

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: NEO-RAY

Report Number: P334982

Luminaire Tested: **S125IP-S810U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IP-S810U927-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

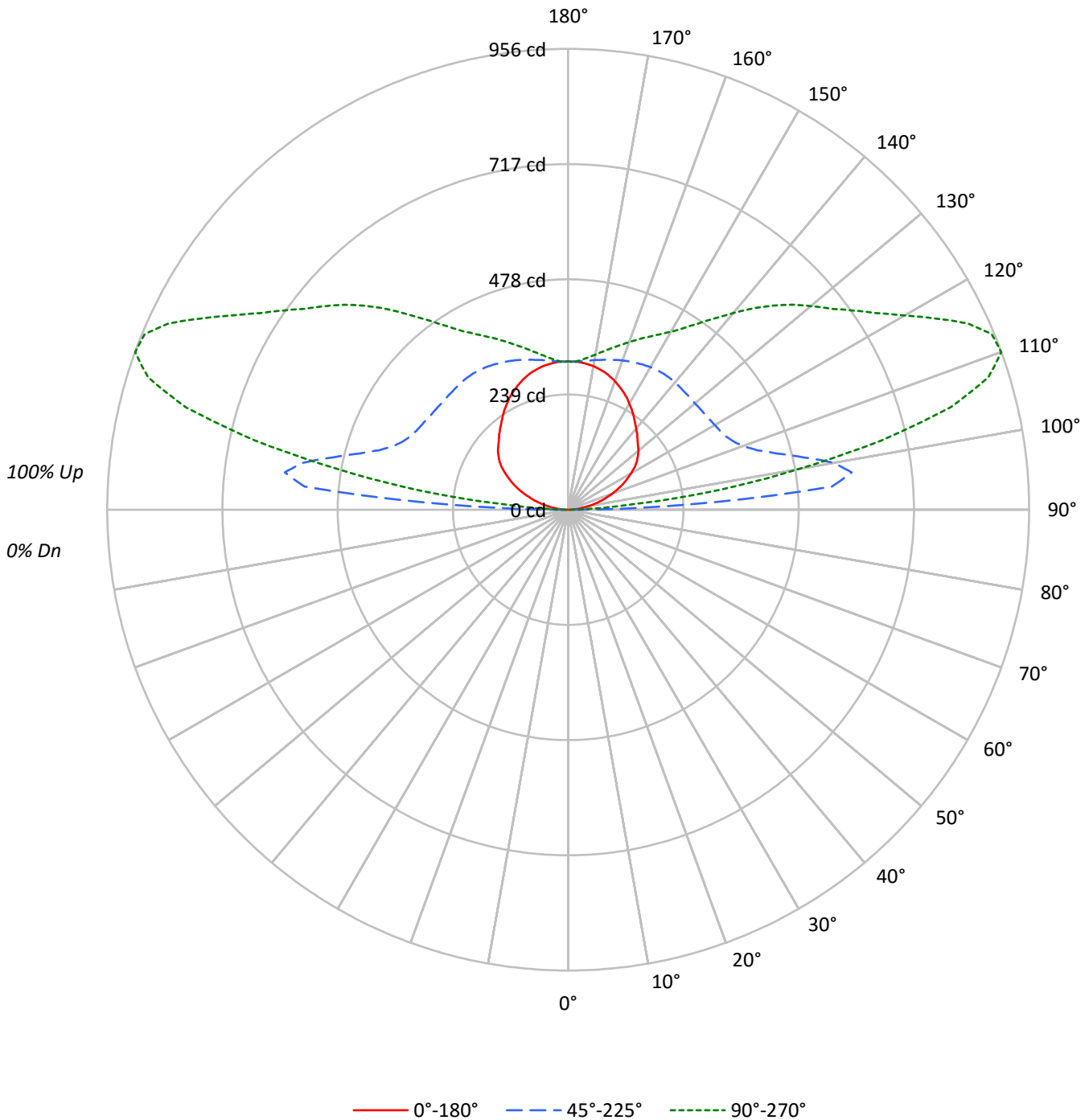
Lumens per Lamp: N/A  
Luminaire Lumens: 2308.8 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 26.4  
Input Voltage (V): 120  
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



TEST NUMBER: P334982  
CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

### 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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P334982

CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.1
90°-100°	223.5	9.7
100°-110°	481.9	20.9
110°-120°	449.3	19.5
120°-130°	363.9	15.8
130°-140°	292.2	12.7
140°-150°	220.4	9.5
150°-160°	155.2	6.7
160°-170°	91.5	4.0
170°-180°	29.7	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.1
90°-120°	1154.7	50.0
90°-150°	2031.1	88.0
90°-180°	2308.0	100.0
0°-180°	2308.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	6	10	13	14	1
95°	20	60	549	249	146	21
105°	70	98	449	884	821	74
115°	125	151	360	777	914	123
125°	173	203	346	618	720	154
135°	203	244	343	518	598	158
145°	237	271	344	429	472	148
155°	270	290	336	379	396	124
165°	295	303	322	342	347	83
175°	307	307	309	313	312	29
180°	307	307	307	307	307	



TEST NUMBER: P334982

CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.6	1.2	2.5	3.7	5.0	6.2	6.8	8.1	8.7	9.9	10.5
92.5°	9.3	11.1	17.3	26.6	39.6	61.9	104.1	174.7	251.5	247.1	199.4
95°	20.4	21.1	26.0	32.8	46.5	74.3	140.6	276.9	447.8	548.8	537.0
97.5°	31.6	32.2	35.9	42.7	55.1	75.6	121.4	226.1	410.7	592.8	670.8
100°	43.4	44.6	47.1	53.9	65.7	84.2	120.2	200.7	356.8	559.3	714.2
102.5°	56.4	57.0	58.8	66.3	76.8	94.8	125.7	190.2	315.9	500.5	688.2
105°	70.0	70.0	73.1	79.3	89.2	106.5	133.8	188.9	292.4	449.1	626.8
107.5°	83.0	84.2	87.3	92.3	102.8	118.3	144.9	193.3	280.0	410.7	568.6
110°	97.2	98.5	101.0	106.5	115.8	131.9	157.3	200.1	275.0	385.3	520.3



TEST NUMBER: P334982

CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	111.5	112.7	114.6	120.2	129.5	144.9	169.1	208.7	275.0	370.4	484.4
115°	125.1	126.4	128.2	133.8	143.1	158.6	181.5	217.4	276.9	360.5	460.2
117.5°	137.5	139.4	141.2	146.8	157.3	172.2	193.9	227.3	280.0	354.9	444.1
120°	149.9	151.8	154.2	159.8	170.3	185.8	207.5	237.2	284.9	351.2	431.1
122.5°	162.9	164.1	166.0	171.6	183.3	198.8	220.5	248.4	289.3	348.1	420.0
125°	173.4	174.7	177.8	183.3	195.1	211.2	231.7	258.3	294.2	345.6	410.0
127.5°	182.1	184.0	187.7	194.5	206.9	223.0	242.8	267.6	299.8	344.4	400.8
130°	190.2	192.0	197.0	205.0	218.0	234.1	253.3	276.9	304.7	343.1	391.5
132.5°	196.4	198.8	205.0	214.3	227.9	244.0	263.2	284.9	310.3	343.1	384.0
135°	203.2	205.6	213.1	223.0	236.0	252.7	271.9	292.4	315.3	343.1	378.5
137.5°	211.8	213.7	220.5	230.4	243.4	260.8	278.1	297.9	320.2	343.8	372.9
140°	219.3	221.1	228.6	238.5	250.2	267.0	284.9	303.5	323.3	344.4	369.2
142.5°	227.9	229.2	236.0	245.9	257.1	272.5	289.3	306.6	325.2	345.0	366.1
145°	236.6	237.9	244.0	252.7	263.9	278.1	294.2	309.7	326.4	344.4	363.0
147.5°	245.9	246.5	252.1	260.1	270.1	283.1	297.3	311.6	327.0	343.1	359.9
150°	254.0	255.2	259.5	267.6	276.3	286.8	300.4	313.4	327.0	341.3	356.2
152.5°	262.6	263.2	267.0	273.8	281.8	291.1	303.5	314.7	326.4	338.8	351.8
155°	270.1	270.1	273.8	280.0	286.2	294.8	305.4	315.3	325.2	335.7	346.9
157.5°	276.9	276.9	280.0	285.5	291.1	297.9	307.2	315.9	323.9	332.6	342.5
160°	283.7	283.1	285.5	289.9	294.8	300.4	308.5	315.9	322.1	329.5	337.0
162.5°	289.3	288.6	291.1	294.8	298.6	302.9	309.7	315.3	320.2	325.8	332.0
165°	294.8	293.6	295.5	298.6	301.0	304.7	309.7	314.7	318.4	322.1	327.0
167.5°	298.6	297.9	299.2	301.0	302.9	305.4	309.7	313.4	315.3	318.4	322.1
170°	302.3	301.6	302.3	303.5	304.7	306.6	309.7	312.2	313.4	315.3	317.8
172.5°	304.7	303.5	304.1	305.4	306.0	306.6	309.1	310.9	310.9	311.6	313.4
175°	306.6	305.4	306.0	306.6	306.6	306.6	308.5	309.7	309.1	309.1	309.7
177.5°	307.8	306.6	306.6	307.2	306.6	306.6	307.8	308.5	307.2	307.2	307.8
180°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2



TEST NUMBER: P334982

CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	11.1	11.8	12.4	13.6	13.6	13.6	14.2	14.2
92.5°	134.4	96.6	71.9	60.1	50.2	48.3	47.1	45.8
95°	445.4	351.2	275.0	223.0	179.0	160.4	155.5	145.6
97.5°	638.6	563.7	486.9	412.5	375.4	343.1	326.4	319.0
100°	761.9	731.5	667.7	603.3	560.6	516.0	493.0	483.1
102.5°	803.4	834.3	812.0	773.6	727.2	698.7	673.3	666.5
105°	775.5	860.3	887.6	880.8	861.0	840.5	828.1	820.7
107.5°	718.5	830.6	896.3	923.5	929.1	926.0	919.8	913.6
110°	654.1	771.8	859.1	911.8	939.6	951.4	955.7	955.7





TEST NUMBER: P334982

CATALOG NUMBER: S125IP-S810U927-4F0-1E-UDD-4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	603.3	713.6	802.1	866.5	910.5	932.8	945.2	950.8
115°	562.4	658.4	743.3	810.8	859.1	888.8	906.2	914.2
117.5°	533.9	618.8	693.1	756.9	805.8	836.8	854.2	859.1
120°	511.6	586.0	654.1	708.6	754.4	784.2	800.9	805.8
122.5°	494.9	562.4	621.3	671.4	711.1	737.7	754.4	758.8
125°	478.8	542.0	595.9	640.5	675.1	700.5	714.2	720.4
127.5°	462.1	522.2	572.9	615.1	646.7	669.6	682.6	685.1
130°	446.6	501.1	549.4	589.7	620.6	641.1	653.5	657.2
132.5°	431.1	481.3	524.0	562.4	593.4	613.8	625.0	629.3
135°	418.1	460.8	500.5	535.8	563.0	583.5	594.6	598.3
137.5°	406.3	442.3	476.3	507.3	532.1	551.3	561.8	566.1
140°	397.0	426.1	454.6	480.7	503.6	519.7	529.0	532.1
142.5°	389.0	412.5	436.1	457.7	476.3	489.3	498.0	500.5
145°	382.2	401.4	420.6	437.3	452.2	462.7	469.5	472.0
147.5°	375.4	391.5	406.9	420.0	432.3	441.0	445.4	446.6
150°	369.8	383.4	395.2	406.3	415.6	423.1	425.5	426.1
152.5°	363.6	375.4	385.9	393.9	401.4	406.9	409.4	410.0
155°	357.4	367.3	376.0	382.8	389.0	393.3	395.2	395.8
157.5°	351.2	359.9	366.7	372.3	377.2	380.9	382.8	382.8
160°	345.0	351.2	357.4	361.7	366.1	369.2	370.4	369.8
162.5°	338.2	343.8	348.7	352.4	355.5	358.0	358.0	358.0
165°	332.0	336.3	340.1	343.1	345.6	346.9	346.9	346.9
167.5°	325.8	328.9	332.0	334.5	335.7	337.0	336.3	336.3
170°	320.9	322.7	324.6	325.8	327.0	327.7	327.7	327.0
172.5°	315.3	317.1	318.4	319.0	319.0	320.2	319.0	318.4
175°	311.6	311.6	312.8	312.8	312.8	313.4	312.2	311.6
177.5°	308.5	309.1	309.1	309.1	308.5	309.1	307.2	307.2
180°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2

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