

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: P246241

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246241
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1141.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

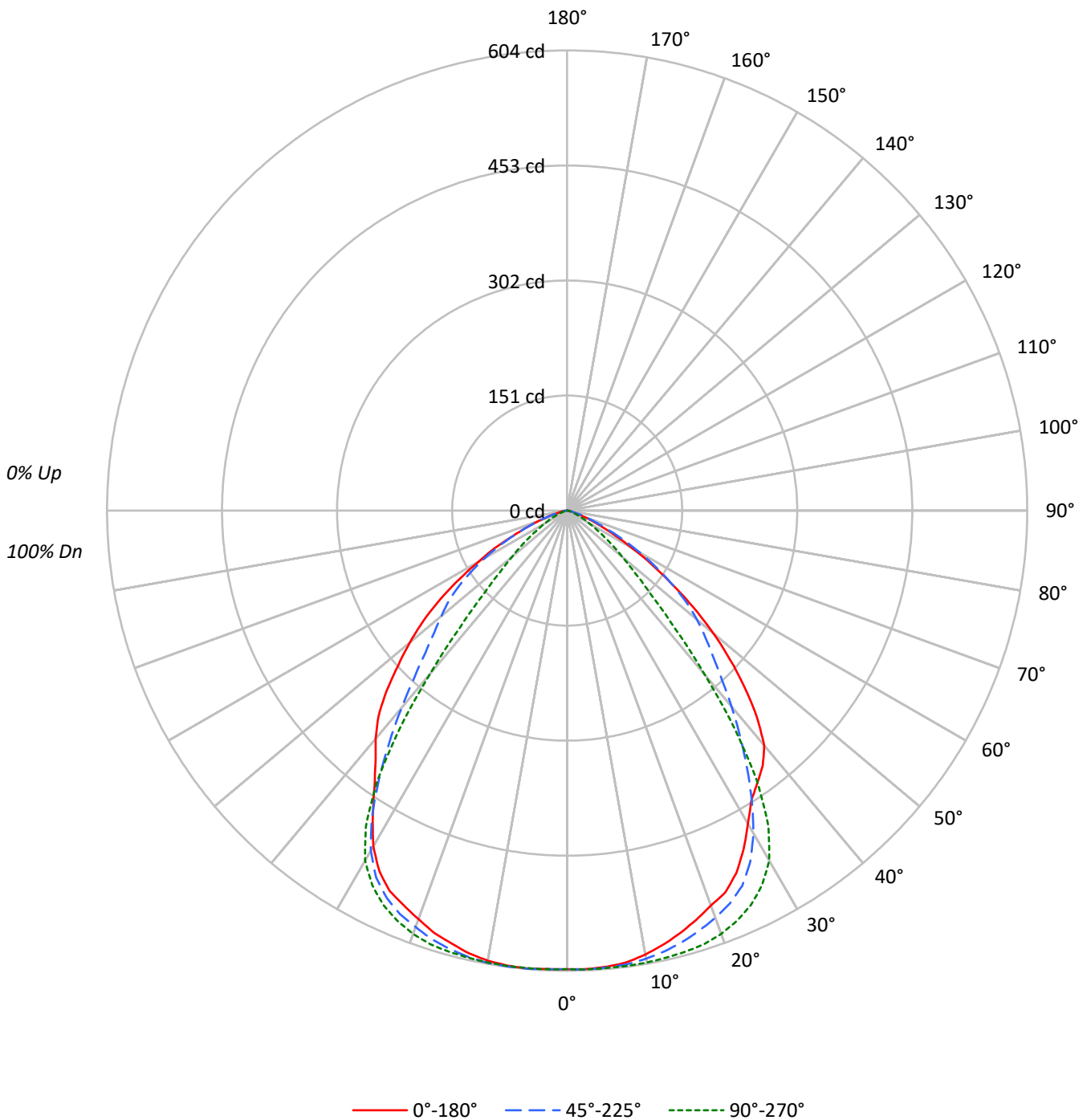
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	57.5	5.0
10°-20°	166.9	14.6
20°-30°	253.3	22.2
30°-40°	266.0	23.3
40°-50°	199.4	17.5
50°-60°	127.9	11.2
60°-70°	54.7	4.8
70°-80°	12.9	1.1
80°-90°	2.4	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°	477.6	41.9
0°-40°	743.5	65.2
0°-60°	1070.9	93.9
0°-90°	1141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1141.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	601	602	603	604	603	57
15°	574	586	599	596	588	162
25°	525	544	571	561	551	240
35°	436	411	436	431	440	273
45°	331	270	155	263	335	253
55°	167	167	58	174	204	152
65°	50	60	18	77	78	54
75°	8	9	3	16	15	11
85°	3	2	1	3	4	3
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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	602.3	603.0	602.7	602.7	602.3	602.7	602.7	603.3	603.3	602.7	602.3
5°	601.0	601.7	601.7	601.0	601.0	602.7	601.7	602.3	602.3	602.0	602.0
7.5°	598.1	598.1	599.4	598.5	598.5	599.4	599.1	599.8	600.4	600.7	600.7
10°	591.7	592.3	592.6	592.6	593.0	593.9	594.6	595.9	596.5	597.2	597.5
12.5°	583.6	584.6	584.9	584.6	585.5	586.8	588.4	590.1	591.0	592.3	593.3
15°	573.9	573.9	574.5	575.5	576.2	578.1	579.7	581.7	584.2	585.9	587.5
17.5°	563.2	563.9	564.9	564.9	566.1	569.4	570.3	573.3	576.2	577.8	581.0
20°	551.6	552.2	553.2	553.9	555.5	558.1	560.0	562.6	565.8	568.7	572.0
22.5°	542.6	541.3	541.9	542.6	544.2	546.4	548.7	551.9	555.2	558.1	561.3
25°	525.1	525.4	526.4	527.0	529.0	530.9	533.5	537.4	540.3	543.5	547.1
27.5°	501.5	501.8	503.5	503.5	505.1	508.3	509.9	513.1	517.0	520.3	524.5
30°	474.7	475.3	475.3	476.6	477.6	479.2	480.8	484.1	486.0	488.9	494.7
32.5°	450.1	450.8	450.5	450.1	449.2	448.8	448.5	449.2	449.8	450.8	453.0
35°	435.6	434.0	432.7	430.4	427.8	424.6	421.7	417.8	414.3	411.4	408.1
37.5°	421.7	421.4	419.4	416.2	411.0	405.2	398.4	390.0	381.6	372.6	363.9
40°	402.3	401.3	399.7	395.2	389.4	382.3	373.2	362.9	349.3	335.4	321.2
42.5°	369.3	369.7	367.7	364.2	358.7	351.9	342.5	331.2	316.7	300.2	281.8
45°	330.9	330.9	330.3	327.3	323.5	318.0	310.9	301.5	287.3	270.5	250.8
47.5°	290.8	291.2	290.2	289.5	287.9	284.4	279.2	272.1	262.1	245.9	226.2
50°	250.1	250.1	251.7	251.4	251.4	250.1	247.9	243.6	234.9	222.0	203.6
52.5°	209.4	210.0	211.0	212.3	213.9	216.5	213.9	212.0	206.5	196.5	180.6
55°	167.4	168.0	169.6	171.9	173.9	176.4	177.1	177.1	174.2	167.4	155.4
57.5°	131.5	130.5	131.8	133.8	136.4	139.0	140.9	143.2	142.8	138.3	128.6
60°	98.9	99.2	100.2	102.1	104.1	106.3	108.9	110.8	111.8	109.5	103.4
62.5°	72.1	72.1	73.4	75.3	76.3	79.5	81.1	82.1	83.0	82.7	78.8
65°	50.4	51.1	51.7	52.7	53.6	55.6	56.5	58.5	59.1	59.5	56.5
67.5°	35.5	34.6	35.2	35.9	36.8	38.1	40.1	40.1	41.0	41.0	39.1
70°	22.6	22.6	22.9	23.9	24.6	24.9	25.5	26.2	27.1	26.8	26.8
72.5°	15.2	14.9	15.2	15.5	15.8	16.8	16.8	17.1	17.8	18.1	16.8
75°	7.8	8.1	8.7	8.4	9.4	8.7	9.0	10.0	9.7	9.0	9.0
77.5°	6.5	6.5	6.5	6.1	6.8	6.8	6.5	7.1	6.8	6.8	6.5
80°	4.5	4.8	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.6	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	603.0	602.7	603.3	603.0	603.0	602.7	603.0	602.7	603.3	602.0	602.3
5°	603.0	602.3	602.7	603.0	603.3	602.7	602.7	602.7	603.3	602.7	603.0
7.5°	601.7	601.4	602.3	603.0	602.7	602.3	603.0	602.7	603.3	603.0	603.6
10°	599.1	599.4	600.1	601.0	601.4	601.7	602.3	602.3	603.3	602.0	602.7
12.5°	595.2	596.5	598.1	598.8	600.1	600.1	600.7	601.0	601.7	601.4	602.3
15°	590.4	592.0	593.9	595.6	597.2	598.1	599.1	599.4	600.4	599.4	599.8
17.5°	584.6	586.5	589.4	591.3	593.9	594.9	596.2	596.8	597.8	597.2	597.5
20°	576.5	578.8	582.0	584.9	586.5	588.8	590.4	591.3	592.0	591.3	591.7
22.5°	565.2	568.4	572.6	574.9	578.1	580.0	580.4	582.6	584.2	582.6	583.3
25°	551.9	555.2	558.4	563.2	566.1	568.4	570.7	571.0	572.6	572.3	572.0
27.5°	530.0	534.2	539.6	543.5	547.4	551.0	553.5	554.2	555.8	555.2	555.5
30°	499.9	504.4	509.6	515.7	521.2	524.8	528.0	530.3	531.9	530.9	530.6
32.5°	457.2	461.8	467.3	473.4	479.9	485.0	488.9	491.8	493.8	493.1	491.5
35°	408.5	409.7	413.3	418.1	423.6	429.1	432.7	435.9	438.2	438.8	438.8
37.5°	358.4	354.2	351.6	351.6	354.8	357.1	360.3	362.2	365.8	367.1	368.1
40°	309.9	300.2	291.2	284.4	279.8	279.5	279.5	280.5	283.7	287.9	291.8
42.5°	266.6	251.1	237.2	224.6	215.5	210.4	208.1	208.4	211.0	214.9	221.4
45°	232.0	212.6	195.2	180.0	167.7	159.6	155.8	155.4	157.4	161.9	169.0
47.5°	205.2	184.5	164.8	147.4	134.1	125.4	120.9	119.6	120.9	125.1	133.5
50°	182.9	161.6	141.2	123.1	108.9	99.9	95.6	94.0	95.6	99.2	107.6
52.5°	162.2	140.2	121.2	103.7	88.5	80.8	76.3	75.3	76.3	80.5	87.3
55°	138.3	119.6	100.8	83.4	70.1	62.4	58.8	57.8	58.8	62.7	69.8
57.5°	114.7	98.6	82.1	66.2	54.9	48.1	44.9	43.6	45.9	48.5	56.9
60°	92.7	79.8	65.9	52.0	42.7	36.5	33.9	33.6	34.3	37.5	43.3
62.5°	72.7	62.0	51.1	39.7	32.0	29.4	26.2	25.9	26.5	28.4	33.0
65°	52.4	45.6	37.2	29.1	22.9	19.4	18.1	18.4	19.1	20.4	24.6
67.5°	36.5	31.7	25.9	20.4	15.8	14.2	12.9	12.6	12.9	15.2	17.5
70°	24.6	21.6	17.5	15.5	11.0	8.7	9.0	8.1	9.4	9.4	11.3
72.5°	16.2	14.2	11.6	9.0	7.8	6.1	6.1	5.8	6.5	6.8	8.4
75°	8.4	6.5	6.5	4.5	3.2	1.6	2.9	2.6	2.3	2.6	3.2
77.5°	5.8	4.8	4.5	3.6	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.6	3.6	2.6	2.3	1.9	1.6	1.9	1.9	1.9	1.9	2.3
82.5°	2.3	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.6	1.0	1.0	1.0	0.6	0.3	0.6	1.0	1.0	1.6	1.3
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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	603.0	603.3	603.3	603.0	603.0	602.3	603.6	602.7	603.0	604.3	603.3
5°	603.6	604.0	604.0	603.6	603.6	603.6	604.0	604.0	603.6	603.3	604.0
7.5°	604.9	604.6	604.6	604.0	604.0	603.3	604.0	603.0	603.6	603.0	604.0
10°	603.3	603.6	603.3	603.0	603.0	602.7	602.7	601.7	602.0	601.0	601.7
12.5°	602.3	602.0	602.0	601.4	600.7	600.1	599.8	598.8	598.8	596.5	597.5
15°	599.8	600.1	599.1	597.8	597.2	595.6	594.9	593.6	592.3	590.7	591.0
17.5°	597.5	596.5	595.2	593.9	591.3	590.1	588.8	586.8	586.2	584.2	583.6
20°	590.7	590.1	588.4	586.2	584.6	581.7	580.4	578.4	576.8	574.9	573.9
22.5°	582.0	581.3	579.4	577.1	574.5	573.3	572.0	568.4	566.8	564.9	564.5
25°	571.0	570.0	568.1	565.5	564.2	560.7	559.4	556.8	556.1	554.2	553.9
27.5°	554.2	552.9	550.6	547.4	545.1	542.9	541.6	539.6	539.0	537.1	536.7
30°	529.0	527.4	522.8	521.6	517.7	515.4	515.4	512.8	513.1	511.9	511.9
32.5°	489.2	486.7	483.1	480.5	477.9	476.6	476.6	475.7	476.3	476.3	477.0
35°	436.6	433.0	431.1	429.5	429.5	430.7	434.6	435.6	437.5	439.2	440.4
37.5°	369.0	368.7	371.0	372.9	377.8	383.2	390.0	395.9	401.3	405.2	409.1
40°	296.0	304.1	310.5	319.6	327.0	337.7	350.0	360.0	369.3	376.1	383.2
42.5°	231.0	241.4	255.0	268.2	281.5	296.0	312.2	326.1	338.3	347.7	355.1
45°	180.0	194.2	210.7	227.5	244.6	262.7	279.5	293.7	306.7	316.4	323.8
47.5°	145.1	160.6	179.3	197.8	217.2	236.2	255.0	267.2	277.9	285.7	292.4
50°	119.9	136.4	156.1	177.1	196.5	215.5	231.7	243.6	252.4	259.2	263.4
52.5°	100.2	117.6	138.6	159.6	179.0	196.5	211.0	220.1	227.2	232.0	235.9
55°	82.7	99.5	119.2	139.0	158.0	174.5	186.4	193.2	198.7	201.6	203.9
57.5°	67.5	83.0	101.1	119.2	135.7	149.3	158.7	165.4	168.0	170.3	170.0
60°	53.0	67.5	84.0	99.5	113.7	124.7	131.5	135.4	137.3	138.3	137.7
62.5°	41.7	54.9	67.5	81.1	91.4	100.8	107.3	107.3	108.3	108.6	109.5
65°	31.0	41.0	52.0	62.0	70.4	76.6	80.1	81.1	82.4	82.1	81.4
67.5°	22.9	30.4	38.5	45.9	51.7	55.6	58.2	60.4	60.1	59.5	59.1
70°	15.8	20.7	27.8	32.3	36.5	40.4	41.0	41.4	41.7	42.0	41.4
72.5°	11.0	14.5	18.4	22.3	24.9	26.5	28.1	28.4	28.4	28.4	28.1
75°	5.5	7.4	11.0	12.6	14.9	15.5	16.8	16.8	17.8	16.5	16.2
77.5°	4.8	5.8	7.8	9.0	10.0	11.0	11.3	12.3	12.0	11.3	11.6
80°	2.9	3.6	4.8	5.5	6.8	7.1	7.4	7.8	7.4	7.8	7.8
82.5°	2.3	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.3	1.9	3.9	2.6	2.6	3.2	3.9	3.2	3.2	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.3	1.9
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°	602.0	602.0	602.0	602.0
2.5°	603.0	603.6	602.7	602.3
5°	604.0	604.0	603.3	603.3
7.5°	604.0	604.0	603.0	602.3
10°	601.4	601.4	600.4	599.8
12.5°	596.5	596.5	596.2	595.2
15°	590.4	590.4	589.1	588.1
17.5°	582.0	582.6	581.0	581.0
20°	572.9	572.6	571.3	570.7
22.5°	563.6	562.9	562.6	560.7
25°	553.5	552.9	551.9	551.0
27.5°	536.4	536.1	535.1	533.8
30°	510.2	509.9	508.6	508.6
32.5°	476.3	476.0	474.7	475.0
35°	441.1	442.4	441.7	440.4
37.5°	411.7	412.7	413.3	412.7
40°	387.1	390.0	390.4	391.0
42.5°	361.0	364.8	366.1	366.8
45°	329.6	333.2	336.1	335.4
47.5°	297.6	300.2	302.8	300.8
50°	266.9	268.5	269.5	269.5
52.5°	237.8	237.8	237.5	237.8
55°	204.5	204.5	203.3	203.9
57.5°	169.6	170.3	169.3	167.7
60°	137.3	135.7	135.1	134.1
62.5°	107.0	107.0	104.7	107.6
65°	80.1	79.2	78.2	77.9
67.5°	58.2	57.8	56.9	56.5
70°	41.0	39.7	39.4	38.8
72.5°	27.5	27.5	26.8	26.8
75°	16.8	15.2	14.9	15.2
77.5°	11.6	11.3	11.3	11.0
80°	7.8	7.4	8.1	7.1
82.5°	4.8	5.2	4.8	5.2
85°	3.2	3.9	3.6	3.6
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)