

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: P244212

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244212  
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: LSR8B10D010 EC8B10950 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1105.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

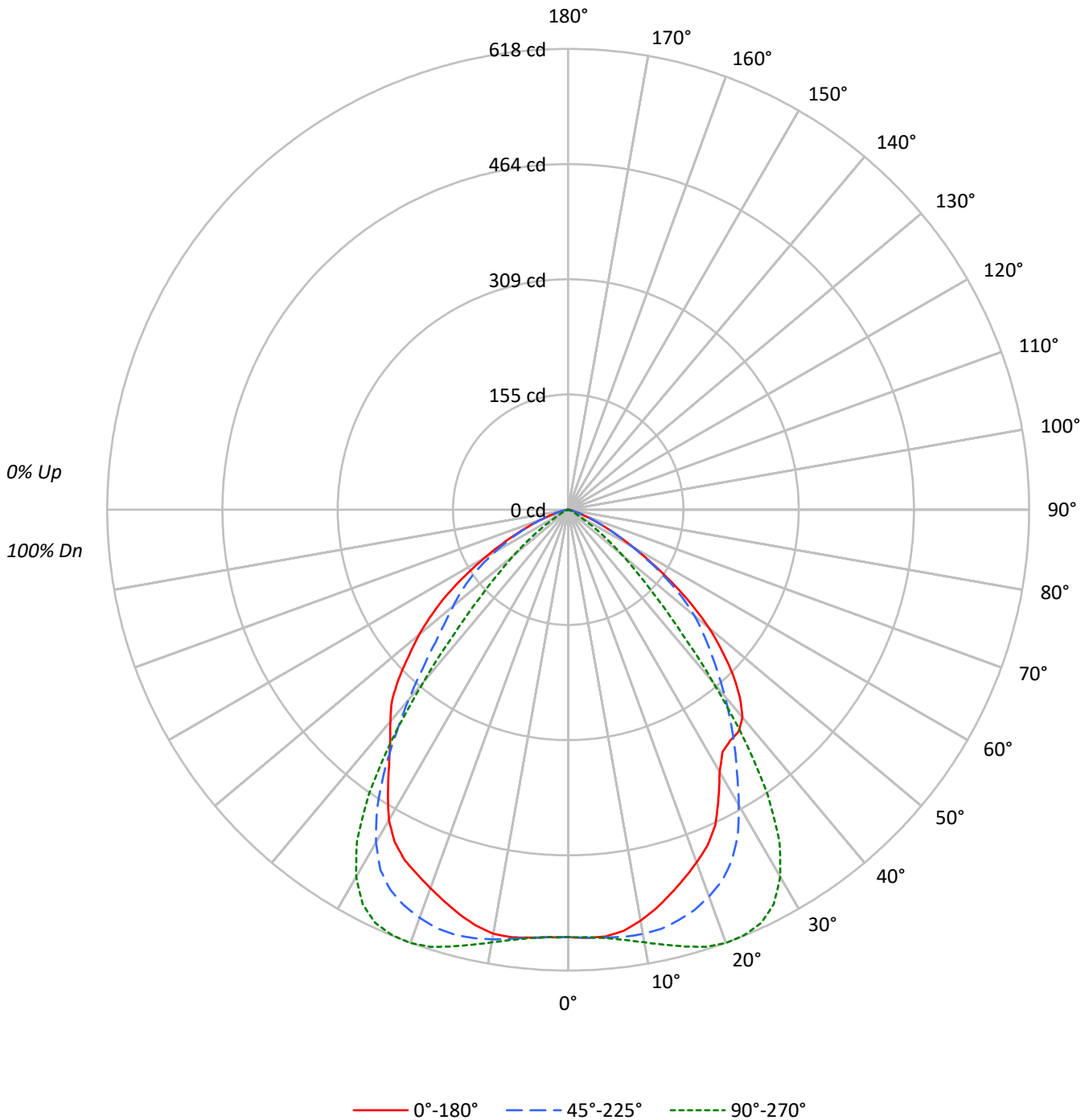
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17675	17675	17675
5°	17783	17848	17830
10°	17519	18446	18083
15°	17009	19359	17941
20°	16516	20290	17724
25°	15879	20809	17642
30°	14453	20239	17116
35°	14237	17535	15750
40°	14624	12161	14930
45°	13615	7352	14038
50°	11811	4538	12511
55°	9064	2371	10618
60°	6173	956	8011
65°	3838	489	5531
70°	2083	307	3372
75°	1084	143	1990
80°	479	160	1083
85°	318	106	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	5.0
10°-20°	163.3	14.8
20°-30°	249.1	22.5
30°-40°	260.0	23.5
40°-50°	195.3	17.7
50°-60°	120.1	10.9
60°-70°	48.9	4.4
70°-80°	11.5	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°	467.6	42.3
0°-40°	727.6	65.8
0°-60°	1043.0	94.4
0°-90°	1105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	573	573	573	573	573	
5°	574	576	577	576	576	54
15°	533	570	606	590	562	150
25°	467	519	612	563	518	212
35°	378	389	466	430	418	239
45°	312	270	169	252	322	238
55°	169	160	44	160	198	152
65°	53	53	7	72	76	55
75°	9	9	1	16	17	11
85°	1	1	0	2	3	1
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°	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2
2.5°	574.8	573.8	574.8	574.8	575.1	574.5	574.8	575.1	574.5	574.5	574.5
5°	574.5	573.8	574.5	574.2	574.8	574.8	575.4	575.4	576.0	576.0	576.9
7.5°	569.6	568.4	569.6	570.5	571.1	572.3	573.8	575.1	576.3	577.5	579.0
10°	559.5	559.5	560.5	562.3	564.1	566.2	569.0	572.0	575.1	577.8	580.5
12.5°	547.1	546.2	548.0	550.4	553.2	556.5	560.8	565.3	570.2	575.7	579.9
15°	532.8	531.9	534.0	536.4	539.8	544.6	549.8	555.9	562.9	570.2	577.2
17.5°	518.2	517.9	520.0	523.3	526.1	531.2	537.9	545.2	553.2	562.9	572.0
20°	503.3	503.0	505.1	507.8	511.5	516.3	523.0	531.6	541.0	551.9	562.6
22.5°	487.7	488.0	489.9	492.9	496.0	501.1	508.1	516.6	527.0	538.9	550.7
25°	466.7	465.2	467.7	470.7	475.9	480.1	486.8	496.0	506.6	519.1	533.1
27.5°	436.3	436.0	438.1	440.9	445.4	450.6	457.9	467.4	478.6	492.3	506.0
30°	405.9	406.5	407.4	410.2	413.2	418.4	425.7	433.6	444.2	457.3	471.9
32.5°	385.2	385.2	386.4	388.2	390.4	393.1	398.3	404.1	412.3	421.4	432.1
35°	378.2	377.0	378.2	378.5	378.8	379.4	380.3	382.2	384.9	388.9	392.8
37.5°	375.2	374.2	374.2	373.0	371.5	369.7	367.2	364.5	361.5	357.5	354.5
40°	363.3	362.7	362.1	360.9	357.5	353.9	349.9	343.5	336.5	326.8	317.0
42.5°	340.5	339.9	339.6	337.1	334.1	329.8	325.3	318.6	309.7	297.3	283.3
45°	312.2	311.0	310.1	307.9	305.8	302.1	297.9	291.8	283.0	270.2	253.5
47.5°	279.3	278.7	278.4	277.5	275.4	273.2	270.5	265.6	257.7	245.5	228.2
50°	246.2	244.9	245.5	245.2	244.3	242.8	241.0	237.6	231.5	220.6	204.8
52.5°	208.1	208.1	207.8	208.7	209.0	208.7	209.0	205.4	200.2	192.0	178.6
55°	168.6	168.6	169.5	170.7	171.9	172.2	171.9	170.4	166.7	160.0	148.2
57.5°	131.4	130.8	132.7	134.5	135.7	136.9	136.0	134.8	132.7	127.2	118.1
60°	100.1	100.1	101.3	102.5	103.8	105.0	104.7	104.4	102.5	98.9	91.6
62.5°	73.6	73.9	73.9	74.9	76.1	77.3	78.2	77.3	76.4	73.9	69.1
65°	52.6	52.3	52.6	53.6	54.5	55.7	56.3	56.0	55.1	53.2	49.6
67.5°	35.3	35.0	36.2	36.5	37.1	38.3	38.0	38.3	38.0	36.5	33.5
70°	23.1	22.5	23.1	22.8	23.7	24.0	24.6	24.9	24.6	23.7	22.8
72.5°	14.3	14.0	14.3	14.6	14.9	15.2	15.8	15.8	15.5	14.9	13.7
75°	9.1	8.2	8.5	7.9	8.5	8.5	9.1	9.4	9.1	9.1	8.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8	6.1	5.5	5.2
80°	2.7	2.7	3.0	3.0	3.0	3.4	3.0	3.0	3.0	3.4	2.4
82.5°	2.1	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.8	1.8	1.8
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°	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2
2.5°	574.8	574.2	574.2	573.8	574.5	573.8	574.2	573.8	573.8	574.5	573.8
5°	576.9	577.2	576.6	576.3	577.2	577.2	577.2	576.6	576.6	576.9	576.6
7.5°	579.9	580.5	580.8	581.1	581.8	582.1	582.1	581.8	581.5	582.4	581.1
10°	583.3	584.2	586.0	586.9	588.5	588.5	589.1	589.1	588.5	589.1	588.8
12.5°	582.1	587.5	590.6	592.7	594.8	596.7	597.3	597.6	597.3	598.5	597.3
15°	584.2	588.8	593.6	597.3	601.2	603.4	604.0	606.4	607.0	607.3	605.5
17.5°	580.8	589.1	594.2	599.7	605.5	609.4	613.1	614.6	614.9	615.5	613.1
20°	573.2	582.4	590.3	598.2	604.9	611.0	614.0	618.3	617.1	619.5	616.1
22.5°	562.9	573.2	583.3	593.6	600.6	607.9	614.3	617.4	618.9	618.9	615.2
25°	546.5	558.6	569.6	580.2	590.9	599.7	607.0	611.6	612.5	612.2	607.9
27.5°	520.9	534.0	546.8	558.9	572.0	582.4	590.9	596.4	597.9	597.9	593.3
30°	485.6	499.6	512.1	526.7	540.1	551.6	563.5	568.4	571.1	571.1	565.9
32.5°	443.6	455.5	467.0	481.3	496.0	509.0	520.3	527.0	530.3	530.0	525.5
35°	398.0	403.8	412.6	423.2	436.3	448.5	459.4	465.8	471.6	471.3	467.0
37.5°	352.3	350.8	351.7	355.7	363.9	372.4	380.9	387.0	391.9	394.0	393.1
40°	307.6	299.7	292.1	289.4	290.0	293.0	297.6	302.1	307.6	310.4	311.6
42.5°	267.5	254.1	240.7	230.6	224.9	223.0	225.2	226.7	230.0	234.0	237.9
45°	235.2	217.2	199.6	184.1	174.3	168.6	167.3	168.6	170.4	174.3	179.5
47.5°	208.7	187.7	168.0	150.6	136.3	128.7	126.6	126.0	127.8	131.4	138.4
50°	185.3	164.3	142.4	122.3	107.4	98.9	95.8	94.6	96.8	99.5	105.9
52.5°	159.7	139.0	116.5	97.1	81.5	72.7	69.4	67.5	68.8	72.4	78.8
55°	132.1	112.9	92.5	72.4	57.5	49.3	45.3	44.1	45.3	49.3	55.7
57.5°	104.4	88.2	71.2	52.3	38.9	30.7	26.8	25.6	28.9	30.4	37.1
60°	81.5	68.5	53.9	38.3	26.8	20.4	16.4	15.5	17.0	19.8	25.3
62.5°	61.2	52.9	41.4	27.4	19.8	13.1	11.0	10.0	11.0	13.1	17.3
65°	44.4	38.0	28.9	20.1	13.4	9.7	7.3	6.7	7.6	9.1	12.8
67.5°	30.4	25.6	20.1	14.0	9.1	6.1	5.2	5.2	5.5	6.7	9.4
70°	19.8	16.7	12.8	9.1	6.1	4.6	4.0	3.4	4.0	4.9	6.4
72.5°	12.5	10.6	8.2	6.4	4.6	3.4	2.7	2.4	3.0	3.6	4.9
75°	7.6	5.8	4.3	3.4	2.4	2.4	2.4	1.2	1.5	2.4	3.0
77.5°	4.6	4.0	3.4	2.7	2.1	1.2	1.2	1.2	1.5	1.8	2.7
80°	2.4	2.1	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.8
82.5°	1.5	1.2	1.2	1.2	1.5	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.5	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°	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2	573.2
2.5°	574.2	573.8	574.2	573.8	573.8	573.8	574.2	574.2	573.8	573.8	574.5
5°	576.6	576.6	576.6	576.3	576.0	576.0	576.6	576.6	575.7	576.6	576.6
7.5°	581.8	580.8	581.8	580.5	579.9	580.2	580.5	579.9	579.3	579.6	579.6
10°	588.5	587.5	587.5	586.6	585.7	585.1	584.5	583.0	581.5	581.1	579.9
12.5°	596.4	594.8	593.9	592.1	590.6	588.5	586.6	584.2	581.1	579.0	576.9
15°	604.3	601.8	599.7	596.7	593.3	589.7	585.7	581.8	576.9	572.6	569.0
17.5°	610.7	607.3	603.4	598.5	593.6	588.1	582.4	576.6	569.6	564.1	559.8
20°	612.8	607.9	602.8	596.4	590.0	582.4	575.1	567.5	559.5	553.8	548.9
22.5°	610.1	604.3	597.9	591.2	582.7	574.5	565.9	557.1	550.1	542.2	537.6
25°	602.4	595.5	588.5	580.5	572.3	563.2	554.1	544.9	536.4	532.2	526.4
27.5°	586.9	579.3	571.7	563.5	554.1	544.9	535.5	526.7	519.4	513.6	510.3
30°	559.5	550.7	541.9	533.1	524.9	515.4	506.6	499.3	492.0	487.4	484.1
32.5°	517.6	509.6	500.8	492.3	484.7	476.8	469.5	463.1	457.9	454.9	452.4
35°	461.0	453.1	446.4	440.3	433.9	430.5	426.0	422.3	420.2	419.0	418.7
37.5°	389.8	385.2	383.1	381.9	380.6	379.7	380.3	381.9	383.1	385.2	387.6
40°	313.7	317.7	318.9	323.1	327.1	332.3	338.0	344.7	350.2	357.2	362.1
42.5°	244.3	251.6	260.1	269.3	279.0	288.4	300.0	310.7	320.4	329.2	336.8
45°	187.7	199.0	211.8	224.9	237.9	251.6	265.6	278.7	290.3	299.7	307.6
47.5°	146.4	158.8	175.3	191.4	207.2	223.3	238.8	252.5	262.3	271.4	278.4
50°	115.9	130.2	148.2	166.7	184.1	201.1	217.5	230.3	240.1	247.4	252.5
52.5°	89.8	106.8	125.1	144.5	163.1	181.6	196.9	208.7	216.6	223.0	227.0
55°	66.9	83.7	103.1	123.2	142.1	160.0	174.3	184.7	191.7	195.3	197.5
57.5°	48.4	63.6	83.1	103.1	120.2	137.2	148.8	158.2	162.2	164.3	165.2
60°	35.3	49.3	66.6	84.0	100.1	113.8	123.8	130.2	133.3	134.5	134.2
62.5°	25.9	38.0	52.9	67.5	80.6	91.9	99.8	104.1	105.6	106.2	105.3
65°	19.8	29.2	42.0	53.2	63.3	71.5	77.3	80.0	80.9	80.6	80.0
67.5°	14.6	21.9	31.3	39.9	47.2	53.6	56.6	59.0	59.6	58.7	57.8
70°	10.3	16.1	22.8	28.6	34.1	37.7	41.1	41.4	41.4	41.1	40.5
72.5°	7.3	11.3	15.5	19.5	22.8	25.6	26.8	27.7	27.4	27.1	26.5
75°	4.9	7.0	11.3	12.2	15.2	16.1	17.3	17.3	17.6	16.7	16.7
77.5°	3.0	4.9	6.7	7.9	9.1	10.3	11.0	11.0	11.3	11.0	11.0
80°	1.8	3.0	3.6	5.5	5.5	6.4	6.7	7.0	6.4	7.3	6.4
82.5°	1.2	1.8	2.7	2.7	3.4	4.0	4.0	4.3	4.3	4.0	4.0
85°	0.9	1.2	1.5	1.8	1.8	2.1	1.8	1.8	2.1	2.4	2.1
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°	573.2	573.2	573.2	573.2
2.5°	573.8	574.2	573.8	573.8
5°	576.6	576.3	576.6	576.0
7.5°	578.7	578.7	578.4	578.4
10°	578.7	577.5	577.5	577.5
12.5°	574.2	572.6	571.7	571.1
15°	566.2	563.5	562.3	562.0
17.5°	555.9	553.5	551.9	551.0
20°	544.0	541.6	539.8	540.1
22.5°	533.7	530.9	529.7	529.1
25°	523.3	520.0	519.1	518.5
27.5°	506.6	504.8	503.9	503.0
30°	481.0	480.1	478.6	480.7
32.5°	451.5	450.0	448.8	449.7
35°	419.0	418.1	419.0	418.4
37.5°	389.2	390.1	391.3	391.9
40°	365.7	369.1	370.3	370.9
42.5°	342.3	346.3	348.7	350.2
45°	313.4	317.3	320.1	321.9
47.5°	283.6	286.9	289.7	289.4
50°	256.5	258.3	259.5	260.8
52.5°	229.1	229.1	229.4	229.4
55°	198.1	197.5	197.2	197.5
57.5°	164.0	163.4	163.1	162.2
60°	133.0	131.1	129.9	129.9
62.5°	104.1	101.9	101.0	100.7
65°	78.2	77.9	76.1	75.8
67.5°	56.6	55.4	54.2	54.5
70°	39.9	38.0	38.0	37.4
72.5°	25.9	24.9	24.6	24.6
75°	16.1	16.1	15.5	16.7
77.5°	10.6	10.6	10.3	10.6
80°	6.4	6.4	6.4	6.1
82.5°	4.0	4.3	4.0	4.0
85°	2.1	2.4	1.8	2.7
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)