

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: P252136

Luminaire Tested: **LE_6B10D010 EC6B10209035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252136
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 EC6B10209035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1466.2 lumens
Efficiency: N/A
Efficacy: 146.6 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

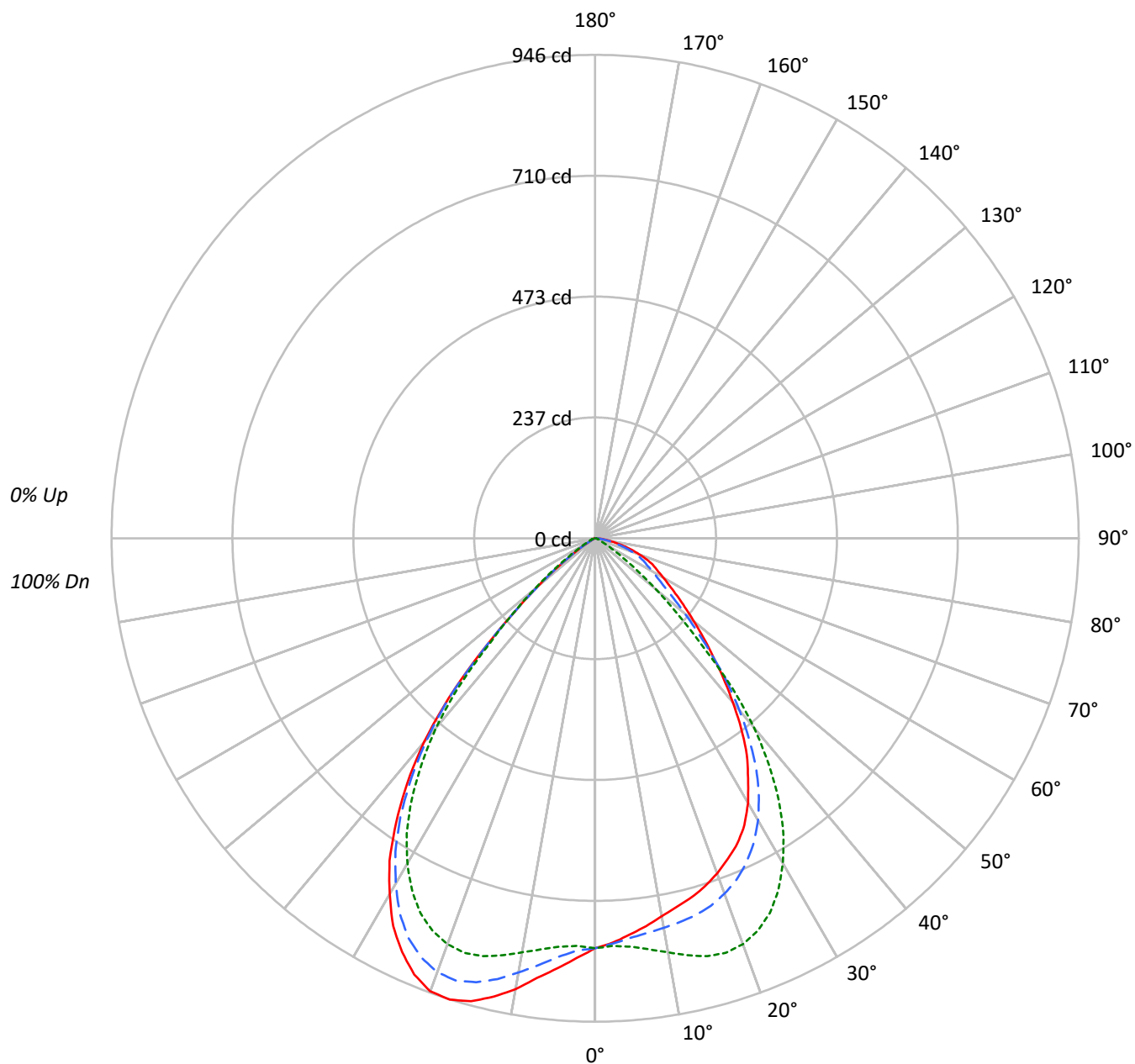
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	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°	52330	52330	52330
5°	50977	52529	55300
10°	49738	54515	59344
15°	49157	57181	63348
20°	48454	58673	65484
25°	47424	58236	64311
30°	45057	55340	60553
35°	41224	49897	54046
40°	35667	41212	44354
45°	30069	27033	29008
50°	25526	15641	14717
55°	22157	7507	5676
60°	20016	3510	1409
65°	19420	2007	479
70°	17396	1602	420
75°	14318	1160	202
80°	10670	564	0
85°	9132	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	5.3
10°-20°	236.1	16.1
20°-30°	360.8	24.6
30°-40°	377.4	25.7
40°-50°	244.8	16.7
50°-60°	97.2	6.6
60°-70°	46.1	3.1
70°-80°	21.9	1.5
80°-90°	4.5	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°	674.4	46.0
0°-40°	1051.8	71.7
0°-60°	1393.7	95.1
0°-90°	1466.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1466.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	802	802	802	802	802	
5°	778	785	802	822	844	73
15°	728	763	847	900	938	205
25°	659	700	809	864	893	302
35°	518	549	626	663	679	320
45°	326	323	293	311	314	254
55°	195	166	66	51	50	176
65°	126	104	13	3	3	123
75°	57	46	5	2	1	61
85°	12	8	0	0	0	14
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°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	792.1	793.8	785.2	783.0	789.1	791.4	792.1	789.9	790.6	793.8	793.8
5°	778.4	779.9	772.2	770.0	776.1	777.6	779.9	779.1	781.5	786.0	785.2
7.5°	765.4	767.6	759.2	756.1	763.8	767.6	769.1	769.1	772.2	778.4	779.1
10°	750.8	753.9	746.1	744.6	753.1	756.9	757.6	759.2	763.8	772.2	773.8
12.5°	738.5	741.6	736.2	733.9	743.1	747.0	748.5	751.5	756.9	767.6	769.1
15°	727.8	730.1	723.9	722.4	731.6	736.2	737.0	741.6	748.5	760.8	763.0
17.5°	714.0	715.5	710.9	709.4	718.6	723.1	723.9	729.2	737.8	750.0	753.9
20°	697.9	699.4	694.8	693.2	702.5	707.9	708.6	713.2	723.1	736.2	740.0
22.5°	678.6	681.8	676.4	674.9	684.0	688.6	691.0	694.8	704.8	717.8	723.1
25°	658.8	658.8	654.9	654.1	662.6	668.0	667.1	672.5	682.5	695.5	700.1
27.5°	632.6	631.9	628.1	627.2	636.5	641.1	639.6	645.0	654.1	667.1	671.8
30°	598.1	599.8	594.4	592.8	600.5	608.1	607.4	612.8	622.0	634.2	637.2
32.5°	556.8	558.2	557.5	555.2	562.1	566.0	568.2	572.1	579.8	592.8	595.9
35°	517.6	515.4	512.2	512.2	519.1	525.2	523.0	527.6	535.2	548.4	549.1
37.5°	469.4	468.5	467.0	465.5	473.1	474.8	475.5	478.5	485.4	496.1	494.6
40°	418.8	419.5	418.8	415.6	420.2	426.4	425.6	427.1	433.2	441.0	438.6
42.5°	371.1	371.1	371.1	368.1	373.5	376.5	378.1	377.2	378.9	385.8	382.6
45°	325.9	326.8	325.9	325.1	325.9	327.5	325.9	325.1	325.1	327.5	322.9
47.5°	286.8	286.8	284.5	282.2	284.5	285.2	283.0	280.6	279.9	279.1	271.5
50°	251.5	250.8	250.0	246.1	248.5	249.2	246.1	244.6	241.6	237.8	228.5
52.5°	220.9	220.1	219.4	215.5	217.0	217.8	214.8	211.6	207.9	204.8	193.2
55°	194.8	194.0	194.0	191.8	190.1	191.8	188.6	186.4	181.0	177.1	165.6
57.5°	172.5	172.5	171.0	168.8	169.5	169.5	166.4	163.4	158.8	154.1	145.0
60°	153.4	153.4	153.4	151.1	151.1	151.1	149.5	146.5	142.6	138.0	128.9
62.5°	138.0	138.0	137.2	135.0	135.8	135.8	134.2	131.1	127.2	124.2	115.0
65°	125.8	125.8	125.8	123.5	123.5	124.2	122.8	119.6	116.6	112.8	104.2
67.5°	110.4	109.6	109.6	108.1	108.9	109.6	108.1	105.9	102.0	99.8	92.0
70°	91.2	92.0	92.8	90.5	91.2	91.2	90.5	88.2	85.9	83.6	76.8
72.5°	74.4	74.4	73.6	72.9	72.9	73.6	72.1	69.8	68.2	66.8	61.4
75°	56.8	56.0	56.8	55.2	55.2	55.2	53.6	52.9	52.1	49.9	46.0
77.5°	41.4	40.6	40.6	39.1	39.9	39.9	39.1	37.6	36.0	35.2	32.2
80°	28.4	28.4	28.4	27.6	27.6	26.9	26.9	26.1	24.5	23.8	22.2
82.5°	19.1	19.1	19.1	18.4	18.4	18.4	17.6	16.9	16.1	15.4	13.8
85°	12.2	12.2	12.2	11.5	11.5	11.5	10.8	10.8	10.0	9.2	7.6
87.5°	6.9	6.9	6.9	6.1	6.1	6.1	6.1	6.1	5.4	4.6	3.9
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°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	799.1	788.4	795.2	795.2	793.0	799.1	802.9	806.0	805.2	798.4	797.5
5°	793.0	783.8	791.4	792.1	789.9	798.4	803.8	807.5	808.2	802.1	802.9
7.5°	788.4	780.6	790.6	793.8	793.0	800.6	806.8	812.9	816.0	811.4	812.1
10°	786.0	779.9	790.6	795.2	796.0	804.5	813.6	822.1	825.9	822.9	825.1
12.5°	783.0	779.1	791.4	798.4	801.4	809.9	821.4	831.2	837.4	835.9	840.5
15°	779.9	776.9	791.4	801.4	805.2	812.9	825.9	840.5	847.4	846.6	852.8
17.5°	772.2	771.5	786.9	797.5	802.9	812.1	824.4	842.0	848.9	850.5	858.1
20°	760.0	760.0	776.9	788.4	794.5	802.9	818.2	835.1	843.6	845.1	853.5
22.5°	743.1	744.6	760.8	772.2	781.5	787.6	803.8	821.4	829.0	831.2	840.5
25°	720.9	722.4	737.8	749.2	759.2	766.1	781.5	797.5	806.8	809.0	816.0
27.5°	691.8	694.8	709.4	720.9	729.2	733.9	750.0	766.9	773.8	776.1	783.0
30°	658.0	658.8	673.4	683.2	691.8	695.5	709.4	727.0	732.4	734.6	744.6
32.5°	616.6	615.8	629.6	638.8	645.8	650.4	664.9	676.4	681.8	685.6	691.0
35°	566.8	566.0	575.9	586.6	592.0	593.6	608.1	620.4	623.5	626.5	633.5
37.5°	510.8	510.8	519.1	524.5	530.6	533.0	539.9	553.6	559.0	558.2	563.6
40°	451.8	448.6	454.8	460.1	461.6	462.4	469.4	480.1	483.9	483.9	487.8
42.5°	389.6	385.0	385.8	388.8	390.4	385.0	389.6	396.5	394.1	397.2	398.0
45°	323.6	316.8	313.6	306.8	308.2	302.9	299.9	301.4	300.6	293.0	294.5
47.5°	270.0	257.6	252.2	242.4	240.0	233.9	230.1	223.1	217.0	217.0	213.2
50°	224.8	212.4	201.8	190.1	186.4	181.0	172.5	163.4	158.8	154.1	150.2
52.5°	188.6	175.6	162.6	150.2	145.0	138.0	126.5	117.4	108.9	104.2	99.8
55°	159.5	145.0	131.1	118.1	111.2	104.2	92.8	82.0	72.1	66.0	62.1
57.5°	137.2	123.5	108.9	95.1	89.0	81.2	69.0	57.5	48.4	41.4	37.6
60°	121.1	107.4	94.4	79.8	73.6	66.0	52.9	42.1	33.0	26.9	22.2
62.5°	107.4	95.1	81.2	68.2	62.1	54.5	42.1	31.5	23.0	16.9	13.0
65°	97.4	85.1	73.6	60.6	55.2	47.5	36.0	26.1	18.4	13.0	9.2
67.5°	85.9	75.1	63.6	52.9	47.5	41.4	30.6	22.2	15.4	10.8	7.6
70°	72.1	63.6	53.6	43.8	39.9	34.5	25.2	18.4	12.2	8.4	6.1
72.5°	57.5	50.6	43.0	35.2	32.2	26.9	20.8	14.6	9.2	6.1	4.6
75°	43.8	38.4	32.2	26.9	23.8	20.8	15.4	10.8	6.9	4.6	3.1
77.5°	29.9	27.6	23.0	18.4	16.9	14.6	10.0	6.9	4.6	3.1	1.5
80°	20.8	18.4	15.4	12.2	10.8	9.2	6.1	4.6	2.2	1.5	0.8
82.5°	13.0	10.8	9.2	7.6	6.9	5.4	3.9	2.2	1.5	0.8	0.8
85°	6.9	6.1	5.4	3.9	3.9	3.1	2.2	1.5	0.8	0.0	0.0
87.5°	3.9	3.1	2.2	1.5	1.5	0.8	0.8	0.8	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°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	806.8	806.8	806.0	815.2	804.5	815.2	809.9	815.2	807.5	806.8	807.5
5°	812.9	815.2	816.0	824.4	814.4	827.5	822.9	827.5	822.1	823.6	825.9
7.5°	825.1	829.0	828.2	839.0	829.0	843.6	840.5	847.4	842.0	843.6	846.6
10°	839.0	843.6	844.4	855.1	845.9	863.5	859.6	867.4	862.8	865.0	868.9
12.5°	855.1	860.4	861.2	873.5	863.5	881.9	879.6	887.2	883.5	885.8	890.4
15°	867.4	875.0	876.5	888.8	878.1	897.2	895.8	905.6	899.5	903.4	907.2
17.5°	873.5	880.4	883.5	895.0	885.8	904.9	903.4	911.9	907.2	911.0	915.6
20°	869.6	878.1	880.4	891.9	882.6	901.9	899.5	908.0	903.4	906.5	911.0
22.5°	855.9	864.2	867.4	878.1	869.6	887.2	886.5	894.1	888.0	891.9	895.8
25°	831.2	840.5	842.0	852.0	842.8	861.2	859.6	868.1	863.5	865.8	871.1
27.5°	796.0	806.8	809.0	817.5	810.6	825.9	825.9	832.9	827.5	827.5	832.9
30°	753.9	764.6	766.1	773.0	766.9	780.6	781.5	788.4	779.9	784.5	785.2
32.5°	702.5	709.4	714.0	720.1	710.9	728.5	726.2	731.6	727.0	727.0	730.9
35°	640.4	648.8	651.1	658.8	651.1	664.9	664.9	668.0	663.4	663.4	669.5
37.5°	572.9	579.0	579.8	587.4	581.2	592.8	592.0	594.4	589.8	592.8	592.8
40°	493.9	498.5	500.0	503.9	503.1	511.5	510.8	512.2	510.0	510.8	512.2
42.5°	401.9	408.0	411.0	414.1	409.5	421.0	418.8	421.0	420.2	421.0	423.4
45°	296.0	300.6	302.9	303.6	302.1	309.0	314.4	309.9	310.6	309.0	312.1
47.5°	214.0	214.8	213.2	217.8	214.0	217.0	218.5	219.4	214.8	214.0	217.0
50°	146.5	150.2	145.0	147.2	146.5	149.5	148.0	148.8	144.1	146.5	145.0
52.5°	97.4	96.6	95.1	95.9	94.4	94.4	94.4	95.9	92.8	91.2	89.8
55°	59.0	57.5	54.5	53.6	53.6	54.5	52.9	51.4	51.4	50.6	50.6
57.5°	34.5	32.2	30.6	29.9	28.4	27.6	26.9	26.9	25.2	25.2	25.2
60°	19.1	16.9	15.4	13.8	13.8	13.0	12.2	11.5	11.5	11.5	10.8
62.5°	10.0	8.4	6.9	6.1	6.1	5.4	4.6	4.6	4.6	4.6	3.9
65°	6.9	5.4	4.6	3.9	3.9	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	5.4	4.6	3.9	3.1	3.1	3.1	2.2	2.2	2.2	2.2	2.2
70°	4.6	3.1	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	3.1	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	0.8	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°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	814.4	813.6	814.4	816.0	812.9	822.1	817.5	822.1
5°	832.1	832.9	833.6	835.9	832.1	843.6	837.4	844.4
7.5°	855.1	855.9	856.6	858.9	856.6	868.1	861.2	867.4
10°	878.9	880.4	880.4	884.2	881.9	892.6	888.0	895.8
12.5°	901.1	902.6	904.1	906.5	904.9	916.4	912.6	918.8
15°	918.8	921.8	922.5	925.6	924.1	936.4	931.8	937.9
17.5°	927.1	930.2	930.2	934.0	932.5	945.5	939.4	946.4
20°	922.5	924.9	925.6	929.5	927.9	941.0	934.9	943.2
22.5°	908.0	908.8	909.5	913.4	912.6	924.1	918.8	924.1
25°	881.1	883.5	882.6	885.8	885.8	895.0	888.8	893.4
27.5°	842.8	845.1	845.1	848.9	845.9	855.1	848.9	855.9
30°	796.0	798.4	796.8	799.9	796.8	806.0	801.4	803.8
32.5°	740.0	740.0	740.8	741.6	740.0	748.5	743.9	748.5
35°	673.4	674.9	675.6	676.4	674.9	681.0	675.6	678.6
37.5°	598.1	602.0	601.2	602.0	599.8	607.4	602.8	604.2
40°	517.6	517.6	516.9	518.4	516.1	522.2	519.1	520.8
42.5°	424.1	426.4	423.4	427.1	421.0	429.5	426.4	424.1
45°	318.2	315.1	314.4	315.1	312.9	313.6	316.0	314.4
47.5°	217.0	217.0	215.5	213.2	216.2	217.0	214.0	214.0
50°	145.8	145.8	144.1	143.4	145.0	144.1	142.6	145.0
52.5°	92.8	89.8	89.8	91.2	89.8	88.2	90.5	89.0
55°	50.6	49.1	49.1	50.6	49.1	49.1	48.4	49.9
57.5°	24.5	25.2	24.5	24.5	24.5	24.5	23.8	24.5
60°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
62.5°	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.9
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	2.2	2.2	2.2	2.2	2.2	3.1	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
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)