

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: P246235

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246235
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 EC8B159727 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

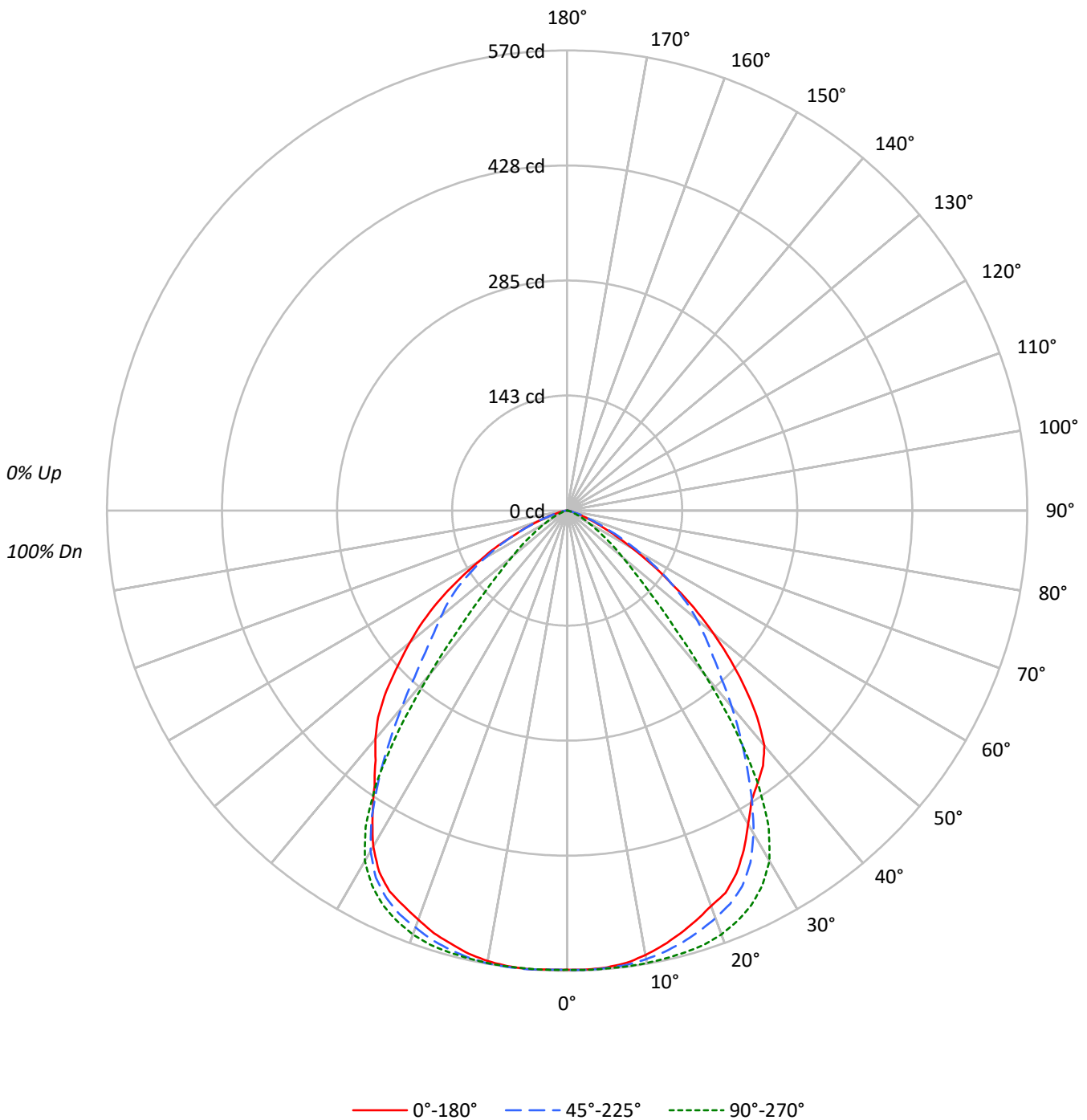
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	54.3	5.0
10°-20°	157.6	14.6
20°-30°	239.3	22.2
30°-40°	251.3	23.3
40°-50°	188.4	17.5
50°-60°	120.9	11.2
60°-70°	51.7	4.8
70°-80°	12.2	1.1
80°-90°	2.3	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°	451.2	41.9
0°-40°	702.5	65.2
0°-60°	1011.8	93.9
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	569	569	569	569	569	
5°	568	569	569	570	570	54
15°	542	554	566	563	556	153
25°	496	514	540	530	520	227
35°	412	389	412	407	416	258
45°	313	256	147	248	317	239
55°	158	158	55	165	193	143
65°	48	56	17	72	74	51
75°	7	8	2	15	14	11
85°	2	2	1	2	3	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°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8
2.5°	569.1	569.7	569.4	569.4	569.1	569.4	569.4	570.0	570.0	569.4	569.1
5°	567.9	568.5	568.5	567.9	567.9	569.4	568.5	569.1	569.1	568.8	568.8
7.5°	565.1	565.1	566.3	565.4	565.4	566.3	566.0	566.6	567.2	567.6	567.6
10°	559.0	559.6	559.9	559.9	560.2	561.1	561.8	563.0	563.6	564.2	564.5
12.5°	551.4	552.3	552.6	552.3	553.2	554.4	556.0	557.5	558.4	559.6	560.5
15°	542.2	542.2	542.8	543.7	544.4	546.2	547.7	549.5	552.0	553.5	555.0
17.5°	532.1	532.8	533.7	533.7	534.9	537.9	538.9	541.6	544.4	545.9	548.9
20°	521.2	521.8	522.7	523.3	524.8	527.3	529.1	531.5	534.6	537.3	540.4
22.5°	512.6	511.4	512.0	512.6	514.1	516.3	518.4	521.5	524.5	527.3	530.3
25°	496.1	496.4	497.3	497.9	499.8	501.6	504.1	507.7	510.5	513.5	516.9
27.5°	473.8	474.1	475.7	475.7	477.2	480.2	481.8	484.8	488.5	491.5	495.5
30°	448.5	449.1	449.1	450.3	451.2	452.8	454.3	457.3	459.2	461.9	467.4
32.5°	425.3	425.9	425.6	425.3	424.4	424.1	423.8	424.4	425.0	425.9	428.0
35°	411.5	410.0	408.8	406.7	404.2	401.2	398.4	394.8	391.4	388.6	385.6
37.5°	398.4	398.1	396.3	393.2	388.3	382.8	376.4	368.5	360.6	352.0	343.8
40°	380.1	379.2	377.7	373.4	367.9	361.2	352.6	342.9	330.0	316.9	303.5
42.5°	349.0	349.3	347.4	344.1	338.9	332.5	323.6	312.9	299.2	283.6	266.2
45°	312.6	312.6	312.0	309.3	305.6	300.4	293.7	284.8	271.4	255.5	236.9
47.5°	274.8	275.1	274.2	273.6	272.0	268.7	263.8	257.1	247.6	232.3	213.7
50°	236.3	236.3	237.8	237.5	237.5	236.3	234.2	230.2	222.0	209.7	192.3
52.5°	197.8	198.4	199.4	200.6	202.1	204.5	202.1	200.3	195.1	185.6	170.7
55°	158.1	158.8	160.3	162.4	164.3	166.7	167.3	167.3	164.6	158.1	146.8
57.5°	124.3	123.3	124.6	126.4	128.8	131.3	133.1	135.2	134.9	130.7	121.5
60°	93.4	93.7	94.6	96.5	98.3	100.4	102.9	104.7	105.6	103.5	97.7
62.5°	68.1	68.1	69.3	71.1	72.1	75.1	76.6	77.5	78.5	78.2	74.5
65°	47.6	48.2	48.8	49.8	50.7	52.5	53.4	55.3	55.9	56.2	53.4
67.5°	33.6	32.7	33.3	33.9	34.8	36.0	37.9	37.9	38.8	38.8	36.9
70°	21.4	21.4	21.7	22.6	23.2	23.5	24.1	24.7	25.6	25.3	25.3
72.5°	14.4	14.0	14.4	14.7	15.0	15.9	15.9	16.2	16.8	17.1	15.9
75°	7.3	7.6	8.2	7.9	8.9	8.2	8.5	9.5	9.2	8.5	8.5
77.5°	6.1	6.1	6.1	5.8	6.4	6.4	6.1	6.7	6.4	6.4	6.1
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.7	3.1	2.7	3.1	3.1	2.7	2.4	2.4	2.7	2.4
85°	2.4	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	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°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8
2.5°	569.7	569.4	570.0	569.7	569.7	569.4	569.7	569.4	570.0	568.8	569.1
5°	569.7	569.1	569.4	569.7	570.0	569.4	569.4	569.4	570.0	569.4	569.7
7.5°	568.5	568.2	569.1	569.7	569.4	569.1	569.7	569.4	570.0	569.7	570.3
10°	566.0	566.3	566.9	567.9	568.2	568.5	569.1	569.1	570.0	568.8	569.4
12.5°	562.4	563.6	565.1	565.7	566.9	566.9	567.6	567.9	568.5	568.2	569.1
15°	557.8	559.3	561.1	562.7	564.2	565.1	566.0	566.3	567.2	566.3	566.6
17.5°	552.3	554.1	556.9	558.7	561.1	562.1	563.3	563.9	564.8	564.2	564.5
20°	544.7	546.8	549.8	552.6	554.1	556.3	557.8	558.7	559.3	558.7	559.0
22.5°	534.0	537.0	541.0	543.1	546.2	548.0	548.3	550.5	552.0	550.5	551.1
25°	521.5	524.5	527.6	532.1	534.9	537.0	539.2	539.5	541.0	540.7	540.4
27.5°	500.7	504.7	509.8	513.5	517.2	520.5	523.0	523.6	525.1	524.5	524.8
30°	472.3	476.6	481.5	487.3	492.5	495.8	498.9	501.0	502.5	501.6	501.3
32.5°	432.0	436.3	441.5	447.3	453.4	458.3	461.9	464.7	466.5	465.9	464.4
35°	385.9	387.1	390.5	395.1	400.2	405.4	408.8	411.8	414.0	414.6	414.6
37.5°	338.6	334.6	332.2	332.2	335.2	337.4	340.4	342.2	345.6	346.8	347.7
40°	292.8	283.6	275.1	268.7	264.4	264.1	264.1	265.0	268.1	272.0	275.7
42.5°	251.9	237.2	224.1	212.2	203.6	198.8	196.6	196.9	199.4	203.0	209.1
45°	219.2	200.9	184.4	170.1	158.5	150.8	147.2	146.8	148.7	153.0	159.7
47.5°	193.9	174.3	155.7	139.2	126.7	118.5	114.2	113.0	114.2	118.1	126.1
50°	172.8	152.7	133.4	116.3	102.9	94.3	90.4	88.8	90.4	93.7	101.7
52.5°	153.3	132.5	114.5	98.0	83.7	76.3	72.1	71.1	72.1	76.0	82.4
55°	130.7	113.0	95.3	78.8	66.3	58.9	55.6	54.7	55.6	59.2	65.9
57.5°	108.4	93.1	77.5	62.6	51.9	45.5	42.4	41.2	43.3	45.8	53.7
60°	87.6	75.4	62.3	49.2	40.3	34.5	32.1	31.7	32.4	35.4	40.9
62.5°	68.7	58.6	48.2	37.6	30.2	27.8	24.7	24.4	25.0	26.9	31.1
65°	49.5	43.1	35.1	27.5	21.7	18.3	17.1	17.4	18.0	19.2	23.2
67.5°	34.5	29.9	24.4	19.2	15.0	13.4	12.2	11.9	12.2	14.4	16.5
70°	23.2	20.5	16.5	14.7	10.4	8.2	8.5	7.6	8.9	8.9	10.7
72.5°	15.3	13.4	11.0	8.5	7.3	5.8	5.8	5.5	6.1	6.4	7.9
75°	7.9	6.1	6.1	4.3	3.1	1.5	2.7	2.4	2.1	2.4	3.1
77.5°	5.5	4.6	4.3	3.4	3.1	2.4	2.4	2.4	2.4	2.7	3.1
80°	3.4	3.4	2.4	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	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	1.5	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°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8
2.5°	569.7	570.0	570.0	569.7	569.7	569.1	570.3	569.4	569.7	570.9	570.0
5°	570.3	570.6	570.6	570.3	570.3	570.3	570.6	570.6	570.3	570.0	570.6
7.5°	571.5	571.2	571.2	570.6	570.6	570.0	570.6	569.7	570.3	569.7	570.6
10°	570.0	570.3	570.0	569.7	569.7	569.4	569.4	568.5	568.8	567.9	568.5
12.5°	569.1	568.8	568.8	568.2	567.6	566.9	566.6	565.7	565.7	563.6	564.5
15°	566.6	566.9	566.0	564.8	564.2	562.7	562.1	560.8	559.6	558.1	558.4
17.5°	564.5	563.6	562.4	561.1	558.7	557.5	556.3	554.4	553.8	552.0	551.4
20°	558.1	557.5	556.0	553.8	552.3	549.5	548.3	546.5	545.0	543.1	542.2
22.5°	549.8	549.2	547.4	545.3	542.8	541.6	540.4	537.0	535.5	533.7	533.4
25°	539.5	538.5	536.7	534.3	533.1	529.7	528.5	526.0	525.4	523.6	523.3
27.5°	523.6	522.4	520.2	517.2	515.0	512.9	511.7	509.8	509.2	507.4	507.1
30°	499.8	498.2	494.0	492.8	489.1	487.0	487.0	484.5	484.8	483.6	483.6
32.5°	462.2	459.8	456.4	454.0	451.5	450.3	450.3	449.4	450.0	450.0	450.6
35°	412.5	409.1	407.3	405.7	405.7	407.0	410.6	411.5	413.4	414.9	416.1
37.5°	348.6	348.4	350.5	352.3	356.9	362.1	368.5	374.0	379.2	382.8	386.5
40°	279.7	287.3	293.4	301.9	309.0	319.0	330.6	340.1	349.0	355.4	362.1
42.5°	218.3	228.1	240.9	253.4	265.9	279.7	294.9	308.0	319.7	328.5	335.5
45°	170.1	183.5	199.1	214.9	231.1	248.2	264.1	277.5	289.7	298.9	305.9
47.5°	137.1	151.7	169.4	186.8	205.2	223.2	240.9	252.5	262.6	269.9	276.3
50°	113.3	128.8	147.5	167.3	185.6	203.6	218.9	230.2	238.4	244.9	248.8
52.5°	94.6	111.1	131.0	150.8	169.1	185.6	199.4	207.9	214.6	219.2	222.9
55°	78.2	94.0	112.7	131.3	149.3	164.9	176.2	182.6	187.8	190.5	192.6
57.5°	63.8	78.5	95.6	112.7	128.2	141.1	149.9	156.3	158.8	160.9	160.6
60°	50.1	63.8	79.4	94.0	107.5	117.8	124.3	127.9	129.8	130.7	130.1
62.5°	39.4	51.9	63.8	76.6	86.4	95.3	101.4	101.4	102.3	102.6	103.5
65°	29.3	38.8	49.2	58.6	66.6	72.4	75.7	76.6	77.9	77.5	76.9
67.5°	21.7	28.7	36.3	43.3	48.8	52.5	55.0	57.1	56.8	56.2	55.9
70°	15.0	19.5	26.3	30.5	34.5	38.2	38.8	39.1	39.4	39.7	39.1
72.5°	10.4	13.7	17.4	21.1	23.5	25.0	26.6	26.9	26.9	26.9	26.6
75°	5.2	7.0	10.4	11.9	14.0	14.7	15.9	15.9	16.8	15.6	15.3
77.5°	4.6	5.5	7.3	8.5	9.5	10.4	10.7	11.6	11.3	10.7	11.0
80°	2.7	3.4	4.6	5.2	6.4	6.7	7.0	7.3	7.0	7.3	7.3
82.5°	2.1	2.4	3.1	3.1	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.1	1.8	3.7	2.4	2.4	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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°	568.8	568.8	568.8	568.8
2.5°	569.7	570.3	569.4	569.1
5°	570.6	570.6	570.0	570.0
7.5°	570.6	570.6	569.7	569.1
10°	568.2	568.2	567.2	566.6
12.5°	563.6	563.6	563.3	562.4
15°	557.8	557.8	556.6	555.6
17.5°	549.8	550.5	548.9	548.9
20°	541.3	541.0	539.8	539.2
22.5°	532.4	531.8	531.5	529.7
25°	523.0	522.4	521.5	520.5
27.5°	506.8	506.5	505.6	504.4
30°	482.1	481.8	480.5	480.5
32.5°	450.0	449.7	448.5	448.8
35°	416.7	418.0	417.3	416.1
37.5°	389.0	389.9	390.5	389.9
40°	365.7	368.5	368.8	369.4
42.5°	341.0	344.7	345.9	346.5
45°	311.4	314.8	317.5	316.9
47.5°	281.2	283.6	286.1	284.2
50°	252.2	253.7	254.6	254.6
52.5°	224.7	224.7	224.4	224.7
55°	193.3	193.3	192.0	192.6
57.5°	160.3	160.9	160.0	158.5
60°	129.8	128.2	127.6	126.7
62.5°	101.1	101.1	98.9	101.7
65°	75.7	74.8	73.9	73.6
67.5°	55.0	54.7	53.7	53.4
70°	38.8	37.6	37.2	36.6
72.5°	26.0	26.0	25.3	25.3
75°	15.9	14.4	14.0	14.4
77.5°	11.0	10.7	10.7	10.4
80°	7.3	7.0	7.6	6.7
82.5°	4.6	4.9	4.6	4.9
85°	3.1	3.7	3.4	3.4
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)