

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: P245472

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245472  
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 EC8B10840 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1157.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 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

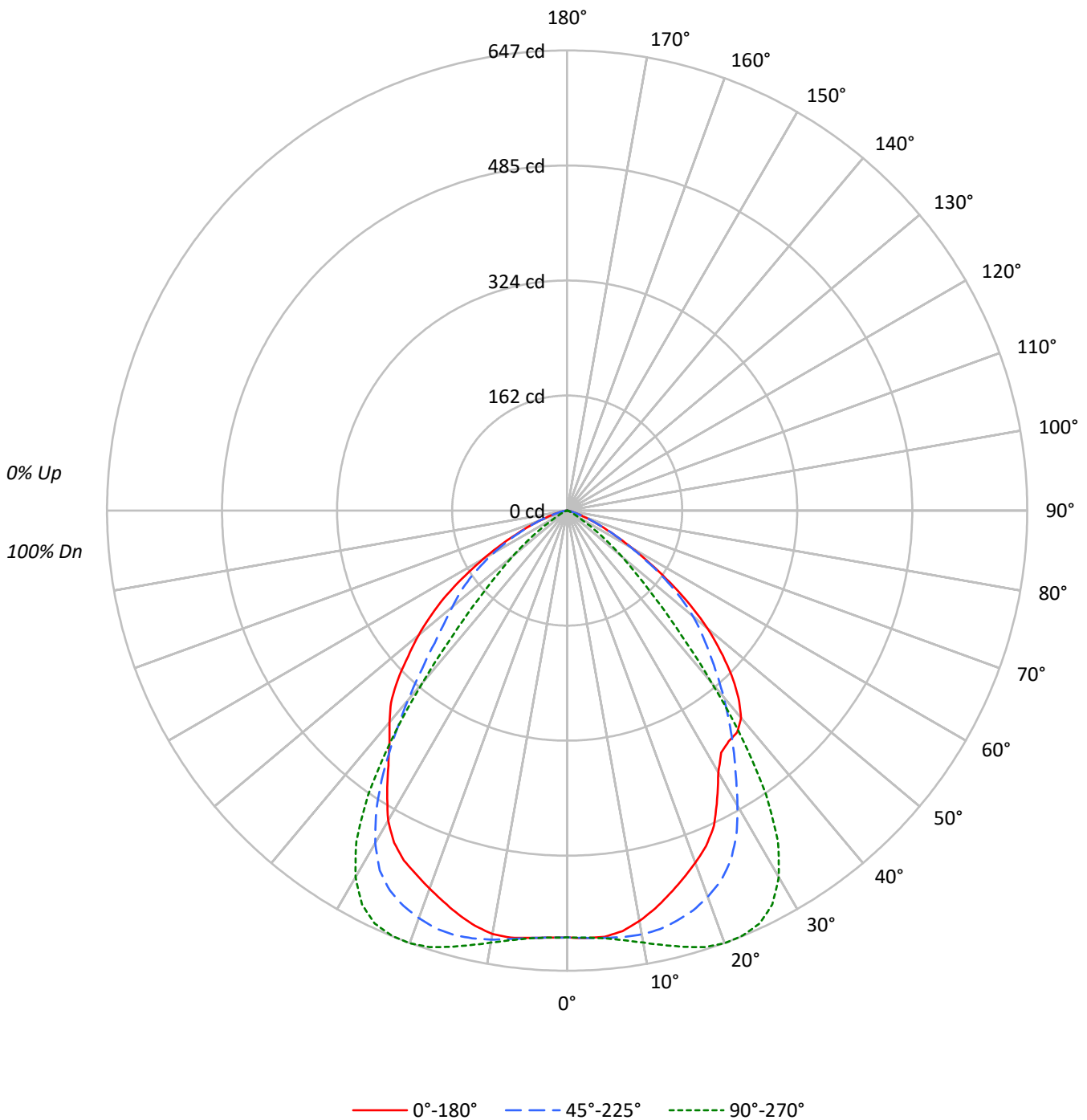
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	74	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°	18508	18508	18508
5°	18619	18687	18668
10°	18346	19313	18934
15°	17807	20269	18784
20°	17290	21245	18557
25°	16628	21789	18472
30°	15133	21190	17924
35°	14907	18363	16492
40°	15313	12736	15635
45°	14256	7697	14701
50°	12363	4754	13097
55°	9489	2484	11118
60°	6463	999	8387
65°	4020	511	5786
70°	2182	316	3534
75°	1144	155	2085
80°	515	178	1137
85°	354	106	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	5.0
10°-20°	171.0	14.8
20°-30°	260.9	22.5
30°-40°	272.2	23.5
40°-50°	204.5	17.7
50°-60°	125.8	10.9
60°-70°	51.2	4.4
70°-80°	12.1	1.0
80°-90°	1.7	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°	489.6	42.3
0°-40°	761.8	65.8
0°-60°	1092.1	94.4
0°-90°	1157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	600	600	600	600	600	
5°	602	603	604	603	603	57
15°	558	597	635	617	588	157
25°	489	544	640	590	543	222
35°	396	407	488	451	438	250
45°	327	283	176	264	337	249
55°	176	168	46	168	207	159
65°	55	56	7	75	79	57
75°	10	10	1	17	18	12
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	601.8	600.8	601.8	601.8	602.1	601.5	601.8	602.1	601.5	601.5	601.5
5°	601.5	600.8	601.5	601.2	601.8	601.8	602.4	602.4	603.1	603.1	604.0
7.5°	596.4	595.1	596.4	597.3	598.0	599.3	600.8	602.1	603.4	604.7	606.3
10°	585.9	585.9	586.8	588.7	590.7	592.9	595.8	598.9	602.1	605.0	607.9
12.5°	572.8	571.9	573.8	576.3	579.2	582.7	587.2	591.9	597.0	602.8	607.2
15°	557.8	556.9	559.1	561.7	565.2	570.3	575.7	582.1	589.4	597.0	604.4
17.5°	542.5	542.2	544.5	548.0	550.8	556.2	563.3	570.9	579.2	589.4	598.9
20°	526.9	526.6	528.9	531.7	535.5	540.6	547.6	556.6	566.4	577.9	589.1
22.5°	510.7	511.0	512.9	516.1	519.3	524.7	532.0	541.0	551.8	564.2	576.6
25°	488.7	487.1	489.7	492.9	498.3	502.7	509.7	519.3	530.4	543.5	558.2
27.5°	456.8	456.5	458.8	461.6	466.4	471.8	479.5	489.3	501.1	515.5	529.8
30°	425.0	425.6	426.6	429.5	432.6	438.1	445.7	454.0	465.1	478.8	494.1
32.5°	403.3	403.3	404.6	406.5	408.7	411.6	417.0	423.1	431.7	441.2	452.4
35°	396.0	394.7	396.0	396.3	396.6	397.3	398.2	400.1	403.0	407.2	411.3
37.5°	392.8	391.9	391.9	390.6	389.0	387.1	384.5	381.7	378.5	374.3	371.2
40°	380.4	379.8	379.1	377.8	374.3	370.5	366.4	359.7	352.4	342.2	332.0
42.5°	356.5	355.9	355.5	353.0	349.8	345.3	340.6	333.6	324.3	311.3	296.6
45°	326.9	325.6	324.6	322.4	320.2	316.4	311.9	305.5	296.3	282.9	265.4
47.5°	292.5	291.8	291.5	290.6	288.3	286.1	283.2	278.1	269.8	257.1	238.9
50°	257.7	256.5	257.1	256.8	255.8	254.2	252.3	248.8	242.4	231.0	214.4
52.5°	217.9	217.9	217.6	218.5	218.9	218.5	218.9	215.0	209.6	201.0	187.0
55°	176.5	176.5	177.5	178.7	180.0	180.3	180.0	178.4	174.6	167.6	155.1
57.5°	137.6	137.0	138.9	140.8	142.1	143.4	142.4	141.1	138.9	133.2	123.6
60°	104.8	104.8	106.1	107.4	108.6	109.9	109.6	109.3	107.4	103.5	95.9
62.5°	77.1	77.4	77.4	78.4	79.6	80.9	81.9	80.9	80.0	77.4	72.3
65°	55.1	54.8	55.1	56.1	57.0	58.3	58.9	58.6	57.7	55.8	51.9
67.5°	37.0	36.6	37.9	38.2	38.9	40.1	39.8	40.1	39.8	38.2	35.0
70°	24.2	23.6	24.2	23.9	24.9	25.2	25.8	26.1	25.8	24.9	23.9
72.5°	15.0	14.7	15.0	15.3	15.6	15.9	16.6	16.6	16.2	15.6	14.3
75°	9.6	8.6	8.9	8.3	8.9	8.9	9.6	9.9	9.6	9.6	8.9
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.1	6.4	5.7	5.4
80°	2.9	2.9	3.2	3.2	3.2	3.5	3.2	3.2	3.2	3.5	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°	1.0	1.3	1.0	0.6	1.0	1.0	1.3	1.0	1.0	1.0	1.3
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	601.8	601.2	601.2	600.8	601.5	600.8	601.2	600.8	600.8	601.5	600.8
5°	604.0	604.4	603.7	603.4	604.4	604.4	604.4	603.7	603.7	604.0	603.7
7.5°	607.2	607.9	608.2	608.5	609.1	609.5	609.5	609.1	608.8	609.8	608.5
10°	610.7	611.7	613.6	614.6	616.1	616.1	616.8	616.8	616.1	616.8	616.5
12.5°	609.5	615.2	618.4	620.6	622.8	624.7	625.4	625.7	625.4	626.7	625.4
15°	611.7	616.5	621.6	625.4	629.5	631.8	632.4	634.9	635.6	635.9	634.0
17.5°	608.2	616.8	622.2	627.9	634.0	638.1	641.9	643.5	643.9	644.5	641.9
20°	600.2	609.8	618.1	626.3	633.3	639.7	642.9	647.4	646.1	648.6	645.1
22.5°	589.4	600.2	610.7	621.6	628.9	636.5	643.2	646.4	648.0	648.0	644.2
25°	572.2	584.9	596.4	607.5	618.7	627.9	635.6	640.4	641.3	641.0	636.5
27.5°	545.4	559.1	572.5	585.2	598.9	609.8	618.7	624.4	626.0	626.0	621.2
30°	508.5	523.1	536.2	551.5	565.5	577.6	590.0	595.1	598.0	598.0	592.6
32.5°	464.5	476.9	489.0	504.0	519.3	533.0	544.8	551.8	555.3	555.0	550.2
35°	416.7	422.8	432.0	443.2	456.8	469.6	481.1	487.8	493.8	493.5	489.0
37.5°	368.9	367.3	368.3	372.4	381.0	389.9	398.9	405.2	410.3	412.6	411.6
40°	322.1	313.8	305.8	303.0	303.6	306.8	311.6	316.4	322.1	325.0	326.2
42.5°	280.0	266.0	252.0	241.5	235.4	233.5	235.8	237.3	240.8	245.0	249.1
45°	246.3	227.5	209.0	192.7	182.5	176.5	175.2	176.5	178.4	182.5	188.0
47.5°	218.5	196.6	175.9	157.7	142.7	134.8	132.5	131.9	133.8	137.6	145.0
50°	194.0	172.0	149.1	128.1	112.5	103.5	100.4	99.1	101.3	104.2	110.9
52.5°	167.3	145.6	122.0	101.6	85.4	76.1	72.6	70.7	72.0	75.8	82.5
55°	138.3	118.2	96.8	75.8	60.2	51.6	47.5	46.2	47.5	51.6	58.3
57.5°	109.3	92.4	74.5	54.8	40.8	32.2	28.0	26.8	30.3	31.9	38.9
60°	85.4	71.7	56.4	40.1	28.0	21.3	17.2	16.2	17.8	20.7	26.4
62.5°	64.0	55.4	43.3	28.7	20.7	13.7	11.5	10.5	11.5	13.7	18.2
65°	46.5	39.8	30.3	21.0	14.0	10.2	7.6	7.0	8.0	9.6	13.4
67.5°	31.9	26.8	21.0	14.7	9.6	6.4	5.4	5.4	5.7	7.0	9.9
70°	20.7	17.5	13.4	9.6	6.4	4.8	4.1	3.5	4.1	5.1	6.7
72.5°	13.1	11.1	8.6	6.7	4.8	3.5	2.9	2.5	3.2	3.8	5.1
75°	8.0	6.1	4.5	3.5	2.5	2.5	2.5	1.3	1.6	2.5	3.2
77.5°	4.8	4.1	3.5	2.9	2.2	1.3	1.3	1.3	1.6	1.9	2.9
80°	2.5	2.2	1.6	1.6	1.3	1.0	1.3	1.0	0.6	1.6	1.9
82.5°	1.6	1.3	1.3	1.3	1.6	0.6	1.0	0.6	1.0	1.3	1.0
85°	1.0	1.0	1.0	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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	601.2	600.8	601.2	600.8	600.8	600.8	601.2	601.2	600.8	600.8	601.5
5°	603.7	603.7	603.7	603.4	603.1	603.1	603.7	603.7	602.8	603.7	603.7
7.5°	609.1	608.2	609.1	607.9	607.2	607.5	607.9	607.2	606.6	606.9	606.9
10°	616.1	615.2	615.2	614.2	613.3	612.6	612.0	610.4	608.8	608.5	607.2
12.5°	624.4	622.8	621.9	620.0	618.4	616.1	614.2	611.7	608.5	606.3	604.0
15°	632.7	630.2	627.9	624.7	621.2	617.4	613.3	609.1	604.0	599.6	595.8
17.5°	639.4	635.9	631.8	626.7	621.6	615.8	609.8	603.7	596.4	590.7	586.2
20°	641.6	636.5	631.1	624.4	617.7	609.8	602.1	594.2	585.9	579.8	574.7
22.5°	638.8	632.7	626.0	619.0	610.1	601.5	592.6	583.3	576.0	567.7	562.9
25°	630.8	623.5	616.1	607.9	599.3	589.7	580.1	570.6	561.7	557.2	551.2
27.5°	614.6	606.6	598.6	590.0	580.1	570.6	560.7	551.5	543.8	537.8	534.3
30°	585.9	576.6	567.4	558.2	549.6	539.7	530.4	522.8	515.1	510.4	506.9
32.5°	541.9	533.6	524.4	515.5	507.5	499.2	491.6	484.9	479.5	476.3	473.7
35°	482.7	474.4	467.4	461.0	454.3	450.8	446.0	442.2	440.0	438.7	438.4
37.5°	408.1	403.3	401.1	399.8	398.5	397.6	398.2	399.8	401.1	403.3	405.9
40°	328.5	332.6	333.9	338.3	342.5	347.9	354.0	361.0	366.7	374.0	379.1
42.5°	255.8	263.5	272.4	281.9	292.1	302.0	314.1	325.3	335.5	344.7	352.7
45°	196.6	208.4	221.7	235.4	249.1	263.5	278.1	291.8	303.9	313.8	322.1
47.5°	153.2	166.3	183.5	200.4	217.0	233.8	250.1	264.4	274.6	284.2	291.5
50°	121.4	136.4	155.1	174.6	192.7	210.6	227.8	241.2	251.4	259.0	264.4
52.5°	94.0	111.8	130.9	151.3	170.8	190.2	206.1	218.5	226.8	233.5	237.7
55°	70.1	87.6	108.0	129.0	148.8	167.6	182.5	193.4	200.7	204.5	206.8
57.5°	50.7	66.6	87.0	108.0	125.8	143.7	155.8	165.7	169.8	172.0	173.0
60°	37.0	51.6	69.8	87.9	104.8	119.2	129.7	136.4	139.5	140.8	140.5
62.5°	27.1	39.8	55.4	70.7	84.4	96.2	104.5	109.0	110.6	111.2	110.2
65°	20.7	30.6	44.0	55.8	66.3	74.9	80.9	83.8	84.7	84.4	83.8
67.5°	15.3	22.9	32.8	41.7	49.4	56.1	59.3	61.8	62.4	61.5	60.5
70°	10.8	16.9	23.9	29.9	35.7	39.5	43.0	43.3	43.3	43.0	42.4
72.5°	7.6	11.8	16.2	20.4	23.9	26.8	28.0	29.0	28.7	28.4	27.7
75°	5.1	7.3	11.8	12.7	15.9	16.9	18.2	18.2	18.5	17.5	17.5
77.5°	3.2	5.1	7.0	8.3	9.6	10.8	11.5	11.5	11.8	11.5	11.5
80°	1.9	3.2	3.8	5.7	5.7	6.7	7.0	7.3	6.7	7.6	6.7
82.5°	1.3	1.9	2.9	2.9	3.5	4.1	4.1	4.5	4.5	4.1	4.1
85°	1.0	1.3	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	1.3	1.0	1.0	1.0	1.3	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):**

	165°	170°	175°	180°
0°	600.2	600.2	600.2	600.2
2.5°	600.8	601.2	600.8	600.8
5°	603.7	603.4	603.7	603.1
7.5°	605.9	605.9	605.6	605.6
10°	605.9	604.7	604.7	604.7
12.5°	601.2	599.6	598.6	598.0
15°	592.9	590.0	588.7	588.4
17.5°	582.1	579.5	577.9	577.0
20°	569.6	567.1	565.2	565.5
22.5°	558.8	555.9	554.7	554.0
25°	548.0	544.5	543.5	542.9
27.5°	530.4	528.5	527.6	526.6
30°	503.7	502.7	501.1	503.4
32.5°	472.8	471.2	469.9	470.9
35°	438.7	437.7	438.7	438.1
37.5°	407.5	408.4	409.7	410.3
40°	382.9	386.4	387.7	388.4
42.5°	358.4	362.5	365.1	366.7
45°	328.1	332.3	335.1	337.1
47.5°	296.9	300.4	303.3	303.0
50°	268.6	270.5	271.8	273.0
52.5°	239.9	239.9	240.2	240.2
55°	207.4	206.8	206.4	206.8
57.5°	171.7	171.1	170.8	169.8
60°	139.2	137.3	136.0	136.0
62.5°	109.0	106.7	105.8	105.5
65°	81.9	81.6	79.6	79.3
67.5°	59.3	58.0	56.7	57.0
70°	41.7	39.8	39.8	39.2
72.5°	27.1	26.1	25.8	25.8
75°	16.9	16.9	16.2	17.5
77.5°	11.1	11.1	10.8	11.1
80°	6.7	6.7	6.7	6.4
82.5°	4.1	4.5	4.1	4.1
85°	2.2	2.5	1.9	2.9
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)