°-60°	189.3	11.7
60°-70°	108.8	6.7
70°-80°	50.0	3.1
80°-90°	12.2	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°	641.7	39.8
0°-40°	976.8	60.6
0°-60°	1441.5	89.4
0°-90°	1612.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	910	910	910	910	910	
5°	918	915	898	886	883	88
15°	898	872	820	787	785	253
25°	815	761	677	648	654	373
35°	630	579	510	495	504	391
45°	403	373	341	337	344	314
55°	255	231	200	188	187	230
65°	160	140	102	72	74	160
75°	90	71	35	23	23	95
85°	25	18	5	2	2	28
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°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	913.5	921.0	916.0	914.8	917.2	917.2	917.2	913.5	916.0	912.2	914.8
5°	918.5	924.9	919.8	917.2	919.8	921.0	917.2	914.8	918.5	913.5	914.8
7.5°	918.5	924.9	919.8	918.5	919.8	919.8	918.5	913.5	916.0	911.0	911.0
10°	916.0	921.0	916.0	913.5	914.8	913.5	913.5	907.1	908.4	902.1	902.1
12.5°	908.4	914.8	908.4	905.9	905.9	905.9	902.1	897.0	898.4	890.8	889.5
15°	898.4	903.4	897.0	894.5	894.5	893.2	890.8	883.1	883.1	875.6	871.8
17.5°	883.1	888.2	883.1	879.4	878.1	875.6	873.0	865.5	863.0	854.1	850.2
20°	865.5	869.2	864.2	860.4	857.9	855.4	850.2	842.8	840.2	831.4	825.0
22.5°	842.8	847.8	840.2	836.4	833.9	830.1	825.0	817.5	813.6	802.2	794.8
25°	814.9	817.5	811.1	807.4	802.2	799.8	796.0	785.9	782.1	769.5	760.6
27.5°	779.5	782.1	774.5	772.0	765.6	763.1	758.1	749.2	744.1	731.5	722.8
30°	735.4	737.9	732.8	729.0	724.0	718.9	715.1	706.2	698.8	686.0	678.5
32.5°	686.0	689.9	684.8	679.8	670.9	672.1	665.9	657.0	650.6	639.2	630.5
35°	630.5	633.0	626.6	625.4	620.4	615.2	609.0	602.6	598.9	586.2	578.6
37.5°	568.5	574.9	568.5	563.5	561.0	557.1	553.4	544.5	542.0	534.5	524.4
40°	509.1	513.0	509.1	504.1	500.4	500.4	495.2	490.2	483.9	476.4	472.5
42.5°	456.1	453.6	452.4	449.8	444.8	443.5	442.2	435.9	432.1	424.5	418.2
45°	403.0	404.2	401.8	400.5	396.8	394.2	391.6	386.6	385.4	377.8	372.8
47.5°	358.9	357.5	355.0	355.0	352.5	350.0	347.5	343.6	342.4	336.1	331.0
50°	318.4	319.6	318.4	317.1	313.4	312.1	309.5	307.0	304.5	298.1	293.1
52.5°	285.5	284.2	283.0	283.0	279.2	278.0	275.4	272.9	270.4	264.0	260.2
55°	255.2	255.2	254.0	252.8	248.9	247.6	246.4	243.9	240.0	235.0	231.2
57.5°	227.4	227.4	226.1	224.9	222.4	222.4	219.9	217.4	214.8	209.8	204.6
60°	202.1	203.4	202.1	200.9	198.4	198.4	197.1	193.2	192.0	185.8	182.0
62.5°	180.6	180.6	180.6	179.4	178.1	175.6	175.6	171.9	169.2	165.5	160.5
65°	160.5	160.5	160.5	159.2	156.6	155.4	154.1	151.6	149.1	145.2	140.2
67.5°	141.5	141.5	141.5	140.2	137.8	136.5	135.2	133.9	130.1	126.4	121.2
70°	123.9	123.9	122.5	121.2	120.0	118.8	117.5	115.0	112.5	107.4	103.6
72.5°	106.1	106.1	106.1	103.6	102.4	102.4	99.9	98.5	96.0	91.0	87.1
75°	89.8	88.5	88.5	87.1	85.9	84.6	83.4	82.1	78.4	75.8	70.8
77.5°	73.2	73.2	72.0	70.8	70.8	69.5	68.2	65.8	64.4	60.6	56.9
80°	56.9	56.9	56.9	56.9	55.6	54.4	54.4	51.8	50.5	46.8	44.2
82.5°	43.0	41.8	41.8	41.8	40.4	39.1	39.1	37.9	36.6	34.1	31.6
85°	25.2	24.0	24.0	24.0	22.8	22.8	21.5	21.5	20.2	17.8	17.8
87.5°	7.6	7.6	8.9	8.9	7.6	7.6	7.6	7.6	7.6	6.4	6.4
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°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	912.2	916.0	911.0	909.8	914.8	912.2	911.0	908.4	909.8	907.1	903.4
5°	911.0	916.0	909.8	905.9	912.2	908.4	905.9	903.4	903.4	898.4	895.8
7.5°	907.1	909.8	903.4	899.6	903.4	899.6	897.0	893.2	892.0	885.6	881.9
10°	897.0	899.6	892.0	887.0	890.8	885.6	881.9	878.1	875.6	868.0	863.0
12.5°	883.1	884.4	875.6	869.2	871.8	868.0	861.6	856.6	854.1	846.5	840.2
15°	864.2	865.5	855.4	846.5	849.0	844.0	836.4	831.4	827.6	820.0	811.1
17.5°	841.5	840.2	828.9	820.0	821.2	814.9	807.4	799.8	794.8	785.9	779.5
20°	816.2	812.4	799.8	789.6	790.9	783.4	774.5	766.9	760.6	753.0	744.1
22.5°	784.6	779.5	768.1	755.5	756.8	750.5	737.9	731.5	725.2	715.1	707.5
25°	750.5	742.9	731.5	718.9	718.9	711.4	701.2	693.6	687.4	677.2	668.4
27.5°	710.1	706.2	691.1	681.0	679.8	672.1	663.4	654.5	646.9	638.0	629.2
30°	665.9	659.5	648.1	636.8	634.2	628.0	619.1	609.0	603.9	595.1	587.5
32.5°	619.1	612.8	600.1	588.8	587.5	582.5	574.9	564.8	559.8	553.4	548.4
35°	566.0	563.5	550.9	542.0	542.0	537.0	529.4	520.5	516.8	510.4	504.1
37.5°	515.5	511.8	500.4	492.8	492.8	486.4	478.9	475.0	471.2	466.2	462.4
40°	462.4	459.9	451.0	443.5	444.8	439.6	434.6	429.6	427.0	424.5	420.8
42.5°	413.1	410.6	404.2	398.0	398.0	394.2	389.1	385.4	382.9	379.0	377.8
45°	368.9	365.1	360.1	353.8	353.8	350.0	347.5	344.9	343.6	341.1	337.4
47.5°	326.0	323.5	318.4	312.1	312.1	312.1	307.0	303.2	303.2	300.8	299.5
50°	289.4	285.5	281.8	276.8	276.8	274.1	270.4	266.6	266.6	265.4	262.8
52.5°	255.2	252.8	247.6	242.6	242.6	240.0	236.2	235.0	233.8	230.0	228.6
55°	226.1	223.6	219.9	213.5	212.2	211.0	207.2	204.6	203.4	199.6	199.6
57.5°	199.6	197.1	190.8	187.0	185.8	183.2	179.4	176.9	175.6	173.1	170.6
60°	176.9	173.1	168.0	163.0	161.8	159.2	155.4	152.9	151.6	146.5	144.0
62.5°	155.4	151.6	146.5	141.5	140.2	137.8	132.6	130.1	127.6	122.5	120.0
65°	135.2	131.4	126.4	121.2	118.8	117.5	112.5	108.6	106.1	102.4	97.2
67.5°	116.2	112.5	107.4	101.1	101.1	97.2	93.5	89.8	85.9	82.1	78.4
70°	98.5	94.8	89.8	84.6	83.4	80.9	77.1	72.0	69.5	64.4	60.6
72.5°	82.1	78.4	73.2	68.2	67.0	64.4	60.6	55.6	51.8	48.0	44.2
75°	67.0	63.1	58.1	54.4	53.1	50.5	46.8	41.8	37.9	35.4	31.6
77.5°	53.1	49.2	45.5	41.8	40.4	37.9	34.1	31.6	27.8	25.2	21.5
80°	40.4	37.9	34.1	31.6	30.4	27.8	25.2	21.5	19.0	16.4	15.1
82.5°	29.0	26.5	24.0	20.2	20.2	17.8	16.4	13.9	11.4	10.1	8.9
85°	16.4	13.9	12.6	11.4	10.1	10.1	8.9	7.6	6.4	5.0	5.0
87.5°	5.0	5.0	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5
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°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	903.4	904.6	902.1	904.6	902.1	903.4	900.9	903.4	900.9	903.4	898.4
5°	894.5	894.5	890.8	893.2	890.8	892.0	887.0	888.2	885.6	888.2	883.1
7.5°	879.4	880.6	874.2	876.9	873.0	873.0	869.2	870.5	866.8	868.0	864.2
10°	861.6	860.4	854.1	856.6	851.6	851.6	847.8	847.8	842.8	844.0	838.9
12.5°	836.4	835.1	827.6	830.1	825.0	825.0	821.2	821.2	816.2	818.8	813.6
15°	807.4	806.1	798.5	799.8	794.8	794.8	789.6	790.9	787.1	789.6	784.6
17.5°	774.5	773.2	765.6	766.9	760.6	761.9	758.1	756.8	754.2	755.5	751.8
20°	740.4	737.9	730.2	731.5	729.0	725.2	722.8	724.0	721.4	724.0	720.1
22.5°	705.0	700.0	693.6	693.6	691.1	691.1	687.4	689.9	684.8	688.6	686.0
25°	664.6	660.8	655.8	658.2	653.2	653.2	649.4	650.6	648.1	650.6	648.1
27.5°	625.4	622.9	615.2	617.9	614.0	615.2	611.5	612.8	611.5	614.0	611.5
30°	583.8	582.5	577.4	577.4	576.1	574.9	573.6	573.6	572.4	576.1	573.6
32.5°	544.5	540.8	535.8	539.5	533.1	537.0	534.5	537.0	534.5	537.0	535.8
35°	504.1	502.9	496.5	497.8	496.5	496.5	495.2	495.2	495.2	499.1	499.1
37.5°	461.1	459.9	456.1	457.4	454.9	453.6	453.6	456.1	456.1	458.6	458.6
40°	419.5	420.8	417.0	417.0	415.6	415.6	415.6	418.2	417.0	419.5	418.2
42.5°	377.8	377.8	374.0	375.2	374.0	375.2	375.2	377.8	377.8	379.0	377.8
45°	338.6	338.6	337.4	338.6	336.1	337.4	336.1	338.6	337.4	338.6	338.6
47.5°	299.5	299.5	299.5	298.1	298.1	298.1	298.1	298.1	296.9	299.5	298.1
50°	262.8	264.0	262.8	262.8	261.5	262.8	261.5	261.5	259.0	260.2	260.2
52.5°	230.0	230.0	227.4	227.4	227.4	226.1	226.1	226.1	224.9	224.9	222.4
55°	198.4	198.4	195.9	195.9	194.6	193.2	192.0	192.0	188.2	188.2	184.5
57.5°	169.2	168.0	164.2	164.2	161.8	160.5	159.2	157.9	155.4	152.9	151.6
60°	142.8	140.2	137.8	136.5	133.9	131.4	128.9	126.4	123.9	122.5	121.2
62.5°	117.5	113.8	111.1	109.9	107.4	103.6	101.1	98.5	96.0	94.8	92.2
65°	94.8	91.0	87.1	85.9	83.4	80.9	77.1	74.5	72.0	70.8	70.8
67.5°	74.5	70.8	65.8	65.8	63.1	60.6	58.1	55.6	54.4	55.6	55.6
70°	55.6	53.1	49.2	48.0	45.5	43.0	41.8	41.8	41.8	43.0	41.8
72.5°	41.8	37.9	35.4	34.1	32.9	31.6	31.6	31.6	30.4	31.6	31.6
75°	29.0	26.5	24.0	24.0	22.8	22.8	22.8	22.8	22.8	22.8	22.8
77.5°	20.2	17.8	16.4	16.4	16.4	15.1	15.1	15.1	15.1	15.1	15.1
80°	12.6	12.6	11.4	11.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	7.6	7.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	898.4	902.1	897.0	900.9	899.6	898.4	895.8	900.9
5°	883.1	884.4	879.4	884.4	883.1	880.6	878.1	883.1
7.5°	861.6	865.5	859.1	864.2	863.0	860.4	857.9	863.0
10°	837.6	841.5	836.4	840.2	840.2	837.6	833.9	838.9
12.5°	811.1	813.6	808.6	813.6	812.4	809.9	808.6	812.4
15°	782.1	785.9	780.9	784.6	783.4	782.1	780.9	784.6
17.5°	750.5	754.2	750.5	754.2	754.2	750.5	749.2	751.8
20°	718.9	721.4	717.6	721.4	720.1	720.1	717.6	721.4
22.5°	683.5	687.4	684.8	687.4	686.0	686.0	684.8	687.4
25°	648.1	652.0	648.1	652.0	650.6	650.6	648.1	654.5
27.5°	612.8	615.2	611.5	616.6	615.2	612.8	614.0	615.2
30°	574.9	577.4	574.9	578.6	578.6	578.6	576.1	578.6
32.5°	537.0	540.8	537.0	540.8	539.5	539.5	538.2	540.8
35°	499.1	500.4	497.8	501.6	501.6	502.9	500.4	504.1
37.5°	459.9	461.1	459.9	461.1	463.8	459.9	462.4	463.8
40°	419.5	422.0	420.8	422.0	422.0	423.2	422.0	423.2
42.5°	379.0	381.6	379.0	382.9	381.6	381.6	382.9	382.9
45°	337.4	341.1	338.6	341.1	342.4	341.1	341.1	343.6
47.5°	298.1	300.8	299.5	300.8	300.8	300.8	300.8	303.2
50°	259.0	260.2	260.2	261.5	261.5	262.8	260.2	261.5
52.5°	219.9	222.4	222.4	222.4	221.1	222.4	222.4	222.4
55°	184.5	185.8	183.2	185.8	185.8	184.5	184.5	187.0
57.5°	150.4	150.4	150.4	150.4	150.4	149.1	150.4	150.4
60°	118.8	120.0	118.8	118.8	118.8	118.8	117.5	120.0
62.5°	92.2	92.2	91.0	92.2	92.2	92.2	93.5	93.5
65°	72.0	73.2	72.0	73.2	73.2	73.2	73.2	74.5
67.5°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
70°	43.0	43.0	43.0	44.2	43.0	43.0	43.0	44.2
72.5°	31.6	31.6	31.6	31.6	31.6	31.6	32.9	32.9
75°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
77.5°	15.1	15.1	15.1	16.4	15.1	16.4	15.1	15.1
80°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
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)