

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: P380870

Luminaire Tested: **USSL-PA2A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380870
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-PA2A-740-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15811 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 112
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

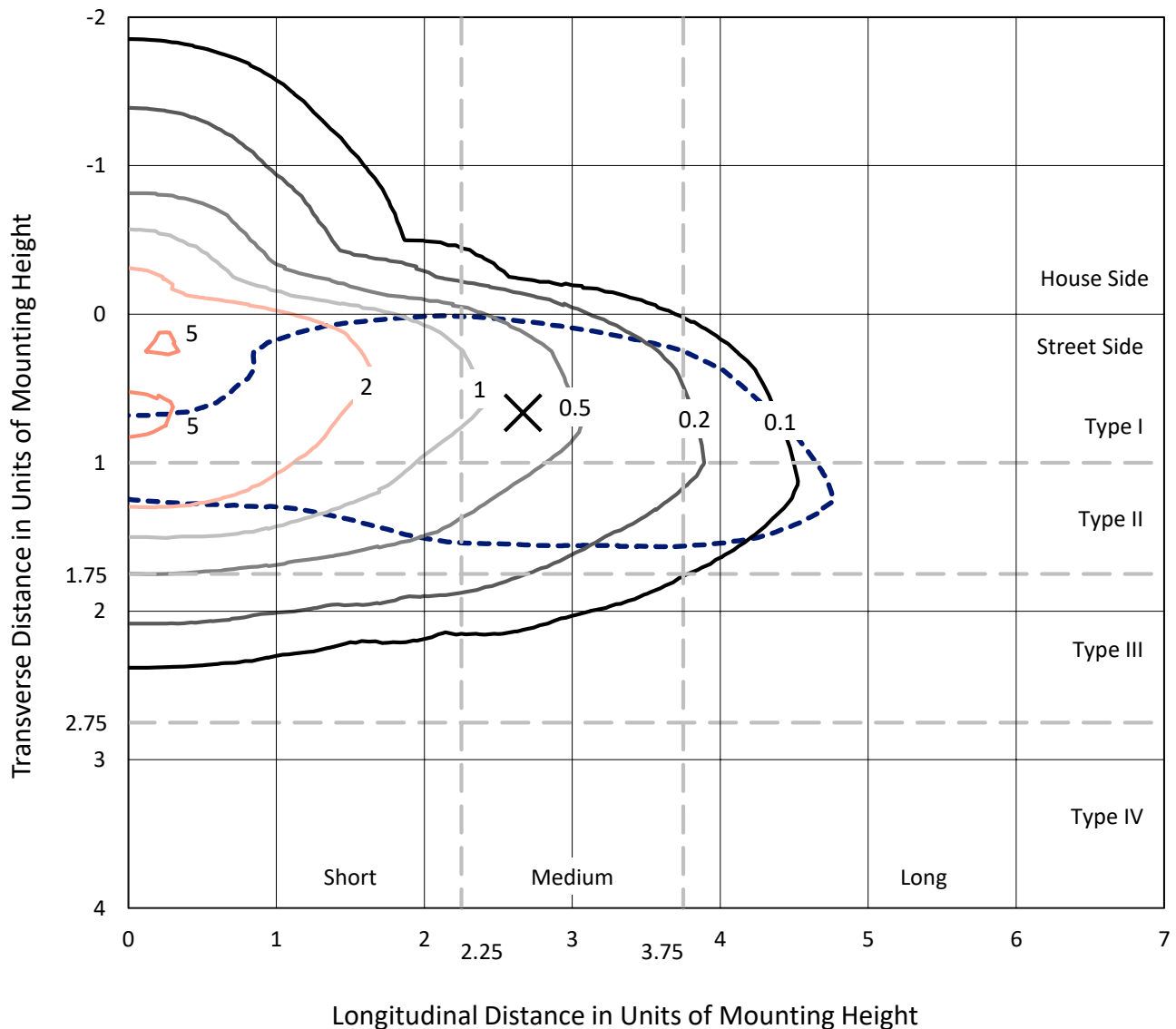


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

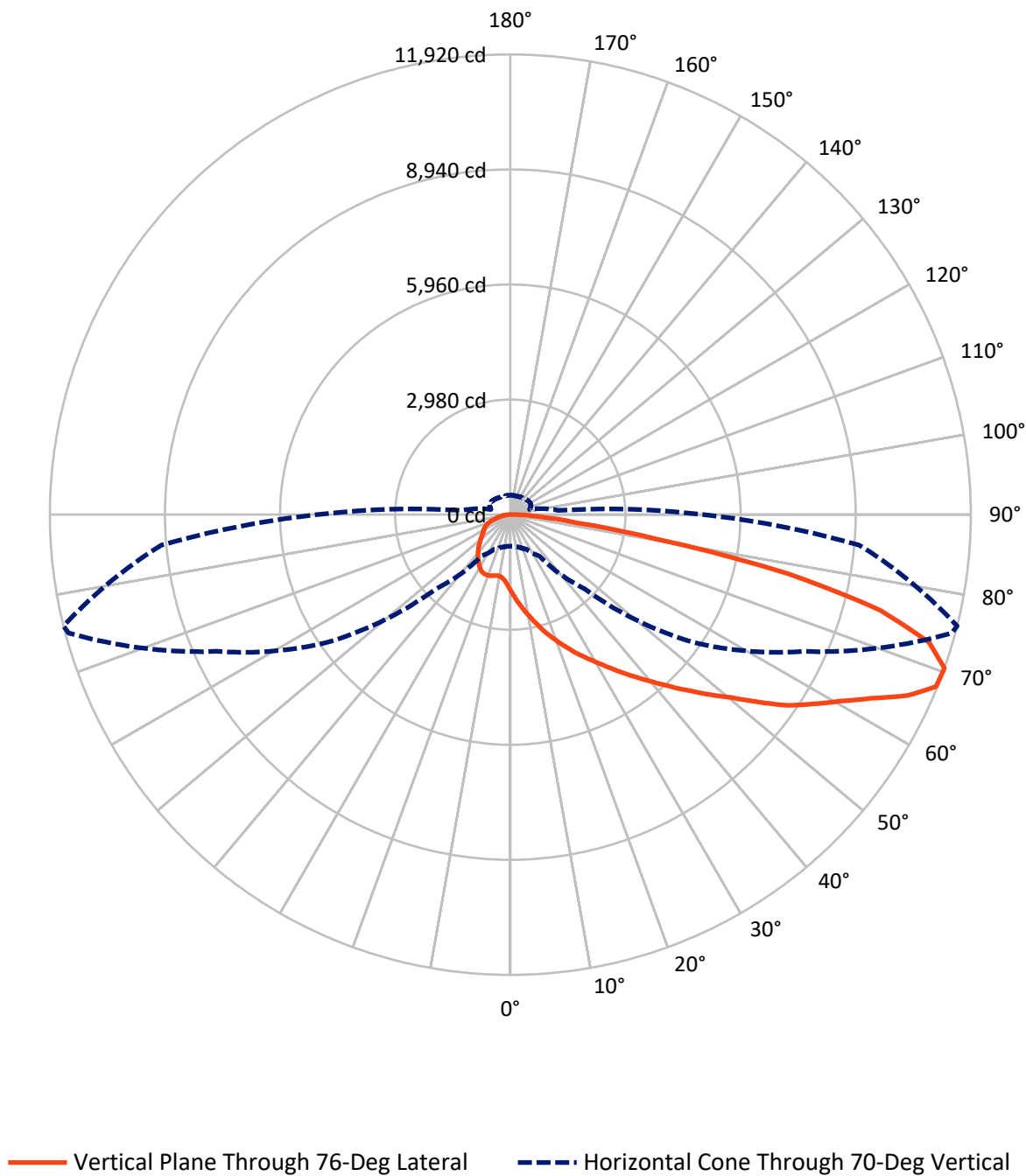


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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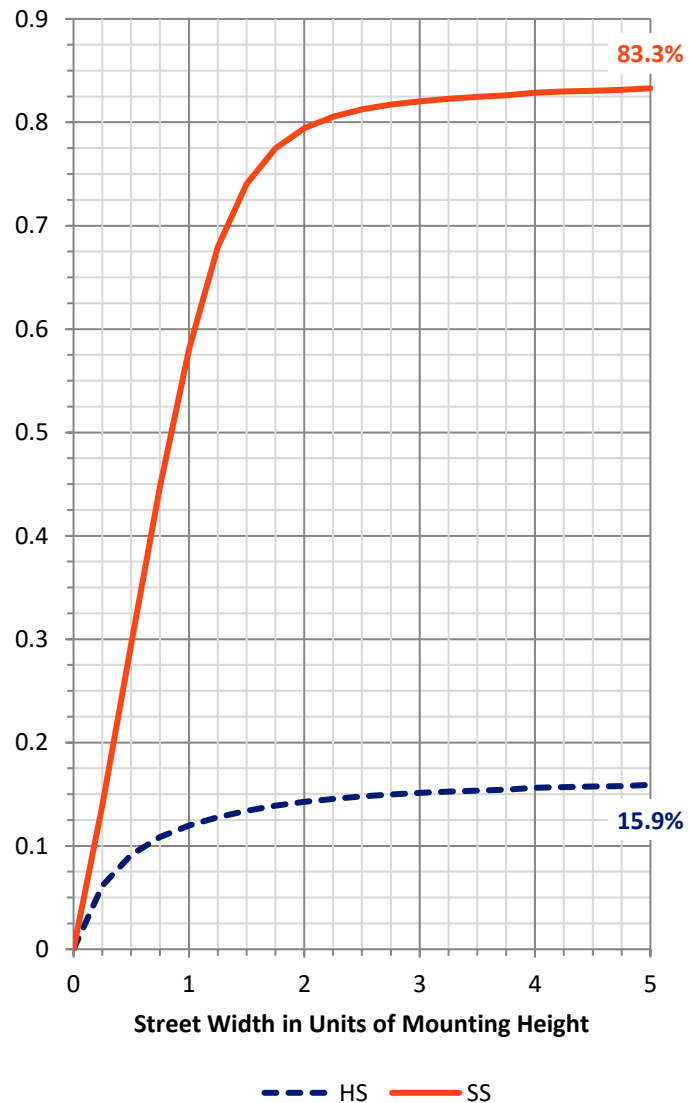
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2581.3	0.0	2581.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	13229.7	0.0	13229.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	15811.0	0.0	15811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.3
10°-20°	698.2	4.4
20°-30°	1249.2	7.9
30°-40°	2020.8	12.8
40°-50°	2923.4	18.5
50°-60°	3346.0	21.2
60°-70°	3078.0	19.5
70°-80°	1903.4	12.0
80°-90°	386.5	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°	15811.0	100.0
0°-180°	15811.0	100.0

Coefficient of Utilization



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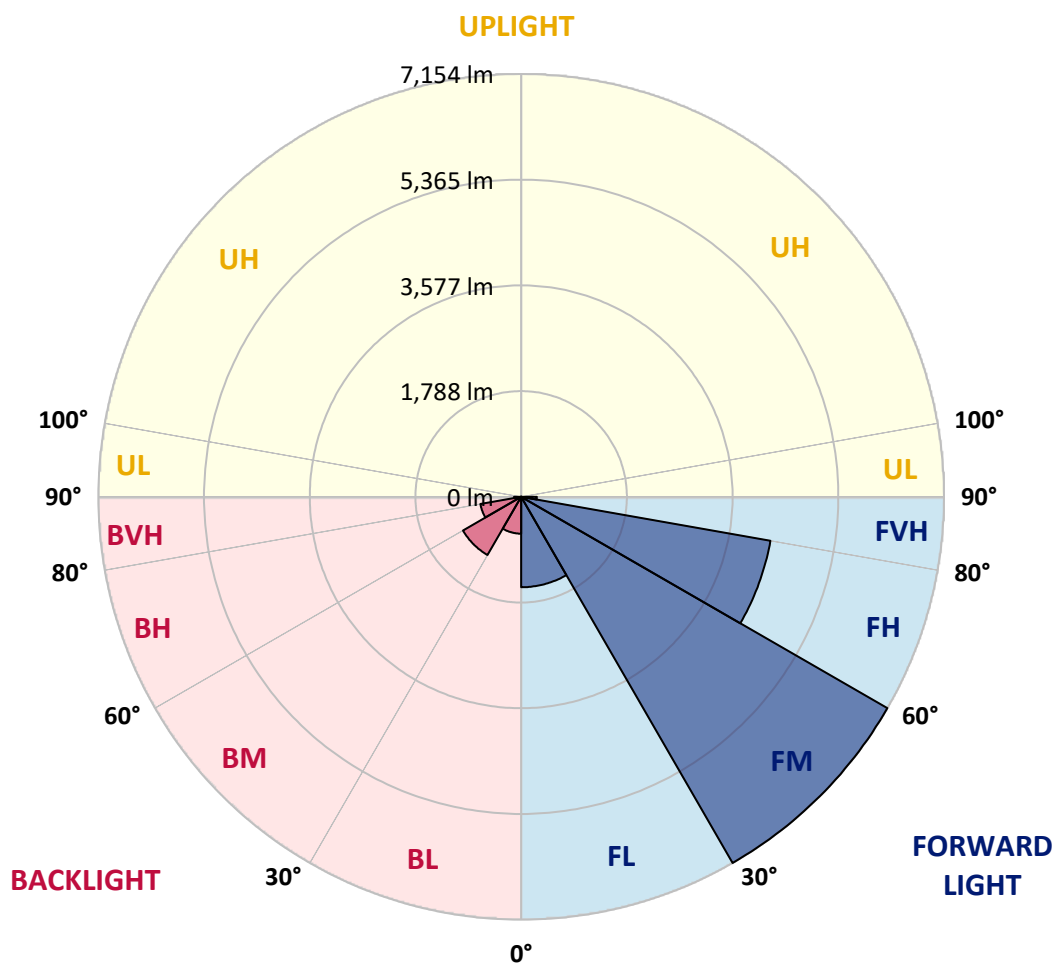
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.4	9.7			
FM	(30°-60°)	7153.7	45.2			
FH	(60°-80°)	4281.2	27.1			G2/5000
FVH	(80°-90°)	265.3	1.7			G3/500
BL	(0°-30°)	623.5	3.9	B2/1000		
BM	(30°-60°)	1136.5	7.2	B2/2500		
BH	(60°-80°)	700.1	4.4	B2/1000		G2/1000
BVH	(80°-90°)	121.2	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°	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2
2.5°	2519.9	2501.2	2499.1	2470.0	2443.0	2370.2	2318.2	2226.7	2135.2	2133.2	2041.7
5°	2912.8	2894.1	2883.7	2848.4	2802.6	2707.0	2613.4	2472.1	2316.1	2305.7	2133.2
7.5°	3179.0	3162.3	3141.5	3127.0	3083.3	2998.1	2883.7	2715.3	2501.2	2480.4	2239.2
10°	3357.8	3347.4	3343.2	3332.8	3305.8	3237.2	3127.0	2948.2	2686.2	2663.3	2351.5
12.5°	3434.7	3430.5	3449.2	3478.4	3488.7	3461.7	3355.7	3187.3	2890.0	2865.0	2486.6
15°	3345.3	3349.4	3397.3	3497.1	3603.1	3661.3	3598.9	3434.7	3120.7	3085.4	2644.6
17.5°	3303.7	3309.9	3343.2	3438.8	3588.5	3769.4	3798.5	3669.6	3343.2	3293.3	2811.0
20°	3376.5	3384.8	3409.7	3484.6	3588.5	3781.9	3933.7	3894.2	3561.5	3509.5	2971.0
22.5°	3561.5	3571.9	3569.8	3617.7	3688.3	3821.4	4008.5	4106.2	3790.2	3732.0	3137.4
25°	3956.5	3948.2	3877.5	3854.7	3873.4	3958.6	4108.3	4310.0	4029.3	3971.1	3312.0
27.5°	4493.0	4482.6	4353.7	4237.2	4133.3	4170.7	4249.7	4474.2	4272.6	4206.0	3478.4
30°	5066.8	5054.3	4904.6	4715.4	4484.6	4430.6	4420.2	4617.7	4517.9	4447.2	3655.1
32.5°	5626.1	5615.7	5455.6	5235.2	4917.1	4754.9	4655.1	4777.8	4796.5	4727.9	3848.4
35°	6135.5	6135.5	5998.2	5736.3	5376.6	5131.2	4967.0	4975.3	5116.7	5037.7	4068.8
37.5°	6588.7	6586.6	6436.9	6179.1	5834.0	5553.3	5349.5	5214.4	5422.3	5353.7	4299.6
40°	6948.4	6933.8	6823.6	6599.1	6251.9	5973.3	5767.4	5495.1	5763.3	5700.9	4544.9
42.5°	7210.4	7202.0	7127.2	6931.8	6601.2	6339.2	6197.8	5848.5	6150.0	6087.6	4831.9
45°	7312.2	7328.9	7328.9	7143.8	6881.9	6642.8	6580.4	6237.3	6567.9	6505.5	5139.6
47.5°	7148.0	7191.6	7281.0	7293.5	7062.7	6900.6	6921.4	6628.2	6998.3	6965.0	5476.4
50°	6634.4	6715.5	6911.0	7264.4	7135.5	7098.1	7212.4	7027.4	7459.8	7449.4	5886.0
52.5°	5310.0	5507.6	6116.7	6750.9	7085.6	7189.6	7501.4	7476.5	8054.5	8071.1	6420.3
55°	4073.0	4147.8	4852.6	5931.7	6780.0	7160.5	7694.8	7915.2	8699.0	8719.8	6911.0
57.5°	3293.3	3343.2	3727.8	4852.6	6083.5	7002.4	7846.6	8170.9	9193.8	9247.9	7347.6
60°	2609.3	2682.1	2939.9	3713.3	5108.4	6622.0	7952.6	8455.7	9726.1	9807.2	7869.4
62.5°	1939.8	1975.2	2218.4	2750.7	4043.9	5937.9	7896.5	8765.5	10378.9	10476.6	8497.3
65°	1380.5	1411.7	1584.3	1956.4	2989.8	5012.7	7570.0	8996.3	11198.1	11297.9	9129.4
67.5°	1033.3	1045.8	1143.5	1368.1	2014.7	3894.2	6908.9	8956.8	11796.9	11886.3	9383.0
70°	817.1	821.2	869.1	989.7	1309.8	2711.2	5750.8	8376.7	11840.5	11919.5	9062.8
72.5°	677.8	675.7	702.7	761.0	912.7	1715.3	4260.1	7299.8	11279.2	11333.2	8168.8
75°	559.3	563.4	582.2	615.4	696.5	1131.0	2761.1	5823.6	9950.6	9892.4	6854.8
77.5°	469.9	467.8	476.1	505.2	563.4	812.9	1617.5	4208.1	7374.6	7345.5	4499.2
80°	378.4	382.6	395.0	420.0	474.0	619.6	956.4	2625.9	3956.5	3850.5	2149.8
82.5°	253.7	293.2	318.1	347.2	409.6	457.4	607.1	1334.8	1769.3	1742.3	975.1
85°	120.6	160.1	237.0	270.3	332.7	286.9	411.7	636.2	885.7	875.3	351.4
87.5°	24.9	24.9	126.8	151.8	205.8	122.7	228.7	276.5	428.3	401.3	143.5
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°	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2
2.5°	1987.6	1931.5	1819.2	1729.8	1638.3	1586.4	1521.9	1490.7	1484.5	1467.9	1480.3
5°	2023.0	1912.8	1700.7	1561.4	1467.9	1422.1	1399.2	1390.9	1388.8	1384.7	1384.7
7.5°	2070.8	1902.4	1625.9	1484.5	1424.2	1409.6	1415.9	1428.3	1430.4	1434.6	1432.5
10°	2129.0	1904.5	1584.3	1465.8	1436.7	1438.7	1459.5	1476.2	1484.5	1490.7	1488.6
12.5°	2210.1	1929.4	1578.0	1478.2	1465.8	1474.1	1494.9	1511.5	1519.8	1521.9	1521.9
15°	2316.1	1981.4	1592.6	1505.3	1494.9	1501.1	1513.6	1519.8	1521.9	1519.8	1519.8
17.5°	2432.6	2043.8	1613.4	1521.9	1505.3	1499.0	1494.9	1488.6	1476.2	1467.9	1467.9
20°	2544.8	2099.9	1623.8	1519.8	1490.7	1465.8	1440.8	1409.6	1388.8	1372.2	1372.2
22.5°	2657.1	2151.9	1623.8	1497.0	1451.2	1403.4	1351.4	1301.5	1270.3	1249.5	1249.5
25°	2775.6	2201.8	1611.3	1457.5	1388.8	1320.2	1249.5	1187.2	1156.0	1135.2	1131.0
27.5°	2875.4	2230.9	1578.0	1401.3	1311.9	1224.6	1143.5	1079.1	1056.2	1037.5	1037.5
30°	2981.4	2249.6	1515.7	1328.6	1224.6	1124.8	1041.6	989.7	964.7	937.7	935.6
32.5°	3100.0	2262.1	1445.0	1251.6	1135.2	1029.2	958.5	916.9	862.8	833.7	829.6
35°	3237.2	2278.7	1370.1	1164.3	1045.8	950.2	908.6	840.0	788.0	763.0	761.0
37.5°	3382.7	2291.2	1289.0	1087.4	964.7	898.2	856.6	775.5	729.8	692.3	688.2
40°	3536.6	2291.2	1205.9	1012.5	900.3	875.3	796.3	723.5	646.6	627.9	623.7
42.5°	3707.1	2287.0	1122.7	939.8	840.0	823.3	761.0	684.0	644.5	627.9	623.7
45°	3887.9	2272.5	1043.7	856.6	777.6	744.3	696.5	675.7	659.1	659.1	659.1
47.5°	4093.8	2260.0	954.3	781.7	731.8	694.4	659.1	646.6	644.5	650.8	657.0
50°	4357.8	2255.8	879.5	727.7	696.5	652.8	648.7	638.3	640.4	640.4	640.4
52.5°	4678.0	2218.4	808.8	688.2	661.2	609.2	621.7	632.0	636.2	634.1	632.0
55°	4912.9	2151.9	748.5	661.2	636.2	592.5	609.2	625.8	630.0	623.7	623.7
57.5°	5125.0	2058.3	700.7	640.4	619.6	582.2	600.9	617.5	613.3	611.3	609.2
60°	5368.3	1968.9	663.2	630.0	602.9	578.0	594.6	605.0	598.8	594.6	592.5
62.5°	5632.3	1881.6	636.2	630.0	590.5	575.9	588.4	592.5	580.1	575.9	575.9
65°	5755.0	1744.4	607.1	630.0	584.2	571.8	575.9	571.8	559.3	559.3	557.2
67.5°	5553.3	1517.7	569.7	621.7	592.5	565.5	557.2	551.0	536.4	536.4	532.3
70°	4996.1	1247.5	515.6	594.6	594.6	563.4	532.3	517.7	501.1	507.3	499.0
72.5°	4268.4	989.7	449.1	548.9	582.2	561.4	505.2	482.4	467.8	474.0	461.6
75°	3457.6	767.2	370.1	476.1	551.0	551.0	478.2	447.0	430.4	430.4	415.8
77.5°	2203.9	567.6	301.5	395.0	494.8	536.4	455.3	407.5	382.6	376.3	365.9
80°	1091.5	399.2	247.4	313.9	422.1	503.1	438.7	361.8	326.4	313.9	295.2
82.5°	580.1	276.5	197.5	245.3	336.8	453.2	417.9	311.9	268.2	249.5	228.7
85°	259.9	170.5	158.0	187.1	255.7	372.2	376.3	255.7	205.8	245.3	180.9
87.5°	95.6	76.9	76.9	95.6	147.6	155.9	266.1	164.2	131.0	89.4	70.7
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)