

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: P244225

Luminaire Tested: **LD8B15D010 ER8B15930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15930 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1340.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

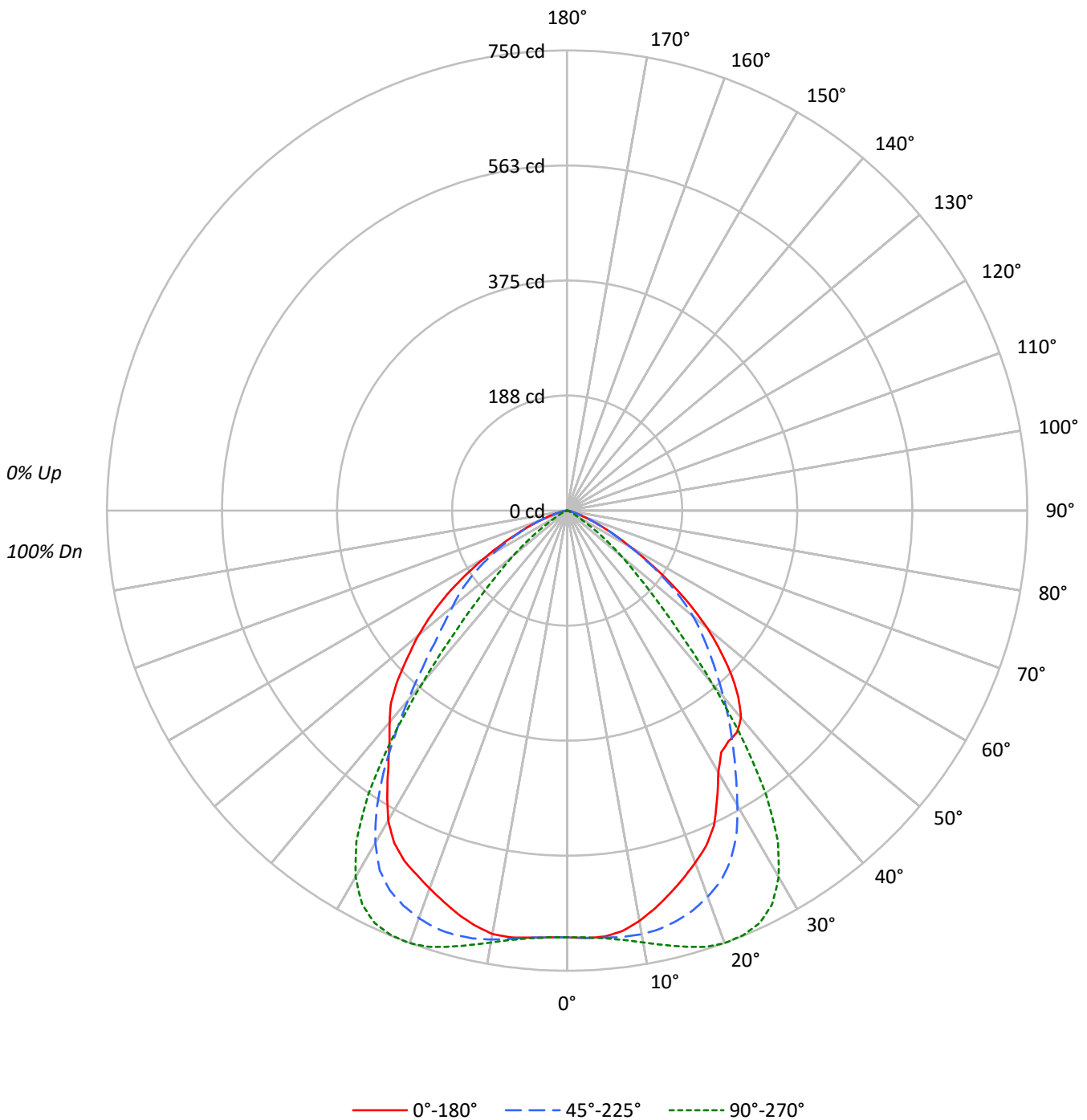
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	5.0
10°-20°	198.1	14.8
20°-30°	302.3	22.5
30°-40°	315.4	23.5
40°-50°	236.9	17.7
50°-60°	145.8	10.9
60°-70°	59.3	4.4
70°-80°	14.0	1.0
80°-90°	1.9	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°	567.3	42.3
0°-40°	882.8	65.8
0°-60°	1265.5	94.4
0°-90°	1340.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	696	696	696	696	696	
5°	697	699	700	699	699	66
15°	646	692	736	715	682	182
25°	566	630	742	683	629	257
35°	459	472	565	522	508	290
45°	379	328	204	305	391	289
55°	204	194	54	194	240	184
65°	64	65	8	87	92	67
75°	11	11	2	20	20	13
85°	1	1	0	3	3	2
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°	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5
2.5°	697.4	696.3	697.4	697.4	697.7	697.0	697.4	697.7	697.0	697.0	697.0
5°	697.0	696.3	697.0	696.6	697.4	697.4	698.2	698.2	698.8	698.8	700.0
7.5°	691.1	689.6	691.1	692.2	692.9	694.5	696.3	697.7	699.2	700.7	702.5
10°	678.9	678.9	680.0	682.2	684.5	687.1	690.3	694.0	697.7	701.1	704.3
12.5°	663.7	662.6	664.9	667.8	671.1	675.2	680.3	685.9	691.9	698.5	703.7
15°	646.4	645.4	647.9	650.9	654.9	660.8	667.1	674.5	682.9	691.9	700.3
17.5°	628.7	628.3	630.9	634.9	638.3	644.6	652.6	661.5	671.1	682.9	694.0
20°	610.6	610.3	612.9	616.1	620.6	626.5	634.6	644.9	656.3	669.7	682.6
22.5°	591.8	592.1	594.4	598.1	601.8	608.0	616.6	626.9	639.4	653.8	668.2
25°	566.3	564.4	567.5	571.1	577.4	582.6	590.7	601.8	614.6	629.8	646.8
27.5°	529.3	529.0	531.6	534.9	540.4	546.7	555.6	567.0	580.7	597.3	614.0
30°	492.5	493.2	494.4	497.6	501.3	507.6	516.4	526.1	539.0	554.9	572.6
32.5°	467.3	467.3	468.8	471.0	473.6	477.0	483.3	490.2	500.2	511.3	524.2
35°	458.8	457.4	458.8	459.3	459.6	460.4	461.5	463.6	467.0	471.8	476.6
37.5°	455.2	454.1	454.1	452.7	450.8	448.5	445.6	442.2	438.5	433.8	430.1
40°	440.8	440.1	439.3	437.9	433.8	429.3	424.5	416.8	408.3	396.5	384.7
42.5°	413.1	412.4	412.0	409.1	405.4	400.2	394.6	386.5	375.9	360.6	343.7
45°	378.8	377.3	376.2	373.6	371.1	366.6	361.4	354.0	343.4	327.8	307.5
47.5°	338.9	338.2	337.8	336.6	334.1	331.5	328.2	322.3	312.6	298.0	276.9
50°	298.6	297.2	298.0	297.5	296.4	294.6	292.4	288.3	280.9	267.7	248.4
52.5°	252.6	252.6	252.1	253.2	253.6	253.2	253.6	249.2	242.9	232.9	216.7
55°	204.5	204.5	205.6	207.2	208.6	209.0	208.6	206.7	202.3	194.2	179.8
57.5°	159.5	158.7	161.0	163.2	164.7	166.1	165.0	163.6	161.0	154.4	143.3
60°	121.4	121.4	123.0	124.4	125.9	127.3	127.0	126.7	124.4	119.9	111.1
62.5°	89.3	89.7	89.7	90.8	92.3	93.8	94.8	93.8	92.7	89.7	83.9
65°	63.9	63.4	63.9	65.0	66.1	67.6	68.3	67.9	66.8	64.6	60.2
67.5°	42.8	42.5	43.9	44.3	45.1	46.5	46.2	46.5	46.2	44.3	40.6
70°	28.0	27.4	28.0	27.7	28.8	29.1	29.9	30.3	29.9	28.8	27.7
72.5°	17.4	16.9	17.4	17.7	18.0	18.5	19.2	19.2	18.8	18.0	16.6
75°	11.1	10.0	10.3	9.6	10.3	10.3	11.1	11.4	11.1	11.1	10.3
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.1	7.4	6.6	6.3
80°	3.4	3.4	3.7	3.7	3.7	4.0	3.7	3.7	3.7	4.0	2.9
82.5°	2.6	2.2	2.2	2.2	2.6	2.2	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.5	1.1	0.8	1.1	1.1	1.5	1.1	1.1	1.1	1.5
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5
2.5°	697.4	696.6	696.6	696.3	697.0	696.3	696.6	696.3	696.3	697.0	696.3
5°	700.0	700.3	699.6	699.2	700.3	700.3	700.3	699.6	699.6	700.0	699.6
7.5°	703.7	704.3	704.8	705.1	705.9	706.2	706.2	705.9	705.4	706.6	705.1
10°	707.7	708.8	711.1	712.2	714.0	714.0	714.7	714.7	714.0	714.7	714.3
12.5°	706.2	712.8	716.5	719.1	721.7	723.9	724.7	725.1	724.7	726.2	724.7
15°	708.8	714.3	720.2	724.7	729.4	732.0	732.8	735.7	736.5	736.8	734.7
17.5°	704.8	714.7	721.0	727.6	734.7	739.4	743.9	745.7	746.1	746.8	743.9
20°	695.5	706.6	716.2	725.8	733.9	741.3	745.0	750.2	748.7	751.6	747.6
22.5°	682.9	695.5	707.7	720.2	728.8	737.6	745.4	749.1	750.8	750.8	746.5
25°	663.1	677.8	691.1	704.0	716.9	727.6	736.5	742.0	743.1	742.8	737.6
27.5°	632.0	647.9	663.4	678.2	694.0	706.6	716.9	723.6	725.4	725.4	719.9
30°	589.2	606.1	621.4	639.1	655.3	669.3	683.7	689.6	692.9	692.9	686.6
32.5°	538.3	552.7	566.7	584.0	601.8	617.7	631.2	639.4	643.5	643.1	637.5
35°	482.9	489.9	500.6	513.5	529.3	544.1	557.5	565.2	572.3	571.8	566.7
37.5°	427.5	425.6	426.8	431.6	441.6	451.9	462.2	469.6	475.5	478.1	477.0
40°	373.2	363.7	354.3	351.1	351.8	355.5	361.1	366.6	373.2	376.5	378.0
42.5°	324.5	308.3	292.0	279.8	272.9	270.6	273.2	275.0	279.1	283.8	288.7
45°	285.4	263.5	242.1	223.3	211.5	204.5	203.0	204.5	206.7	211.5	217.8
47.5°	253.2	227.8	203.8	182.7	165.3	156.2	153.6	152.8	155.0	159.5	167.9
50°	224.9	199.3	172.7	148.4	130.4	119.9	116.2	114.8	117.4	120.7	128.5
52.5°	193.8	168.7	141.4	117.8	99.0	88.2	84.2	81.9	83.4	87.9	95.6
55°	160.2	137.0	112.2	87.9	69.7	59.9	55.0	53.6	55.0	59.9	67.6
57.5°	126.7	107.1	86.4	63.4	47.3	37.3	32.5	31.1	35.1	36.9	45.1
60°	99.0	83.1	65.4	46.5	32.5	24.8	20.0	18.8	20.6	24.0	30.6
62.5°	74.2	64.2	50.2	33.2	24.0	15.9	13.3	12.2	13.3	15.9	21.1
65°	53.9	46.2	35.1	24.3	16.3	11.8	8.9	8.1	9.2	11.1	15.5
67.5°	36.9	31.1	24.3	16.9	11.1	7.4	6.3	6.3	6.6	8.1	11.4
70°	24.0	20.3	15.5	11.1	7.4	5.5	4.8	4.0	4.8	5.9	7.7
72.5°	15.1	12.9	10.0	7.7	5.5	4.0	3.4	2.9	3.7	4.4	5.9
75°	9.2	7.1	5.2	4.0	2.9	2.9	2.9	1.5	1.8	2.9	3.7
77.5°	5.5	4.8	4.0	3.4	2.6	1.5	1.5	1.5	1.8	2.2	3.4
80°	2.9	2.6	1.8	1.8	1.5	1.1	1.5	1.1	0.8	1.8	2.2
82.5°	1.8	1.5	1.5	1.5	1.8	0.8	1.1	0.8	1.1	1.5	1.1
85°	1.1	1.1	1.1	0.8	1.8	0.8	0.8	0.3	0.3	0.8	0.8
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5	695.5
2.5°	696.6	696.3	696.6	696.3	696.3	696.3	696.6	696.6	696.3	696.3	697.0
5°	699.6	699.6	699.6	699.2	698.8	698.8	699.6	699.6	698.5	699.6	699.6
7.5°	705.9	704.8	705.9	704.3	703.7	704.0	704.3	703.7	702.9	703.3	703.3
10°	714.0	712.8	712.8	711.7	710.6	709.9	709.1	707.4	705.4	705.1	703.7
12.5°	723.6	721.7	720.6	718.4	716.5	714.0	711.7	708.8	705.1	702.5	700.0
15°	733.1	730.2	727.6	723.9	719.9	715.4	710.6	705.9	700.0	694.8	690.3
17.5°	741.0	736.8	732.0	726.2	720.2	713.6	706.6	699.6	691.1	684.5	679.3
20°	743.6	737.6	731.3	723.6	715.9	706.6	697.7	688.5	678.9	671.9	666.0
22.5°	740.2	733.1	725.4	717.3	707.0	697.0	686.6	676.0	667.4	657.9	652.3
25°	731.0	722.5	714.0	704.3	694.5	683.4	672.3	661.2	650.9	645.7	638.6
27.5°	712.2	702.9	693.7	683.7	672.3	661.2	649.7	639.1	630.2	623.2	619.1
30°	678.9	668.2	657.5	646.8	636.8	625.4	614.6	605.8	596.9	591.4	587.4
32.5°	628.0	618.3	607.7	597.3	588.1	578.5	569.6	561.8	555.6	551.9	549.0
35°	559.3	549.7	541.6	534.2	526.4	522.4	516.9	512.4	509.8	508.4	508.0
37.5°	472.9	467.3	464.8	463.3	461.9	460.7	461.5	463.3	464.8	467.3	470.4
40°	380.6	385.4	386.9	392.0	396.8	403.1	410.2	418.2	424.9	433.4	439.3
42.5°	296.4	305.4	315.7	326.8	338.5	350.0	364.0	376.9	388.8	399.4	408.7
45°	227.8	241.5	256.9	272.9	288.7	305.4	322.3	338.2	352.2	363.7	373.2
47.5°	177.6	192.7	212.7	232.2	251.4	270.9	289.8	306.4	318.3	329.3	337.8
50°	140.7	158.1	179.8	202.3	223.3	244.0	264.0	279.5	291.2	300.1	306.4
52.5°	108.8	129.6	151.8	175.3	197.9	220.4	238.9	253.2	262.9	270.6	275.4
55°	81.2	101.6	125.1	149.5	172.4	194.2	211.5	224.1	232.6	237.0	239.6
57.5°	58.7	77.1	100.8	125.1	145.8	166.5	180.5	191.9	196.7	199.3	200.4
60°	42.8	59.9	80.8	101.9	121.4	138.1	150.2	158.1	161.6	163.2	162.8
62.5°	31.4	46.2	64.2	81.9	97.9	111.5	121.1	126.2	128.1	128.8	127.7
65°	24.0	35.4	50.9	64.6	76.8	86.8	93.8	97.1	98.2	97.9	97.1
67.5°	17.7	26.6	38.0	48.3	57.2	65.0	68.7	71.6	72.3	71.3	70.2
70°	12.6	19.6	27.7	34.8	41.4	45.7	49.9	50.2	50.2	49.9	49.1
72.5°	8.9	13.7	18.8	23.7	27.7	31.1	32.5	33.6	33.2	32.8	32.2
75°	5.9	8.5	13.7	14.8	18.5	19.6	21.1	21.1	21.4	20.3	20.3
77.5°	3.7	5.9	8.1	9.6	11.1	12.6	13.3	13.3	13.7	13.3	13.3
80°	2.2	3.7	4.4	6.6	6.6	7.7	8.1	8.5	7.7	8.9	7.7
82.5°	1.5	2.2	3.4	3.4	4.0	4.8	4.8	5.2	5.2	4.8	4.8
85°	1.1	1.5	1.8	2.2	2.2	2.6	2.2	2.2	2.6	2.9	2.6
87.5°	0.3	0.8	0.3	0.8	0.8	1.5	1.1	1.1	1.1	1.5	1.5
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°	695.5	695.5	695.5	695.5
2.5°	696.3	696.6	696.3	696.3
5°	699.6	699.2	699.6	698.8
7.5°	702.2	702.2	701.7	701.7
10°	702.2	700.7	700.7	700.7
12.5°	696.6	694.8	693.7	692.9
15°	687.1	683.7	682.2	681.9
17.5°	674.5	671.5	669.7	668.6
20°	660.0	657.1	654.9	655.3
22.5°	647.5	644.2	642.8	642.0
25°	634.9	630.9	629.8	629.1
27.5°	614.6	612.4	611.4	610.3
30°	583.7	582.6	580.7	583.3
32.5°	547.8	546.0	544.6	545.6
35°	508.4	507.3	508.4	507.6
37.5°	472.2	473.3	474.7	475.5
40°	443.7	447.8	449.3	450.0
42.5°	415.3	420.2	423.1	424.9
45°	380.2	385.1	388.3	390.6
47.5°	344.0	348.2	351.4	351.1
50°	311.2	313.4	314.9	316.3
52.5°	278.0	278.0	278.3	278.3
55°	240.3	239.6	239.2	239.6
57.5°	199.0	198.2	197.9	196.7
60°	161.3	159.1	157.6	157.6
62.5°	126.2	123.6	122.5	122.2
65°	94.8	94.5	92.3	91.9
67.5°	68.7	67.1	65.7	66.1
70°	48.3	46.2	46.2	45.4
72.5°	31.4	30.3	29.9	29.9
75°	19.6	19.6	18.8	20.3
77.5°	12.9	12.9	12.6	12.9
80°	7.7	7.7	7.7	7.4
82.5°	4.8	5.2	4.8	4.8
85°	2.6	2.9	2.2	3.4
87.5°	1.5	1.8	1.5	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)