

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: P244656

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244656
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: LSR8B10D010 EC8B109730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

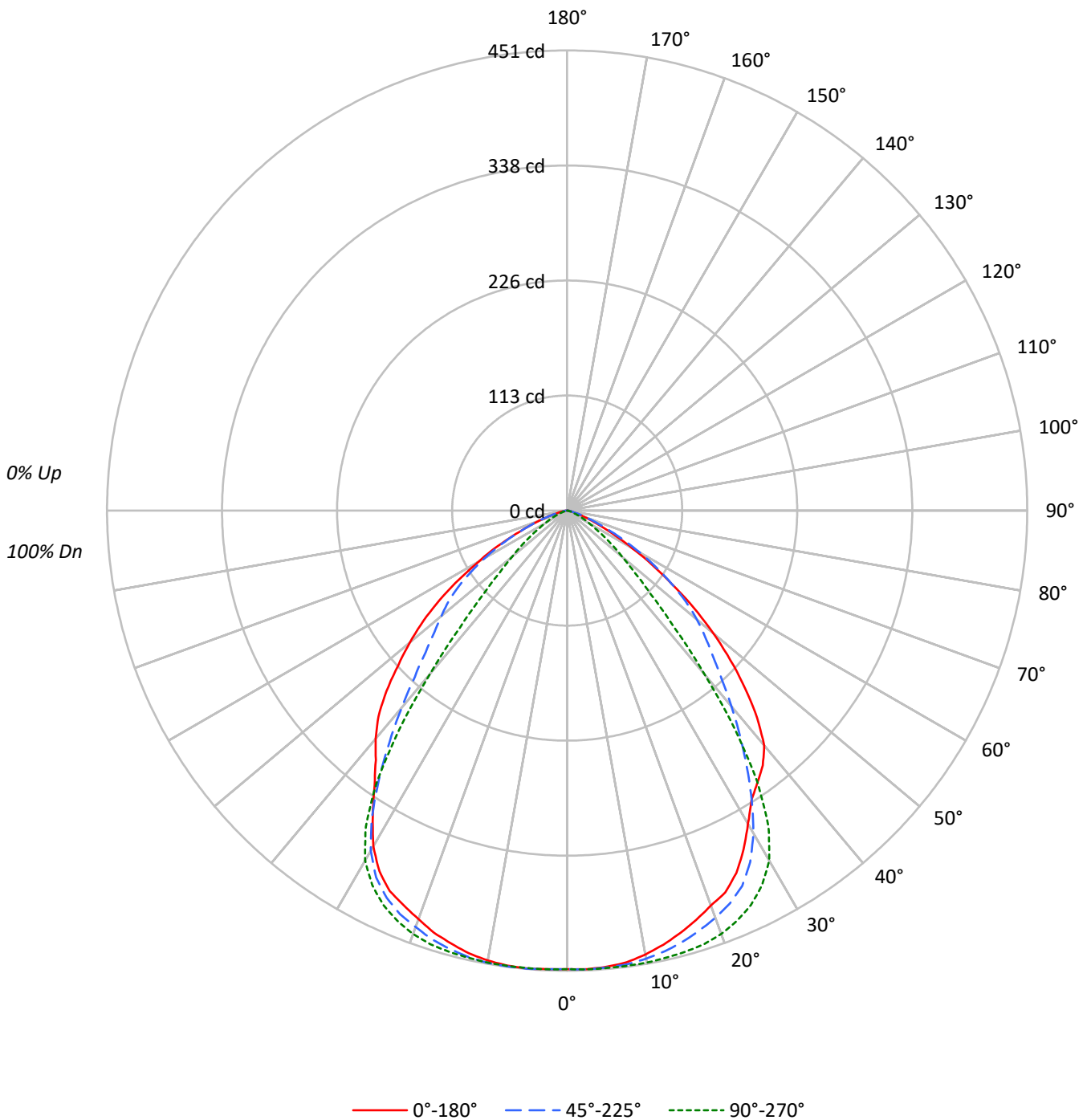
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	52	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°	42.9	5.0
10°-20°	124.6	14.6
20°-30°	189.1	22.2
30°-40°	198.6	23.3
40°-50°	148.9	17.5
50°-60°	95.5	11.2
60°-70°	40.9	4.8
70°-80°	9.7	1.1
80°-90°	1.8	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°	356.6	41.9
0°-40°	555.2	65.2
0°-60°	799.7	93.9
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	450	450	450	450	450	
5°	449	450	450	451	450	43
15°	428	438	448	445	439	121
25°	392	406	426	419	411	179
35°	325	307	326	322	329	204
45°	247	202	116	196	250	189
55°	125	125	43	130	152	113
65°	38	44	14	57	58	40
75°	6	7	2	12	11	8
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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	449.8	450.3	450.0	450.0	449.8	450.0	450.0	450.5	450.5	450.0	449.8
5°	448.8	449.3	449.3	448.8	448.8	450.0	449.3	449.8	449.8	449.5	449.5
7.5°	446.6	446.6	447.6	446.9	446.9	447.6	447.4	447.8	448.3	448.6	448.6
10°	441.8	442.3	442.5	442.5	442.8	443.5	444.0	445.0	445.4	445.9	446.2
12.5°	435.8	436.5	436.7	436.5	437.2	438.2	439.4	440.6	441.3	442.3	443.0
15°	428.5	428.5	429.0	429.7	430.2	431.7	432.9	434.3	436.3	437.5	438.7
17.5°	420.6	421.1	421.8	421.8	422.8	425.2	425.9	428.1	430.2	431.4	433.9
20°	411.9	412.4	413.1	413.6	414.8	416.7	418.2	420.1	422.5	424.7	427.1
22.5°	405.1	404.2	404.6	405.1	406.3	408.0	409.7	412.1	414.5	416.7	419.1
25°	392.1	392.3	393.1	393.5	395.0	396.4	398.4	401.3	403.4	405.9	408.5
27.5°	374.5	374.7	375.9	375.9	377.1	379.6	380.8	383.2	386.1	388.5	391.6
30°	354.5	354.9	354.9	355.9	356.6	357.8	359.0	361.5	362.9	365.1	369.4
32.5°	336.1	336.6	336.4	336.1	335.4	335.2	334.9	335.4	335.9	336.6	338.3
35°	325.3	324.1	323.1	321.4	319.5	317.1	314.9	312.0	309.3	307.2	304.8
37.5°	314.9	314.6	313.2	310.8	306.9	302.6	297.5	291.2	285.0	278.2	271.7
40°	300.4	299.7	298.5	295.1	290.8	285.5	278.7	271.0	260.8	250.5	239.8
42.5°	275.8	276.0	274.6	271.9	267.8	262.8	255.8	247.3	236.5	224.2	210.4
45°	247.1	247.1	246.6	244.4	241.5	237.4	232.1	225.1	214.5	202.0	187.2
47.5°	217.2	217.4	216.7	216.2	215.0	212.3	208.5	203.2	195.7	183.6	168.9
50°	186.8	186.8	188.0	187.7	187.7	186.8	185.1	181.9	175.4	165.8	152.0
52.5°	156.4	156.8	157.6	158.5	159.7	161.7	159.7	158.3	154.2	146.7	134.9
55°	125.0	125.5	126.7	128.4	129.8	131.7	132.2	132.2	130.1	125.0	116.1
57.5°	98.2	97.5	98.5	99.9	101.8	103.8	105.2	106.9	106.7	103.3	96.0
60°	73.8	74.1	74.8	76.3	77.7	79.4	81.3	82.8	83.5	81.8	77.2
62.5°	53.8	53.8	54.8	56.2	56.9	59.4	60.6	61.3	62.0	61.8	58.9
65°	37.6	38.1	38.6	39.3	40.1	41.5	42.2	43.7	44.2	44.4	42.2
67.5°	26.5	25.8	26.3	26.8	27.5	28.5	29.9	29.9	30.6	30.6	29.2
70°	16.9	16.9	17.1	17.9	18.3	18.6	19.1	19.5	20.3	20.0	20.0
72.5°	11.3	11.1	11.3	11.6	11.8	12.5	12.5	12.8	13.3	13.5	12.5
75°	5.8	6.0	6.5	6.3	7.0	6.5	6.8	7.5	7.2	6.8	6.8
77.5°	4.8	4.8	4.8	4.6	5.1	5.1	4.8	5.3	5.1	5.1	4.8
80°	3.4	3.6	3.4	3.1	3.4	3.1	3.1	3.1	3.1	3.1	2.9
82.5°	2.7	2.2	2.4	2.2	2.4	2.4	2.2	1.9	1.9	2.2	1.9
85°	1.9	1.4	1.7	1.7	1.4	1.4	1.4	1.4	1.4	1.2	1.2
87.5°	1.2	0.7	0.7	0.7	1.0	1.0	1.0	0.7	1.0	1.0	0.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	450.3	450.0	450.5	450.3	450.3	450.0	450.3	450.0	450.5	449.5	449.8
5°	450.3	449.8	450.0	450.3	450.5	450.0	450.0	450.0	450.5	450.0	450.3
7.5°	449.3	449.0	449.8	450.3	450.0	449.8	450.3	450.0	450.5	450.3	450.7
10°	447.4	447.6	448.1	448.8	449.0	449.3	449.8	449.8	450.5	449.5	450.0
12.5°	444.5	445.4	446.6	447.1	448.1	448.1	448.6	448.8	449.3	449.0	449.8
15°	440.8	442.1	443.5	444.7	445.9	446.6	447.4	447.6	448.3	447.6	447.8
17.5°	436.5	437.9	440.1	441.6	443.5	444.2	445.2	445.7	446.4	445.9	446.2
20°	430.5	432.2	434.6	436.7	437.9	439.6	440.8	441.6	442.1	441.6	441.8
22.5°	422.0	424.4	427.6	429.3	431.7	433.1	433.4	435.1	436.3	435.1	435.5
25°	412.1	414.5	417.0	420.6	422.8	424.4	426.1	426.4	427.6	427.3	427.1
27.5°	395.7	398.9	403.0	405.9	408.8	411.4	413.3	413.8	415.0	414.5	414.8
30°	373.3	376.7	380.5	385.1	389.2	391.9	394.3	396.0	397.2	396.4	396.2
32.5°	341.4	344.8	348.9	353.5	358.3	362.2	365.1	367.3	368.7	368.2	367.0
35°	305.0	306.0	308.6	312.2	316.3	320.4	323.1	325.5	327.2	327.7	327.7
37.5°	267.6	264.5	262.5	262.5	264.9	266.6	269.0	270.5	273.1	274.1	274.8
40°	231.4	224.2	217.4	212.3	209.0	208.7	208.7	209.4	211.9	215.0	217.9
42.5°	199.1	187.5	177.1	167.7	160.9	157.1	155.4	155.6	157.6	160.5	165.3
45°	173.2	158.8	145.7	134.4	125.2	119.2	116.3	116.1	117.5	120.9	126.2
47.5°	153.2	137.8	123.1	110.0	100.1	93.6	90.2	89.3	90.2	93.4	99.7
50°	136.6	120.7	105.4	91.9	81.3	74.6	71.4	70.2	71.4	74.1	80.3
52.5°	121.1	104.7	90.5	77.5	66.1	60.3	56.9	56.2	56.9	60.1	65.2
55°	103.3	89.3	75.3	62.3	52.4	46.6	43.9	43.2	43.9	46.8	52.1
57.5°	85.7	73.6	61.3	49.5	41.0	36.0	33.5	32.6	34.3	36.2	42.5
60°	69.2	59.6	49.2	38.8	31.9	27.3	25.3	25.1	25.6	28.0	32.3
62.5°	54.3	46.3	38.1	29.7	23.9	22.0	19.5	19.3	19.8	21.2	24.6
65°	39.1	34.0	27.7	21.7	17.1	14.5	13.5	13.8	14.2	15.2	18.3
67.5°	27.3	23.6	19.3	15.2	11.8	10.6	9.7	9.4	9.7	11.3	13.0
70°	18.3	16.2	13.0	11.6	8.2	6.5	6.8	6.0	7.0	7.0	8.4
72.5°	12.1	10.6	8.7	6.8	5.8	4.6	4.6	4.3	4.8	5.1	6.3
75°	6.3	4.8	4.8	3.4	2.4	1.2	2.2	1.9	1.7	1.9	2.4
77.5°	4.3	3.6	3.4	2.7	2.4	1.9	1.9	1.9	1.9	2.2	2.4
80°	2.7	2.7	1.9	1.7	1.4	1.2	1.4	1.4	1.4	1.4	1.7
82.5°	1.7	1.4	1.4	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.4
85°	1.4	1.0	1.0	0.7	1.0	1.7	0.7	1.0	1.0	1.0	0.7
87.5°	0.5	0.7	0.7	0.7	0.5	0.2	0.5	0.7	0.7	1.2	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	450.3	450.5	450.5	450.3	450.3	449.8	450.7	450.0	450.3	451.2	450.5
5°	450.7	451.0	451.0	450.7	450.7	450.7	451.0	451.0	450.7	450.5	451.0
7.5°	451.7	451.5	451.5	451.0	451.0	450.5	451.0	450.3	450.7	450.3	451.0
10°	450.5	450.7	450.5	450.3	450.3	450.0	450.0	449.3	449.5	448.8	449.3
12.5°	449.8	449.5	449.5	449.0	448.6	448.1	447.8	447.1	447.1	445.4	446.2
15°	447.8	448.1	447.4	446.4	445.9	444.7	444.2	443.3	442.3	441.1	441.3
17.5°	446.2	445.4	444.5	443.5	441.6	440.6	439.6	438.2	437.7	436.3	435.8
20°	441.1	440.6	439.4	437.7	436.5	434.3	433.4	431.9	430.7	429.3	428.5
22.5°	434.6	434.1	432.6	431.0	429.0	428.1	427.1	424.4	423.2	421.8	421.5
25°	426.4	425.6	424.2	422.3	421.3	418.6	417.7	415.7	415.3	413.8	413.6
27.5°	413.8	412.9	411.2	408.8	407.1	405.4	404.4	403.0	402.5	401.0	400.8
30°	395.0	393.8	390.4	389.5	386.6	384.9	384.9	382.9	383.2	382.2	382.2
32.5°	365.3	363.4	360.7	358.8	356.9	355.9	355.9	355.2	355.7	355.7	356.2
35°	326.0	323.3	321.9	320.7	320.7	321.6	324.5	325.3	326.7	327.9	328.9
37.5°	275.6	275.3	277.0	278.5	282.1	286.2	291.2	295.6	299.7	302.6	305.5
40°	221.0	227.1	231.9	238.6	244.2	252.2	261.3	268.8	275.8	280.9	286.2
42.5°	172.5	180.2	190.4	200.3	210.2	221.0	233.1	243.5	252.6	259.6	265.2
45°	134.4	145.0	157.3	169.9	182.7	196.2	208.7	219.3	229.0	236.2	241.8
47.5°	108.3	119.9	133.9	147.7	162.2	176.4	190.4	199.6	207.5	213.3	218.4
50°	89.5	101.8	116.5	132.2	146.7	160.9	173.0	181.9	188.5	193.5	196.7
52.5°	74.8	87.8	103.5	119.2	133.7	146.7	157.6	164.3	169.6	173.2	176.1
55°	61.8	74.3	89.0	103.8	118.0	130.3	139.2	144.3	148.4	150.6	152.3
57.5°	50.4	62.0	75.5	89.0	101.3	111.5	118.5	123.5	125.5	127.2	126.9
60°	39.6	50.4	62.7	74.3	84.9	93.1	98.2	101.1	102.5	103.3	102.8
62.5°	31.1	41.0	50.4	60.6	68.3	75.3	80.1	80.1	80.8	81.1	81.8
65°	23.2	30.6	38.8	46.3	52.6	57.2	59.8	60.6	61.5	61.3	60.8
67.5°	17.1	22.7	28.7	34.3	38.6	41.5	43.4	45.1	44.9	44.4	44.2
70°	11.8	15.4	20.8	24.1	27.3	30.2	30.6	30.9	31.1	31.4	30.9
72.5°	8.2	10.9	13.8	16.6	18.6	19.8	21.0	21.2	21.2	21.2	21.0
75°	4.1	5.5	8.2	9.4	11.1	11.6	12.5	12.5	13.3	12.3	12.1
77.5°	3.6	4.3	5.8	6.8	7.5	8.2	8.4	9.2	8.9	8.4	8.7
80°	2.2	2.7	3.6	4.1	5.1	5.3	5.5	5.8	5.5	5.8	5.8
82.5°	1.7	1.9	2.4	2.4	3.1	3.1	3.4	3.4	3.6	3.6	3.6
85°	1.0	1.7	1.4	2.9	1.9	1.9	2.4	2.9	2.4	2.4	2.9
87.5°	1.0	1.0	0.7	1.0	1.0	1.0	1.2	1.4	1.4	1.7	1.4
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°	449.5	449.5	449.5	449.5
2.5°	450.3	450.7	450.0	449.8
5°	451.0	451.0	450.5	450.5
7.5°	451.0	451.0	450.3	449.8
10°	449.0	449.0	448.3	447.8
12.5°	445.4	445.4	445.2	444.5
15°	440.8	440.8	439.9	439.2
17.5°	434.6	435.1	433.9	433.9
20°	427.8	427.6	426.6	426.1
22.5°	420.8	420.3	420.1	418.6
25°	413.3	412.9	412.1	411.4
27.5°	400.6	400.3	399.6	398.6
30°	381.0	380.8	379.8	379.8
32.5°	355.7	355.4	354.5	354.7
35°	329.4	330.3	329.9	328.9
37.5°	307.4	308.1	308.6	308.1
40°	289.1	291.2	291.5	292.0
42.5°	269.5	272.4	273.4	273.9
45°	246.1	248.8	250.9	250.5
47.5°	222.2	224.2	226.1	224.6
50°	199.3	200.5	201.2	201.2
52.5°	177.6	177.6	177.4	177.6
55°	152.7	152.7	151.8	152.3
57.5°	126.7	127.2	126.4	125.2
60°	102.5	101.3	100.9	100.1
62.5°	79.9	79.9	78.2	80.3
65°	59.8	59.1	58.4	58.1
67.5°	43.4	43.2	42.5	42.2
70°	30.6	29.7	29.4	29.0
72.5°	20.5	20.5	20.0	20.0
75°	12.5	11.3	11.1	11.3
77.5°	8.7	8.4	8.4	8.2
80°	5.8	5.5	6.0	5.3
82.5°	3.6	3.9	3.6	3.9
85°	2.4	2.9	2.7	2.7
87.5°	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)