

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: P252135

Luminaire Tested: **LE_6B10D010 EC6B10209030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252135
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 EC6B10209030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1445.0 lumens
Efficiency: N/A
Efficacy: 144.5 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

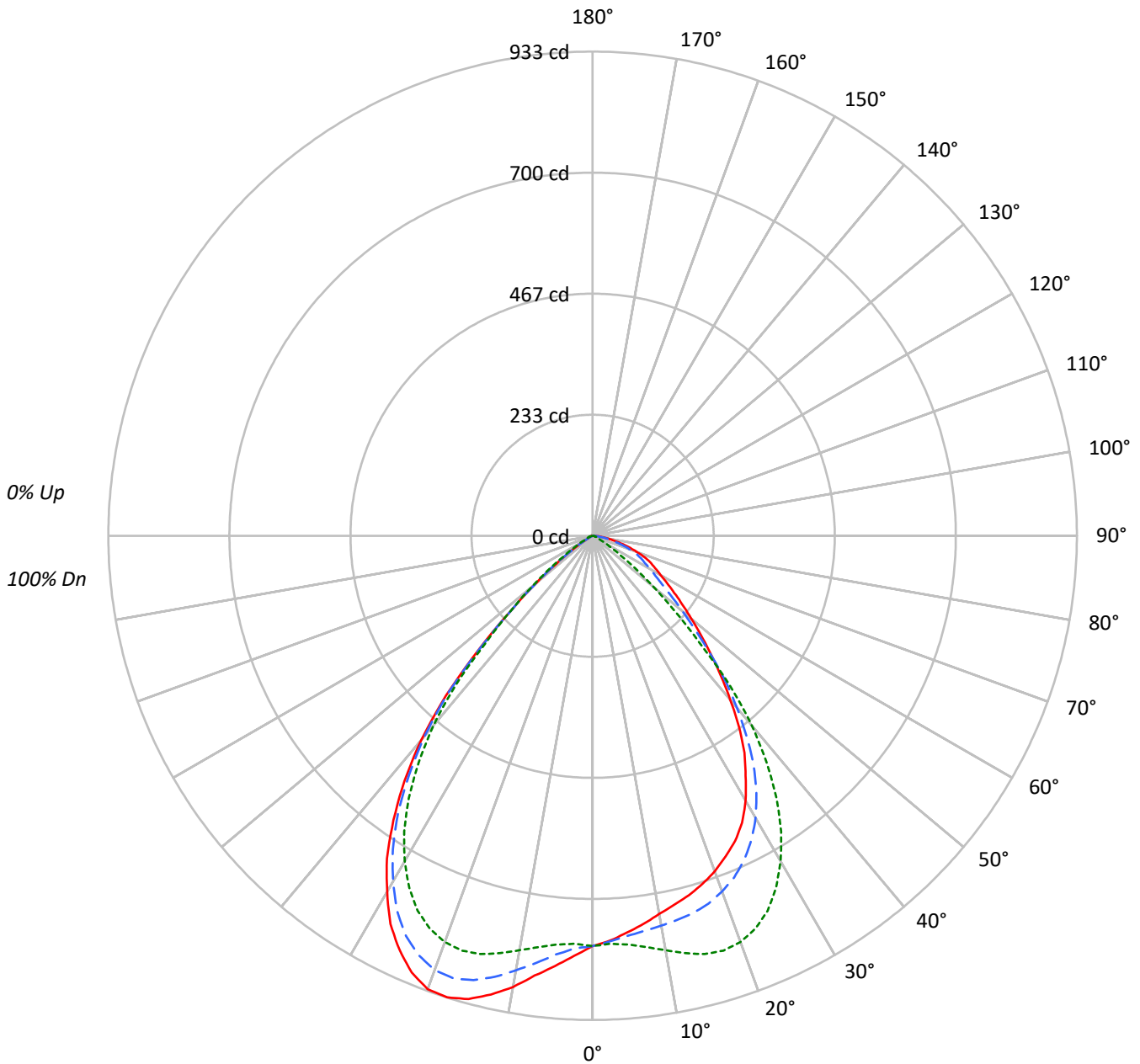
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51573	51573	51573
5°	50237	51770	54494
10°	49016	53720	58483
15°	48441	56357	62422
20°	47752	57826	64540
25°	46733	57401	63383
30°	44409	54541	59664
35°	40626	49180	53274
40°	35139	40615	43698
45°	29635	26646	28593
50°	25161	15417	14504
55°	21839	7393	5585
60°	19716	3458	1383
65°	19142	1991	463
70°	17148	1602	420
75°	14091	1134	202
80°	10520	564	0
85°	9057	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	5.3
10°-20°	232.7	16.1
20°-30°	355.6	24.6
30°-40°	371.9	25.7
40°-50°	241.2	16.7
50°-60°	95.8	6.6
60°-70°	45.4	3.1
70°-80°	21.6	1.5
80°-90°	4.4	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°	664.6	46.0
0°-40°	1036.5	71.7
0°-60°	1373.5	95.1
0°-90°	1445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1445.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	790	790	790	790	790	
5°	767	774	790	810	832	72
15°	717	752	834	886	924	202
25°	649	690	797	851	880	297
35°	510	541	618	654	669	315
45°	321	318	289	306	310	250
55°	192	163	65	51	49	174
65°	124	103	13	3	3	121
75°	56	45	4	2	1	60
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	780.8	782.2	773.9	771.6	777.6	780.0	780.8	778.4	779.2	782.2	782.2
5°	767.1	768.6	761.0	758.8	764.9	766.4	768.6	767.9	770.1	774.6	773.9
7.5°	754.2	756.5	748.2	745.1	752.8	756.5	758.0	758.0	761.0	767.1	767.9
10°	739.9	742.9	735.4	733.9	742.1	746.0	746.8	748.2	752.8	761.0	762.6
12.5°	727.8	730.9	725.5	723.2	732.4	736.1	737.6	740.6	746.0	756.5	758.0
15°	717.2	719.5	713.5	711.9	721.0	725.5	726.2	730.9	737.6	749.8	752.0
17.5°	703.6	705.1	700.6	699.1	708.1	712.6	713.5	718.8	727.0	739.1	742.9
20°	687.8	689.2	684.8	683.2	692.2	697.6	698.4	702.9	712.6	725.5	729.2
22.5°	668.9	671.9	666.6	665.1	674.1	678.6	681.0	684.8	694.5	707.4	712.6
25°	649.2	649.2	645.4	644.6	653.0	658.2	657.5	662.8	672.6	685.5	690.0
27.5°	623.5	622.8	619.0	618.2	627.2	631.9	630.2	635.6	644.6	657.5	662.0
30°	589.5	591.0	585.8	584.2	591.8	599.4	598.6	603.9	612.9	625.0	628.0
32.5°	548.6	550.2	549.5	547.1	554.0	557.8	560.0	563.8	571.4	584.2	587.2
35°	510.1	507.9	504.9	504.9	511.6	517.8	515.4	520.0	527.5	540.4	541.1
37.5°	462.5	461.8	460.2	458.8	466.2	467.9	468.6	471.6	478.4	489.0	487.5
40°	412.6	413.4	412.6	409.6	414.1	420.2	419.5	421.0	427.0	434.6	432.2
42.5°	365.8	365.8	365.8	362.8	368.0	371.1	372.6	371.9	373.4	380.1	377.1
45°	321.2	322.0	321.2	320.5	321.2	322.8	321.2	320.5	320.5	322.8	318.1
47.5°	282.6	282.6	280.4	278.1	280.4	281.1	278.9	276.6	275.9	275.1	267.5
50°	247.9	247.1	246.4	242.6	244.9	245.6	242.6	241.1	238.1	234.2	225.2
52.5°	217.6	216.9	216.1	212.4	213.9	214.6	211.6	208.6	204.8	201.8	190.5
55°	192.0	191.2	191.2	189.0	187.4	189.0	185.9	183.6	178.4	174.6	163.2
57.5°	170.0	170.0	168.5	166.2	167.0	167.0	164.0	161.0	156.5	151.9	142.9
60°	151.1	151.1	151.1	148.9	148.9	148.9	147.4	144.4	140.6	136.0	127.0
62.5°	136.0	136.0	135.2	133.0	133.8	133.8	132.2	129.2	125.5	122.4	113.4
65°	124.0	124.0	124.0	121.6	121.6	122.4	120.9	117.9	114.9	111.1	102.8
67.5°	108.9	108.1	108.1	106.6	107.4	108.1	106.6	104.2	100.5	98.2	90.8
70°	89.9	90.8	91.5	89.1	89.9	89.9	89.1	86.9	84.6	82.4	75.6
72.5°	73.2	73.2	72.5	71.8	71.8	72.5	71.0	68.8	67.2	65.8	60.5
75°	55.9	55.1	55.9	54.4	54.4	54.4	52.9	52.1	51.4	49.1	45.4
77.5°	40.8	40.0	40.0	38.5	39.2	39.2	38.5	37.0	35.5	34.8	31.8
80°	28.0	28.0	28.0	27.2	27.2	26.5	26.5	25.8	24.1	23.4	21.9
82.5°	18.9	18.9	18.9	18.1	18.1	18.1	17.4	16.6	15.9	15.1	13.6
85°	12.1	12.1	12.1	11.4	11.4	11.4	10.6	10.6	9.9	9.1	7.5
87.5°	6.8	6.8	6.8	6.0	6.0	6.0	6.0	6.0	5.2	4.5	3.8
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	787.5	776.9	783.8	783.8	781.5	787.5	791.2	794.2	793.5	786.8	786.0
5°	781.5	772.4	780.0	780.8	778.4	786.8	792.0	795.9	796.6	790.5	791.2
7.5°	776.9	769.4	779.2	782.2	781.5	789.0	795.1	801.1	804.1	799.6	800.4
10°	774.6	768.6	779.2	783.8	784.5	792.8	801.9	810.1	814.0	810.9	813.2
12.5°	771.6	767.9	780.0	786.8	789.8	798.1	809.4	819.2	825.2	823.8	828.4
15°	768.6	765.6	780.0	789.8	793.5	801.1	814.0	828.4	835.1	834.4	840.4
17.5°	761.0	760.2	775.4	786.0	791.2	800.4	812.5	829.9	836.6	838.1	845.8
20°	749.0	749.0	765.6	776.9	783.0	791.2	806.4	823.0	831.4	832.9	841.1
22.5°	732.4	733.9	749.8	761.0	770.1	776.1	792.0	809.4	817.0	819.2	828.4
25°	710.4	711.9	727.0	738.4	748.2	755.0	770.1	786.0	795.1	797.4	804.1
27.5°	681.8	684.8	699.1	710.4	718.8	723.2	739.1	755.8	762.6	764.9	771.6
30°	648.5	649.2	663.5	673.4	681.8	685.5	699.1	716.5	721.8	724.0	733.9
32.5°	607.6	606.9	620.5	629.5	636.4	640.9	655.2	666.6	671.9	675.6	681.0
35°	558.5	557.8	567.6	578.1	583.5	585.0	599.4	611.4	614.4	617.5	624.2
37.5°	503.4	503.4	511.6	517.0	523.0	525.2	532.0	545.6	551.0	550.2	555.5
40°	445.1	442.1	448.1	453.5	455.0	455.8	462.5	473.1	476.9	476.9	480.6
42.5°	383.9	379.4	380.1	383.1	384.6	379.4	383.9	390.8	388.5	391.5	392.2
45°	318.9	312.1	309.1	302.2	303.9	298.5	295.5	297.0	296.2	288.8	290.2
47.5°	266.0	253.9	248.6	238.9	236.5	230.5	226.8	219.9	213.9	213.9	210.1
50°	221.5	209.4	198.8	187.4	183.6	178.4	170.0	161.0	156.5	151.9	148.1
52.5°	185.9	173.1	160.2	148.1	142.9	136.0	124.8	115.6	107.4	102.8	98.2
55°	157.2	142.9	129.2	116.4	109.6	102.8	91.5	80.9	71.0	65.0	61.2
57.5°	135.2	121.6	107.4	93.8	87.6	80.1	68.0	56.6	47.6	40.8	37.0
60°	119.4	105.8	93.0	78.6	72.5	65.0	52.1	41.6	32.5	26.5	21.9
62.5°	105.8	93.8	80.1	67.2	61.2	53.6	41.6	31.0	22.6	16.6	12.9
65°	96.0	83.9	72.5	59.8	54.4	46.9	35.5	25.8	18.1	12.9	9.1
67.5°	84.6	74.1	62.8	52.1	46.9	40.8	30.2	21.9	15.1	10.6	7.5
70°	71.0	62.8	52.9	43.1	39.2	34.0	25.0	18.1	12.1	8.4	6.0
72.5°	56.6	49.9	42.4	34.8	31.8	26.5	20.4	14.4	9.1	6.0	4.5
75°	43.1	37.8	31.8	26.5	23.4	20.4	15.1	10.6	6.8	4.5	3.0
77.5°	29.5	27.2	22.6	18.1	16.6	14.4	9.9	6.8	4.5	3.0	1.5
80°	20.4	18.1	15.1	12.1	10.6	9.1	6.0	4.5	2.2	1.5	0.8
82.5°	12.9	10.6	9.1	7.5	6.8	5.2	3.8	2.2	1.5	0.8	0.8
85°	6.8	6.0	5.2	3.8	3.8	3.0	2.2	1.5	0.8	0.0	0.0
87.5°	3.8	3.0	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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.1	795.1	794.2	803.4	792.8	803.4	798.1	803.4	795.9	795.1	795.9
5°	801.1	803.4	804.1	812.5	802.6	815.5	810.9	815.5	810.1	811.8	814.0
7.5°	813.2	817.0	816.2	826.8	817.0	831.4	828.4	835.1	829.9	831.4	834.4
10°	826.8	831.4	832.1	842.6	833.6	851.0	847.2	854.8	850.2	852.5	856.2
12.5°	842.6	848.0	848.8	860.9	851.0	869.1	866.9	874.4	870.6	872.9	877.5
15°	854.8	862.4	863.9	875.9	865.4	884.2	882.8	892.5	886.5	890.2	894.1
17.5°	860.9	867.6	870.6	882.0	872.9	891.8	890.2	898.6	894.1	897.9	902.4
20°	857.0	865.4	867.6	879.0	869.9	888.8	886.5	894.9	890.2	893.4	897.9
22.5°	843.4	851.8	854.8	865.4	857.0	874.4	873.6	881.2	875.1	879.0	882.8
25°	819.2	828.4	829.9	839.6	830.6	848.8	847.2	855.5	851.0	853.2	858.5
27.5°	784.5	795.1	797.4	805.6	798.9	814.0	814.0	820.8	815.5	815.5	820.8
30°	742.9	753.5	755.0	761.8	755.8	769.4	770.1	776.9	768.6	773.1	773.9
32.5°	692.2	699.1	703.6	709.6	700.6	718.0	715.8	721.0	716.5	716.5	720.2
35°	631.1	639.4	641.6	649.2	641.6	655.2	655.2	658.2	653.8	653.8	659.8
37.5°	564.5	570.6	571.4	578.9	572.9	584.2	583.5	585.8	581.1	584.2	584.2
40°	486.8	491.2	492.8	496.5	495.8	504.1	503.4	504.9	502.6	503.4	504.9
42.5°	396.0	402.1	405.1	408.1	403.6	414.9	412.6	414.9	414.1	414.9	417.1
45°	291.8	296.2	298.5	299.2	297.8	304.6	309.9	305.4	306.1	304.6	307.6
47.5°	210.9	211.6	210.1	214.6	210.9	213.9	215.4	216.1	211.6	210.9	213.9
50°	144.4	148.1	142.9	145.1	144.4	147.4	145.9	146.6	142.1	144.4	142.9
52.5°	96.0	95.2	93.8	94.5	93.0	93.0	93.0	94.5	91.5	89.9	88.4
55°	58.2	56.6	53.6	52.9	52.9	53.6	52.1	50.6	50.6	49.9	49.9
57.5°	34.0	31.8	30.2	29.5	28.0	27.2	26.5	26.5	25.0	25.0	25.0
60°	18.9	16.6	15.1	13.6	13.6	12.9	12.1	11.4	11.4	11.4	10.6
62.5°	9.9	8.4	6.8	6.0	6.0	5.2	4.5	4.5	4.5	4.5	3.8
65°	6.8	5.2	4.5	3.8	3.8	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	5.2	4.5	3.8	3.0	3.0	3.0	2.2	2.2	2.2	2.2	2.2
70°	4.5	3.0	3.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	3.0	3.0	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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	802.6	801.9	802.6	804.1	801.1	810.1	805.6	810.1
5°	820.0	820.8	821.5	823.8	820.0	831.4	825.2	832.1
7.5°	842.6	843.4	844.2	846.5	844.2	855.5	848.8	854.8
10°	866.1	867.6	867.6	871.4	869.1	879.8	875.1	882.8
12.5°	888.0	889.5	891.0	893.4	891.8	903.1	899.4	905.4
15°	905.4	908.4	909.1	912.2	910.8	922.8	918.2	924.2
17.5°	913.8	916.8	916.8	920.5	919.0	931.9	925.8	932.6
20°	909.1	911.5	912.2	916.0	914.5	927.4	921.2	929.6
22.5°	894.9	895.6	896.4	900.1	899.4	910.8	905.4	910.8
25°	868.4	870.6	869.9	872.9	872.9	882.0	875.9	880.5
27.5°	830.6	832.9	832.9	836.6	833.6	842.6	836.6	843.4
30°	784.5	786.8	785.2	788.2	785.2	794.2	789.8	792.0
32.5°	729.2	729.2	730.1	730.9	729.2	737.6	733.1	737.6
35°	663.5	665.1	665.9	666.6	665.1	671.1	665.9	668.9
37.5°	589.5	593.2	592.5	593.2	591.0	598.6	594.0	595.5
40°	510.1	510.1	509.4	510.9	508.6	514.6	511.6	513.1
42.5°	417.9	420.2	417.1	421.0	414.9	423.2	420.2	417.9
45°	313.6	310.6	309.9	310.6	308.4	309.1	311.4	309.9
47.5°	213.9	213.9	212.4	210.1	213.1	213.9	210.9	210.9
50°	143.6	143.6	142.1	141.4	142.9	142.1	140.6	142.9
52.5°	91.5	88.4	88.4	89.9	88.4	86.9	89.1	87.6
55°	49.9	48.4	48.4	49.9	48.4	48.4	47.6	49.1
57.5°	24.1	25.0	24.1	24.1	24.1	24.1	23.4	24.1
60°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
62.5°	4.5	4.5	3.8	3.8	3.8	3.8	3.8	3.8
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	2.2	2.2	2.2	2.2	2.2	3.0	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	3.0	3.0	3.0	3.0	3.0	3.0
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)