

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: P244644

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244644  
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: LSR8B10D010 EC8B10950 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1066.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

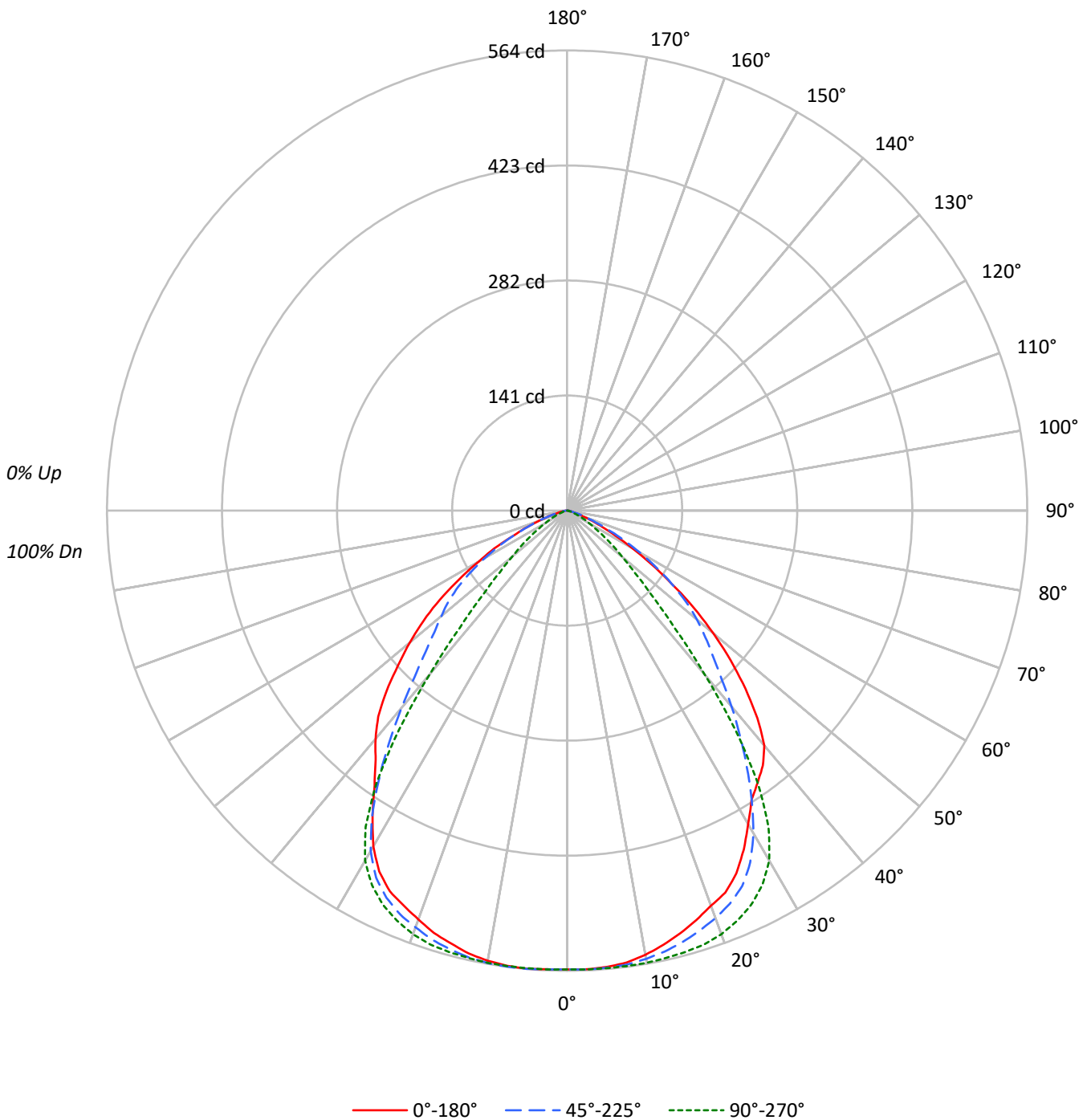
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	17342	17342	17342
5°	17381	17427	17449
10°	17309	17619	17544
15°	17118	17877	17542
20°	16910	18130	17497
25°	16692	18152	17512
30°	15792	17640	16920
35°	15321	15332	15491
40°	15131	10547	14705
45°	13480	6332	13667
50°	11211	4217	12080
55°	8408	2903	10242
60°	5699	1937	7728
65°	3437	1255	5312
70°	1902	676	3264
75°	858	286	1692
80°	746	320	1172
85°	849	425	1168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	5.0
10°-20°	155.9	14.6
20°-30°	236.6	22.2
30°-40°	248.5	23.3
40°-50°	186.3	17.5
50°-60°	119.5	11.2
60°-70°	51.1	4.8
70°-80°	12.1	1.1
80°-90°	2.2	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°	446.2	41.9
0°-40°	694.7	65.2
0°-60°	1000.5	93.9
0°-90°	1066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	562	562	562	562	562	
5°	562	562	563	564	564	53
15°	536	547	560	556	550	151
25°	491	508	534	524	515	224
35°	407	384	407	402	412	255
45°	309	253	145	245	313	237
55°	156	156	54	163	190	142
65°	47	56	17	72	73	50
75°	7	8	2	14	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°	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4
2.5°	562.7	563.4	563.0	563.0	562.7	563.0	563.0	563.7	563.7	563.0	562.7
5°	561.5	562.1	562.1	561.5	561.5	563.0	562.1	562.7	562.7	562.4	562.4
7.5°	558.8	558.8	560.0	559.1	559.1	560.0	559.7	560.3	560.9	561.2	561.2
10°	552.8	553.4	553.7	553.7	554.0	554.9	555.5	556.7	557.3	557.9	558.2
12.5°	545.2	546.1	546.4	546.1	547.0	548.3	549.8	551.3	552.2	553.4	554.3
15°	536.2	536.2	536.8	537.7	538.3	540.1	541.6	543.4	545.8	547.4	548.9
17.5°	526.2	526.8	527.7	527.7	528.9	531.9	532.9	535.6	538.3	539.8	542.8
20°	515.3	515.9	516.9	517.5	519.0	521.4	523.2	525.6	528.6	531.4	534.4
22.5°	506.9	505.7	506.3	506.9	508.4	510.5	512.6	515.6	518.7	521.4	524.4
25°	490.6	490.9	491.8	492.4	494.2	496.0	498.4	502.1	504.8	507.8	511.1
27.5°	468.6	468.9	470.4	470.4	471.9	474.9	476.4	479.4	483.0	486.1	490.0
30°	443.5	444.1	444.1	445.3	446.2	447.7	449.2	452.2	454.1	456.8	462.2
32.5°	420.6	421.2	420.8	420.6	419.6	419.3	419.0	419.6	420.2	421.2	423.3
35°	407.0	405.5	404.2	402.1	399.7	396.7	394.0	390.4	387.0	384.3	381.3
37.5°	394.0	393.7	391.9	388.8	384.0	378.6	372.2	364.4	356.5	348.1	339.9
40°	375.9	375.0	373.5	369.2	363.8	357.1	348.7	339.0	326.4	313.4	300.1
42.5°	345.1	345.4	343.6	340.2	335.1	328.8	320.0	309.5	295.9	280.5	263.3
45°	309.1	309.1	308.5	305.8	302.2	297.1	290.4	281.7	268.4	252.7	234.3
47.5°	271.7	272.0	271.1	270.5	269.0	265.7	260.8	254.2	244.8	229.7	211.3
50°	233.7	233.7	235.2	234.9	234.9	233.7	231.6	227.6	219.5	207.4	190.2
52.5°	195.6	196.2	197.1	198.3	199.9	202.3	199.9	198.0	192.9	183.6	168.8
55°	156.4	157.0	158.5	160.6	162.4	164.8	165.4	165.4	162.7	156.4	145.2
57.5°	122.9	122.0	123.2	125.0	127.4	129.8	131.6	133.7	133.4	129.2	120.2
60°	92.4	92.7	93.6	95.4	97.2	99.3	101.7	103.6	104.5	102.3	96.6
62.5°	67.3	67.3	68.5	70.3	71.2	74.3	75.8	76.7	77.6	77.3	73.7
65°	47.1	47.7	48.3	49.2	50.1	51.9	52.8	54.6	55.2	55.6	52.8
67.5°	33.2	32.3	32.9	33.5	34.4	35.6	37.4	37.4	38.3	38.3	36.5
70°	21.1	21.1	21.4	22.3	22.9	23.2	23.9	24.5	25.4	25.1	25.1
72.5°	14.2	13.9	14.2	14.5	14.8	15.7	15.7	16.0	16.6	16.9	15.7
75°	7.2	7.5	8.1	7.9	8.8	8.1	8.5	9.4	9.1	8.5	8.5
77.5°	6.0	6.0	6.0	5.7	6.3	6.3	6.0	6.6	6.3	6.3	6.0
80°	4.2	4.5	4.2	3.9	4.2	3.9	3.9	3.9	3.9	3.9	3.6
82.5°	3.3	2.7	3.0	2.7	3.0	3.0	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°	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4
2.5°	563.4	563.0	563.7	563.4	563.4	563.0	563.4	563.0	563.7	562.4	562.7
5°	563.4	562.7	563.0	563.4	563.7	563.0	563.0	563.0	563.7	563.0	563.4
7.5°	562.1	561.8	562.7	563.4	563.0	562.7	563.4	563.0	563.7	563.4	563.9
10°	559.7	560.0	560.6	561.5	561.8	562.1	562.7	562.7	563.7	562.4	563.0
12.5°	556.1	557.3	558.8	559.4	560.6	560.6	561.2	561.5	562.1	561.8	562.7
15°	551.6	553.1	554.9	556.4	557.9	558.8	559.7	560.0	560.9	560.0	560.3
17.5°	546.1	547.9	550.7	552.5	554.9	555.8	557.0	557.6	558.5	557.9	558.2
20°	538.6	540.7	543.7	546.4	547.9	550.1	551.6	552.5	553.1	552.5	552.8
22.5°	528.0	531.0	535.0	537.1	540.1	541.9	542.2	544.3	545.8	544.3	544.9
25°	515.6	518.7	521.7	526.2	528.9	531.0	533.2	533.5	535.0	534.7	534.4
27.5°	495.1	499.0	504.2	507.8	511.4	514.7	517.2	517.8	519.3	518.7	519.0
30°	467.0	471.3	476.1	481.8	487.0	490.3	493.3	495.4	496.9	496.0	495.7
32.5°	427.2	431.4	436.6	442.3	448.3	453.2	456.8	459.5	461.3	460.7	459.2
35°	381.6	382.8	386.1	390.7	395.8	400.9	404.2	407.3	409.4	410.0	410.0
37.5°	334.8	330.9	328.5	328.5	331.5	333.6	336.6	338.4	341.8	343.0	343.9
40°	289.5	280.5	272.0	265.7	261.4	261.1	261.1	262.0	265.1	269.0	272.6
42.5°	249.1	234.6	221.6	209.8	201.4	196.5	194.4	194.7	197.1	200.8	206.8
45°	216.8	198.7	182.3	168.2	156.7	149.1	145.5	145.2	147.0	151.2	157.9
47.5°	191.7	172.4	154.0	137.7	125.3	117.1	112.9	111.7	112.9	116.8	124.7
50°	170.9	151.0	131.9	115.0	101.7	93.3	89.4	87.9	89.4	92.7	100.5
52.5°	151.6	131.0	113.2	96.9	82.7	75.5	71.2	70.3	71.2	75.2	81.5
55°	129.2	111.7	94.2	77.9	65.5	58.3	54.9	54.0	54.9	58.6	65.2
57.5°	107.2	92.1	76.7	61.9	51.3	45.0	42.0	40.8	42.9	45.3	53.1
60°	86.6	74.6	61.6	48.6	39.9	34.1	31.7	31.4	32.0	35.0	40.5
62.5°	67.9	58.0	47.7	37.1	29.9	27.5	24.5	24.2	24.8	26.6	30.8
65°	48.9	42.6	34.7	27.2	21.4	18.1	16.9	17.2	17.8	19.0	22.9
67.5°	34.1	29.6	24.2	19.0	14.8	13.3	12.1	11.8	12.1	14.2	16.3
70°	22.9	20.2	16.3	14.5	10.3	8.1	8.5	7.5	8.8	8.8	10.6
72.5°	15.1	13.3	10.9	8.5	7.2	5.7	5.7	5.4	6.0	6.3	7.9
75°	7.9	6.0	6.0	4.2	3.0	1.5	2.7	2.4	2.1	2.4	3.0
77.5°	5.4	4.5	4.2	3.3	3.0	2.4	2.4	2.4	2.4	2.7	3.0
80°	3.3	3.3	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°	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4
2.5°	563.4	563.7	563.7	563.4	563.4	562.7	563.9	563.0	563.4	564.6	563.7
5°	563.9	564.3	564.3	563.9	563.9	563.9	564.3	564.3	563.9	563.7	564.3
7.5°	565.2	564.9	564.9	564.3	564.3	563.7	564.3	563.4	563.9	563.4	564.3
10°	563.7	563.9	563.7	563.4	563.4	563.0	563.0	562.1	562.4	561.5	562.1
12.5°	562.7	562.4	562.4	561.8	561.2	560.6	560.3	559.4	559.4	557.3	558.2
15°	560.3	560.6	559.7	558.5	557.9	556.4	555.8	554.6	553.4	551.9	552.2
17.5°	558.2	557.3	556.1	554.9	552.5	551.3	550.1	548.3	547.6	545.8	545.2
20°	551.9	551.3	549.8	547.6	546.1	543.4	542.2	540.4	538.9	537.1	536.2
22.5°	543.7	543.1	541.3	539.2	536.8	535.6	534.4	531.0	529.5	527.7	527.4
25°	533.5	532.6	530.7	528.3	527.1	523.8	522.6	520.2	519.6	517.8	517.5
27.5°	517.8	516.6	514.4	511.4	509.3	507.2	506.0	504.2	503.6	501.8	501.5
30°	494.2	492.7	488.5	487.3	483.6	481.5	481.5	479.1	479.4	478.2	478.2
32.5°	457.1	454.7	451.3	448.9	446.5	445.3	445.3	444.4	445.0	445.0	445.6
35°	407.9	404.6	402.7	401.2	401.2	402.4	406.1	407.0	408.8	410.3	411.5
37.5°	344.8	344.5	346.6	348.4	352.9	358.1	364.4	369.8	375.0	378.6	382.2
40°	276.5	284.1	290.1	298.6	305.5	315.5	327.0	336.3	345.1	351.4	358.1
42.5°	215.9	225.5	238.2	250.6	263.0	276.5	291.6	304.6	316.1	324.8	331.8
45°	168.2	181.4	196.8	212.5	228.5	245.4	261.1	274.4	286.5	295.6	302.5
47.5°	135.6	150.0	167.6	184.8	202.9	220.7	238.2	249.7	259.6	266.9	273.2
50°	112.0	127.4	145.8	165.4	183.6	201.4	216.5	227.6	235.8	242.1	246.0
52.5°	93.6	109.9	129.5	149.1	167.3	183.6	197.1	205.6	212.2	216.8	220.4
55°	77.3	93.0	111.4	129.8	147.6	163.0	174.2	180.5	185.7	188.4	190.5
57.5°	63.1	77.6	94.5	111.4	126.8	139.5	148.2	154.6	157.0	159.1	158.8
60°	49.5	63.1	78.5	93.0	106.3	116.5	122.9	126.5	128.3	129.2	128.6
62.5°	38.9	51.3	63.1	75.8	85.4	94.2	100.2	100.2	101.1	101.4	102.3
65°	29.0	38.3	48.6	58.0	65.8	71.6	74.9	75.8	77.0	76.7	76.1
67.5°	21.4	28.4	35.9	42.9	48.3	51.9	54.3	56.5	56.2	55.6	55.2
70°	14.8	19.3	26.0	30.2	34.1	37.7	38.3	38.6	38.9	39.2	38.6
72.5°	10.3	13.6	17.2	20.8	23.2	24.8	26.3	26.6	26.6	26.6	26.3
75°	5.1	6.9	10.3	11.8	13.9	14.5	15.7	15.7	16.6	15.4	15.1
77.5°	4.5	5.4	7.2	8.5	9.4	10.3	10.6	11.5	11.2	10.6	10.9
80°	2.7	3.3	4.5	5.1	6.3	6.6	6.9	7.2	6.9	7.2	7.2
82.5°	2.1	2.4	3.0	3.0	3.9	3.9	4.2	4.2	4.5	4.5	4.5
85°	1.2	2.1	1.8	3.6	2.4	2.4	3.0	3.6	3.0	3.0	3.6
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°	562.4	562.4	562.4	562.4
2.5°	563.4	563.9	563.0	562.7
5°	564.3	564.3	563.7	563.7
7.5°	564.3	564.3	563.4	562.7
10°	561.8	561.8	560.9	560.3
12.5°	557.3	557.3	557.0	556.1
15°	551.6	551.6	550.4	549.5
17.5°	543.7	544.3	542.8	542.8
20°	535.3	535.0	533.8	533.2
22.5°	526.5	525.9	525.6	523.8
25°	517.2	516.6	515.6	514.7
27.5°	501.2	500.9	499.9	498.7
30°	476.7	476.4	475.2	475.2
32.5°	445.0	444.7	443.5	443.8
35°	412.1	413.3	412.7	411.5
37.5°	384.6	385.5	386.1	385.5
40°	361.7	364.4	364.7	365.3
42.5°	337.2	340.8	342.1	342.7
45°	307.9	311.3	314.0	313.4
47.5°	278.0	280.5	282.9	281.1
50°	249.4	250.9	251.8	251.8
52.5°	222.2	222.2	221.9	222.2
55°	191.1	191.1	189.9	190.5
57.5°	158.5	159.1	158.2	156.7
60°	128.3	126.8	126.2	125.3
62.5°	99.9	99.9	97.8	100.5
65°	74.9	74.0	73.1	72.8
67.5°	54.3	54.0	53.1	52.8
70°	38.3	37.1	36.8	36.2
72.5°	25.7	25.7	25.1	25.1
75°	15.7	14.2	13.9	14.2
77.5°	10.9	10.6	10.6	10.3
80°	7.2	6.9	7.5	6.6
82.5°	4.5	4.8	4.5	4.8
85°	3.0	3.6	3.3	3.3
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)