

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: STREETWORKS

Report Number: P380864

Luminaire Tested: **USSL-XL-PA3A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3A-730-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22511 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 172
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: 28.75 FT

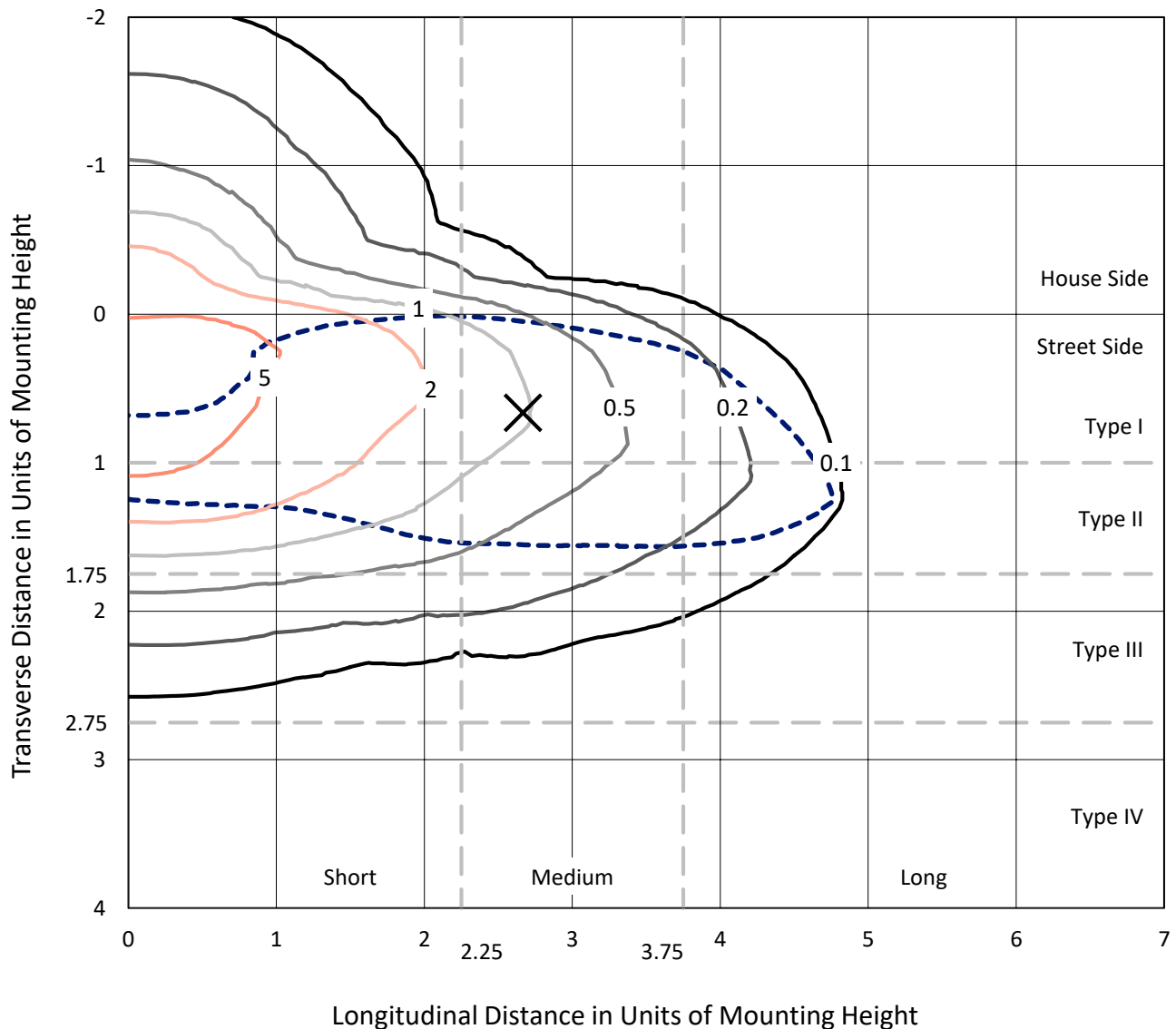


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

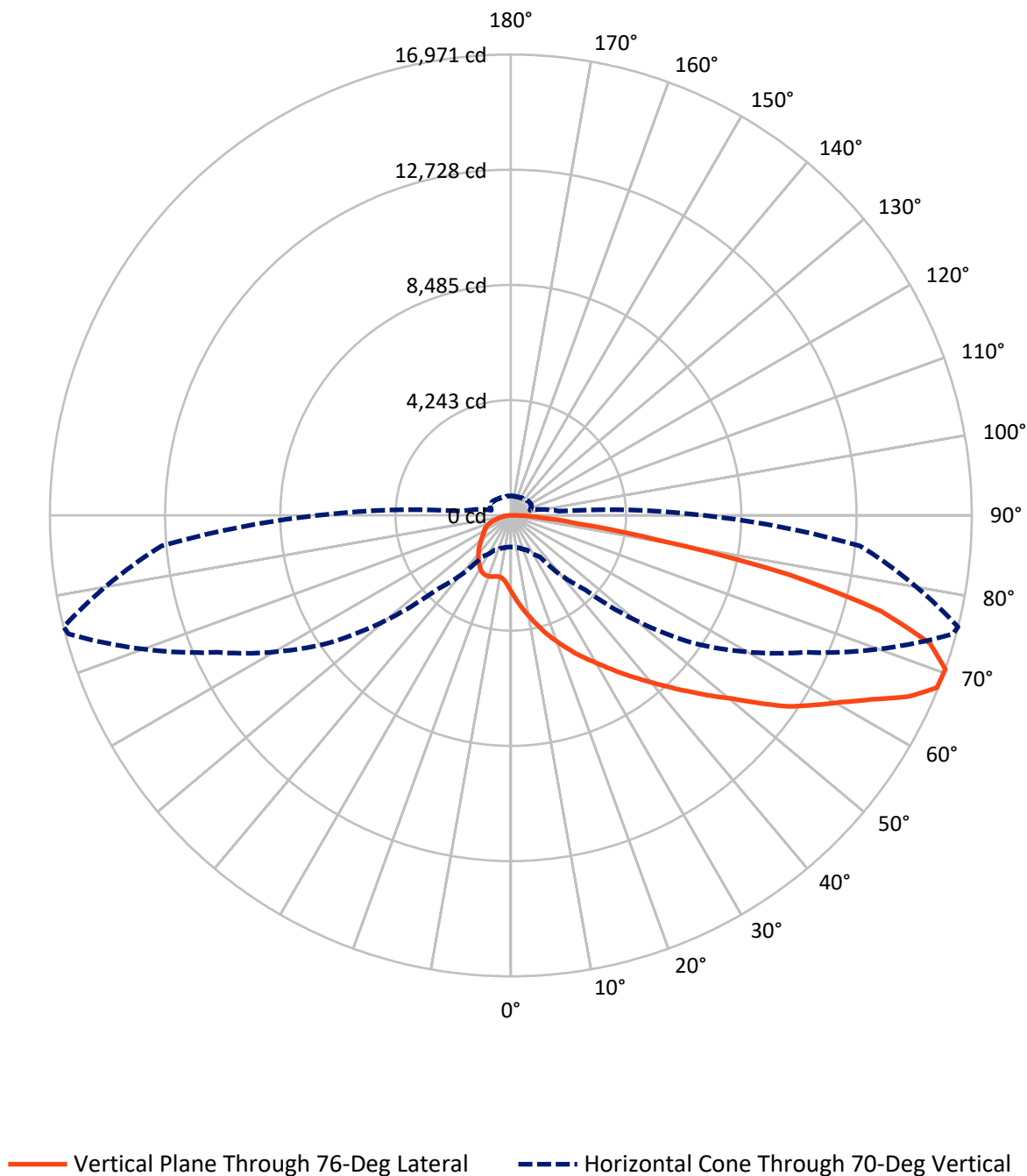


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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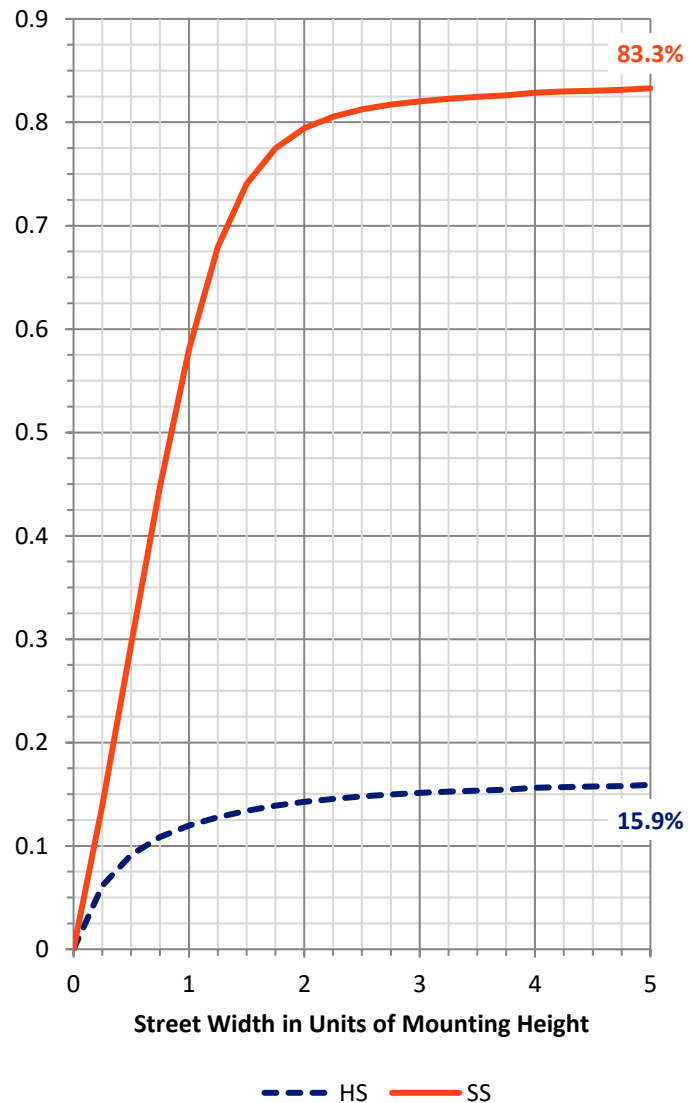
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3675.1	0.0	3675.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18835.9	0.0	18835.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	22511.0	0.0	22511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	1.3
10°-20°	994.1	4.4
20°-30°	1778.6	7.9
30°-40°	2877.1	12.8
40°-50°	4162.2	18.5
50°-60°	4763.9	21.2
60°-70°	4382.3	19.5
70°-80°	2709.9	12.0
80°-90°	550.3	2.4
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°-90°	22511.0	100.0
0°-180°	22511.0	100.0

Coefficient of Utilization



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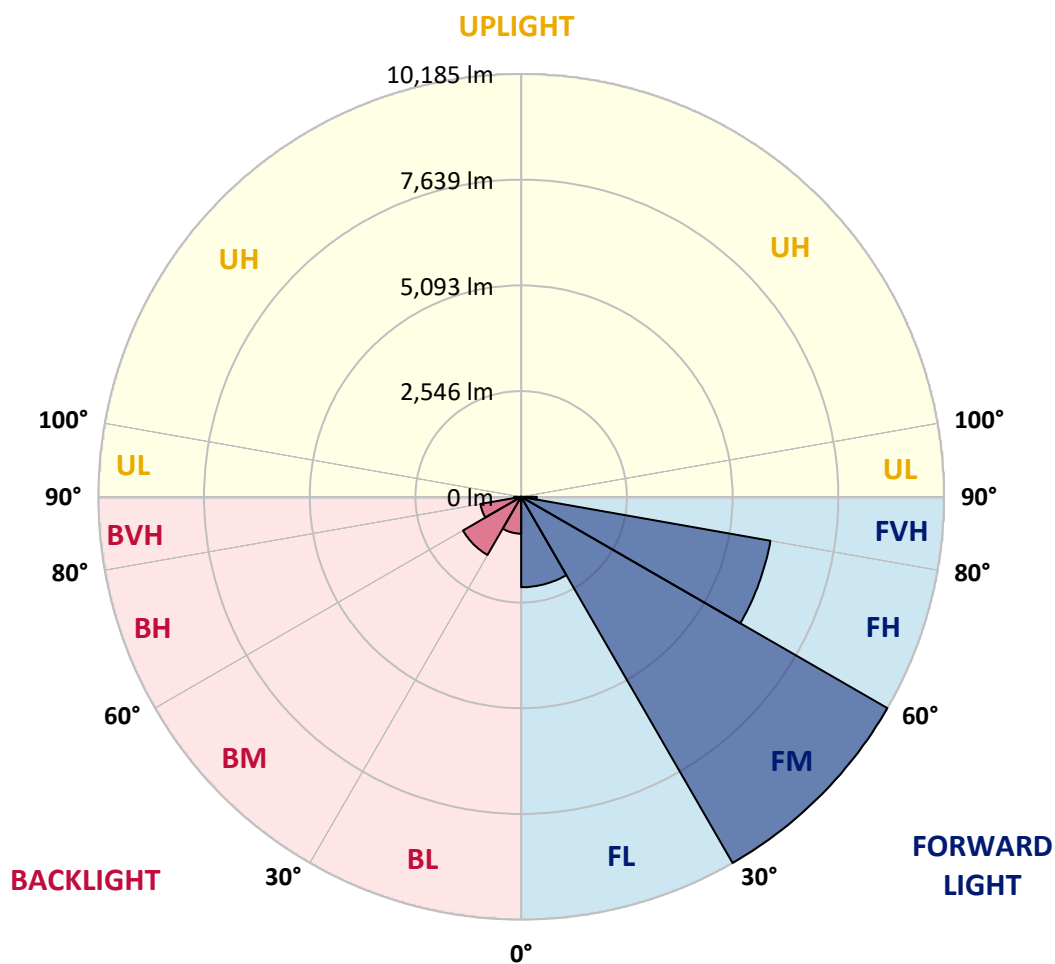
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2177.6	9.7			
FM	(30°-60°)	10185.2	45.2			
FH	(60°-80°)	6095.4	27.1			G3/7500
FVH	(80°-90°)	377.8	1.7			G3/500
BL	(0°-30°)	887.7	3.9	B2/1000		
BM	(30°-60°)	1618.1	7.2	B2/2500		
BH	(60°-80°)	996.8	4.4	B2/1000		G2/1000
BVH	(80°-90°)	172.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1
2.5°	3587.7	3561.1	3558.1	3516.7	3478.2	3374.6	3300.6	3170.3	3040.1	3037.1	2906.9
5°	4147.2	4120.5	4105.7	4055.4	3990.3	3854.1	3720.9	3519.6	3297.6	3282.8	3037.1
7.5°	4526.1	4502.4	4472.8	4452.1	4389.9	4268.5	4105.7	3865.9	3561.1	3531.5	3188.1
10°	4780.6	4765.8	4759.9	4745.1	4706.6	4608.9	4452.1	4197.5	3824.5	3791.9	3347.9
12.5°	4890.2	4884.2	4910.9	4952.3	4967.1	4928.6	4777.7	4537.9	4114.6	4079.1	3540.3
15°	4762.9	4768.8	4836.9	4979.0	5129.9	5212.8	5124.0	4890.2	4443.2	4392.9	3765.3
17.5°	4703.7	4712.5	4759.9	4896.1	5109.2	5366.7	5408.2	5224.7	4759.9	4688.9	4002.1
20°	4807.3	4819.1	4854.6	4961.2	5109.2	5384.5	5600.6	5544.3	5070.7	4996.7	4230.0
22.5°	5070.7	5085.5	5082.6	5150.7	5251.3	5440.7	5707.2	5846.3	5396.3	5313.5	4466.9
25°	5633.2	5621.3	5520.7	5488.1	5514.7	5636.1	5849.2	6136.4	5736.8	5653.9	4715.5
27.5°	6396.9	6382.1	6198.5	6032.8	5884.8	5938.0	6050.5	6370.2	6083.1	5988.4	4952.3
30°	7213.9	7196.1	6983.0	6713.6	6385.0	6308.1	6293.3	6574.5	6432.4	6331.7	5203.9
32.5°	8010.1	7995.3	7767.4	7453.6	7000.7	6769.8	6627.8	6802.4	6829.1	6731.4	5479.2
35°	8735.4	8735.4	8540.0	8167.0	7654.9	7305.6	7071.8	7083.6	7284.9	7172.4	5793.0
37.5°	9380.7	9377.7	9164.6	8797.5	8306.2	7906.5	7616.5	7424.0	7720.1	7622.4	6121.6
40°	9892.8	9872.1	9715.2	9395.5	8901.2	8504.5	8211.4	7823.7	8205.5	8116.7	6470.9
42.5°	10265.8	10253.9	10147.4	9869.1	9398.5	9025.5	8824.2	8326.9	8756.1	8667.3	6879.4
45°	10410.8	10434.5	10434.5	10171.1	9798.1	9457.7	9368.9	8880.4	9351.1	9262.3	7317.5
47.5°	10177.0	10239.1	10366.4	10384.2	10055.6	9824.7	9854.3	9436.9	9963.8	9916.5	7797.0
50°	9445.8	9561.3	9839.5	10342.7	10159.2	10105.9	10268.7	10005.3	10621.0	10606.2	8380.2
52.5°	7560.2	7841.4	8708.7	9611.6	10088.2	10236.2	10680.2	10644.7	11467.6	11491.3	9140.9
55°	5798.9	5905.5	6909.0	8445.3	9653.0	10194.7	10955.5	11269.3	12385.2	12414.8	9839.5
57.5°	4688.9	4759.9	5307.5	6909.0	8661.4	9969.8	11171.6	11633.4	13089.8	13166.7	10461.1
60°	3715.0	3818.6	4185.6	5286.8	7273.1	9428.1	11322.6	12038.9	13847.6	13963.0	11204.1
62.5°	2761.8	2812.1	3158.5	3916.3	5757.5	8454.2	11242.6	12480.0	14777.0	14916.2	12098.1
65°	1965.5	2009.9	2255.6	2785.5	4256.7	7136.9	10777.9	12808.5	15943.3	16085.4	12998.0
67.5°	1471.2	1489.0	1628.1	1947.8	2868.4	5544.3	9836.6	12752.3	16795.9	16923.1	13359.1
70°	1163.3	1169.3	1237.3	1409.0	1864.9	3860.0	8187.8	11926.4	16858.0	16970.5	12903.3
72.5°	965.0	962.0	1000.5	1083.4	1299.5	2442.1	6065.3	10393.1	16058.8	16135.7	11630.4
75°	796.3	802.2	828.8	876.2	991.6	1610.3	3931.1	8291.4	14167.2	14084.4	9759.6
77.5°	669.0	666.0	677.9	719.3	802.2	1157.4	2303.0	5991.3	10499.6	10458.2	6405.8
80°	538.7	544.7	562.4	597.9	674.9	882.1	1361.7	3738.7	5633.2	5482.2	3060.8
82.5°	361.1	417.4	452.9	494.3	583.1	651.2	864.4	1900.4	2519.1	2480.6	1388.3
85°	171.7	227.9	337.5	384.8	473.6	408.5	586.1	905.8	1261.0	1246.2	500.3
87.5°	35.5	35.5	180.6	216.1	293.1	174.6	325.6	393.7	609.8	571.3	204.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1
2.5°	2829.9	2750.0	2590.1	2462.8	2332.6	2258.6	2166.8	2122.4	2113.5	2089.9	2107.6
5°	2880.2	2723.3	2421.4	2223.1	2089.9	2024.7	1992.2	1980.3	1977.4	1971.5	1971.5
7.5°	2948.3	2708.5	2314.8	2113.5	2027.7	2007.0	2015.9	2033.6	2036.6	2042.5	2039.5
10°	3031.2	2711.5	2255.6	2086.9	2045.5	2048.4	2078.0	2101.7	2113.5	2122.4	2119.5
12.5°	3146.6	2747.0	2246.7	2104.7	2086.9	2098.7	2128.3	2152.0	2163.9	2166.8	2166.8
15°	3297.6	2821.0	2267.5	2143.1	2128.3	2137.2	2155.0	2163.9	2166.8	2163.9	2163.9
17.5°	3463.4	2909.8	2297.1	2166.8	2143.1	2134.3	2128.3	2119.5	2101.7	2089.9	2089.9
20°	3623.2	2989.7	2311.9	2163.9	2122.4	2086.9	2051.4	2007.0	1977.4	1953.7	1953.7
22.5°	3783.1	3063.7	2311.9	2131.3	2066.2	1998.1	1924.1	1853.1	1808.6	1779.0	1779.0
25°	3951.8	3134.8	2294.1	2075.1	1977.4	1879.7	1779.0	1690.2	1645.8	1616.2	1610.3
27.5°	4093.9	3176.2	2246.7	1995.1	1867.9	1743.5	1628.1	1536.3	1503.8	1477.1	1477.1
30°	4244.8	3202.9	2157.9	1891.5	1743.5	1601.4	1483.0	1409.0	1373.5	1335.0	1332.1
32.5°	4413.6	3220.6	2057.3	1782.0	1616.2	1465.3	1364.6	1305.4	1228.5	1187.0	1181.1
35°	4608.9	3244.3	1950.7	1657.7	1489.0	1352.8	1293.6	1195.9	1121.9	1086.4	1083.4
37.5°	4816.2	3262.1	1835.3	1548.2	1373.5	1278.8	1219.6	1104.1	1039.0	985.7	979.8
40°	5035.2	3262.1	1716.9	1441.6	1281.7	1246.2	1133.7	1030.1	920.6	894.0	888.0
42.5°	5277.9	3256.2	1598.5	1338.0	1195.9	1172.2	1083.4	973.9	917.6	894.0	888.0
45°	5535.5	3235.4	1486.0	1219.6	1107.1	1059.7	991.6	962.0	938.4	938.4	938.4
47.5°	5828.5	3217.7	1358.7	1113.0	1042.0	988.7	938.4	920.6	917.6	926.5	935.4
50°	6204.5	3211.8	1252.1	1036.1	991.6	929.5	923.6	908.8	911.7	911.7	911.7
52.5°	6660.3	3158.5	1151.5	979.8	941.3	867.3	885.1	899.9	905.8	902.8	899.9
55°	6994.8	3063.7	1065.7	941.3	905.8	843.6	867.3	891.0	896.9	888.0	888.0
57.5°	7296.8	2930.5	997.6	911.7	882.1	828.8	855.5	879.2	873.2	870.3	867.3
60°	7643.1	2803.3	944.3	896.9	858.4	822.9	846.6	861.4	852.5	846.6	843.6
62.5°	8019.0	2678.9	905.8	896.9	840.7	820.0	837.7	843.6	825.9	820.0	820.0
65°	8193.7	2483.6	864.4	896.9	831.8	814.0	820.0	814.0	796.3	796.3	793.3
67.5°	7906.5	2160.9	811.1	885.1	843.6	805.2	793.3	784.4	763.7	763.7	757.8
70°	7113.2	1776.1	734.1	846.6	846.6	802.2	757.8	737.1	713.4	722.3	710.4
72.5°	6077.2	1409.0	639.4	781.5	828.8	799.2	719.3	686.8	666.0	674.9	657.2
75°	4922.7	1092.3	526.9	677.9	784.4	784.4	680.8	636.4	612.7	612.7	592.0
77.5°	3137.8	808.1	429.2	562.4	704.5	763.7	648.3	580.2	544.7	535.8	521.0
80°	1554.1	568.3	352.3	447.0	600.9	716.4	624.6	515.1	464.7	447.0	420.3
82.5°	825.9	393.7	281.2	349.3	479.5	645.3	595.0	444.0	381.9	355.2	325.6
85°	370.0	242.7	225.0	266.4	364.1	529.9	535.8	364.1	293.1	349.3	257.5
87.5°	136.2	109.5	109.5	136.2	210.2	222.0	378.9	233.9	186.5	127.3	100.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)