

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: P252152

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209727 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1666.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

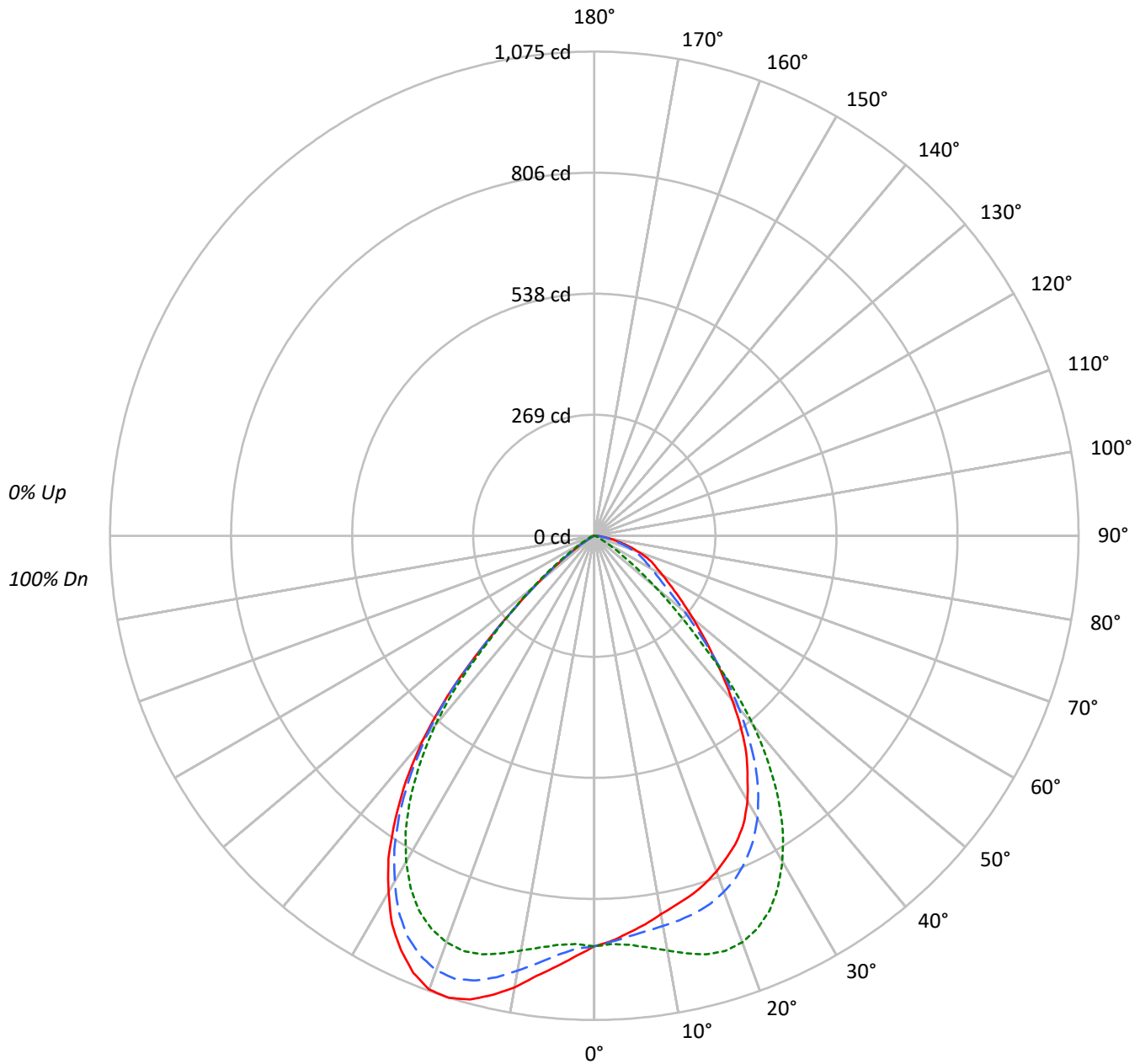
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	103		109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89		102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	89	83	78		95	88	82	78		85	80	76		83	78	75		80	77	74
4	91	82	75	69		89	80	74	69		78	72	68		76	71	67		74	70	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	61	56		78	68	61	56		66	60	55		64	59	55		63	58	54
7	74	63	56	51		73	62	55	50		61	55	50		60	54	50		58	53	50
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	42		64	54	47	42		53	46	42		52	46	42		51	45	42
10	62	50	43	39		61	50	43	39		49	43	39		48	43	39		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59473	59473	59473
5°	57926	59701	62837
10°	56515	61948	67433
15°	55857	64982	71993
20°	55056	66678	74419
25°	53888	66183	73079
30°	51212	62896	68810
35°	46847	56707	61422
40°	40530	46833	50401
45°	34175	30715	32957
50°	29018	17772	16727
55°	25183	8531	6438
60°	22730	3980	1592
65°	22060	2300	540
70°	19800	1831	496
75°	16259	1311	227
80°	12098	676	0
85°	10480	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	5.3
10°-20°	268.3	16.1
20°-30°	410.0	24.6
30°-40°	428.8	25.7
40°-50°	278.2	16.7
50°-60°	110.5	6.6
60°-70°	52.4	3.1
70°-80°	24.9	1.5
80°-90°	5.1	0.3
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°	766.4	46.0
0°-40°	1195.2	71.7
0°-60°	1583.9	95.1
0°-90°	1666.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	912	912	912	912	912	
5°	884	892	912	934	960	84
15°	827	867	962	1022	1066	233
25°	749	796	919	981	1015	343
35°	588	624	712	754	771	364
45°	370	367	333	353	357	288
55°	221	188	75	58	57	201
65°	143	118	15	4	4	140
75°	64	52	5	2	1	70
85°	14	9	0	0	0	16
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°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	900.2	902.0	892.4	889.8	896.8	899.4	900.2	897.6	898.5	902.0	902.0
5°	884.5	886.2	877.6	875.0	882.0	883.6	886.2	885.4	888.0	893.2	892.4
7.5°	869.8	872.4	862.8	859.2	868.0	872.4	874.1	874.1	877.6	884.5	885.4
10°	853.1	856.6	848.0	846.2	855.8	860.1	861.0	862.8	868.0	877.6	879.4
12.5°	839.2	842.8	836.6	834.0	844.5	848.9	850.6	854.0	860.1	872.4	874.1
15°	827.0	829.6	822.6	820.9	831.4	836.6	837.5	842.8	850.6	864.5	867.1
17.5°	811.4	813.1	807.9	806.1	816.6	821.8	822.6	828.8	838.4	852.2	856.6
20°	793.0	794.8	789.6	787.9	798.2	804.4	805.2	810.5	821.8	836.6	841.0
22.5°	771.2	774.8	768.6	766.9	777.4	782.6	785.2	789.6	800.9	815.8	821.8
25°	748.6	748.6	744.2	743.4	753.0	759.0	758.2	764.2	775.6	790.4	795.6
27.5°	719.0	718.1	713.8	712.9	723.4	728.5	726.9	732.9	743.4	758.2	763.4
30°	679.8	681.5	675.4	673.6	682.4	691.1	690.2	696.4	706.8	720.8	724.2
32.5°	632.8	634.5	633.6	631.0	638.8	643.1	645.8	650.1	658.9	673.6	677.1
35°	588.2	585.6	582.1	582.1	590.0	597.0	594.4	599.6	608.2	623.1	624.0
37.5°	533.4	532.5	530.8	529.0	537.8	539.5	540.4	543.8	551.6	563.9	562.1
40°	475.9	476.8	475.9	472.4	477.6	484.5	483.6	485.4	492.4	501.1	498.5
42.5°	421.8	421.8	421.8	418.2	424.4	427.9	429.6	428.8	430.5	438.4	434.9
45°	370.4	371.2	370.4	369.5	370.4	372.1	370.4	369.5	369.5	372.1	366.9
47.5°	325.9	325.9	323.4	320.8	323.4	324.2	321.6	319.0	318.1	317.2	308.5
50°	285.9	285.0	284.1	279.8	282.4	283.2	279.8	278.0	274.5	270.1	259.8
52.5°	251.0	250.1	249.2	244.9	246.6	247.5	244.0	240.5	236.1	232.6	219.6
55°	221.4	220.5	220.5	217.9	216.1	217.9	214.4	211.8	205.6	201.2	188.2
57.5°	196.1	196.1	194.4	191.8	192.6	192.6	189.1	185.6	180.4	175.1	164.8
60°	174.2	174.2	174.2	171.6	171.6	171.6	170.0	166.5	162.1	156.9	146.4
62.5°	156.9	156.9	156.0	153.4	154.2	154.2	152.5	149.0	144.6	141.1	130.8
65°	142.9	142.9	142.9	140.2	140.2	141.1	139.4	136.0	132.5	128.1	118.5
67.5°	125.5	124.6	124.6	122.9	123.8	124.6	122.9	120.2	115.9	113.2	104.6
70°	103.8	104.6	105.5	102.9	103.8	103.8	102.9	100.2	97.6	95.0	87.1
72.5°	84.5	84.5	83.6	82.8	82.8	83.6	81.9	79.2	77.5	75.9	69.8
75°	64.5	63.6	64.5	62.8	62.8	62.8	61.0	60.1	59.2	56.6	52.2
77.5°	47.0	46.2	46.2	44.5	45.4	45.4	44.5	42.8	41.0	40.1	36.6
80°	32.2	32.2	32.2	31.4	31.4	30.5	30.5	29.6	27.9	27.0	25.2
82.5°	21.8	21.8	21.8	20.9	20.9	20.9	20.0	19.1	18.2	17.4	15.6
85°	14.0	14.0	14.0	13.1	13.1	13.1	12.2	12.2	11.4	10.5	8.8
87.5°	7.9	7.9	7.9	7.0	7.0	7.0	7.0	7.0	6.1	5.2	4.4
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°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	908.1	895.9	903.8	903.8	901.1	908.1	912.5	915.9	915.0	907.2	906.4
5°	901.1	890.6	899.4	900.2	897.6	907.2	913.4	917.6	918.5	911.6	912.5
7.5°	895.9	887.1	898.5	902.0	901.1	909.9	916.8	923.8	927.2	922.0	922.9
10°	893.2	886.2	898.5	903.8	904.6	914.1	924.6	934.2	938.6	935.1	937.8
12.5°	889.8	885.4	899.4	907.2	910.8	920.2	933.4	944.6	951.6	949.9	955.1
15°	886.2	882.8	899.4	910.8	915.0	923.8	938.6	955.1	963.0	962.1	969.1
17.5°	877.6	876.8	894.1	906.4	912.5	922.9	936.9	956.9	964.8	966.5	975.2
20°	863.6	863.6	882.8	895.9	902.9	912.5	929.9	949.0	958.6	960.4	970.0
22.5°	844.5	846.2	864.5	877.6	888.0	895.0	913.4	933.4	942.1	944.6	955.1
25°	819.2	820.9	838.4	851.5	862.8	870.6	888.0	906.4	916.8	919.4	927.2
27.5°	786.1	789.6	806.1	819.2	828.8	834.0	852.2	871.5	879.4	882.0	889.8
30°	747.8	748.6	765.1	776.5	786.1	790.4	806.1	826.1	832.2	834.9	846.2
32.5°	700.6	699.8	715.5	726.0	733.8	739.0	755.6	768.6	774.8	779.1	785.2
35°	644.0	643.1	654.5	666.6	672.8	674.5	691.1	705.0	708.5	712.0	719.9
37.5°	580.4	580.4	590.0	596.1	603.1	605.6	613.5	629.2	635.2	634.5	640.5
40°	513.2	509.9	516.8	522.9	524.6	525.5	533.4	545.5	549.9	549.9	554.2
42.5°	442.8	437.5	438.4	441.9	443.6	437.5	442.8	450.5	448.0	451.4	452.2
45°	367.8	359.9	356.4	348.6	350.4	344.2	340.8	342.5	341.6	332.9	334.6
47.5°	306.8	292.9	286.8	275.4	272.8	265.8	261.5	253.6	246.6	246.6	242.2
50°	255.4	241.4	229.2	216.1	211.8	205.6	196.1	185.6	180.4	175.1	170.8
52.5°	214.4	199.6	184.8	170.8	164.8	156.9	143.8	133.4	123.8	118.5	113.2
55°	181.2	164.8	149.0	134.2	126.4	118.5	105.5	93.2	81.9	75.0	70.6
57.5°	156.0	140.2	123.8	108.1	101.1	92.4	78.4	65.4	54.9	47.0	42.8
60°	137.8	122.0	107.2	90.6	83.6	75.0	60.1	47.9	37.5	30.5	25.2
62.5°	122.0	108.1	92.4	77.5	70.6	61.9	47.9	35.8	26.1	19.1	14.9
65°	110.6	96.8	83.6	68.9	62.8	54.0	41.0	29.6	20.9	14.9	10.5
67.5°	97.6	85.4	72.4	60.1	54.0	47.0	34.9	25.2	17.4	12.2	8.8
70°	81.9	72.4	61.0	49.6	45.4	39.2	28.8	20.9	14.0	9.6	7.0
72.5°	65.4	57.5	48.8	40.1	36.6	30.5	23.5	16.5	10.5	7.0	5.2
75°	49.6	43.6	36.6	30.5	27.0	23.5	17.4	12.2	7.9	5.2	3.5
77.5°	34.0	31.4	26.1	20.9	19.1	16.5	11.4	7.9	5.2	3.5	1.8
80°	23.5	20.9	17.4	14.0	12.2	10.5	7.0	5.2	2.6	1.8	0.9
82.5°	14.9	12.2	10.5	8.8	7.9	6.1	4.4	2.6	1.8	0.9	0.9
85°	7.9	7.0	6.1	4.4	4.4	3.5	2.6	1.8	0.9	0.0	0.0
87.5°	4.4	3.5	2.6	1.8	1.8	0.9	0.9	0.9	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°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	916.8	916.8	915.9	926.4	914.1	926.4	920.2	926.4	917.6	916.8	917.6
5°	923.8	926.4	927.2	936.9	925.5	940.4	935.1	940.4	934.2	936.0	938.6
7.5°	937.8	942.1	941.2	953.4	942.1	958.6	955.1	963.0	956.9	958.6	962.1
10°	953.4	958.6	959.5	971.8	961.2	981.2	976.9	985.6	980.4	983.0	987.4
12.5°	971.8	977.8	978.6	992.6	981.2	1002.2	999.6	1008.2	1004.0	1006.5	1011.8
15°	985.6	994.4	996.1	1010.0	997.9	1019.6	1017.9	1029.2	1022.2	1026.6	1031.0
17.5°	992.6	1000.5	1004.0	1017.0	1006.5	1028.4	1026.6	1036.2	1031.0	1035.4	1040.5
20°	988.2	997.9	1000.5	1013.5	1003.1	1024.9	1022.2	1031.9	1026.6	1030.1	1035.4
22.5°	972.6	982.1	985.6	997.9	988.2	1008.2	1007.4	1016.1	1009.1	1013.5	1017.9
25°	944.6	955.1	956.9	968.2	957.8	978.6	976.9	986.5	981.2	983.9	990.0
27.5°	904.6	916.8	919.4	929.0	921.1	938.6	938.6	946.4	940.4	940.4	946.4
30°	856.6	868.9	870.6	878.5	871.5	887.1	888.0	895.9	886.2	891.5	892.4
32.5°	798.2	806.1	811.4	818.4	807.9	827.9	825.2	831.4	826.1	826.1	830.5
35°	727.8	737.2	739.9	748.6	739.9	755.6	755.6	759.0	753.9	753.9	760.8
37.5°	651.0	658.0	658.9	667.5	660.6	673.6	672.8	675.4	670.1	673.6	673.6
40°	561.2	566.5	568.2	572.6	571.8	581.2	580.4	582.1	579.5	580.4	582.1
42.5°	456.6	463.6	467.1	470.6	465.4	478.5	475.9	478.5	477.6	478.5	481.0
45°	336.4	341.6	344.2	345.1	343.4	351.2	357.2	352.1	353.0	351.2	354.8
47.5°	243.1	244.0	242.2	247.5	243.1	246.6	248.4	249.2	244.0	243.1	246.6
50°	166.5	170.8	164.8	167.4	166.5	170.0	168.2	169.1	163.9	166.5	164.8
52.5°	110.6	109.8	108.1	108.9	107.2	107.2	107.2	108.9	105.5	103.8	102.0
55°	67.1	65.4	61.9	61.0	61.0	61.9	60.1	58.4	58.4	57.5	57.5
57.5°	39.2	36.6	34.9	34.0	32.2	31.4	30.5	30.5	28.8	28.8	28.8
60°	21.8	19.1	17.4	15.6	15.6	14.9	14.0	13.1	13.1	13.1	12.2
62.5°	11.4	9.6	7.9	7.0	7.0	6.1	5.2	5.2	5.2	5.2	4.4
65°	7.9	6.1	5.2	4.4	4.4	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	6.1	5.2	4.4	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6
70°	5.2	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	925.5	924.6	925.5	927.2	923.8	934.2	929.0	934.2
5°	945.5	946.4	947.2	949.9	945.5	958.6	951.6	959.5
7.5°	971.8	972.6	973.5	976.0	973.5	986.5	978.6	985.6
10°	998.8	1000.5	1000.5	1004.9	1002.2	1014.4	1009.1	1017.9
12.5°	1024.0	1025.8	1027.5	1030.1	1028.4	1041.4	1037.1	1044.0
15°	1044.0	1047.5	1048.4	1051.9	1050.1	1064.1	1058.9	1065.9
17.5°	1053.6	1057.1	1057.1	1061.5	1059.8	1074.5	1067.6	1075.4
20°	1048.4	1051.0	1051.9	1056.2	1054.5	1069.2	1062.4	1071.9
22.5°	1031.9	1032.8	1033.6	1037.9	1037.1	1050.1	1044.0	1050.1
25°	1001.4	1004.0	1003.1	1006.5	1006.5	1017.0	1010.0	1015.2
27.5°	957.8	960.4	960.4	964.8	961.2	971.8	964.8	972.6
30°	904.6	907.2	905.5	909.0	905.5	915.9	910.8	913.4
32.5°	841.0	841.0	841.9	842.8	841.0	850.6	845.4	850.6
35°	765.1	766.9	767.8	768.6	766.9	773.9	767.8	771.2
37.5°	679.8	684.1	683.2	684.1	681.5	690.2	685.0	686.8
40°	588.2	588.2	587.4	589.1	586.5	593.5	590.0	591.8
42.5°	481.9	484.5	481.0	485.4	478.5	488.0	484.5	481.9
45°	361.6	358.1	357.2	358.1	355.6	356.4	359.0	357.2
47.5°	246.6	246.6	244.9	242.2	245.8	246.6	243.1	243.1
50°	165.6	165.6	163.9	163.0	164.8	163.9	162.1	164.8
52.5°	105.5	102.0	102.0	103.8	102.0	100.2	102.9	101.1
55°	57.5	55.8	55.8	57.5	55.8	55.8	54.9	56.6
57.5°	27.9	28.8	27.9	27.9	27.9	27.9	27.0	27.9
60°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
62.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	2.6	2.6	2.6	2.6	2.6	3.5	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	3.5	3.5	3.5	3.5	3.5	3.5
75°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)