

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: P252128

Luminaire Tested: **LE_6B10D010 EC6B10208027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252128
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_6B10D010 EC6B10208027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.5 lumens
Efficiency: N/A
Efficacy: 161.8 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

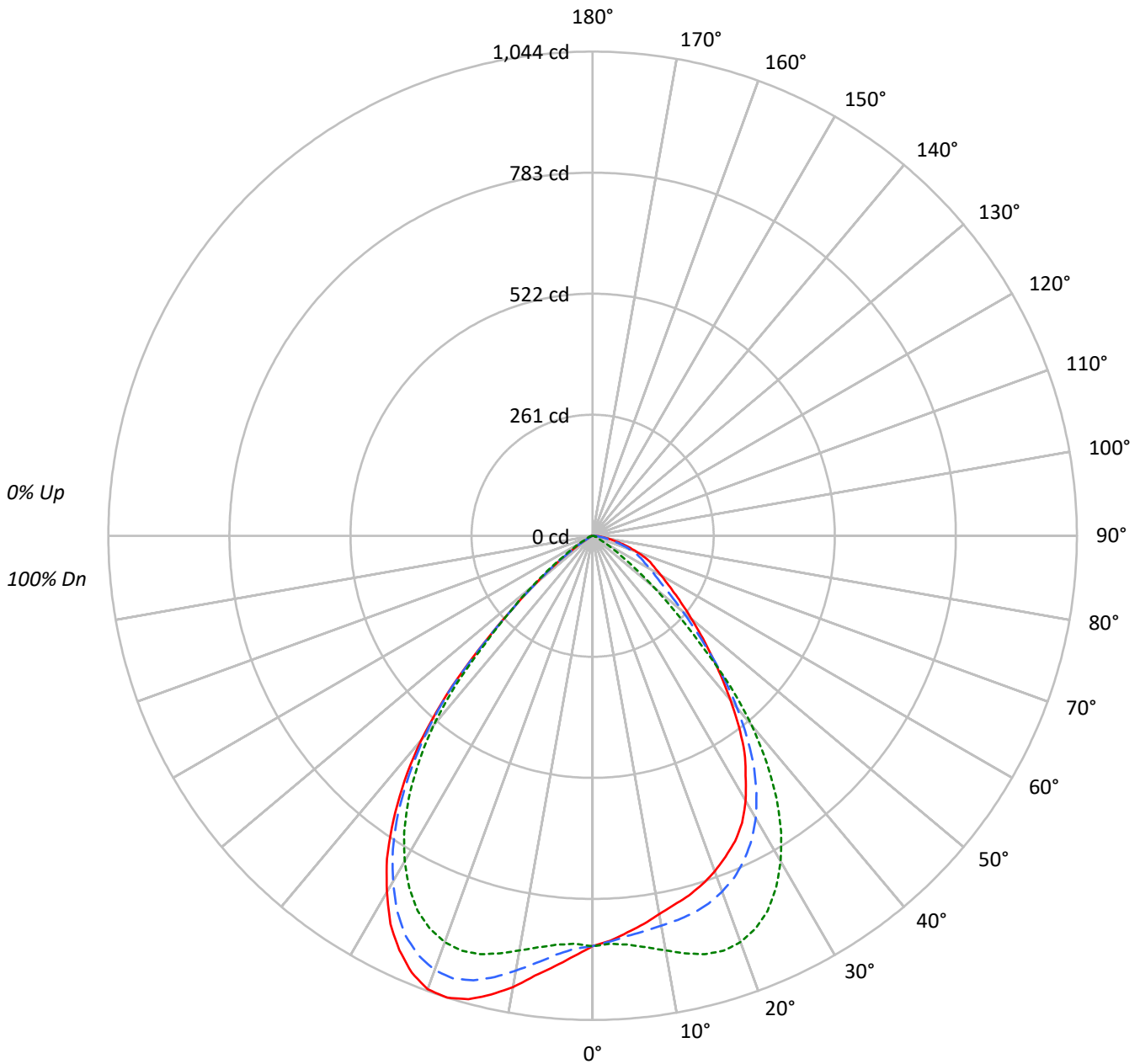
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57731	57731	57731
5°	56230	57952	60997
10°	54866	60139	65459
15°	54230	63084	69879
20°	53452	64720	72239
25°	52319	64247	70948
30°	49713	61058	66791
35°	45477	55042	59638
40°	39338	45470	48919
45°	33169	29811	32006
50°	28165	17254	16229
55°	24443	8281	6256
60°	22077	3862	1553
65°	21427	2223	525
70°	19190	1755	477
75°	15780	1286	227
80°	11722	676	0
85°	10105	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	5.3
10°-20°	260.5	16.1
20°-30°	398.0	24.6
30°-40°	416.3	25.7
40°-50°	270.0	16.7
50°-60°	107.2	6.6
60°-70°	50.9	3.1
70°-80°	24.2	1.5
80°-90°	4.9	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°	744.0	46.0
0°-40°	1160.3	71.7
0°-60°	1537.5	95.1
0°-90°	1617.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	885	885	885	885	885	
5°	859	866	885	907	931	81
15°	803	842	934	992	1035	226
25°	727	772	892	953	986	333
35°	571	606	691	732	749	353
45°	360	356	323	343	347	280
55°	215	183	73	57	55	195
65°	139	115	14	3	3	136
75°	63	51	5	2	1	67
85°	14	8	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°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9
2.5°	873.9	875.6	866.2	863.8	870.5	873.0	873.9	871.4	872.2	875.6	875.6
5°	858.6	860.4	851.9	849.4	856.1	857.9	860.4	859.5	862.0	867.1	866.2
7.5°	844.2	846.9	837.5	834.1	842.6	846.9	848.5	848.5	851.9	858.6	859.5
10°	828.2	831.6	823.1	821.5	830.8	835.0	835.9	837.5	842.6	851.9	853.6
12.5°	814.6	818.1	812.1	809.6	819.8	824.0	825.6	829.1	835.0	846.9	848.5
15°	802.9	805.4	798.6	796.9	807.1	812.1	813.0	818.1	825.6	839.2	841.8
17.5°	787.6	789.2	784.2	782.5	792.8	797.8	798.6	804.5	813.9	827.4	831.6
20°	769.9	771.5	766.5	764.8	774.9	780.9	781.8	786.8	797.8	812.1	816.4
22.5°	748.8	752.1	746.1	744.5	754.6	759.8	762.2	766.5	777.5	791.9	797.8
25°	726.8	726.8	722.5	721.6	730.9	736.9	736.0	741.9	752.9	767.2	772.4
27.5°	697.9	697.1	692.9	692.0	702.1	707.2	705.5	711.5	721.6	736.0	741.1
30°	659.9	661.5	655.6	654.0	662.4	670.9	670.0	676.0	686.1	699.6	703.0
32.5°	614.1	615.9	615.0	612.5	620.1	624.4	626.9	631.1	639.6	654.0	657.4
35°	571.0	568.5	565.1	565.1	572.8	579.5	577.0	582.0	590.5	604.9	605.8
37.5°	517.8	516.9	515.2	513.5	522.0	523.6	524.5	527.9	535.5	547.4	545.6
40°	461.9	462.8	461.9	458.5	463.6	470.4	469.5	471.2	478.0	486.5	483.9
42.5°	409.5	409.5	409.5	406.1	412.0	415.4	417.1	416.2	417.9	425.5	422.1
45°	359.5	360.4	359.5	358.8	359.5	361.2	359.5	358.8	358.8	361.2	356.1
47.5°	316.4	316.4	313.9	311.4	313.9	314.8	312.1	309.6	308.8	308.0	299.5
50°	277.5	276.6	275.8	271.5	274.1	275.0	271.5	269.9	266.5	262.2	252.1
52.5°	243.6	242.8	242.0	237.8	239.4	240.2	236.9	233.5	229.2	225.9	213.2
55°	214.9	214.0	214.0	211.5	209.8	211.5	208.1	205.6	199.6	195.4	182.8
57.5°	190.4	190.4	188.6	186.1	187.0	187.0	183.6	180.2	175.1	170.0	159.9
60°	169.2	169.2	169.2	166.6	166.6	166.6	165.0	161.6	157.4	152.2	142.1
62.5°	152.2	152.2	151.4	148.9	149.8	149.8	148.0	144.6	140.4	137.0	126.9
65°	138.8	138.8	138.8	136.2	136.2	137.0	135.4	132.0	128.6	124.4	115.0
67.5°	121.9	121.0	121.0	119.2	120.1	121.0	119.2	116.8	112.5	110.0	101.5
70°	100.6	101.5	102.4	99.9	100.6	100.6	99.9	97.2	94.8	92.2	84.6
72.5°	82.0	82.0	81.2	80.4	80.4	81.2	79.5	77.0	75.2	73.6	67.6
75°	62.6	61.8	62.6	60.9	60.9	60.9	59.2	58.4	57.5	55.0	50.8
77.5°	45.6	44.9	44.9	43.1	44.0	44.0	43.1	41.5	39.8	38.9	35.5
80°	31.2	31.2	31.2	30.5	30.5	29.6	29.6	28.8	27.1	26.2	24.5
82.5°	21.1	21.1	21.1	20.2	20.2	20.2	19.5	18.6	17.8	16.9	15.2
85°	13.5	13.5	13.5	12.8	12.8	12.8	11.9	11.9	11.0	10.1	8.5
87.5°	7.6	7.6	7.6	6.8	6.8	6.8	6.8	6.8	5.9	5.1	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°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9
2.5°	881.5	869.6	877.2	877.2	874.8	881.5	885.8	889.1	888.2	880.6	879.9
5°	874.8	864.6	873.0	873.9	871.4	880.6	886.6	890.9	891.6	884.9	885.8
7.5°	869.6	861.2	872.2	875.6	874.8	883.2	890.0	896.8	900.1	895.0	895.9
10°	867.1	860.4	872.2	877.2	878.1	887.5	897.6	906.9	911.1	907.8	910.2
12.5°	863.8	859.5	873.0	880.6	884.0	893.4	906.0	917.0	923.9	922.1	927.2
15°	860.4	857.0	873.0	884.0	888.2	896.8	911.1	927.2	934.9	934.0	940.8
17.5°	851.9	851.0	868.0	879.9	885.8	895.9	909.4	928.9	936.5	938.2	946.6
20°	838.4	838.4	857.0	869.6	876.5	885.8	902.6	921.2	930.6	932.2	941.6
22.5°	819.8	821.5	839.2	851.9	862.0	868.9	886.6	906.0	914.5	917.0	927.2
25°	795.2	796.9	813.9	826.5	837.5	845.1	862.0	879.9	890.0	892.5	900.1
27.5°	763.1	766.5	782.5	795.2	804.5	809.6	827.4	846.0	853.6	856.1	863.8
30°	725.9	726.8	742.8	753.8	763.1	767.2	782.5	802.0	807.9	810.5	821.5
32.5°	680.1	679.4	694.5	704.8	712.4	717.4	733.5	746.1	752.1	756.2	762.2
35°	625.1	624.4	635.4	647.1	653.1	654.8	670.9	684.4	687.8	691.1	698.8
37.5°	563.4	563.4	572.8	578.6	585.4	588.0	595.6	610.8	616.8	615.9	621.8
40°	498.2	494.9	501.6	507.6	509.2	510.1	517.8	529.6	533.9	533.9	538.0
42.5°	429.8	424.6	425.5	428.9	430.6	424.6	429.8	437.4	434.9	438.2	439.1
45°	357.0	349.4	346.0	338.4	340.1	334.1	330.8	332.5	331.6	323.1	324.9
47.5°	297.8	284.2	278.4	267.4	264.8	258.0	253.8	246.1	239.4	239.4	235.1
50°	247.9	234.4	222.5	209.8	205.6	199.6	190.4	180.2	175.1	170.0	165.9
52.5°	208.1	193.8	179.4	165.9	159.9	152.2	139.6	129.4	120.1	115.0	110.0
55°	176.0	159.9	144.6	130.2	122.6	115.0	102.4	90.5	79.5	72.8	68.5
57.5°	151.4	136.2	120.1	104.9	98.1	89.6	76.1	63.5	53.2	45.6	41.5
60°	133.6	118.5	104.0	88.0	81.2	72.8	58.4	46.5	36.4	29.6	24.5
62.5°	118.5	104.9	89.6	75.2	68.5	60.1	46.5	34.6	25.4	18.6	14.4
65°	107.5	93.9	81.2	66.9	60.9	52.5	39.8	28.8	20.2	14.4	10.1
67.5°	94.8	82.9	70.2	58.4	52.5	45.6	33.9	24.5	16.9	11.9	8.5
70°	79.5	70.2	59.2	48.2	44.0	38.1	27.9	20.2	13.5	9.2	6.8
72.5°	63.5	55.9	47.4	38.9	35.5	29.6	22.9	16.1	10.1	6.8	5.1
75°	48.2	42.2	35.5	29.6	26.2	22.9	16.9	11.9	7.6	5.1	3.4
77.5°	33.0	30.5	25.4	20.2	18.6	16.1	11.0	7.6	5.1	3.4	1.8
80°	22.9	20.2	16.9	13.5	11.9	10.1	6.8	5.1	2.5	1.8	0.9
82.5°	14.4	11.9	10.1	8.5	7.6	5.9	4.2	2.5	1.8	0.9	0.9
85°	7.6	6.8	5.9	4.2	4.2	3.4	2.5	1.8	0.9	0.0	0.0
87.5°	4.2	3.4	2.5	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°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9
2.5°	890.0	890.0	889.1	899.2	887.5	899.2	893.4	899.2	890.9	890.0	890.9
5°	896.8	899.2	900.1	909.4	898.4	912.9	907.8	912.9	906.9	908.6	911.1
7.5°	910.2	914.5	913.6	925.5	914.5	930.6	927.2	934.9	928.9	930.6	934.0
10°	925.5	930.6	931.4	943.2	933.1	952.6	948.4	956.8	951.8	954.2	958.5
12.5°	943.2	949.2	950.0	963.6	952.6	972.9	970.4	978.8	974.6	977.1	982.2
15°	956.8	965.2	967.0	980.5	968.6	989.8	988.1	999.1	992.4	996.6	1000.8
17.5°	963.6	971.2	974.6	987.2	977.1	998.2	996.6	1005.9	1000.8	1005.0	1010.1
20°	959.4	968.6	971.2	983.9	973.8	994.9	992.4	1001.6	996.6	1000.0	1005.0
22.5°	944.1	953.4	956.8	968.6	959.4	978.8	978.0	986.4	979.6	983.9	988.1
25°	917.0	927.2	928.9	939.9	929.8	950.0	948.4	957.6	952.6	955.1	961.0
27.5°	878.1	890.0	892.5	901.9	894.2	911.1	911.1	918.8	912.9	912.9	918.8
30°	831.6	843.5	845.1	852.8	846.0	861.2	862.0	869.6	860.4	865.5	866.2
32.5°	774.9	782.5	787.6	794.4	784.2	803.6	801.1	807.1	802.0	802.0	806.2
35°	706.4	715.8	718.2	726.8	718.2	733.5	733.5	736.9	731.8	731.8	738.5
37.5°	632.0	638.8	639.6	648.0	641.2	654.0	653.1	655.6	650.5	654.0	654.0
40°	544.9	549.9	551.6	555.8	555.0	564.2	563.4	565.1	562.6	563.4	565.1
42.5°	443.2	450.1	453.5	456.9	451.8	464.5	461.9	464.5	463.6	464.5	467.0
45°	326.5	331.6	334.1	335.0	333.4	340.9	346.9	341.8	342.6	340.9	344.4
47.5°	236.0	236.9	235.1	240.2	236.0	239.4	241.1	242.0	236.9	236.0	239.4
50°	161.6	165.9	159.9	162.4	161.6	165.0	163.2	164.1	159.0	161.6	159.9
52.5°	107.5	106.6	104.9	105.8	104.0	104.0	104.0	105.8	102.4	100.6	99.0
55°	65.1	63.5	60.1	59.2	59.2	60.1	58.4	56.6	56.6	55.9	55.9
57.5°	38.1	35.5	33.9	33.0	31.2	30.5	29.6	29.6	27.9	27.9	27.9
60°	21.1	18.6	16.9	15.2	15.2	14.4	13.5	12.8	12.8	12.8	11.9
62.5°	11.0	9.2	7.6	6.8	6.8	5.9	5.1	5.1	5.1	5.1	4.2
65°	7.6	5.9	5.1	4.2	4.2	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	5.9	5.1	4.2	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
70°	5.1	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.5	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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CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	884.9
2.5°	898.4	897.6	898.4	900.1	896.8	906.9	901.9	906.9
5°	917.9	918.8	919.6	922.1	917.9	930.6	923.9	931.4
7.5°	943.2	944.1	945.0	947.5	945.0	957.6	950.0	956.8
10°	969.5	971.2	971.2	975.4	972.9	984.8	979.6	988.1
12.5°	994.0	995.8	997.4	1000.0	998.2	1011.0	1006.8	1013.5
15°	1013.5	1016.9	1017.8	1021.1	1019.4	1033.0	1027.9	1034.6
17.5°	1022.8	1026.1	1026.1	1030.4	1028.8	1043.1	1036.4	1044.0
20°	1017.8	1020.2	1021.1	1025.4	1023.6	1038.0	1031.2	1040.5
22.5°	1001.6	1002.5	1003.4	1007.6	1006.8	1019.4	1013.5	1019.4
25°	972.0	974.6	973.8	977.1	977.1	987.2	980.5	985.6
27.5°	929.8	932.2	932.2	936.5	933.1	943.2	936.5	944.1
30°	878.1	880.6	879.0	882.4	879.0	889.1	884.0	886.6
32.5°	816.4	816.4	817.2	818.1	816.4	825.6	820.6	825.6
35°	742.8	744.5	745.4	746.1	744.5	751.2	745.4	748.8
37.5°	659.9	664.1	663.2	664.1	661.5	670.0	665.0	666.6
40°	571.0	571.0	570.2	571.9	569.4	576.1	572.8	574.4
42.5°	467.9	470.4	467.0	471.2	464.5	473.8	470.4	467.9
45°	351.1	347.8	346.9	347.8	345.1	346.0	348.5	346.9
47.5°	239.4	239.4	237.8	235.1	238.6	239.4	236.0	236.0
50°	160.8	160.8	159.0	158.2	159.9	159.0	157.4	159.9
52.5°	102.4	99.0	99.0	100.6	99.0	97.2	99.9	98.1
55°	55.9	54.1	54.1	55.9	54.1	54.1	53.2	55.0
57.5°	27.1	27.9	27.1	27.1	27.1	27.1	26.2	27.1
60°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
62.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	2.5	2.5	2.5	2.5	2.5	3.4	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4
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)