

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: P245520

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245520
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: LSR8B10D010 EC8B10930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 961.8 lumens
Efficiency: N/A
Efficacy: 94.3 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

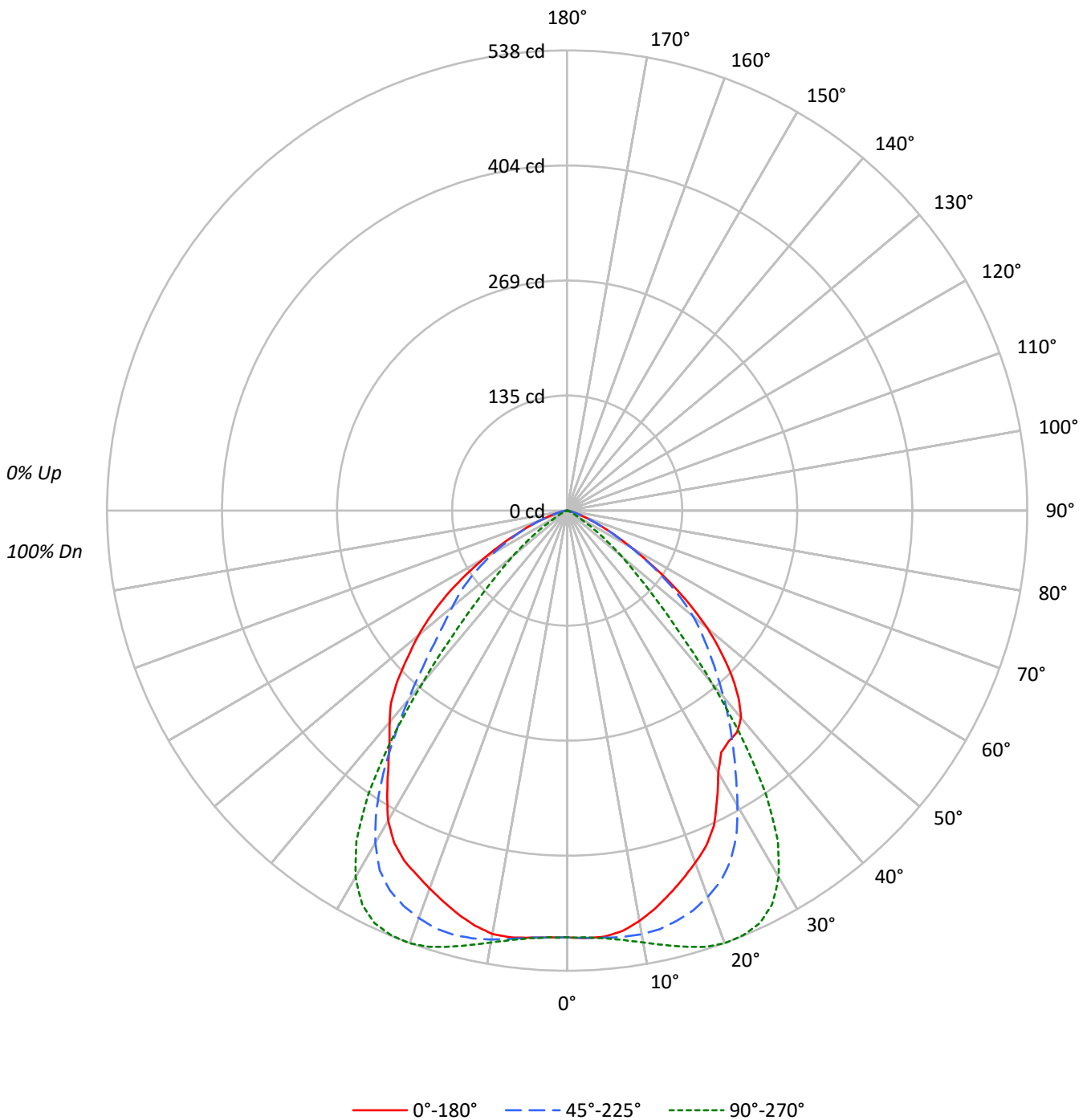
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48.0	5.0
10°-20°	142.1	14.8
20°-30°	216.9	22.5
30°-40°	226.3	23.5
40°-50°	170.0	17.7
50°-60°	104.6	10.9
60°-70°	42.6	4.4
70°-80°	10.0	1.0
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°	407.0	42.3
0°-40°	633.3	65.8
0°-60°	907.9	94.4
0°-90°	961.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	499	499	499	499	499	
5°	500	501	502	501	501	47
15°	464	496	528	513	489	131
25°	406	452	532	490	451	185
35°	329	338	406	375	364	208
45°	272	235	147	219	280	207
55°	147	139	38	139	172	132
65°	46	46	6	62	66	48
75°	8	8	1	14	15	10
85°	1	1	0	2	2	1
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°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	500.3	499.5	500.3	500.3	500.5	500.0	500.3	500.5	500.0	500.0	500.0
5°	500.0	499.5	500.0	499.7	500.3	500.3	500.9	500.9	501.3	501.3	502.1
7.5°	495.8	494.7	495.8	496.6	497.1	498.2	499.5	500.5	501.6	502.7	504.0
10°	487.1	487.1	487.9	489.4	491.0	492.9	495.3	497.9	500.5	502.9	505.3
12.5°	476.2	475.4	477.0	479.1	481.5	484.4	488.1	492.1	496.3	501.1	504.8
15°	463.8	463.0	464.8	466.9	469.8	474.1	478.6	483.8	490.0	496.3	502.4
17.5°	451.0	450.8	452.7	455.6	457.9	462.4	468.2	474.6	481.5	490.0	497.9
20°	438.1	437.8	439.7	442.0	445.1	449.4	455.2	462.6	470.9	480.5	489.7
22.5°	424.5	424.9	426.4	429.0	431.7	436.2	442.2	449.7	458.7	469.0	479.3
25°	406.3	404.9	407.0	409.7	414.2	417.9	423.7	431.7	441.0	451.9	464.0
27.5°	379.8	379.5	381.4	383.7	387.8	392.2	398.6	406.8	416.6	428.6	440.4
30°	353.3	353.8	354.6	357.0	359.6	364.1	370.5	377.4	386.6	398.1	410.7
32.5°	335.3	335.3	336.3	338.0	339.8	342.1	346.7	351.7	358.8	366.8	376.1
35°	329.2	328.1	329.2	329.5	329.7	330.2	331.0	332.6	335.1	338.4	341.9
37.5°	326.5	325.8	325.8	324.6	323.4	321.7	319.7	317.2	314.7	311.2	308.5
40°	316.2	315.7	315.1	314.1	311.2	308.1	304.6	299.0	292.9	284.4	276.0
42.5°	296.4	295.8	295.6	293.5	290.8	287.1	283.2	277.3	269.6	258.7	246.6
45°	271.7	270.7	269.8	268.0	266.1	263.0	259.3	254.0	246.3	235.2	220.6
47.5°	243.1	242.6	242.4	241.6	239.7	237.9	235.4	231.3	224.3	213.8	198.6
50°	214.2	213.2	213.8	213.4	212.7	211.3	209.7	206.8	201.6	192.0	178.2
52.5°	181.2	181.2	180.9	181.7	181.9	181.7	181.9	178.8	174.3	167.1	155.5
55°	146.7	146.7	147.5	148.5	149.7	149.9	149.7	148.3	145.2	139.3	129.0
57.5°	114.5	113.9	115.5	117.0	118.2	119.2	118.4	117.4	115.5	110.8	102.8
60°	87.1	87.1	88.2	89.2	90.4	91.4	91.1	90.8	89.2	86.1	79.7
62.5°	64.1	64.3	64.3	65.1	66.3	67.3	68.0	67.3	66.5	64.3	60.1
65°	45.8	45.5	45.8	46.6	47.4	48.4	49.0	48.8	48.0	46.3	43.2
67.5°	30.7	30.5	31.5	31.7	32.3	33.4	33.1	33.4	33.1	31.7	29.1
70°	20.2	19.6	20.2	19.8	20.6	21.0	21.4	21.7	21.4	20.6	19.8
72.5°	12.4	12.2	12.4	12.7	13.0	13.2	13.8	13.8	13.5	13.0	11.9
75°	8.0	7.2	7.4	6.8	7.4	7.4	8.0	8.2	8.0	8.0	7.4
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.3	4.8	4.5
80°	2.4	2.4	2.7	2.7	2.7	2.9	2.7	2.7	2.7	2.9	2.1
82.5°	1.9	1.6	1.6	1.6	1.9	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.0	0.8	0.6	0.8	0.8	1.0	0.8	0.8	0.8	1.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.6	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°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	500.3	499.7	499.7	499.5	500.0	499.5	499.7	499.5	499.5	500.0	499.5
5°	502.1	502.4	501.9	501.6	502.4	502.4	502.4	501.9	501.9	502.1	501.9
7.5°	504.8	505.3	505.6	505.8	506.4	506.7	506.7	506.4	506.1	506.9	505.8
10°	507.7	508.5	510.1	510.8	512.2	512.2	512.7	512.7	512.2	512.7	512.5
12.5°	506.7	511.4	514.1	515.9	517.8	519.4	519.9	520.1	519.9	520.9	519.9
15°	508.5	512.5	516.7	519.9	523.3	525.2	525.7	527.9	528.3	528.7	527.0
17.5°	505.6	512.7	517.2	522.0	527.0	530.5	533.7	534.9	535.3	535.7	533.7
20°	499.0	506.9	513.8	520.7	526.5	531.8	534.5	538.2	537.1	539.2	536.3
22.5°	490.0	499.0	507.7	516.7	522.8	529.1	534.7	537.4	538.6	538.6	535.5
25°	475.6	486.3	495.8	505.0	514.3	522.0	528.3	532.4	533.1	532.8	529.1
27.5°	453.4	464.8	475.9	486.5	497.9	506.9	514.3	519.1	520.4	520.4	516.4
30°	422.7	434.8	445.7	458.5	470.1	480.1	490.4	494.7	497.1	497.1	492.6
32.5°	386.2	396.5	406.5	419.0	431.7	443.1	452.9	458.7	461.6	461.4	457.4
35°	346.4	351.4	359.2	368.4	379.8	390.3	399.9	405.5	410.5	410.3	406.5
37.5°	306.7	305.4	306.1	309.6	316.8	324.2	331.6	336.9	341.1	343.0	342.1
40°	267.8	260.9	254.2	251.9	252.3	255.0	259.1	263.0	267.8	270.2	271.2
42.5°	232.8	221.2	209.5	200.8	195.7	194.2	196.0	197.3	200.2	203.7	207.2
45°	204.7	189.1	173.8	160.2	151.8	146.7	145.6	146.7	148.3	151.8	156.3
47.5°	181.7	163.4	146.2	131.0	118.6	112.0	110.2	109.6	111.2	114.5	120.5
50°	161.3	143.0	124.0	106.5	93.5	86.1	83.4	82.4	84.2	86.7	92.1
52.5°	139.0	121.1	101.5	84.5	71.0	63.3	60.4	58.7	59.9	63.0	68.6
55°	114.9	98.2	80.5	63.0	50.1	42.9	39.5	38.5	39.5	42.9	48.4
57.5°	90.8	76.8	62.0	45.5	33.9	26.8	23.3	22.2	25.1	26.5	32.3
60°	71.0	59.6	46.9	33.4	23.3	17.7	14.3	13.5	14.8	17.3	22.0
62.5°	53.2	46.1	36.0	23.9	17.3	11.4	9.5	8.7	9.5	11.4	15.1
65°	38.7	33.1	25.1	17.5	11.7	8.5	6.4	5.8	6.6	8.0	11.1
67.5°	26.5	22.2	17.5	12.2	8.0	5.3	4.5	4.5	4.8	5.8	8.2
70°	17.3	14.6	11.1	8.0	5.3	3.9	3.5	2.9	3.5	4.3	5.6
72.5°	10.9	9.3	7.2	5.6	3.9	2.9	2.4	2.1	2.7	3.1	4.3
75°	6.6	5.0	3.7	2.9	2.1	2.1	2.1	1.0	1.3	2.1	2.7
77.5°	3.9	3.5	2.9	2.4	1.9	1.0	1.0	1.0	1.3	1.6	2.4
80°	2.1	1.9	1.3	1.3	1.0	0.8	1.0	0.8	0.6	1.3	1.6
82.5°	1.3	1.0	1.0	1.0	1.3	0.6	0.8	0.6	0.8	1.0	0.8
85°	0.8	0.8	0.8	0.6	1.3	0.6	0.6	0.2	0.2	0.6	0.6
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	499.7	499.5	499.7	499.5	499.5	499.5	499.7	499.7	499.5	499.5	500.0
5°	501.9	501.9	501.9	501.6	501.3	501.3	501.9	501.9	501.1	501.9	501.9
7.5°	506.4	505.6	506.4	505.3	504.8	505.0	505.3	504.8	504.2	504.6	504.6
10°	512.2	511.4	511.4	510.6	509.8	509.3	508.7	507.5	506.1	505.8	504.8
12.5°	519.1	517.8	517.0	515.3	514.1	512.2	510.6	508.5	505.8	504.0	502.1
15°	526.0	523.8	522.0	519.4	516.4	513.3	509.8	506.4	502.1	498.4	495.3
17.5°	531.6	528.7	525.2	520.9	516.7	512.0	506.9	501.9	495.8	491.0	487.3
20°	533.4	529.1	524.6	519.1	513.5	506.9	500.5	493.9	487.1	482.0	477.8
22.5°	531.0	526.0	520.4	514.5	507.1	500.0	492.6	484.9	478.8	471.9	468.0
25°	524.4	518.2	512.2	505.3	498.2	490.2	482.3	474.3	466.9	463.2	458.2
27.5°	510.8	504.2	497.6	490.4	482.3	474.3	466.1	458.5	452.1	447.1	444.1
30°	487.1	479.3	471.7	464.0	456.8	448.6	441.0	434.6	428.2	424.3	421.4
32.5°	450.5	443.6	436.0	428.6	421.9	415.0	408.6	403.1	398.6	395.9	393.8
35°	401.2	394.4	388.5	383.3	377.7	374.8	370.8	367.6	365.8	364.7	364.4
37.5°	339.2	335.3	333.4	332.4	331.4	330.5	331.0	332.4	333.4	335.3	337.4
40°	273.1	276.4	277.6	281.3	284.7	289.2	294.3	300.1	304.8	311.0	315.1
42.5°	212.7	219.0	226.4	234.4	242.8	251.1	261.1	270.4	278.9	286.5	293.1
45°	163.4	173.2	184.3	195.7	207.2	219.0	231.3	242.6	252.7	260.9	267.8
47.5°	127.3	138.2	152.6	166.6	180.4	194.4	207.9	219.8	228.2	236.2	242.4
50°	100.9	113.3	129.0	145.2	160.2	175.1	189.3	200.4	209.0	215.3	219.8
52.5°	78.1	92.9	108.8	125.8	141.9	158.1	171.4	181.7	188.6	194.2	197.5
55°	58.3	72.9	89.8	107.3	123.6	139.3	151.8	160.8	166.8	170.1	171.8
57.5°	42.1	55.4	72.3	89.8	104.6	119.5	129.5	137.8	141.1	143.0	143.8
60°	30.7	42.9	58.0	73.1	87.1	99.1	107.8	113.3	116.0	117.0	116.8
62.5°	22.5	33.1	46.1	58.7	70.2	79.9	86.9	90.6	91.9	92.5	91.6
65°	17.3	25.4	36.5	46.3	55.0	62.2	67.3	69.6	70.4	70.2	69.6
67.5°	12.7	19.1	27.2	34.8	41.0	46.6	49.2	51.3	51.9	51.1	50.3
70°	9.0	14.0	19.8	24.9	29.7	32.8	35.8	36.0	36.0	35.8	35.2
72.5°	6.4	9.8	13.5	16.9	19.8	22.2	23.3	24.1	23.9	23.5	23.1
75°	4.3	6.1	9.8	10.6	13.2	14.0	15.1	15.1	15.4	14.6	14.6
77.5°	2.7	4.3	5.8	6.8	8.0	9.0	9.5	9.5	9.8	9.5	9.5
80°	1.6	2.7	3.1	4.8	4.8	5.6	5.8	6.1	5.6	6.4	5.6
82.5°	1.0	1.6	2.4	2.4	2.9	3.5	3.5	3.7	3.7	3.5	3.5
85°	0.8	1.0	1.3	1.6	1.6	1.9	1.6	1.6	1.9	2.1	1.9
87.5°	0.2	0.6	0.2	0.6	0.6	1.0	0.8	0.8	0.8	1.0	1.0
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°	499.0	499.0	499.0	499.0
2.5°	499.5	499.7	499.5	499.5
5°	501.9	501.6	501.9	501.3
7.5°	503.8	503.8	503.4	503.4
10°	503.8	502.7	502.7	502.7
12.5°	499.7	498.4	497.6	497.1
15°	492.9	490.4	489.4	489.2
17.5°	483.8	481.7	480.5	479.7
20°	473.5	471.4	469.8	470.1
22.5°	464.5	462.2	461.1	460.5
25°	455.6	452.7	451.9	451.3
27.5°	441.0	439.3	438.5	437.8
30°	418.7	417.9	416.6	418.5
32.5°	393.0	391.7	390.7	391.5
35°	364.7	363.9	364.7	364.1
37.5°	338.8	339.6	340.6	341.1
40°	318.4	321.3	322.3	322.8
42.5°	298.0	301.4	303.5	304.8
45°	272.7	276.2	278.6	280.2
47.5°	246.8	249.8	252.1	251.9
50°	223.3	224.9	225.9	227.0
52.5°	199.4	199.4	199.7	199.7
55°	172.4	171.8	171.6	171.8
57.5°	142.7	142.3	141.9	141.1
60°	115.7	114.1	113.1	113.1
62.5°	90.6	88.7	87.9	87.7
65°	68.0	67.8	66.3	65.9
67.5°	49.2	48.2	47.2	47.4
70°	34.8	33.1	33.1	32.6
72.5°	22.5	21.7	21.4	21.4
75°	14.0	14.0	13.5	14.6
77.5°	9.3	9.3	9.0	9.3
80°	5.6	5.6	5.6	5.3
82.5°	3.5	3.7	3.5	3.5
85°	1.9	2.1	1.6	2.4
87.5°	1.0	1.3	1.0	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)