

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: P244219

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244219
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: LSR8B15D010 EC8B159727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

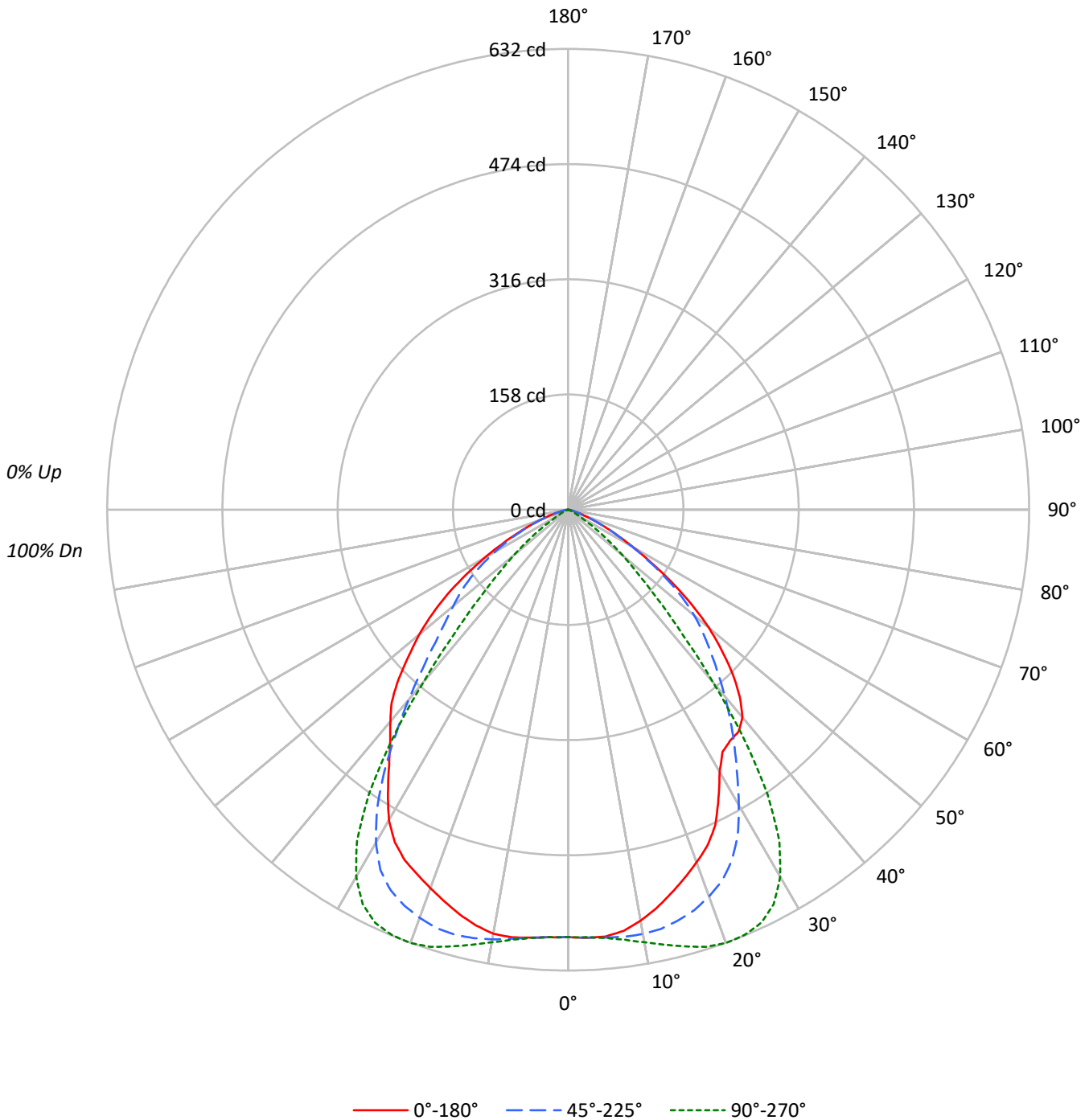
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	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°	56.4	5.0
10°-20°	167.0	14.8
20°-30°	254.8	22.5
30°-40°	265.9	23.5
40°-50°	199.7	17.7
50°-60°	122.9	10.9
60°-70°	50.0	4.4
70°-80°	11.8	1.0
80°-90°	1.6	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°	478.2	42.3
0°-40°	744.0	65.8
0°-60°	1066.6	94.4
0°-90°	1130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	586	586	586	586	586	
5°	588	589	590	589	589	56
15°	545	583	620	603	575	153
25°	477	531	625	576	530	217
35°	387	398	476	440	428	244
45°	319	276	172	257	329	244
55°	172	164	45	164	202	155
65°	54	54	7	73	78	56
75°	9	9	1	16	17	11
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P244219

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	587.8	586.8	587.8	587.8	588.1	587.5	587.8	588.1	587.5	587.5	587.5
5°	587.5	586.8	587.5	587.1	587.8	587.8	588.4	588.4	589.0	589.0	589.9
7.5°	582.5	581.2	582.5	583.4	584.0	585.3	586.8	588.1	589.3	590.6	592.1
10°	572.2	572.2	573.1	575.0	576.9	579.0	581.8	585.0	588.1	590.9	593.7
12.5°	559.5	558.5	560.4	562.9	565.7	569.1	573.5	578.1	583.1	588.7	593.1
15°	544.8	543.9	546.1	548.6	552.0	557.0	562.3	568.5	575.6	583.1	590.3
17.5°	529.9	529.6	531.8	535.2	538.0	543.3	550.1	557.6	565.7	575.6	585.0
20°	514.6	514.3	516.5	519.3	523.0	528.0	534.9	543.6	553.2	564.4	575.3
22.5°	498.8	499.1	501.0	504.1	507.2	512.5	519.6	528.3	538.9	551.0	563.2
25°	477.3	475.7	478.2	481.4	486.6	491.0	497.8	507.2	518.1	530.8	545.1
27.5°	446.2	445.9	448.1	450.9	455.5	460.8	468.3	477.9	489.4	503.4	517.4
30°	415.1	415.7	416.6	419.4	422.5	427.8	435.3	443.4	454.3	467.7	482.6
32.5°	393.9	393.9	395.2	397.0	399.2	402.0	407.3	413.2	421.6	430.9	441.8
35°	386.8	385.5	386.8	387.1	387.4	388.0	388.9	390.8	393.6	397.7	401.7
37.5°	383.7	382.7	382.7	381.5	379.9	378.0	375.6	372.8	369.7	365.6	362.5
40°	371.5	370.9	370.3	369.0	365.6	361.9	357.8	351.3	344.1	334.2	324.2
42.5°	348.2	347.6	347.2	344.8	341.6	337.3	332.6	325.8	316.8	304.0	289.7
45°	319.2	318.0	317.1	314.9	312.7	309.0	304.6	298.4	289.4	276.3	259.2
47.5°	285.6	285.0	284.7	283.8	281.6	279.4	276.6	271.6	263.5	251.1	233.4
50°	251.7	250.5	251.1	250.8	249.9	248.3	246.4	243.0	236.8	225.6	209.4
52.5°	212.8	212.8	212.5	213.4	213.8	213.4	213.8	210.0	204.7	196.3	182.6
55°	172.4	172.4	173.3	174.6	175.8	176.1	175.8	174.2	170.5	163.7	151.5
57.5°	134.4	133.8	135.7	137.5	138.8	140.0	139.1	137.8	135.7	130.1	120.7
60°	102.4	102.4	103.6	104.9	106.1	107.3	107.0	106.7	104.9	101.1	93.7
62.5°	75.3	75.6	75.6	76.5	77.8	79.0	80.0	79.0	78.1	75.6	70.6
65°	53.8	53.5	53.8	54.8	55.7	56.9	57.6	57.3	56.3	54.5	50.7
67.5°	36.1	35.8	37.0	37.3	38.0	39.2	38.9	39.2	38.9	37.3	34.2
70°	23.6	23.0	23.6	23.3	24.3	24.6	25.2	25.5	25.2	24.3	23.3
72.5°	14.6	14.3	14.6	14.9	15.2	15.6	16.2	16.2	15.9	15.2	14.0
75°	9.3	8.4	8.7	8.1	8.7	8.7	9.3	9.6	9.3	9.3	8.7
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.9	6.2	5.6	5.3
80°	2.8	2.8	3.1	3.1	3.1	3.4	3.1	3.1	3.1	3.4	2.5
82.5°	2.2	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.9	1.2	0.9	0.6	0.9	0.9	1.2	0.9	0.9	0.9	1.2
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	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°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	587.8	587.1	587.1	586.8	587.5	586.8	587.1	586.8	586.8	587.5	586.8
5°	589.9	590.3	589.6	589.3	590.3	590.3	590.3	589.6	589.6	589.9	589.6
7.5°	593.1	593.7	594.0	594.3	594.9	595.2	595.2	594.9	594.6	595.5	594.3
10°	596.5	597.4	599.3	600.2	601.8	601.8	602.4	602.4	601.8	602.4	602.1
12.5°	595.2	600.8	603.9	606.1	608.3	610.2	610.8	611.1	610.8	612.0	610.8
15°	597.4	602.1	607.1	610.8	614.8	617.0	617.6	620.1	620.7	621.1	619.2
17.5°	594.0	602.4	607.7	613.3	619.2	623.2	627.0	628.5	628.8	629.5	627.0
20°	586.2	595.5	603.6	611.7	618.6	624.8	627.9	632.3	631.0	633.5	630.1
22.5°	575.6	586.2	596.5	607.1	614.2	621.7	628.2	631.3	632.9	632.9	629.1
25°	558.8	571.3	582.5	593.4	604.3	613.3	620.7	625.4	626.3	626.0	621.7
27.5°	532.7	546.1	559.1	571.6	585.0	595.5	604.3	609.9	611.4	611.4	606.7
30°	496.6	510.9	523.7	538.6	552.3	564.1	576.3	581.2	584.0	584.0	578.7
32.5°	453.7	465.8	477.6	492.2	507.2	520.6	532.1	538.9	542.3	542.0	537.4
35°	407.0	412.9	421.9	432.8	446.2	458.6	469.8	476.4	482.3	482.0	477.6
37.5°	360.3	358.8	359.7	363.7	372.1	380.8	389.6	395.8	400.8	402.9	402.0
40°	314.6	306.5	298.7	295.9	296.5	299.6	304.3	309.0	314.6	317.4	318.6
42.5°	273.5	259.8	246.1	235.9	229.9	228.1	230.3	231.8	235.2	239.3	243.3
45°	240.5	222.2	204.1	188.2	178.3	172.4	171.1	172.4	174.2	178.3	183.6
47.5°	213.4	192.0	171.8	154.0	139.4	131.6	129.4	128.8	130.7	134.4	141.6
50°	189.5	168.0	145.6	125.1	109.8	101.1	98.0	96.8	98.9	101.7	108.3
52.5°	163.4	142.2	119.2	99.3	83.4	74.4	70.9	69.1	70.3	74.1	80.6
55°	135.0	115.4	94.6	74.1	58.8	50.4	46.4	45.1	46.4	50.4	56.9
57.5°	106.7	90.2	72.8	53.5	39.8	31.4	27.4	26.1	29.6	31.1	38.0
60°	83.4	70.0	55.1	39.2	27.4	20.8	16.8	15.9	17.4	20.2	25.8
62.5°	62.5	54.1	42.3	28.0	20.2	13.4	11.2	10.3	11.2	13.4	17.7
65°	45.4	38.9	29.6	20.5	13.7	10.0	7.5	6.8	7.8	9.3	13.1
67.5°	31.1	26.1	20.5	14.3	9.3	6.2	5.3	5.3	5.6	6.8	9.6
70°	20.2	17.1	13.1	9.3	6.2	4.7	4.0	3.4	4.0	5.0	6.5
72.5°	12.8	10.9	8.4	6.5	4.7	3.4	2.8	2.5	3.1	3.7	5.0
75°	7.8	5.9	4.4	3.4	2.5	2.5	2.5	1.2	1.6	2.5	3.1
77.5°	4.7	4.0	3.4	2.8	2.2	1.2	1.2	1.2	1.6	1.9	2.8
80°	2.5	2.2	1.6	1.6	1.2	0.9	1.2	0.9	0.6	1.6	1.9
82.5°	1.6	1.2	1.2	1.2	1.6	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.6	0.6	0.6	0.3	0.3	0.6	0.6
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	587.1	586.8	587.1	586.8	586.8	586.8	587.1	587.1	586.8	586.8	587.5
5°	589.6	589.6	589.6	589.3	589.0	589.0	589.6	589.6	588.7	589.6	589.6
7.5°	594.9	594.0	594.9	593.7	593.1	593.4	593.7	593.1	592.4	592.7	592.7
10°	601.8	600.8	600.8	599.9	599.0	598.3	597.7	596.2	594.6	594.3	593.1
12.5°	609.9	608.3	607.4	605.5	603.9	601.8	599.9	597.4	594.3	592.1	589.9
15°	617.9	615.5	613.3	610.2	606.7	603.0	599.0	594.9	589.9	585.6	581.8
17.5°	624.5	621.1	617.0	612.0	607.1	601.5	595.5	589.6	582.5	576.9	572.5
20°	626.7	621.7	616.4	609.9	603.3	595.5	588.1	580.3	572.2	566.3	561.3
22.5°	623.9	617.9	611.4	604.6	595.9	587.5	578.7	569.7	562.6	554.5	549.8
25°	616.1	608.9	601.8	593.7	585.3	575.9	566.6	557.3	548.6	544.2	538.3
27.5°	600.2	592.4	584.7	576.3	566.6	557.3	547.6	538.6	531.1	525.2	521.8
30°	572.2	563.2	554.2	545.1	536.7	527.1	518.1	510.6	503.1	498.5	495.0
32.5°	529.3	521.2	512.2	503.4	495.7	487.6	480.1	473.6	468.3	465.2	462.7
35°	471.4	463.3	456.5	450.2	443.7	440.3	435.6	431.9	429.7	428.5	428.1
37.5°	398.6	393.9	391.7	390.5	389.2	388.3	388.9	390.5	391.7	393.9	396.4
40°	320.8	324.8	326.1	330.4	334.5	339.8	345.7	352.5	358.1	365.3	370.3
42.5°	249.9	257.3	266.0	275.4	285.3	295.0	306.8	317.7	327.6	336.7	344.4
45°	192.0	203.5	216.6	229.9	243.3	257.3	271.6	285.0	296.8	306.5	314.6
47.5°	149.7	162.4	179.2	195.7	211.9	228.4	244.3	258.3	268.2	277.5	284.7
50°	118.5	133.2	151.5	170.5	188.2	205.7	222.5	235.5	245.5	253.0	258.3
52.5°	91.8	109.2	127.9	147.8	166.8	185.8	201.3	213.4	221.5	228.1	232.1
55°	68.5	85.6	105.5	126.0	145.3	163.7	178.3	188.9	196.0	199.8	201.9
57.5°	49.5	65.0	84.9	105.5	122.9	140.3	152.2	161.8	165.8	168.0	169.0
60°	36.1	50.4	68.1	85.9	102.4	116.4	126.6	133.2	136.3	137.5	137.2
62.5°	26.4	38.9	54.1	69.1	82.5	94.0	102.1	106.4	108.0	108.6	107.7
65°	20.2	29.9	42.9	54.5	64.7	73.1	79.0	81.8	82.8	82.5	81.8
67.5°	14.9	22.4	32.1	40.8	48.2	54.8	57.9	60.4	61.0	60.1	59.1
70°	10.6	16.5	23.3	29.3	34.8	38.6	42.0	42.3	42.3	42.0	41.4
72.5°	7.5	11.5	15.9	19.9	23.3	26.1	27.4	28.3	28.0	27.7	27.1
75°	5.0	7.2	11.5	12.4	15.6	16.5	17.7	17.7	18.0	17.1	17.1
77.5°	3.1	5.0	6.8	8.1	9.3	10.6	11.2	11.2	11.5	11.2	11.2
80°	1.9	3.1	3.7	5.6	5.6	6.5	6.8	7.2	6.5	7.5	6.5
82.5°	1.2	1.9	2.8	2.8	3.4	4.0	4.0	4.4	4.4	4.0	4.0
85°	0.9	1.2	1.6	1.9	1.9	2.2	1.9	1.9	2.2	2.5	2.2
87.5°	0.3	0.6	0.3	0.6	0.6	1.2	0.9	0.9	0.9	1.2	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):

	165°	170°	175°	180°
0°	586.2	586.2	586.2	586.2
2.5°	586.8	587.1	586.8	586.8
5°	589.6	589.3	589.6	589.0
7.5°	591.8	591.8	591.5	591.5
10°	591.8	590.6	590.6	590.6
12.5°	587.1	585.6	584.7	584.0
15°	579.0	576.3	575.0	574.7
17.5°	568.5	566.0	564.4	563.5
20°	556.3	553.8	552.0	552.3
22.5°	545.8	543.0	541.7	541.1
25°	535.2	531.8	530.8	530.2
27.5°	518.1	516.2	515.3	514.3
30°	491.9	491.0	489.4	491.6
32.5°	461.7	460.2	458.9	459.9
35°	428.5	427.5	428.5	427.8
37.5°	398.0	398.9	400.1	400.8
40°	374.0	377.4	378.7	379.3
42.5°	350.0	354.1	356.6	358.1
45°	320.5	324.5	327.3	329.2
47.5°	290.0	293.4	296.2	295.9
50°	262.3	264.2	265.4	266.7
52.5°	234.3	234.3	234.6	234.6
55°	202.6	201.9	201.6	201.9
57.5°	167.7	167.1	166.8	165.8
60°	136.0	134.1	132.9	132.9
62.5°	106.4	104.2	103.3	103.0
65°	80.0	79.7	77.8	77.5
67.5°	57.9	56.6	55.4	55.7
70°	40.8	38.9	38.9	38.3
72.5°	26.4	25.5	25.2	25.2
75°	16.5	16.5	15.9	17.1
77.5°	10.9	10.9	10.6	10.9
80°	6.5	6.5	6.5	6.2
82.5°	4.0	4.4	4.0	4.0
85°	2.2	2.5	1.9	2.8
87.5°	1.2	1.6	1.2	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)