

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684853

Luminaire Tested: **LX6C15D010 EX6159030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C15D010 EX6159030 6LCSWLI
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

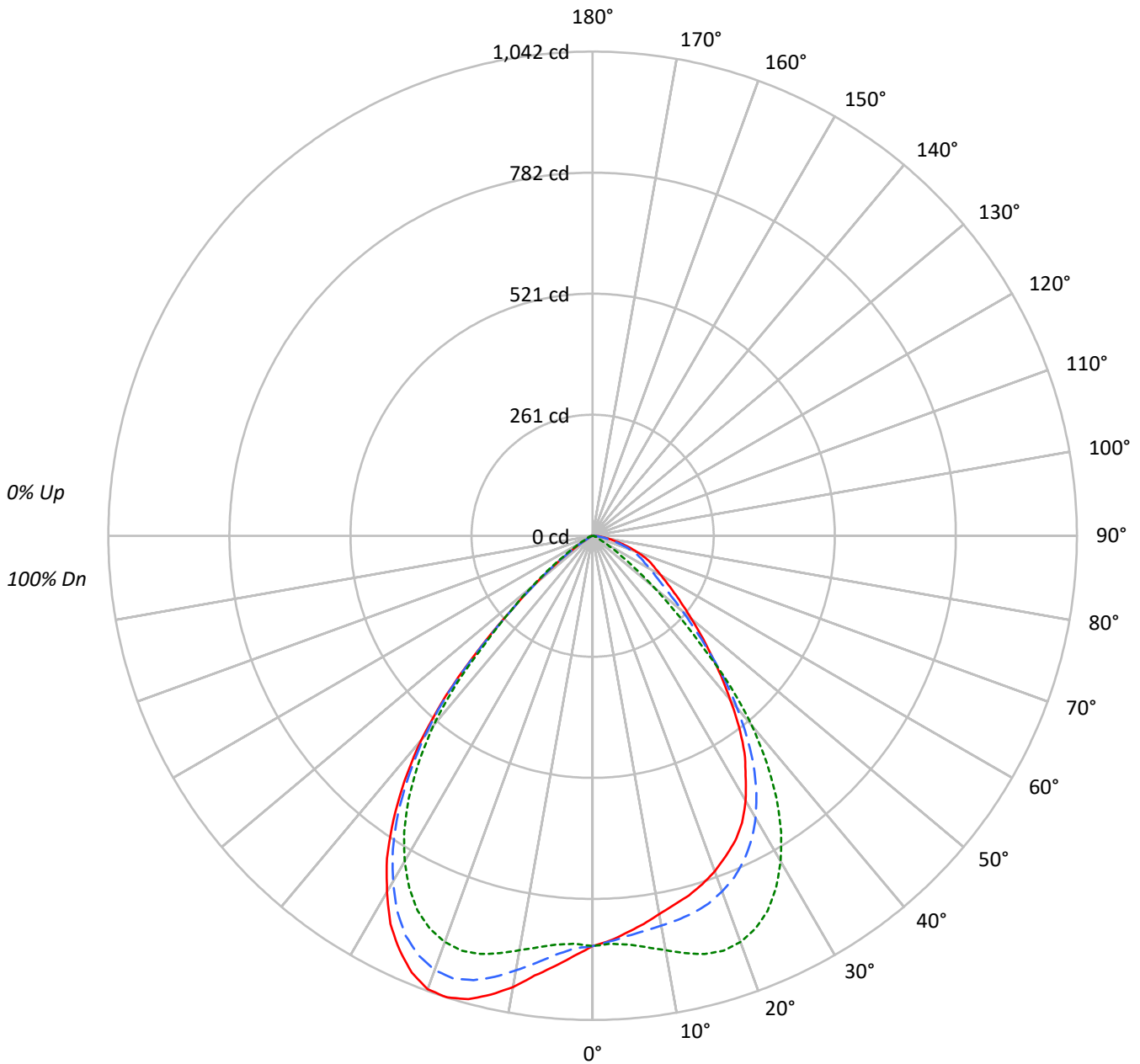
Lumens per Lamp: N/A
Luminaire Lumens: 1614.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
Input Current (A_{in}): 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°	48406	48406	48406
5°	47149	48591	51144
10°	46002	50422	54887
15°	45466	52889	58593
20°	44816	54272	60573
25°	43859	53870	59483
30°	41677	51191	56002
35°	38133	46157	49998
40°	32983	38114	41020
45°	27817	25003	26832
50°	23615	14473	13611
55°	20492	6939	5247
60°	18507	3234	1294
65°	17953	1855	441
70°	16108	1491	401
75°	13238	1080	191
80°	9850	537	0
85°	8491	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	5.3
10°-20°	259.9	16.1
20°-30°	397.1	24.6
30°-40°	415.4	25.7
40°-50°	269.5	16.7
50°-60°	107.0	6.6
60°-70°	50.8	3.1
70°-80°	24.1	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°	742.4	46.0
0°-40°	1157.7	71.7
0°-60°	1534.2	95.1
0°-90°	1614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	883	883	883	883	883	
5°	857	864	883	905	929	81
15°	801	840	932	990	1032	226
25°	725	771	891	950	983	332
35°	570	604	690	730	747	352
45°	359	355	322	342	346	279
55°	214	182	73	57	55	194
65°	138	115	14	3	3	135
75°	62	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°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	872.0	873.7	864.4	861.9	868.6	871.2	872.0	869.5	870.3	873.7	873.7
5°	856.8	858.5	850.1	847.5	854.3	856.0	858.5	857.7	860.2	865.3	864.4
7.5°	842.5	845.0	835.7	832.4	840.8	845.0	846.7	846.7	850.1	856.8	857.7
10°	826.4	829.8	821.4	819.7	829.0	833.2	834.0	835.7	840.8	850.1	851.7
12.5°	812.9	816.3	810.4	807.9	818.0	822.2	823.9	827.3	833.2	845.0	846.7
15°	801.1	803.6	796.9	795.2	805.3	810.4	811.2	816.3	823.9	837.4	839.9
17.5°	785.9	787.6	782.5	780.9	791.0	796.0	796.9	802.8	812.1	825.6	829.8
20°	768.2	769.9	764.8	763.1	773.2	779.1	780.0	785.1	796.0	810.4	814.6
22.5°	747.1	750.5	744.6	742.8	753.0	758.0	760.6	764.8	775.8	790.1	796.0
25°	725.1	725.1	720.9	720.1	729.4	735.3	734.4	740.3	751.3	765.7	770.7
27.5°	696.4	695.6	691.4	690.5	700.6	705.7	704.0	709.9	720.1	734.4	739.5
30°	658.4	660.1	654.2	652.5	661.0	669.4	668.6	674.5	684.6	698.1	701.5
32.5°	612.9	614.5	613.7	611.2	618.8	623.0	625.5	629.7	638.2	652.5	655.9
35°	569.8	567.3	563.9	563.9	571.5	578.2	575.7	580.8	589.2	603.6	604.4
37.5°	516.6	515.8	514.1	512.4	520.8	522.5	523.4	526.7	534.4	546.2	544.5
40°	460.9	461.7	460.9	457.5	462.6	469.4	468.5	470.2	476.9	485.4	482.9
42.5°	408.6	408.6	408.6	405.2	411.1	414.5	416.2	415.3	417.0	424.6	421.2
45°	358.8	359.6	358.8	357.9	358.8	360.5	358.8	357.9	357.9	360.5	355.4
47.5°	315.7	315.7	313.2	310.6	313.2	314.0	311.5	309.0	308.1	307.3	298.8
50°	276.9	276.0	275.2	271.0	273.5	274.4	271.0	269.3	265.9	261.7	251.6
52.5°	243.1	242.3	241.4	237.2	238.9	239.7	236.4	233.0	228.8	225.4	212.7
55°	214.4	213.6	213.6	211.1	209.3	211.1	207.7	205.1	199.2	195.0	182.3
57.5°	189.9	189.9	188.2	185.7	186.6	186.6	183.2	179.8	174.7	169.7	159.6
60°	168.8	168.8	168.8	166.3	166.3	166.3	164.6	161.2	157.0	151.9	141.8
62.5°	151.9	151.9	151.1	148.6	149.4	149.4	147.7	144.4	140.1	136.7	126.6
65°	138.4	138.4	138.4	135.9	135.9	136.7	135.1	131.7	128.3	124.1	114.8
67.5°	121.5	120.7	120.7	119.0	119.9	120.7	119.0	116.5	112.3	109.7	101.3
70°	100.5	101.3	102.1	99.6	100.5	100.5	99.6	97.1	94.5	92.0	84.4
72.5°	81.9	81.9	81.0	80.2	80.2	81.0	79.4	76.8	75.1	73.5	67.5
75°	62.5	61.6	62.5	60.8	60.8	60.8	59.1	58.3	57.4	54.9	50.6
77.5°	45.6	44.7	44.7	43.1	43.9	43.9	43.1	41.4	39.7	38.8	35.4
80°	31.2	31.2	31.2	30.4	30.4	29.5	29.5	28.7	27.0	26.2	24.5
82.5°	21.1	21.1	21.1	20.3	20.3	20.3	19.4	18.6	17.7	16.9	15.2
85°	13.5	13.5	13.5	12.7	12.7	12.7	11.8	11.8	11.0	10.1	8.4
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°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	879.6	867.8	875.4	875.4	872.9	879.6	883.8	887.2	886.4	878.8	877.9
5°	872.9	862.7	871.2	872.0	869.5	878.8	884.7	888.9	889.7	883.0	883.8
7.5°	867.8	859.4	870.3	873.7	872.9	881.3	888.1	894.8	898.2	893.1	894.0
10°	865.3	858.5	870.3	875.4	876.2	885.5	895.6	904.9	909.2	905.8	908.3
12.5°	861.9	857.7	871.2	878.8	882.1	891.4	904.1	915.1	921.8	920.1	925.2
15°	858.5	855.1	871.2	882.1	886.4	894.8	909.2	925.2	932.8	931.9	938.7
17.5°	850.1	849.2	866.1	877.9	883.8	894.0	907.5	926.9	934.5	936.2	944.6
20°	836.6	836.6	855.1	867.8	874.5	883.8	900.7	919.3	928.6	930.3	939.6
22.5°	818.0	819.7	837.4	850.1	860.2	866.9	884.7	904.1	912.5	915.1	925.2
25°	793.5	795.2	812.1	824.7	835.7	843.3	860.2	877.9	888.1	890.6	898.2
27.5°	761.4	764.8	780.9	793.5	802.8	807.9	825.6	844.2	851.7	854.3	861.9
30°	724.3	725.1	741.2	752.1	761.4	765.7	780.9	800.3	806.2	808.7	819.7
32.5°	678.7	677.9	693.1	703.2	710.8	715.8	731.9	744.6	750.5	754.7	760.6
35°	623.8	623.0	634.0	645.8	651.7	653.4	669.4	682.9	686.3	689.7	697.3
37.5°	562.2	562.2	571.5	577.4	584.1	586.7	594.3	609.5	615.4	614.5	620.4
40°	497.2	493.8	500.6	506.5	508.2	509.0	516.6	528.4	532.6	532.6	536.9
42.5°	428.8	423.8	424.6	428.0	429.7	423.8	428.8	436.4	433.9	437.3	438.1
45°	356.2	348.6	345.3	337.6	339.4	333.4	330.1	331.7	330.9	322.5	324.2
47.5°	297.1	283.6	277.7	266.8	264.2	257.5	253.3	245.6	238.9	238.9	234.7
50°	247.4	233.8	222.0	209.3	205.1	199.2	189.9	179.8	174.7	169.7	165.5
52.5°	207.7	193.3	178.9	165.5	159.6	151.9	139.3	129.2	119.9	114.8	109.7
55°	175.6	159.6	144.4	130.0	122.4	114.8	102.1	90.3	79.4	72.6	68.4
57.5°	151.1	135.9	119.9	104.7	97.9	89.5	76.0	63.3	53.2	45.6	41.4
60°	133.4	118.2	103.8	87.8	81.0	72.6	58.3	46.4	36.3	29.5	24.5
62.5°	118.2	104.7	89.5	75.1	68.4	59.9	46.4	34.6	25.3	18.6	14.3
65°	107.2	93.7	81.0	66.7	60.8	52.4	39.7	28.7	20.3	14.3	10.1
67.5°	94.5	82.7	70.1	58.3	52.4	45.6	33.8	24.5	16.9	11.8	8.4
70°	79.4	70.1	59.1	48.1	43.9	38.0	27.9	20.3	13.5	9.3	6.8
72.5°	63.3	55.7	47.3	38.8	35.4	29.5	22.8	16.1	10.1	6.8	5.1
75°	48.1	42.2	35.4	29.5	26.2	22.8	16.9	11.8	7.6	5.1	3.4
77.5°	32.9	30.4	25.3	20.3	18.6	16.1	11.0	7.6	5.1	3.4	1.7
80°	22.8	20.3	16.9	13.5	11.8	10.1	6.8	5.1	2.5	1.7	0.9
82.5°	14.3	11.8	10.1	8.4	7.6	5.9	4.2	2.5	1.7	0.9	0.9
85°	7.6	6.8	5.9	4.2	4.2	3.4	2.5	1.7	0.9	0.0	0.0
87.5°	4.2	3.4	2.5	1.7	1.7	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°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	888.1	888.1	887.2	897.3	885.5	897.3	891.4	897.3	888.9	888.1	888.9
5°	894.8	897.3	898.2	907.5	896.5	910.8	905.8	910.8	904.9	906.6	909.2
7.5°	908.3	912.5	911.7	923.5	912.5	928.6	925.2	932.8	926.9	928.6	931.9
10°	923.5	928.6	929.4	941.2	931.1	950.5	946.3	954.7	949.7	952.2	956.4
12.5°	941.2	947.1	948.0	961.5	950.5	970.8	968.2	976.7	972.5	975.0	980.1
15°	954.7	963.2	964.9	978.4	966.6	987.7	986.0	997.0	990.2	994.4	998.6
17.5°	961.5	969.1	972.5	985.1	975.0	996.1	994.4	1003.7	998.6	1002.9	1007.9
20°	957.3	966.6	969.1	981.8	971.6	992.7	990.2	999.5	994.4	997.8	1002.9
22.5°	942.1	951.4	954.7	966.6	957.3	976.7	975.9	984.3	977.5	981.8	986.0
25°	915.1	925.2	926.9	937.8	927.7	948.0	946.3	955.6	950.5	953.0	958.9
27.5°	876.2	888.1	890.6	899.9	892.3	909.2	909.2	916.7	910.8	910.8	916.7
30°	829.8	841.6	843.3	850.9	844.2	859.4	860.2	867.8	858.5	863.6	864.4
32.5°	773.2	780.9	785.9	792.7	782.5	802.0	799.4	805.3	800.3	800.3	804.5
35°	704.9	714.2	716.7	725.1	716.7	731.9	731.9	735.3	730.2	730.2	736.9
37.5°	630.6	637.4	638.2	646.6	639.9	652.5	651.7	654.2	649.2	652.5	652.5
40°	543.6	548.7	550.4	554.6	553.8	563.0	562.2	563.9	561.4	562.2	563.9
42.5°	442.4	449.1	452.5	455.8	450.8	463.4	460.9	463.4	462.6	463.4	466.0
45°	325.8	330.9	333.4	334.3	332.6	340.2	346.1	341.0	341.9	340.2	343.6
47.5°	235.5	236.4	234.7	239.7	235.5	238.9	240.6	241.4	236.4	235.5	238.9
50°	161.2	165.5	159.6	162.1	161.2	164.6	162.9	163.8	158.7	161.2	159.6
52.5°	107.2	106.4	104.7	105.5	103.8	103.8	103.8	105.5	102.1	100.5	98.8
55°	65.0	63.3	59.9	59.1	59.1	59.9	58.3	56.6	56.6	55.7	55.7
57.5°	38.0	35.4	33.8	32.9	31.2	30.4	29.5	29.5	27.9	27.9	27.9
60°	21.1	18.6	16.9	15.2	15.2	14.3	13.5	12.7	12.7	12.7	11.8
62.5°	11.0	9.3	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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: LX6C15D010 EX6159030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	896.5	895.6	896.5	898.2	894.8	904.9	899.9	904.9
5°	915.9	916.7	917.6	920.1	915.9	928.6	921.8	929.4
7.5°	941.2	942.1	942.9	945.5	942.9	955.6	948.0	954.7
10°	967.4	969.1	969.1	973.3	970.8	982.6	977.5	986.0
12.5°	991.9	993.6	995.3	997.8	996.1	1008.8	1004.5	1011.3
15°	1011.3	1014.7	1015.5	1018.9	1017.2	1030.7	1025.6	1032.4
17.5°	1020.6	1024.0	1024.0	1028.2	1026.5	1040.8	1034.1	1041.7
20°	1015.5	1018.1	1018.9	1023.1	1021.4	1035.8	1029.0	1038.3
22.5°	999.5	1000.3	1001.2	1005.4	1004.5	1017.2	1011.3	1017.2
25°	969.9	972.5	971.6	975.0	975.0	985.1	978.4	983.4
27.5°	927.7	930.3	930.3	934.5	931.1	941.2	934.5	942.1
30°	876.2	878.8	877.1	880.4	877.1	887.2	882.1	884.7
32.5°	814.6	814.6	815.4	816.3	814.6	823.9	818.8	823.9
35°	741.2	742.8	743.7	744.6	742.8	749.6	743.7	747.1
37.5°	658.4	662.7	661.8	662.7	660.1	668.6	663.5	665.2
40°	569.8	569.8	568.9	570.7	568.1	574.9	571.5	573.2
42.5°	466.8	469.4	466.0	470.2	463.4	472.7	469.4	466.8
45°	350.3	346.9	346.1	346.9	344.4	345.3	347.8	346.1
47.5°	238.9	238.9	237.2	234.7	238.1	238.9	235.5	235.5
50°	160.4	160.4	158.7	157.8	159.6	158.7	157.0	159.6
52.5°	102.1	98.8	98.8	100.5	98.8	97.1	99.6	97.9
55°	55.7	54.0	54.0	55.7	54.0	54.0	53.2	54.9
57.5°	27.0	27.9	27.0	27.0	27.0	27.0	26.2	27.0
60°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
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°	1.7	1.7	1.7	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)