

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: **LD8B15D010 ER8B15930 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: LD8B15D010 ER8B15930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1144.5 lumens
Efficiency: N/A
Efficacy: 79.5 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

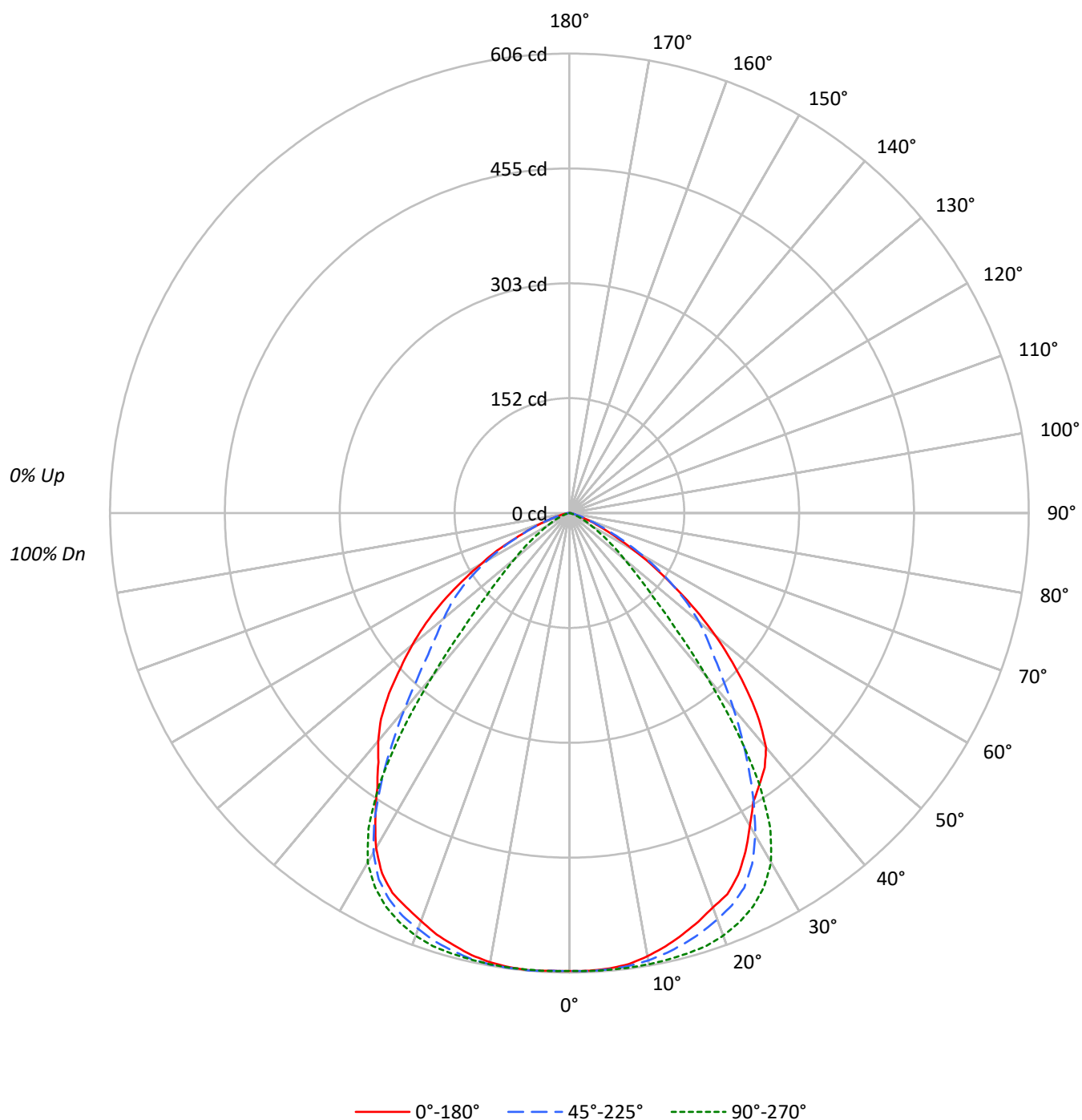
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	57.6	5.0
10°-20°	167.4	14.6
20°-30°	254.0	22.2
30°-40°	266.8	23.3
40°-50°	200.0	17.5
50°-60°	128.4	11.2
60°-70°	54.9	4.8
70°-80°	13.0	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°	479.0	41.9
0°-40°	745.9	65.2
0°-60°	1074.3	93.9
0°-90°	1144.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	603	604	605	606	605	57
15°	576	588	601	597	590	162
25°	527	545	573	562	553	241
35°	437	413	437	432	442	274
45°	332	271	156	264	336	254
55°	168	168	58	175	205	152
65°	51	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°	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9
2.5°	604.2	604.9	604.6	604.6	604.2	604.6	604.6	605.2	605.2	604.6	604.2
5°	602.9	603.5	603.5	602.9	602.9	604.6	603.5	604.2	604.2	603.9	603.9
7.5°	600.0	600.0	601.3	600.3	600.3	601.3	601.0	601.6	602.3	602.5	602.5
10°	593.5	594.1	594.5	594.5	594.8	595.8	596.4	597.7	598.4	599.1	599.4
12.5°	585.4	586.4	586.7	586.4	587.4	588.6	590.3	591.9	592.9	594.1	595.1
15°	575.6	575.6	576.3	577.3	578.0	579.9	581.5	583.5	586.1	587.6	589.3
17.5°	565.0	565.7	566.6	566.6	567.9	571.1	572.2	575.1	578.0	579.6	582.8
20°	553.3	554.0	554.9	555.6	557.2	559.8	561.7	564.3	567.6	570.5	573.7
22.5°	544.2	542.9	543.6	544.2	545.8	548.2	550.4	553.7	556.9	559.8	563.1
25°	526.8	527.1	528.0	528.7	530.7	532.6	535.2	539.1	542.0	545.3	548.7
27.5°	503.1	503.4	505.0	505.0	506.7	509.8	511.5	514.8	518.7	521.8	526.1
30°	476.2	476.8	476.8	478.1	479.1	480.7	482.4	485.6	487.5	490.4	496.3
32.5°	451.5	452.2	451.9	451.5	450.5	450.2	449.9	450.5	451.2	452.2	454.5
35°	437.0	435.3	434.1	431.8	429.1	426.0	423.0	419.1	415.6	412.6	409.4
37.5°	423.0	422.7	420.7	417.5	412.3	406.5	399.6	391.2	382.8	373.7	365.0
40°	403.6	402.6	401.0	396.4	390.6	383.5	374.4	364.0	350.4	336.4	322.2
42.5°	370.5	370.8	368.9	365.3	359.8	353.0	343.6	332.3	317.7	301.1	282.6
45°	331.9	331.9	331.3	328.3	324.4	318.9	311.9	302.4	288.2	271.3	251.6
47.5°	291.7	292.0	291.1	290.5	288.8	285.3	280.0	273.0	262.9	246.6	226.9
50°	250.9	250.9	252.6	252.2	252.2	250.9	248.6	244.4	235.6	222.7	204.2
52.5°	210.1	210.7	211.6	213.0	214.6	217.1	214.6	212.7	207.2	197.1	181.2
55°	167.9	168.6	170.2	172.4	174.4	177.0	177.7	177.7	174.8	167.9	155.9
57.5°	131.9	130.9	132.3	134.2	136.8	139.3	141.4	143.6	143.3	138.8	129.0
60°	99.2	99.5	100.4	102.5	104.4	106.6	109.2	111.2	112.2	109.9	103.7
62.5°	72.3	72.3	73.5	75.6	76.5	79.7	81.4	82.3	83.3	83.0	79.1
65°	50.6	51.2	51.9	52.8	53.8	55.7	56.7	58.6	59.3	59.6	56.7
67.5°	35.6	34.6	35.3	36.0	37.0	38.2	40.2	40.2	41.1	41.1	39.2
70°	22.6	22.6	23.0	24.0	24.7	25.0	25.6	26.2	27.2	26.9	26.9
72.5°	15.2	14.9	15.2	15.6	15.9	16.8	16.8	17.2	17.8	18.2	16.8
75°	7.7	8.1	8.7	8.4	9.4	8.7	9.1	10.1	9.8	9.1	9.1
77.5°	6.5	6.5	6.5	6.2	6.8	6.8	6.5	7.2	6.8	6.8	6.5
80°	4.5	4.8	4.5	4.3	4.5	4.3	4.3	4.3	4.3	4.3	3.9
82.5°	3.6	2.9	3.3	2.9	3.3	3.3	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.2	2.2	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	0.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9
2.5°	604.9	604.6	605.2	604.9	604.9	604.6	604.9	604.6	605.2	603.9	604.2
5°	604.9	604.2	604.6	604.9	605.2	604.6	604.6	604.6	605.2	604.6	604.9
7.5°	603.5	603.2	604.2	604.9	604.6	604.2	604.9	604.6	605.2	604.9	605.5
10°	601.0	601.3	602.0	602.9	603.2	603.5	604.2	604.2	605.2	603.9	604.6
12.5°	597.0	598.4	600.0	600.6	602.0	602.0	602.5	602.9	603.5	603.2	604.2
15°	592.2	593.8	595.8	597.4	599.1	600.0	601.0	601.3	602.3	601.3	601.6
17.5°	586.4	588.3	591.2	593.2	595.8	596.7	598.1	598.7	599.6	599.1	599.4
20°	578.3	580.6	583.8	586.7	588.3	590.5	592.2	593.2	593.8	593.2	593.5
22.5°	566.9	570.1	574.4	576.6	579.9	581.8	582.1	584.5	586.1	584.5	585.0
25°	553.7	556.9	560.2	565.0	567.9	570.1	572.5	572.7	574.4	574.1	573.7
27.5°	531.6	535.8	541.3	545.3	549.1	552.7	555.2	555.9	557.6	556.9	557.2
30°	501.4	506.0	511.2	517.3	522.8	526.4	529.7	531.9	533.5	532.6	532.3
32.5°	458.7	463.2	468.7	474.9	481.4	486.5	490.4	493.4	495.3	494.7	493.0
35°	409.7	411.1	414.5	419.5	425.0	430.5	434.1	437.3	439.5	440.2	440.2
37.5°	359.5	355.2	352.7	352.7	355.9	358.2	361.4	363.3	366.9	368.2	369.3
40°	310.9	301.1	292.0	285.3	280.7	280.4	280.4	281.4	284.6	288.8	292.7
42.5°	267.5	251.9	237.9	225.3	216.2	211.0	208.7	209.1	211.6	215.6	222.1
45°	232.7	213.3	195.8	180.6	168.3	160.1	156.3	155.9	157.8	162.4	169.5
47.5°	205.8	185.1	165.3	147.9	134.5	125.8	121.2	119.9	121.2	125.4	133.8
50°	183.5	162.1	141.7	123.5	109.2	100.2	96.0	94.3	96.0	99.5	108.0
52.5°	162.8	140.7	121.5	104.0	88.8	81.0	76.5	75.6	76.5	80.7	87.6
55°	138.8	119.9	101.1	83.6	70.3	62.6	59.0	58.1	59.0	62.9	70.1
57.5°	115.1	98.9	82.3	66.5	55.2	48.3	45.1	43.7	46.1	48.7	57.1
60°	93.0	80.0	66.1	52.2	42.8	36.7	34.1	33.7	34.3	37.6	43.4
62.5°	73.0	62.2	51.2	39.9	32.1	29.5	26.2	25.9	26.6	28.5	33.1
65°	52.5	45.7	37.3	29.1	23.0	19.4	18.2	18.5	19.2	20.4	24.7
67.5°	36.7	31.7	25.9	20.4	15.9	14.2	13.0	12.7	13.0	15.2	17.5
70°	24.7	21.7	17.5	15.6	11.0	8.7	9.1	8.1	9.4	9.4	11.3
72.5°	16.3	14.2	11.7	9.1	7.7	6.2	6.2	5.8	6.5	6.8	8.4
75°	8.4	6.5	6.5	4.5	3.3	1.6	2.9	2.6	2.2	2.6	3.3
77.5°	5.8	4.8	4.5	3.6	3.3	2.6	2.6	2.6	2.6	2.9	3.3
80°	3.6	3.6	2.6	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	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	2.2	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	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°	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9
2.5°	604.9	605.2	605.2	604.9	604.9	604.2	605.5	604.6	604.9	606.1	605.2
5°	605.5	605.8	605.8	605.5	605.5	605.5	605.8	605.8	605.5	605.2	605.8
7.5°	606.8	606.5	606.5	605.8	605.8	605.2	605.8	604.9	605.5	604.9	605.8
10°	605.2	605.5	605.2	604.9	604.9	604.6	604.6	603.5	603.9	602.9	603.5
12.5°	604.2	603.9	603.9	603.2	602.5	602.0	601.6	600.6	600.6	598.4	599.4
15°	601.6	602.0	601.0	599.6	599.1	597.4	596.7	595.5	594.1	592.6	592.9
17.5°	599.4	598.4	597.0	595.8	593.2	591.9	590.5	588.6	588.0	586.1	585.4
20°	592.6	591.9	590.3	588.0	586.4	583.5	582.1	580.2	578.5	576.6	575.6
22.5°	583.8	583.1	581.2	578.9	576.3	575.1	573.7	570.1	568.6	566.6	566.3
25°	572.7	571.8	569.8	567.2	566.0	562.4	561.1	558.5	557.8	555.9	555.6
27.5°	555.9	554.6	552.3	549.1	546.8	544.6	543.2	541.3	540.7	538.8	538.4
30°	530.7	529.0	524.5	523.2	519.2	517.0	517.0	514.4	514.8	513.4	513.4
32.5°	490.8	488.2	484.6	482.0	479.5	478.1	478.1	477.1	477.8	477.8	478.4
35°	438.0	434.4	432.4	430.8	430.8	432.0	436.0	437.0	438.9	440.6	441.8
37.5°	370.2	369.8	372.2	374.1	378.9	384.4	391.2	397.1	402.6	406.5	410.4
40°	297.0	305.0	311.5	320.6	328.0	338.8	351.1	361.1	370.5	377.3	384.4
42.5°	231.7	242.1	255.7	269.0	282.4	297.0	313.1	327.1	339.3	348.7	356.3
45°	180.6	194.8	211.3	228.2	245.4	263.5	280.4	294.6	307.6	317.4	324.8
47.5°	145.5	161.1	179.9	198.4	217.8	237.0	255.7	268.0	278.8	286.5	293.4
50°	120.3	136.8	156.6	177.7	197.1	216.2	232.4	244.4	253.1	260.0	264.2
52.5°	100.4	118.0	139.0	160.1	179.6	197.1	211.6	220.7	227.9	232.7	236.6
55°	83.0	99.9	119.6	139.3	158.5	175.0	187.0	193.8	199.3	202.2	204.6
57.5°	67.7	83.3	101.5	119.6	136.1	149.8	159.2	165.9	168.6	170.8	170.5
60°	53.1	67.7	84.3	99.9	114.1	125.1	131.9	135.9	137.8	138.8	138.1
62.5°	41.8	55.2	67.7	81.4	91.7	101.1	107.6	107.6	108.6	109.0	109.9
65°	31.2	41.1	52.2	62.2	70.6	76.8	80.4	81.4	82.6	82.3	81.7
67.5°	23.0	30.5	38.6	46.1	51.9	55.7	58.3	60.6	60.3	59.6	59.3
70°	15.9	20.7	27.9	32.4	36.7	40.5	41.1	41.5	41.8	42.1	41.5
72.5°	11.0	14.6	18.5	22.4	25.0	26.6	28.2	28.5	28.5	28.5	28.2
75°	5.5	7.5	11.0	12.7	14.9	15.6	16.8	16.8	17.8	16.5	16.3
77.5°	4.8	5.8	7.7	9.1	10.1	11.0	11.3	12.3	12.0	11.3	11.7
80°	2.9	3.6	4.8	5.5	6.8	7.2	7.5	7.7	7.5	7.7	7.7
82.5°	2.2	2.6	3.3	3.3	4.3	4.3	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.2	1.9	3.9	2.6	2.6	3.3	3.9	3.3	3.3	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.2	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°	603.9	603.9	603.9	603.9
2.5°	604.9	605.5	604.6	604.2
5°	605.8	605.8	605.2	605.2
7.5°	605.8	605.8	604.9	604.2
10°	603.2	603.2	602.3	601.6
12.5°	598.4	598.4	598.1	597.0
15°	592.2	592.2	590.9	590.0
17.5°	583.8	584.5	582.8	582.8
20°	574.7	574.4	573.1	572.5
22.5°	565.3	564.6	564.3	562.4
25°	555.2	554.6	553.7	552.7
27.5°	538.1	537.7	536.7	535.5
30°	511.8	511.5	510.2	510.2
32.5°	477.8	477.4	476.2	476.5
35°	442.5	443.8	443.1	441.8
37.5°	413.0	414.0	414.5	414.0
40°	388.3	391.2	391.6	392.2
42.5°	362.1	366.0	367.2	367.9
45°	330.6	334.2	337.1	336.4
47.5°	298.5	301.1	303.7	301.8
50°	267.7	269.4	270.4	270.4
52.5°	238.5	238.5	238.2	238.5
55°	205.1	205.1	203.9	204.6
57.5°	170.2	170.8	169.8	168.3
60°	137.8	136.1	135.5	134.5
62.5°	107.3	107.3	105.0	108.0
65°	80.4	79.4	78.5	78.1
67.5°	58.3	58.1	57.1	56.7
70°	41.1	39.9	39.6	38.9
72.5°	27.6	27.6	26.9	26.9
75°	16.8	15.2	14.9	15.2
77.5°	11.7	11.3	11.3	11.0
80°	7.7	7.5	8.1	7.2
82.5°	4.8	5.2	4.8	5.2
85°	3.3	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)