

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: P246169

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B159730 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1021.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

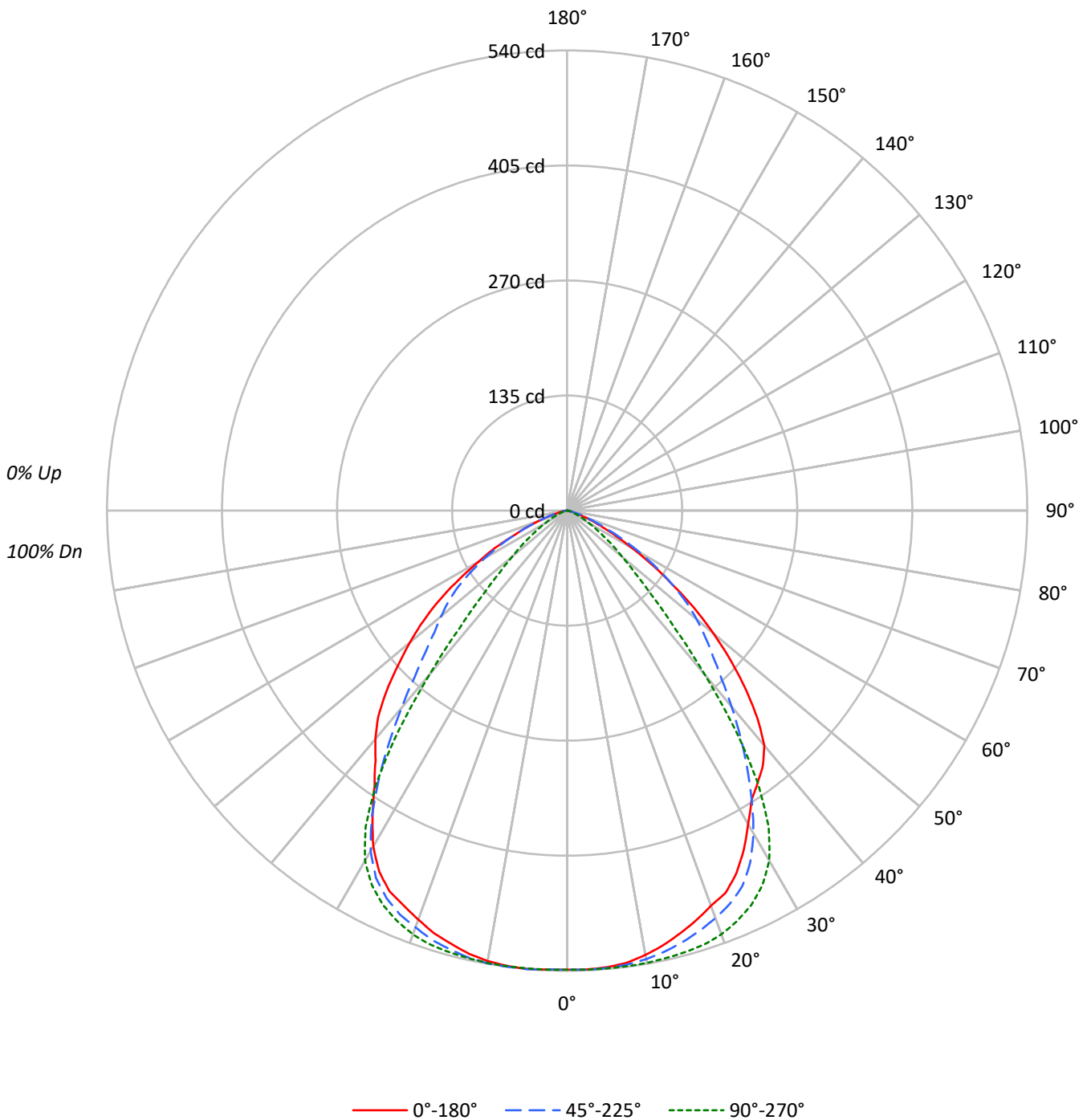
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	51.4	5.0
10°-20°	149.3	14.6
20°-30°	226.6	22.2
30°-40°	238.0	23.3
40°-50°	178.4	17.5
50°-60°	114.5	11.2
60°-70°	49.0	4.8
70°-80°	11.6	1.1
80°-90°	2.2	0.2
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°	427.3	41.9
0°-40°	665.4	65.2
0°-60°	958.3	93.9
0°-90°	1021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	539	539	539	539	539	
5°	538	539	539	540	540	51
15°	514	524	536	533	526	145
25°	470	486	511	502	493	215
35°	390	368	390	385	394	245
45°	296	242	139	235	300	227
55°	150	150	52	156	182	136
65°	45	53	16	68	70	48
75°	7	8	2	14	14	10
85°	2	1	1	2	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°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7
2.5°	539.0	539.6	539.3	539.3	539.0	539.3	539.3	539.9	539.9	539.3	539.0
5°	537.8	538.4	538.4	537.8	537.8	539.3	538.4	539.0	539.0	538.7	538.7
7.5°	535.2	535.2	536.4	535.5	535.5	536.4	536.1	536.7	537.3	537.5	537.5
10°	529.4	530.0	530.3	530.3	530.6	531.5	532.0	533.2	533.8	534.4	534.7
12.5°	522.2	523.1	523.4	523.1	524.0	525.1	526.6	528.0	528.9	530.0	530.9
15°	513.5	513.5	514.1	515.0	515.6	517.3	518.7	520.5	522.8	524.2	525.7
17.5°	504.0	504.6	505.4	505.4	506.6	509.5	510.4	513.0	515.6	517.0	519.9
20°	493.6	494.2	495.0	495.6	497.1	499.4	501.1	503.4	506.3	508.9	511.8
22.5°	485.5	484.3	484.9	485.5	486.9	489.0	491.0	493.9	496.8	499.4	502.3
25°	469.9	470.2	471.0	471.6	473.4	475.1	477.4	480.9	483.5	486.4	489.5
27.5°	448.8	449.1	450.5	450.5	452.0	454.8	456.3	459.2	462.7	465.5	469.3
30°	424.8	425.3	425.3	426.5	427.4	428.8	430.3	433.2	434.9	437.5	442.7
32.5°	402.8	403.4	403.1	402.8	401.9	401.6	401.3	401.9	402.5	403.4	405.4
35°	389.8	388.3	387.2	385.2	382.8	380.0	377.3	373.9	370.7	368.1	365.2
37.5°	377.3	377.1	375.3	372.4	367.8	362.6	356.5	349.0	341.5	333.4	325.6
40°	360.0	359.1	357.7	353.6	348.4	342.1	334.0	324.7	312.6	300.1	287.4
42.5°	330.5	330.8	329.1	325.9	321.0	314.9	306.5	296.4	283.4	268.6	252.1
45°	296.1	296.1	295.5	292.9	289.4	284.5	278.2	269.8	257.1	242.0	224.4
47.5°	260.2	260.5	259.7	259.1	257.6	254.5	249.8	243.5	234.5	220.0	202.4
50°	223.8	223.8	225.3	225.0	225.0	223.8	221.8	218.0	210.2	198.7	182.2
52.5°	187.4	188.0	188.8	190.0	191.4	193.7	191.4	189.7	184.8	175.8	161.6
55°	149.8	150.4	151.8	153.8	155.6	157.9	158.5	158.5	155.9	149.8	139.1
57.5°	117.7	116.8	118.0	119.7	122.0	124.3	126.1	128.1	127.8	123.8	115.1
60°	88.5	88.8	89.6	91.4	93.1	95.1	97.4	99.2	100.1	98.0	92.5
62.5°	64.5	64.5	65.6	67.4	68.2	71.1	72.6	73.4	74.3	74.0	70.6
65°	45.1	45.7	46.3	47.1	48.0	49.7	50.6	52.3	52.9	53.2	50.6
67.5°	31.8	30.9	31.5	32.1	33.0	34.1	35.9	35.9	36.7	36.7	35.0
70°	20.2	20.2	20.5	21.4	22.0	22.3	22.8	23.4	24.3	24.0	24.0
72.5°	13.6	13.3	13.6	13.9	14.2	15.0	15.0	15.3	15.9	16.2	15.0
75°	6.9	7.2	7.8	7.5	8.4	7.8	8.1	9.0	8.7	8.1	8.1
77.5°	5.8	5.8	5.8	5.5	6.1	6.1	5.8	6.4	6.1	6.1	5.8
80°	4.0	4.3	4.0	3.8	4.0	3.8	3.8	3.8	3.8	3.8	3.5
82.5°	3.2	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7
2.5°	539.6	539.3	539.9	539.6	539.6	539.3	539.6	539.3	539.9	538.7	539.0
5°	539.6	539.0	539.3	539.6	539.9	539.3	539.3	539.3	539.9	539.3	539.6
7.5°	538.4	538.1	539.0	539.6	539.3	539.0	539.6	539.3	539.9	539.6	540.1
10°	536.1	536.4	537.0	537.8	538.1	538.4	539.0	539.0	539.9	538.7	539.3
12.5°	532.6	533.8	535.2	535.8	537.0	537.0	537.5	537.8	538.4	538.1	539.0
15°	528.3	529.7	531.5	532.9	534.4	535.2	536.1	536.4	537.3	536.4	536.7
17.5°	523.1	524.8	527.4	529.2	531.5	532.3	533.5	534.1	534.9	534.4	534.7
20°	515.9	517.9	520.8	523.4	524.8	526.8	528.3	529.2	529.7	529.2	529.4
22.5°	505.7	508.6	512.4	514.4	517.3	519.0	519.3	521.4	522.8	521.4	521.9
25°	493.9	496.8	499.7	504.0	506.6	508.6	510.7	510.9	512.4	512.1	511.8
27.5°	474.2	478.0	482.9	486.4	489.8	493.0	495.3	495.9	497.4	496.8	497.1
30°	447.3	451.4	456.0	461.5	466.4	469.6	472.5	474.5	475.9	475.1	474.8
32.5°	409.2	413.2	418.1	423.6	429.4	434.0	437.5	440.1	441.8	441.3	439.8
35°	365.5	366.7	369.8	374.2	379.1	384.0	387.2	390.1	392.1	392.7	392.7
37.5°	320.7	316.9	314.6	314.6	317.5	319.5	322.4	324.1	327.3	328.5	329.4
40°	277.3	268.6	260.5	254.5	250.4	250.1	250.1	251.0	253.9	257.6	261.1
42.5°	238.6	224.7	212.2	201.0	192.9	188.2	186.2	186.5	188.8	192.3	198.1
45°	207.6	190.3	174.7	161.1	150.1	142.8	139.4	139.1	140.8	144.9	151.2
47.5°	183.6	165.1	147.5	131.9	120.0	112.2	108.1	107.0	108.1	111.9	119.4
50°	163.7	144.6	126.4	110.2	97.4	89.4	85.6	84.1	85.6	88.8	96.3
52.5°	145.2	125.5	108.4	92.8	79.2	72.3	68.2	67.4	68.2	72.0	78.1
55°	123.8	107.0	90.2	74.6	62.7	55.8	52.6	51.8	52.6	56.1	62.5
57.5°	102.7	88.2	73.4	59.3	49.2	43.1	40.2	39.0	41.1	43.4	50.9
60°	83.0	71.4	59.0	46.6	38.2	32.7	30.4	30.1	30.6	33.5	38.7
62.5°	65.1	55.5	45.7	35.6	28.6	26.3	23.4	23.1	23.7	25.4	29.5
65°	46.8	40.8	33.3	26.0	20.5	17.3	16.2	16.5	17.1	18.2	22.0
67.5°	32.7	28.3	23.1	18.2	14.2	12.7	11.6	11.3	11.6	13.6	15.6
70°	22.0	19.4	15.6	13.9	9.8	7.8	8.1	7.2	8.4	8.4	10.1
72.5°	14.5	12.7	10.4	8.1	6.9	5.5	5.5	5.2	5.8	6.1	7.5
75°	7.5	5.8	5.8	4.0	2.9	1.4	2.6	2.3	2.0	2.3	2.9
77.5°	5.2	4.3	4.0	3.2	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.2	3.2	2.3	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.7
85°	1.7	1.2	1.2	0.9	1.2	2.0	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.4	1.2
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°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7
2.5°	539.6	539.9	539.9	539.6	539.6	539.0	540.1	539.3	539.6	540.7	539.9
5°	540.1	540.4	540.4	540.1	540.1	540.1	540.4	540.4	540.1	539.9	540.4
7.5°	541.3	541.0	541.0	540.4	540.4	539.9	540.4	539.6	540.1	539.6	540.4
10°	539.9	540.1	539.9	539.6	539.6	539.3	539.3	538.4	538.7	537.8	538.4
12.5°	539.0	538.7	538.7	538.1	537.5	537.0	536.7	535.8	535.8	533.8	534.7
15°	536.7	537.0	536.1	534.9	534.4	532.9	532.3	531.2	530.0	528.6	528.9
17.5°	534.7	533.8	532.6	531.5	529.2	528.0	526.8	525.1	524.5	522.8	522.2
20°	528.6	528.0	526.6	524.5	523.1	520.5	519.3	517.6	516.1	514.4	513.5
22.5°	520.8	520.2	518.5	516.4	514.1	513.0	511.8	508.6	507.2	505.4	505.2
25°	510.9	510.1	508.3	506.0	504.9	501.7	500.5	498.2	497.6	495.9	495.6
27.5°	495.9	494.7	492.7	489.8	487.8	485.8	484.6	482.9	482.3	480.6	480.3
30°	473.4	471.9	467.9	466.7	463.2	461.2	461.2	458.9	459.2	458.0	458.0
32.5°	437.8	435.5	432.3	430.0	427.7	426.5	426.5	425.6	426.2	426.2	426.8
35°	390.7	387.5	385.7	384.3	384.3	385.4	388.9	389.8	391.5	393.0	394.1
37.5°	330.2	329.9	332.0	333.7	338.0	342.9	349.0	354.2	359.1	362.6	366.1
40°	264.9	272.1	277.9	286.0	292.6	302.2	313.2	322.1	330.5	336.6	342.9
42.5°	206.7	216.0	228.1	240.0	251.9	264.9	279.3	291.8	302.7	311.1	317.8
45°	161.1	173.8	188.5	203.6	218.9	235.1	250.1	262.8	274.4	283.1	289.7
47.5°	129.8	143.7	160.5	177.0	194.3	211.4	228.1	239.1	248.7	255.6	261.7
50°	107.3	122.0	139.7	158.5	175.8	192.9	207.3	218.0	225.8	231.9	235.7
52.5°	89.6	105.3	124.0	142.8	160.2	175.8	188.8	196.9	203.3	207.6	211.1
55°	74.0	89.1	106.7	124.3	141.4	156.1	166.8	172.9	177.8	180.4	182.5
57.5°	60.4	74.3	90.5	106.7	121.4	133.6	142.0	148.0	150.4	152.4	152.1
60°	47.4	60.4	75.2	89.1	101.8	111.6	117.7	121.2	122.9	123.8	123.2
62.5°	37.3	49.2	60.4	72.6	81.8	90.2	96.0	96.0	96.9	97.2	98.0
65°	27.8	36.7	46.6	55.5	63.0	68.5	71.7	72.6	73.7	73.4	72.9
67.5°	20.5	27.2	34.4	41.1	46.3	49.7	52.0	54.1	53.8	53.2	52.9
70°	14.2	18.5	24.9	28.9	32.7	36.1	36.7	37.0	37.3	37.6	37.0
72.5°	9.8	13.0	16.5	20.0	22.3	23.7	25.2	25.4	25.4	25.4	25.2
75°	4.9	6.7	9.8	11.3	13.3	13.9	15.0	15.0	15.9	14.7	14.5
77.5°	4.3	5.2	6.9	8.1	9.0	9.8	10.1	11.0	10.7	10.1	10.4
80°	2.6	3.2	4.3	4.9	6.1	6.4	6.7	6.9	6.7	6.9	6.9
82.5°	2.0	2.3	2.9	2.9	3.8	3.8	4.0	4.0	4.3	4.3	4.3
85°	1.2	2.0	1.7	3.5	2.3	2.3	2.9	3.5	2.9	2.9	3.5
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.4	1.7	1.7	2.0	1.7
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):

	165°	170°	175°	180°
0°	538.7	538.7	538.7	538.7
2.5°	539.6	540.1	539.3	539.0
5°	540.4	540.4	539.9	539.9
7.5°	540.4	540.4	539.6	539.0
10°	538.1	538.1	537.3	536.7
12.5°	533.8	533.8	533.5	532.6
15°	528.3	528.3	527.1	526.3
17.5°	520.8	521.4	519.9	519.9
20°	512.7	512.4	511.2	510.7
22.5°	504.3	503.7	503.4	501.7
25°	495.3	494.7	493.9	493.0
27.5°	480.0	479.7	478.8	477.7
30°	456.6	456.3	455.1	455.1
32.5°	426.2	425.9	424.8	425.1
35°	394.7	395.9	395.3	394.1
37.5°	368.4	369.3	369.8	369.3
40°	346.4	349.0	349.3	349.9
42.5°	323.0	326.5	327.6	328.2
45°	294.9	298.1	300.7	300.1
47.5°	266.3	268.6	270.9	269.2
50°	238.8	240.3	241.2	241.2
52.5°	212.8	212.8	212.5	212.8
55°	183.0	183.0	181.9	182.5
57.5°	151.8	152.4	151.5	150.1
60°	122.9	121.4	120.9	120.0
62.5°	95.7	95.7	93.7	96.3
65°	71.7	70.8	70.0	69.7
67.5°	52.0	51.8	50.9	50.6
70°	36.7	35.6	35.3	34.7
72.5°	24.6	24.6	24.0	24.0
75°	15.0	13.6	13.3	13.6
77.5°	10.4	10.1	10.1	9.8
80°	6.9	6.7	7.2	6.4
82.5°	4.3	4.6	4.3	4.6
85°	2.9	3.5	3.2	3.2
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)