

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: AMETRIX

Report Number: P508351

Luminaire Tested: **ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: AMETRIX  
Catalog Number: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

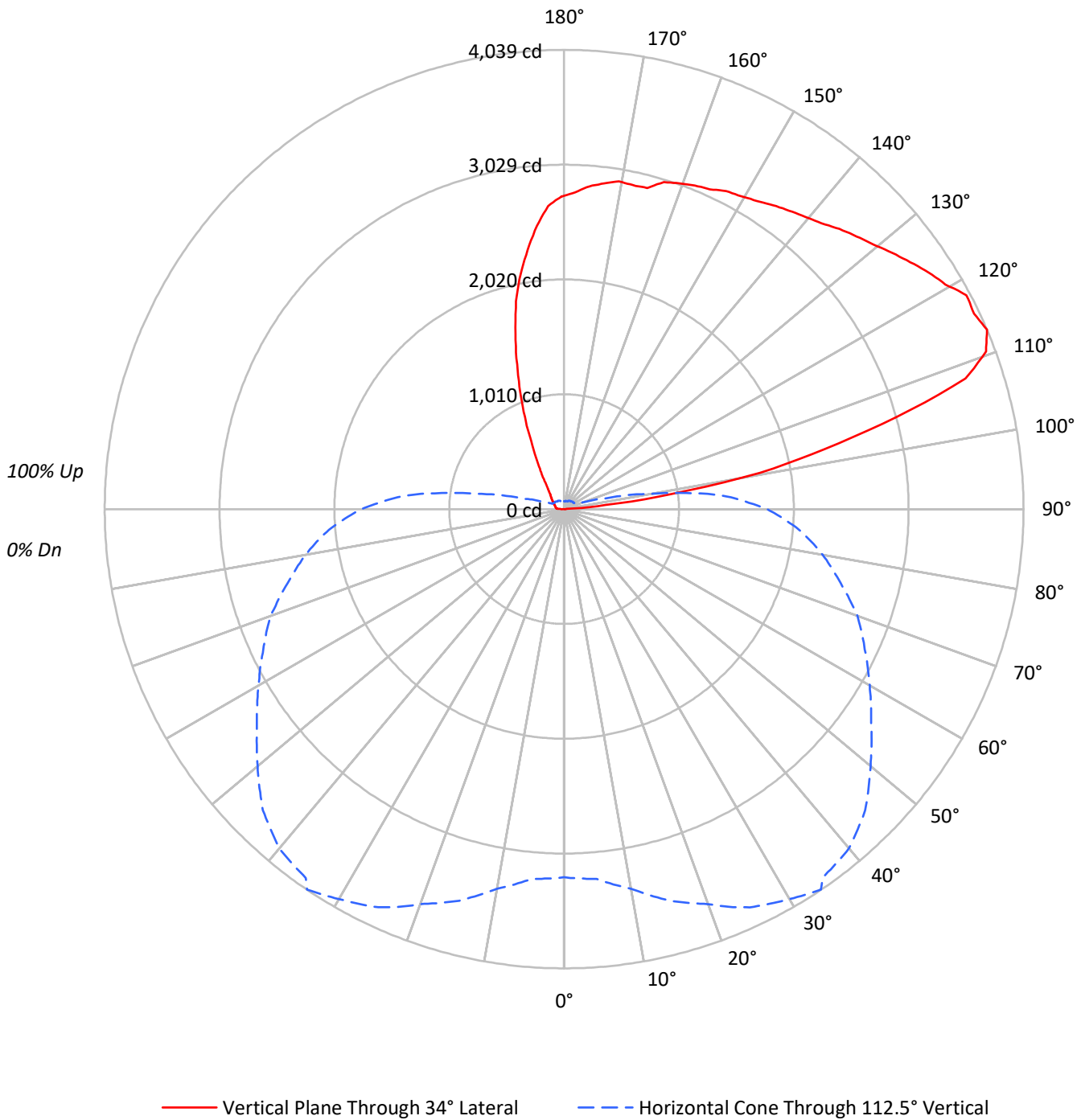
Lumens per Lamp: N/A  
Luminaire Lumens: 9467.5 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Indirect

Input Watts (W): 165.2  
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: 24 FT



TEST NUMBER: P508351  
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### Luminous Intensity Polar Plot





TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20								20				20				20				
RC	80								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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

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

	0°	90°	180°
95°	655	7805	9102
100°	26444	15999	4897
105°	81039	25406	3065
110°	92983	43591	2156
115°	84773	50970	1877
120°	72560	49318	1815
125°	60979	47340	1879
130°	55030	44359	2028
135°	48742	41367	2165
140°	45065	37813	2442
145°	41245	35016	2769
150°	39078	32401	3862
155°	36716	30835	5879
160°	35049	30042	9290
165°	33569	29696	14613
170°	32407	29644	21471
175°	31126	29590	26403



TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**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°	0.0	0.0
90°-100°	184.1	1.9
100°-110°	1153.9	12.2
110°-120°	1783.5	18.8
120°-130°	1721.3	18.2
130°-140°	1494.9	15.8
140°-150°	1232.2	13.0
150°-160°	970.9	10.3
160°-170°	673.6	7.1
170°-180°	253.2	2.7
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3121.5	33.0
90°-150°	7569.9	80.0
90°-180°	9468.0	100.0
0°-180°	9467.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	5	47	63	58	74	89
105°	1949	3128	611	79	74	1912
115°	3328	3797	2001	100	74	3237
125°	3249	3702	2523	132	100	2971
135°	3202	3397	2718	184	142	2490
145°	3139	3176	2665	374	211	1990
155°	3091	3049	2596	916	495	1424
165°	3012	2928	2665	1812	1311	856
175°	2881	2828	2738	2560	2444	276
180°	2749	2749	2749	2749	2749	



TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	34°	35°	40°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	5.3	5.3	15.8	10.5	10.5	15.8	21.1	26.3	10.5
95°	5.3	5.3	10.5	136.9	410.8	452.9	431.8	416.0	363.4	316.0	79.0
97.5°	110.6	131.7	210.7	563.5	1142.8	1316.6	1400.9	1148.1	942.7	874.2	468.7
100°	426.6	495.0	684.6	1295.5	1932.8	1974.9	1959.1	1906.4	1753.7	1653.7	1269.2
102.5°	1137.5	1184.9	1448.3	1990.7	2338.3	2412.0	2412.0	2364.6	2348.8	2317.2	2196.1
105°	1948.6	2001.2	2211.9	2491.0	2701.7	2780.7	2822.8	2928.1	3033.5	3049.3	3165.1
107.5°	2491.0	2543.7	2706.9	2917.6	3191.4	3291.5	3412.6	3581.2	3712.8	3697.0	3670.7
110°	2954.5	3012.4	3165.1	3375.8	3575.9	3697.0	3812.9	3886.6	3960.3	3886.6	3849.8
112.5°	3238.8	3265.2	3391.6	3565.4	3697.0	3786.6	3865.6	3960.3	4039.3	3960.3	3897.1
115°	3328.4	3344.2	3454.8	3575.9	3718.1	3802.4	3860.3	3960.3	3991.9	3976.1	3923.5
117.5°	3323.1	3391.6	3486.4	3570.6	3707.6	3776.0	3834.0	3912.9	4007.7	3965.6	3912.9
120°	3370.5	3375.8	3475.8	3575.9	3676.0	3733.9	3733.9	3849.8	3891.9	3881.4	3870.8
122.5°	3354.7	3370.5	3454.8	3518.0	3623.3	3670.7	3718.1	3776.0	3823.4	3807.6	3807.6
125°	3249.4	3349.4	3396.8	3470.6	3570.6	3602.2	3649.6	3697.0	3739.2	3723.4	3718.1
127.5°	3312.6	3317.8	3360.0	3439.0	3502.2	3523.2	3575.9	3618.0	3660.2	3654.9	3665.4
130°	3286.2	3270.4	3370.5	3402.1	3449.5	3486.4	3512.7	3549.6	3581.2	3581.2	3591.7
132.5°	3265.2	3265.2	3296.8	3360.0	3402.1	3428.4	3470.6	3481.1	3518.0	3528.5	3507.4
135°	3202.0	3244.1	3291.5	3312.6	3360.0	3381.0	3402.1	3423.2	3454.8	3465.3	3428.4
137.5°	3138.8	3202.0	3265.2	3296.8	3333.6	3333.6	3333.6	3365.2	3381.0	3396.8	3360.0
140°	3207.2	3202.0	3259.9	3254.6	3275.7	3270.4	3307.3	3312.6	3333.6	3323.1	3302.0
142.5°	3191.4	3191.4	3207.2	3228.3	3223.0	3233.6	3259.9	3286.2	3286.2	3296.8	3259.9
145°	3138.8	3154.6	3180.9	3202.0	3202.0	3196.7	3228.3	3233.6	3244.1	3238.8	3217.8
147.5°	3159.9	3159.9	3159.9	3186.2	3186.2	3186.2	3191.4	3196.7	3196.7	3202.0	3186.2
150°	3144.1	3149.3	3159.9	3149.3	3175.7	3133.5	3159.9	3159.9	3159.9	3165.1	3154.6
152.5°	3038.7	3112.5	3138.8	3133.5	3112.5	3123.0	3128.3	3149.3	3138.8	3149.3	3117.7
155°	3091.4	3086.1	3091.4	3096.7	3080.9	3091.4	3096.7	3096.7	3091.4	3096.7	3070.3
157.5°	3075.6	3070.3	3096.7	3065.1	3080.9	3091.4	3070.3	3086.1	3070.3	3091.4	3080.9
160°	3059.8	3049.3	3070.3	3049.3	3070.3	3044.0	3028.2	3054.5	3038.7	3075.6	3022.9
162.5°	3038.7	3033.5	3054.5	3028.2	3007.1	2996.6	3012.4	3017.7	3007.1	3017.7	2991.3
165°	3012.4	3012.4	3012.4	2986.1	3001.9	3001.9	2980.8	2986.1	2917.6	2991.3	2959.7
167.5°	2991.3	3012.4	2986.1	2959.7	2991.3	2991.3	2954.5	2959.7	2912.3	2949.2	2933.4
170°	2965.0	2943.9	2949.2	2949.2	2975.5	2928.1	2901.8	2949.2	2922.9	2949.2	2922.9
172.5°	2901.8	2922.9	2922.9	2912.3	2896.5	2896.5	2891.3	2901.8	2886.0	2891.3	2875.5
175°	2880.7	2880.7	2891.3	2907.1	2875.5	2870.2	2838.6	2864.9	2849.1	2859.7	2843.9
177.5°	2801.7	2843.9	2838.6	2801.7	2822.8	2791.2	2807.0	2817.5	2785.9	2812.3	2785.9
180°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1



TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	10.5	10.5	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
95°	47.4	63.2	152.7	126.4	94.8	89.5	100.1	89.5	79.0	68.5	63.2
97.5°	379.2	426.6	447.6	395.0	389.7	358.1	321.3	242.3	221.2	194.9	152.7
100°	1037.5	921.6	863.7	768.9	621.4	563.5	516.1	426.6	347.6	305.5	258.1
102.5°	1985.4	1769.5	1490.4	1195.5	974.3	890.0	795.2	663.6	558.2	463.4	384.4
105°	3128.3	2717.5	2175.0	1780.0	1485.1	1300.8	1216.5	1005.9	832.1	726.8	610.9
107.5°	3507.4	3244.1	2907.1	2496.3	2148.7	1980.2	1795.8	1516.7	1295.5	1100.7	926.9
110°	3665.4	3439.0	3186.2	2943.9	2706.9	2554.2	2427.8	2143.4	1869.6	1627.3	1385.1
112.5°	3744.4	3518.0	3296.8	3101.9	2917.6	2833.3	2743.8	2517.3	2306.7	2075.0	1785.3
115°	3797.1	3618.0	3423.2	3217.8	3075.6	2986.1	2907.1	2701.7	2506.8	2296.2	2001.2
117.5°	3823.4	3644.4	3502.2	3333.6	3186.2	3112.5	3028.2	2843.9	2649.0	2454.2	2159.2
120°	3791.8	3670.7	3554.8	3412.6	3270.4	3196.7	3128.3	2943.9	2764.9	2580.5	2290.9
122.5°	3749.7	3681.2	3591.7	3449.5	3344.2	3281.0	3223.0	3038.7	2880.7	2670.1	2406.8
125°	3702.3	3633.8	3539.0	3449.5	3365.2	3317.8	3275.7	3112.5	2949.2	2770.1	2522.6
127.5°	3628.6	3565.4	3491.6	3417.9	3354.7	3307.3	3291.5	3149.3	2996.6	2838.6	2585.8
130°	3549.6	3496.9	3433.7	3360.0	3317.8	3265.2	3270.4	3144.1	3022.9	2875.5	2649.0
132.5°	3444.2	3407.4	3391.6	3312.6	3270.4	3244.1	3207.2	3123.0	3022.9	2907.1	2691.1
135°	3396.8	3360.0	3333.6	3265.2	3202.0	3191.4	3138.8	3091.4	3007.1	2922.9	2717.5
137.5°	3312.6	3291.5	3275.7	3202.0	3138.8	3138.8	3123.0	3059.8	2986.1	2870.2	2696.4
140°	3275.7	3249.4	3207.2	3149.3	3112.5	3080.9	3065.1	3012.4	2922.9	2833.3	2691.1
142.5°	3212.5	3191.4	3180.9	3128.3	3070.3	3038.7	3007.1	2949.2	2886.0	2822.8	2670.1
145°	3175.7	3170.4	3159.9	3107.2	3017.7	3001.9	2991.3	2928.1	2870.2	2770.1	2664.8
147.5°	3128.3	3133.5	3123.0	3059.8	3001.9	2965.0	2938.7	2880.7	2838.6	2754.3	2622.7
150°	3096.7	3101.9	3091.4	3012.4	2949.2	2933.4	2922.9	2864.9	2785.9	2717.5	2606.9
152.5°	3080.9	3065.1	3038.7	3007.1	2938.7	2901.8	2891.3	2828.1	2785.9	2701.7	2596.3
155°	3049.3	3028.2	3012.4	2959.7	2917.6	2880.7	2854.4	2817.5	2770.1	2685.9	2596.3
157.5°	3017.7	2996.6	2986.1	2975.5	2917.6	2864.9	2859.7	2817.5	2743.8	2680.6	2606.9
160°	2986.1	2933.4	2975.5	2912.3	2896.5	2854.4	2822.8	2796.5	2743.8	2685.9	2622.7
162.5°	2954.5	2938.7	2933.4	2896.5	2864.9	2838.6	2791.2	2807.0	2743.8	2691.1	2643.7
165°	2928.1	2912.3	2907.1	2896.5	2849.1	2828.1	2817.5	2785.9	2759.6	2706.9	2664.8
167.5°	2901.8	2875.5	2886.0	2875.5	2817.5	2833.3	2807.0	2785.9	2770.1	2728.0	2685.9
170°	2896.5	2843.9	2870.2	2864.9	2822.8	2817.5	2785.9	2780.7	2764.9	2733.3	2712.2
172.5°	2870.2	2833.3	2849.1	2833.3	2812.3	2796.5	2796.5	2801.7	2775.4	2754.3	2728.0
175°	2828.1	2807.0	2812.3	2828.1	2796.5	2785.9	2759.6	2780.7	2785.9	2749.1	2738.5
177.5°	2780.7	2801.7	2785.9	2807.0	2780.7	2775.4	2759.6	2775.4	2775.4	2743.8	2743.8
180°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1



TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

	95°	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	21.1	21.1	26.3	31.6	31.6	36.9	36.9	42.1	47.4	52.7
95°	31.6	26.3	31.6	36.9	36.9	42.1	47.4	47.4	52.7	57.9	57.9
97.5°	63.2	42.1	42.1	42.1	47.4	47.4	52.7	57.9	63.2	63.2	63.2
100°	121.1	68.5	68.5	52.7	52.7	57.9	57.9	63.2	68.5	68.5	68.5
102.5°	210.7	126.4	100.1	68.5	63.2	63.2	68.5	68.5	73.7	73.7	73.7
105°	395.0	252.8	142.2	84.3	79.0	73.7	73.7	73.7	79.0	79.0	79.0
107.5°	695.2	405.5	200.1	110.6	94.8	84.3	84.3	84.3	84.3	84.3	84.3
110°	1058.6	595.1	273.9	142.2	115.9	100.1	94.8	94.8	89.5	89.5	89.5
112.5°	1390.3	779.4	347.6	173.8	136.9	115.9	105.3	100.1	100.1	94.8	89.5
115°	1601.0	916.4	421.3	200.1	158.0	131.7	110.6	110.6	105.3	100.1	94.8
117.5°	1753.7	1058.6	510.8	242.3	184.3	152.7	121.1	115.9	110.6	110.6	105.3
120°	1901.2	1206.0	605.6	289.7	221.2	173.8	136.9	126.4	121.1	115.9	110.6
122.5°	2043.4	1348.2	711.0	347.6	258.1	205.4	152.7	136.9	131.7	121.1	121.1
125°	2154.0	1495.7	832.1	421.3	310.7	242.3	173.8	147.5	136.9	131.7	126.4
127.5°	2275.1	1643.1	958.5	500.3	368.6	289.7	200.1	163.3	152.7	142.2	136.9
130°	2364.6	1785.3	1095.4	605.6	452.9	347.6	237.0	184.3	163.3	152.7	147.5
132.5°	2433.1	1906.4	1232.3	721.5	553.0	421.3	284.4	221.2	184.3	168.5	158.0
135°	2454.2	2011.8	1374.5	847.9	658.3	516.1	347.6	263.3	210.7	184.3	173.8
137.5°	2475.2	2096.0	1511.5	990.1	795.2	632.0	421.3	316.0	252.8	215.9	189.6
140°	2464.7	2159.2	1643.1	1148.1	937.4	758.4	521.4	384.4	305.5	258.1	221.2
142.5°	2459.4	2211.9	1780.0	1295.5	1084.9	905.8	642.5	474.0	373.9	305.5	263.3
145°	2470.0	2248.8	1880.1	1453.5	1258.7	1074.3	790.0	579.3	458.2	373.9	326.5
147.5°	2433.1	2269.8	2001.2	1590.5	1411.4	1232.3	948.0	721.5	574.0	468.7	400.2
150°	2464.7	2280.4	2053.9	1727.4	1558.9	1395.6	1121.7	884.8	716.2	589.8	505.6
152.5°	2459.4	2290.9	2111.8	1848.5	1706.3	1553.6	1279.7	1048.0	869.0	737.3	637.2
155°	2485.7	2296.2	2169.8	1969.6	1843.2	1706.3	1458.8	1237.6	1048.0	916.4	800.5
157.5°	2506.8	2364.6	2238.2	2080.2	1969.6	1853.8	1643.1	1437.7	1258.7	1121.7	979.6
160°	2538.4	2401.5	2290.9	2169.8	2096.0	1974.9	1822.2	1658.9	1485.1	1337.7	1221.8
162.5°	2554.2	2459.4	2364.6	2243.5	2196.1	2111.8	1985.4	1864.3	1716.9	1579.9	1469.3
165°	2585.8	2491.0	2427.8	2327.8	2280.4	2206.6	2127.6	2017.0	1927.5	1811.6	1727.4
167.5°	2617.4	2554.2	2501.5	2422.6	2380.4	2327.8	2259.3	2185.6	2138.2	2048.6	1964.4
170°	2649.0	2596.3	2570.0	2533.1	2470.0	2427.8	2396.2	2343.6	2280.4	2238.2	2190.8
172.5°	2675.3	2654.3	2638.5	2627.9	2564.7	2533.1	2512.1	2454.2	2454.2	2396.2	2359.4
175°	2717.5	2649.0	2696.4	2670.1	2649.0	2622.7	2612.1	2596.3	2580.5	2559.5	2538.4
177.5°	2738.5	2728.0	2738.5	2728.0	2722.7	2696.4	2712.2	2696.4	2691.1	2685.9	2670.1
180°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1





TEST NUMBER: P508351

CATALOG NUMBER: ASYX-X-L3-X-U-HSS-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

	145°	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	57.9	57.9	63.2	63.2	63.2	63.2	68.5	63.2	57.9
95°	63.2	68.5	68.5	68.5	73.7	73.7	73.7	73.7	73.7
97.5°	68.5	68.5	73.7	73.7	73.7	79.0	79.0	79.0	79.0
100°	73.7	73.7	73.7	79.0	79.0	79.0	79.0	79.0	79.0
102.5°	73.7	73.7	73.7	79.0	79.0	79.0	79.0	79.0	79.0
105°	79.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
107.5°	79.0	79.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7
110°	84.3	79.0	73.7	73.7	73.7	73.7	73.7	73.7	68.5
112.5°	89.5	84.3	79.0	73.7	73.7	73.7	73.7	68.5	68.5
115°	94.8	89.5	84.3	84.3	79.0	79.0	79.0	73.7	73.7
117.5°	100.1	94.8	89.5	89.5	84.3	84.3	79.0	79.0	79.0
120°	105.3	105.3	100.1	94.8	94.8	89.5	89.5	84.3	84.3
122.5°	115.9	105.3	105.3	105.3	105.3	100.1	94.8	94.8	94.8
125°	121.1	115.9	115.9	115.9	110.6	110.6	105.3	100.1	100.1
127.5°	131.7	126.4	126.4	121.1	121.1	115.9	115.9	110.6	110.6
130°	142.2	136.9	131.7	131.7	131.7	126.4	126.4	121.1	121.1
132.5°	152.7	147.5	147.5	142.2	142.2	136.9	136.9	131.7	131.7
135°	168.5	158.0	158.0	158.0	152.7	147.5	147.5	147.5	142.2
137.5°	179.1	173.8	168.5	163.3	163.3	163.3	158.0	158.0	158.0
140°	205.4	189.6	184.3	179.1	179.1	173.8	173.8	173.8	173.8
142.5°	237.0	221.2	205.4	200.1	194.9	189.6	189.6	184.3	184.3
145°	289.7	263.3	242.3	237.0	226.5	215.9	215.9	210.7	210.7
147.5°	352.9	321.3	294.9	284.4	279.1	268.6	258.1	252.8	247.5
150°	442.4	395.0	368.6	358.1	347.6	326.5	316.0	310.7	310.7
152.5°	558.2	505.6	463.4	442.4	431.8	410.8	395.0	389.7	395.0
155°	700.4	637.2	595.1	568.8	547.7	521.4	510.8	505.6	495.0
157.5°	900.6	816.3	753.1	732.0	705.7	679.4	663.6	647.8	637.2
160°	1116.5	1021.7	963.8	937.4	905.8	863.7	842.6	821.6	811.0
162.5°	1353.5	1274.5	1206.0	1163.9	1148.1	1095.4	1074.3	1048.0	1053.3
165°	1616.8	1532.5	1479.9	1448.3	1406.1	1379.8	1364.0	1327.1	1311.3
167.5°	1895.9	1801.1	1774.8	1732.7	1695.8	1658.9	1658.9	1643.1	1627.3
170°	2106.6	2085.5	2053.9	2006.5	2001.2	1974.9	1974.9	1959.1	1964.4
172.5°	2306.7	2275.1	2275.1	2259.3	2243.5	2233.0	2206.6	2217.2	2217.2
175°	2506.8	2491.0	2480.5	2438.4	2448.9	2448.9	2433.1	2433.1	2443.6
177.5°	2670.1	2670.1	2659.5	2654.3	2649.0	2654.3	2659.5	2664.8	2654.3
180°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1

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