

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: io LED

Report Number: P136244

Luminaire Tested: **LD6A10D010TE ERW6A10927 6LW111LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10927 6LW111LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE  
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1055.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

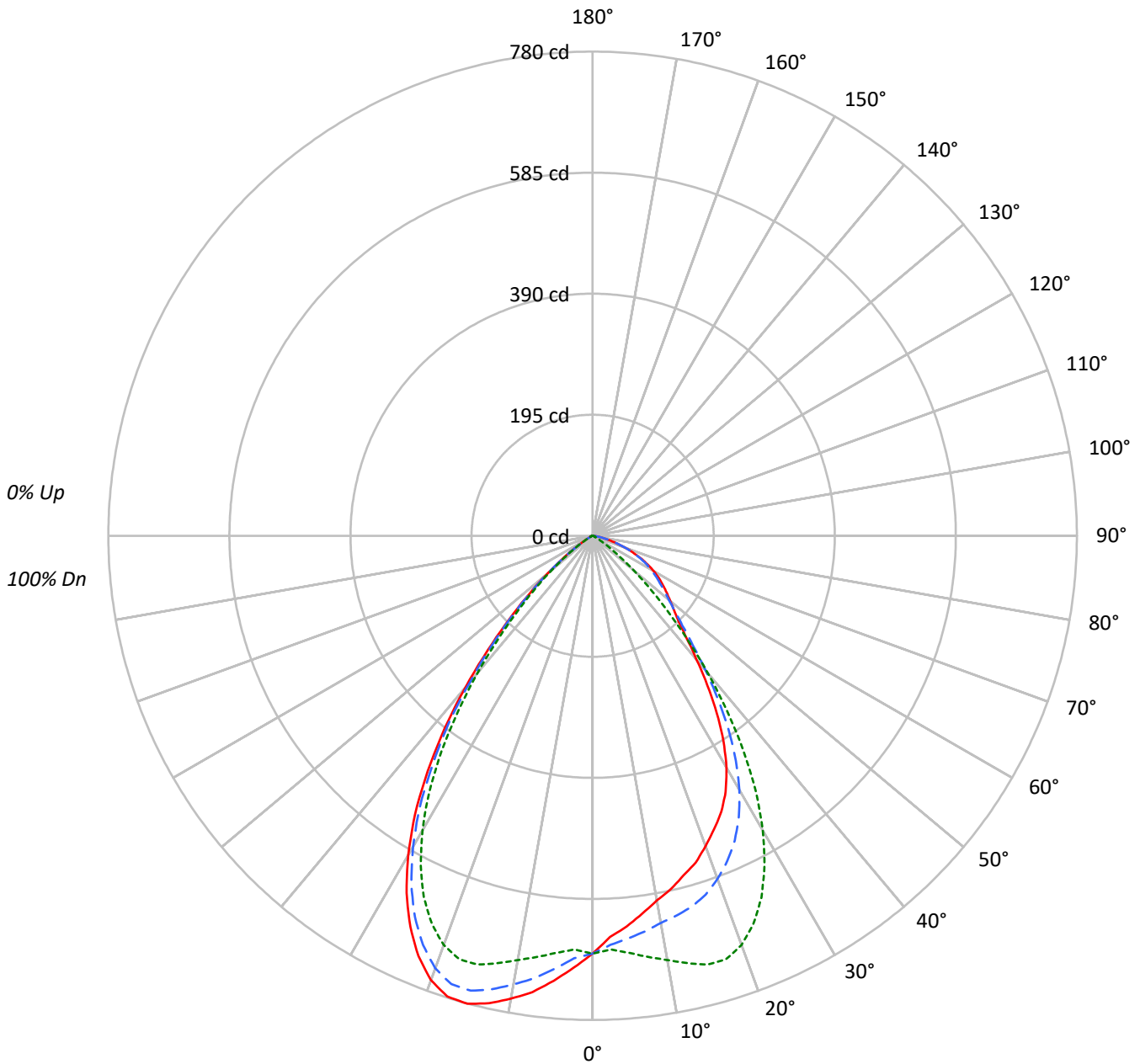
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55					55			
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50					50			
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46					46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43					43			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	43907	43907	43907
5°	41370	44173	47126
10°	39510	45975	50162
15°	38249	48299	52710
20°	36922	48703	52883
25°	35309	46286	50015
30°	32484	41305	44756
35°	27764	33801	36907
40°	22194	24502	27125
45°	18093	15528	17401
50°	16544	8536	9683
55°	15731	3503	4106
60°	14810	1266	1266
65°	13214	695	587
70°	10587	572	439
75°	7008	378	378
80°	3644	263	263
85°	1722	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	6.2
10°-20°	194.7	18.4
20°-30°	280.1	26.5
30°-40°	257.3	24.4
40°-50°	147.7	14.0
50°-60°	65.3	6.2
60°-70°	32.1	3.0
70°-80°	12.3	1.2
80°-90°	1.4	0.1
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°	539.7	51.1
0°-40°	797.0	75.5
0°-60°	1009.9	95.7
0°-90°	1055.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	673	673	673	673	673	
5°	632	651	674	700	720	59
15°	566	618	715	759	780	160
25°	490	542	643	678	695	224
35°	349	382	424	448	463	216
45°	196	204	168	184	189	156
55°	138	132	31	34	36	124
65°	86	83	4	3	4	84
75°	28	29	2	2	2	31
85°	2	2	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
2.5°	646.7	650.5	646.7	652.0	655.0	656.5	655.0	651.2	656.5	659.5	658.8
5°	631.7	634.7	631.7	637.0	640.7	644.4	643.0	640.7	646.7	651.2	652.0
7.5°	613.7	617.4	615.2	620.5	625.0	629.5	629.5	628.7	636.2	643.0	645.3
10°	596.4	599.4	597.9	603.1	608.5	613.7	615.2	615.9	624.1	633.2	638.5
12.5°	582.8	584.4	582.8	588.9	594.1	600.2	603.1	604.7	615.2	626.4	633.2
15°	566.3	570.1	568.6	574.6	580.6	587.4	591.1	594.1	605.4	618.2	627.9
17.5°	552.1	553.6	552.1	558.9	564.1	571.6	576.1	579.9	591.9	606.2	616.7
20°	531.8	534.8	534.1	540.1	546.1	552.8	557.3	561.1	573.8	588.2	600.2
22.5°	511.5	514.5	514.5	520.5	525.0	532.5	536.3	540.1	552.1	567.1	577.6
25°	490.5	492.8	492.0	497.3	502.5	510.0	513.0	516.7	528.0	541.5	551.4
27.5°	464.2	465.7	467.2	471.7	475.4	482.2	484.5	488.2	497.3	510.0	519.0
30°	431.2	432.7	434.9	438.6	441.6	448.4	449.9	452.9	461.9	472.5	480.8
32.5°	392.1	392.8	396.6	399.6	403.4	407.9	411.6	412.4	419.2	429.6	435.7
35°	348.6	349.3	353.1	355.3	359.0	363.5	366.6	367.3	373.4	381.6	385.4
37.5°	303.5	308.0	307.3	309.5	313.2	317.0	320.0	320.0	324.5	331.2	332.8
40°	260.6	262.9	265.1	266.7	269.6	272.6	274.9	274.9	277.9	282.5	282.5
42.5°	223.8	227.6	227.6	229.1	231.3	234.4	235.8	235.1	236.6	238.9	237.4
45°	196.1	197.6	198.3	200.6	201.3	204.3	205.1	203.5	204.3	204.3	199.8
47.5°	178.0	178.0	178.0	179.6	180.3	182.5	182.5	180.3	179.6	178.7	172.8
50°	163.0	163.0	163.8	165.2	166.0	166.7	166.7	163.8	163.0	160.0	151.7
52.5°	150.2	151.0	151.0	152.5	153.2	153.9	153.2	150.2	148.0	145.0	135.2
55°	138.3	139.0	139.7	141.2	141.2	141.2	140.5	137.4	135.2	131.5	121.7
57.5°	126.2	127.0	127.0	128.4	129.2	129.2	128.4	125.4	123.2	120.2	109.7
60°	113.5	113.5	114.2	115.7	115.7	116.4	115.7	113.5	111.2	107.4	98.4
62.5°	99.1	99.9	100.6	102.2	102.9	102.9	102.9	100.6	99.1	96.1	87.1
65°	85.6	85.6	86.4	87.9	87.9	90.1	88.7	87.1	85.6	82.6	75.1
67.5°	69.9	70.6	70.6	72.1	72.9	73.6	73.6	72.1	71.3	69.1	62.3
70°	55.5	55.5	56.4	57.1	57.8	58.6	58.6	57.8	57.1	54.8	49.6
72.5°	40.6	41.3	41.3	42.0	43.6	44.3	44.3	44.3	42.8	41.3	37.5
75°	27.8	28.5	28.5	29.3	30.0	30.8	30.8	30.8	30.0	29.3	26.3
77.5°	17.3	17.3	18.0	18.0	18.8	19.6	20.3	20.3	19.6	18.8	17.3
80°	9.7	9.7	10.6	10.6	10.6	11.3	12.0	12.0	12.0	11.3	9.7
82.5°	5.2	5.2	5.2	5.2	5.2	6.0	6.0	6.0	6.0	6.0	5.2
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
2.5°	658.8	664.0	667.8	661.8	667.0	672.3	678.3	667.0	677.5	671.5	673.7
5°	655.0	661.0	666.3	662.5	669.2	676.0	684.3	674.5	686.6	682.0	685.7
7.5°	649.8	658.0	665.5	664.0	673.0	682.0	692.5	684.3	697.0	694.8	699.3
10°	645.3	656.5	666.3	666.3	678.3	688.8	700.1	694.0	709.1	706.9	712.8
12.5°	642.2	656.5	669.2	671.5	685.7	697.8	711.4	705.3	721.8	719.6	726.3
15°	639.2	655.7	670.8	675.3	691.1	705.3	719.6	715.1	732.4	730.1	736.9
17.5°	629.5	648.9	665.5	671.5	688.8	703.8	718.8	715.1	732.4	730.1	736.9
20°	612.9	632.4	650.5	657.2	674.5	690.3	704.6	701.5	718.8	716.6	722.6
22.5°	591.9	610.7	627.9	634.7	651.2	665.5	679.8	676.7	693.3	689.5	696.3
25°	562.6	582.1	598.6	604.0	618.9	633.2	646.0	643.0	658.8	654.3	661.0
27.5°	532.5	546.9	560.3	564.8	578.3	590.4	602.4	599.4	614.4	609.2	615.9
30°	492.0	503.2	515.3	517.6	530.3	540.1	550.6	548.3	561.1	556.6	562.6
32.5°	444.7	454.4	462.7	463.4	474.0	482.2	491.2	489.8	501.0	497.3	501.8
35°	392.8	398.9	404.1	403.4	411.6	417.6	425.9	424.4	434.9	431.2	435.7
37.5°	338.0	341.0	342.5	339.5	345.5	350.0	356.0	355.3	364.3	361.3	365.8
40°	284.7	284.7	282.5	277.1	280.9	283.2	287.7	287.7	294.4	291.5	295.2
42.5°	235.8	232.9	227.6	220.0	220.9	223.8	223.8	223.8	229.1	226.1	232.9
45°	196.1	189.3	181.0	171.3	168.3	169.7	168.3	168.3	172.0	169.7	175.0
47.5°	165.2	157.0	142.7	130.7	125.4	124.7	122.5	122.5	124.7	124.7	127.0
50°	141.9	130.0	112.6	98.4	90.9	88.7	85.6	84.1	86.4	85.6	87.1
52.5°	123.2	108.1	87.9	71.3	63.8	58.6	56.4	53.3	54.1	54.1	54.8
55°	107.4	90.1	68.4	51.0	42.8	36.8	33.8	30.8	30.8	30.0	30.8
57.5°	95.4	77.4	55.5	38.3	29.3	23.3	20.3	17.3	16.5	16.5	16.5
60°	84.9	67.6	45.8	30.0	21.0	15.1	12.0	9.7	9.0	8.3	8.3
62.5°	74.4	58.6	39.0	24.8	15.8	11.3	8.3	6.0	5.2	4.5	4.5
65°	63.8	50.3	33.8	21.0	13.5	9.0	6.0	4.5	3.8	3.0	3.0
67.5°	52.6	41.3	28.5	17.3	11.3	7.5	5.2	3.8	3.0	2.3	2.3
70°	42.0	33.0	22.5	14.2	9.0	6.0	3.8	3.0	2.3	2.3	2.3
72.5°	31.6	24.8	17.3	10.6	6.8	4.5	3.0	2.3	1.5	1.5	1.5
75°	22.5	18.0	12.0	7.5	4.5	3.0	2.3	1.5	1.5	1.5	1.5
77.5°	14.2	11.3	7.5	4.5	3.0	1.5	1.5	0.7	0.7	0.7	0.7
80°	8.3	6.8	4.5	3.0	1.5	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	4.5	3.0	2.3	1.5	0.7	0.7	0.7	0.0	0.0	0.0	0.0
85°	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
2.5°	679.8	678.3	683.5	685.7	684.3	681.2	691.1	693.3	686.6	689.5	689.5
5°	693.3	693.3	700.1	703.1	703.1	700.1	711.4	715.1	708.3	711.4	712.1
7.5°	708.3	708.3	716.6	720.4	721.1	718.8	730.1	733.1	728.6	731.6	732.4
10°	721.8	721.8	731.6	735.3	736.1	733.8	745.1	748.9	743.6	746.6	747.3
12.5°	736.1	736.9	746.6	750.4	750.4	748.2	759.4	763.1	757.2	760.9	760.1
15°	746.6	747.3	757.2	760.9	761.7	758.6	769.2	773.7	767.6	769.9	769.9
17.5°	745.9	746.6	755.6	759.4	759.4	757.2	766.2	771.4	765.4	767.6	766.9
20°	730.8	731.6	741.4	744.4	744.4	741.4	749.6	754.9	748.9	750.4	749.6
22.5°	703.8	704.6	713.6	716.6	717.3	713.6	721.8	727.9	721.1	721.8	721.1
25°	668.5	668.5	678.3	678.3	682.0	677.5	683.5	691.8	685.0	685.0	682.8
27.5°	622.7	622.7	632.4	632.4	637.0	632.4	642.2	646.0	639.9	639.2	639.2
30°	569.3	569.3	578.3	578.3	582.1	578.3	588.2	591.9	585.9	585.1	585.9
32.5°	508.5	508.5	517.6	516.7	521.2	518.3	527.3	530.3	525.8	523.5	525.0
35°	441.6	445.4	450.6	449.9	454.4	448.4	459.7	461.9	458.2	458.9	456.7
37.5°	371.1	374.8	378.6	378.6	382.3	380.8	387.6	389.9	386.8	387.6	385.4
40°	300.5	304.2	307.3	307.3	310.9	306.4	315.5	317.7	314.7	311.8	313.2
42.5°	233.6	237.4	240.3	239.6	243.4	242.6	247.9	249.4	247.1	246.4	244.8
45°	175.8	176.5	181.8	184.1	184.1	184.1	187.8	188.6	186.3	186.3	185.5
47.5°	127.0	128.4	132.2	133.7	134.5	133.7	135.2	138.3	136.0	136.0	136.7
50°	87.9	88.7	91.6	93.2	93.2	93.2	93.9	96.1	94.6	94.6	93.2
52.5°	56.4	56.4	58.6	59.3	59.3	59.3	60.1	61.6	60.1	60.9	61.6
55°	31.6	31.6	33.0	33.8	33.8	33.8	34.5	35.3	34.5	35.3	35.3
57.5°	16.5	16.5	17.3	17.3	18.0	18.0	18.0	18.8	18.8	18.8	18.8
60°	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.7	9.7	9.7	9.7
62.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.2	5.2	5.2	5.2
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	1.5	1.5
75°	0.7	1.5	1.5	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.0	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):**

	165°	170°	175°	180°
0°	673.0	673.0	673.0	673.0
2.5°	683.5	684.3	697.0	696.3
5°	706.0	706.9	719.6	719.6
7.5°	726.3	727.1	740.6	741.4
10°	741.4	742.8	755.6	757.2
12.5°	755.6	755.6	768.4	771.4
15°	764.7	764.7	776.6	780.4
17.5°	761.7	761.7	773.7	778.2
20°	745.1	744.4	755.6	761.7
22.5°	716.6	717.3	726.3	733.1
25°	680.5	679.0	688.8	694.8
27.5°	635.4	636.2	642.2	648.9
30°	581.4	582.8	587.4	594.1
32.5°	520.5	522.8	525.8	532.5
35°	453.7	456.0	457.4	463.4
37.5°	381.6	384.6	385.4	391.3
40°	310.2	313.2	313.2	318.5
42.5°	243.4	245.7	244.8	249.4
45°	184.1	185.5	184.8	188.6
47.5°	134.5	136.0	134.5	137.4
50°	93.2	94.6	93.2	95.4
52.5°	60.1	60.9	59.3	61.6
55°	34.5	35.3	34.5	36.1
57.5°	19.6	18.8	18.0	19.6
60°	9.7	9.7	9.7	9.7
62.5°	5.2	5.2	5.2	5.2
65°	3.0	3.0	3.0	3.8
67.5°	3.0	3.0	3.0	3.0
70°	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.7
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)