

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: P380931

Luminaire Tested: **USSL-XL-PA4B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA4B-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36002 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 303
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



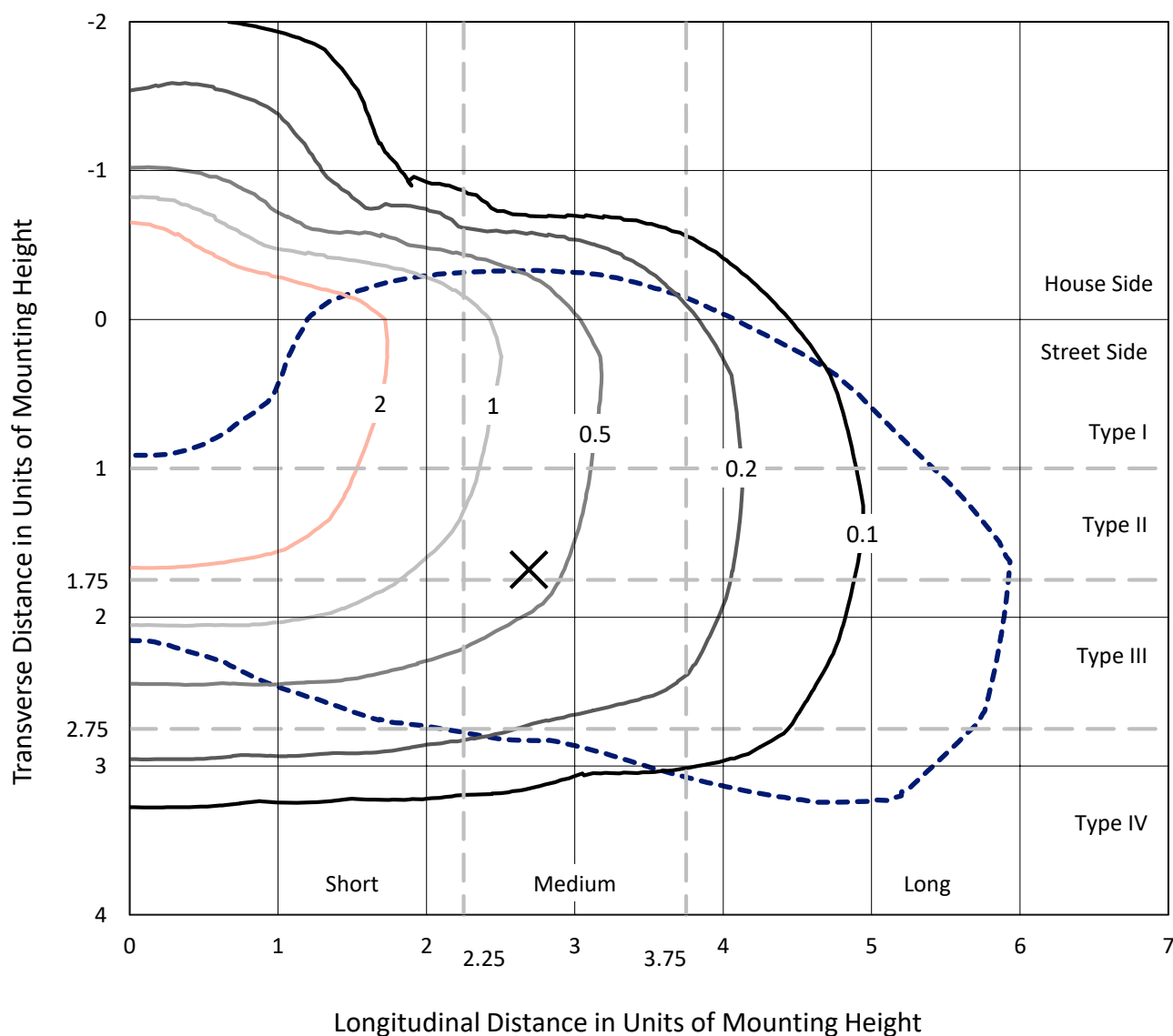
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

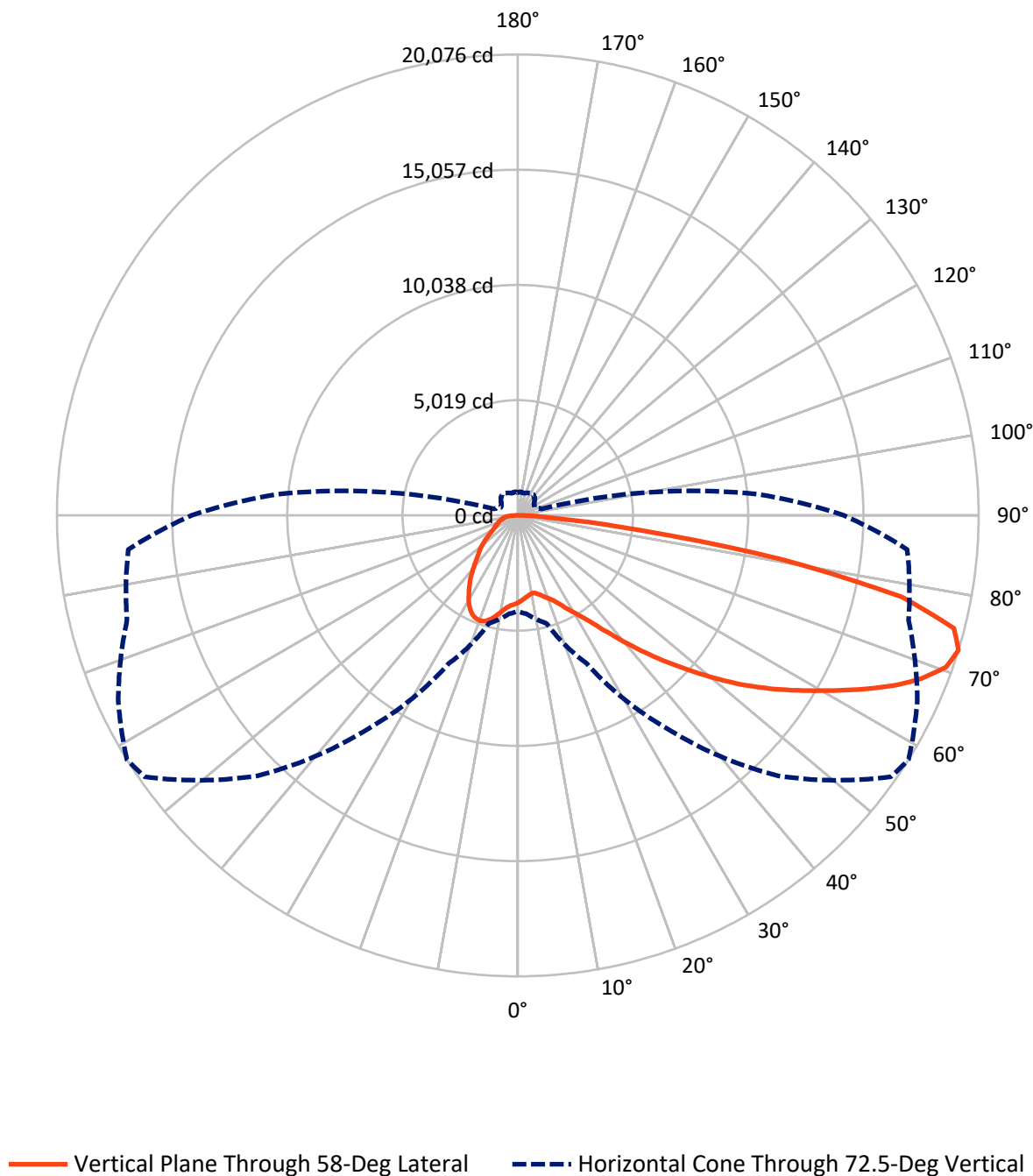


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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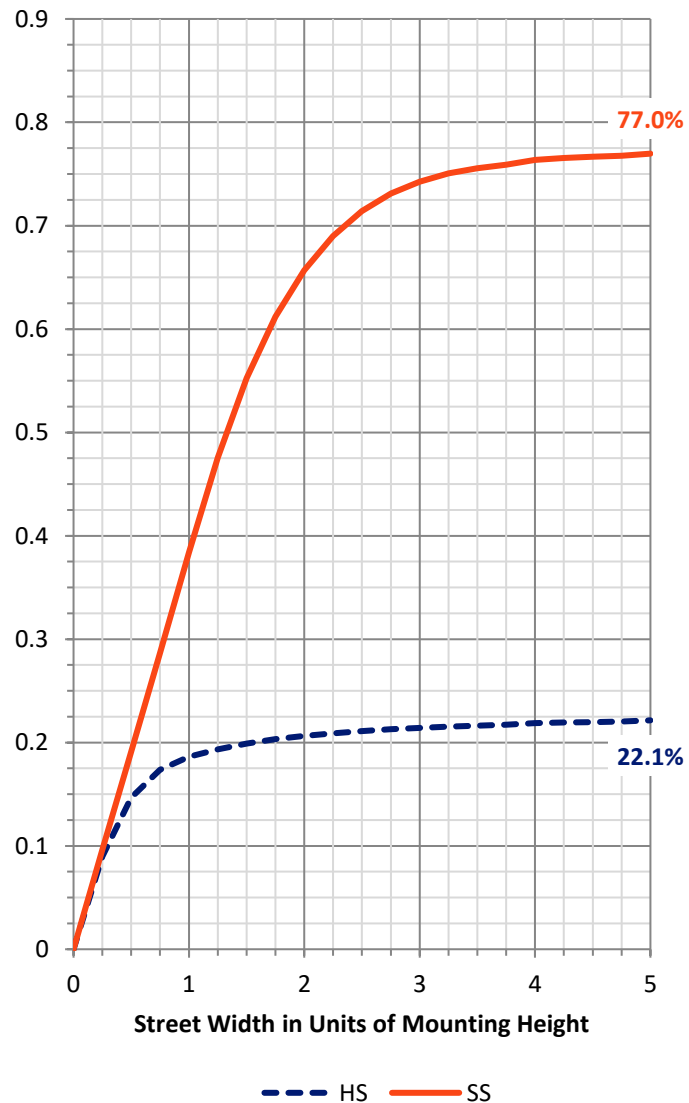
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8164.8	0.0	8164.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	27837.2	0.0	27837.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	36002.0	0.0	36002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	1.0
10°-20°	1161.7	3.2
20°-30°	2081.1	5.8
30°-40°	3130.5	8.7
40°-50°	5069.3	14.1
50°-60°	7631.0	21.2
60°-70°	8980.9	24.9
70°-80°	6368.3	17.7
80°-90°	1213.5	3.4
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°	36002.0	100.0
0°-180°	36002.0	100.0

Coefficient of Utilization



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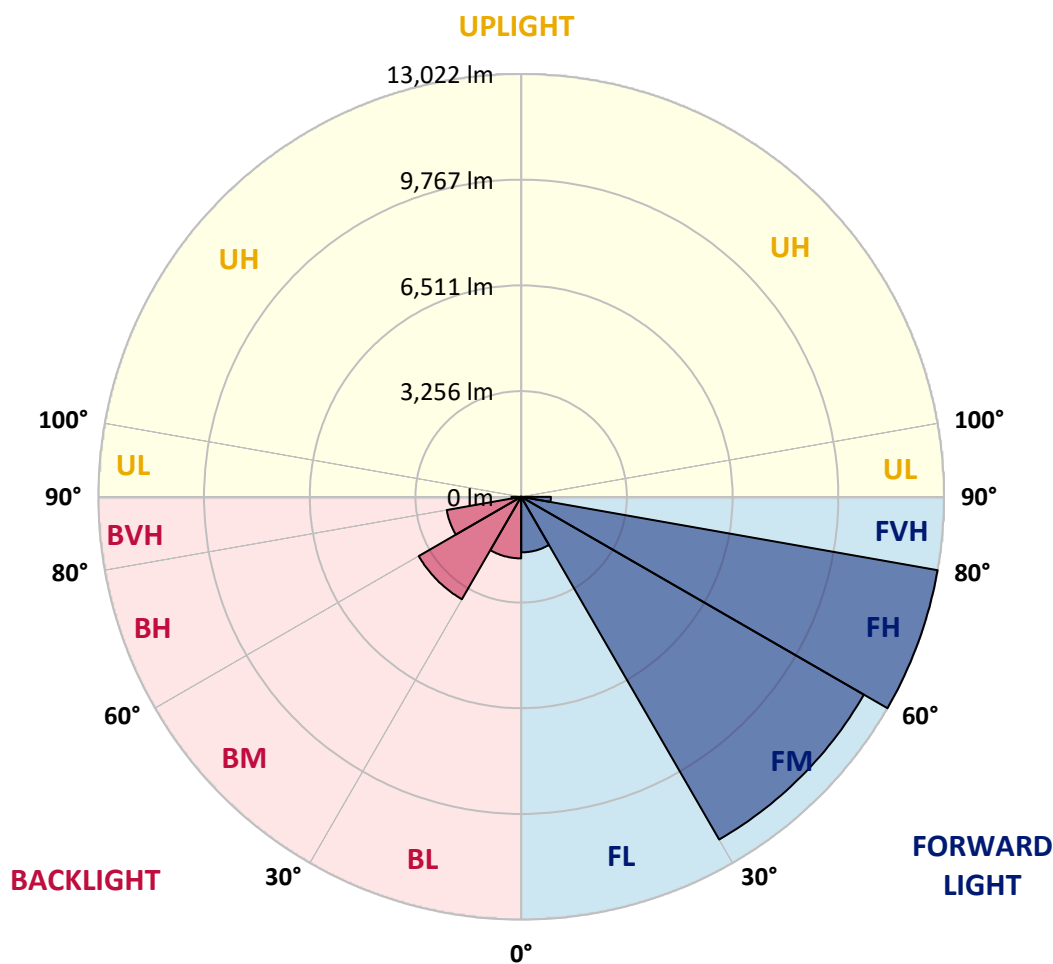
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.1	4.8			
FM	(30°-60°)	12187.7	33.9			
FH	(60°-80°)	13022.1	36.2			G5
FVH	(80°-90°)	915.3	2.5			G5
BL	(0°-30°)	1896.5	5.3	B3/2500		
BM	(30°-60°)	3643.1	10.1	B3/5000		
BH	(60°-80°)	2327.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	298.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4
2.5°	3654.9	3635.9	3640.6	3640.6	3659.6	3669.1	3673.9	3688.1	3697.6	3721.4	3754.7
5°	3483.8	3469.5	3474.3	3479.0	3512.3	3545.5	3574.1	3593.1	3621.6	3659.6	3707.1
7.5°	3360.2	3350.7	3355.4	3364.9	3393.5	3431.5	3479.0	3507.5	3550.3	3621.6	3702.4
10°	3269.9	3269.9	3274.6	3293.7	3322.2	3369.7	3407.7	3441.0	3526.5	3654.9	3778.4
12.5°	3198.6	3198.6	3212.9	3250.9	3298.4	3345.9	3436.2	3474.3	3588.3	3764.2	3911.5
15°	3193.8	3198.6	3203.4	3236.6	3288.9	3393.5	3526.5	3583.6	3721.4	3930.5	4101.6
17.5°	3269.9	3274.6	3255.6	3265.1	3326.9	3474.3	3650.1	3716.6	3892.5	4120.6	4296.5
20°	3502.8	3502.8	3445.7	3393.5	3436.2	3597.8	3797.4	3864.0	4058.8	4310.7	4486.6
22.5°	3978.1	4001.8	3868.7	3754.7	3688.1	3778.4	3959.0	4030.3	4249.0	4519.9	4695.7
25°	4553.1	4576.9	4396.3	4234.7	4111.1	4096.9	4215.7	4291.7	4472.3	4752.7	4900.1
27.5°	5109.2	5066.4	4900.1	4748.0	4591.2	4462.8	4553.1	4619.7	4828.8	5042.7	5133.0
30°	5546.5	5513.2	5351.6	5242.3	5094.9	4928.6	4876.3	4947.6	5118.7	5318.3	5365.9
32.5°	6031.2	6007.5	5845.9	5703.3	5579.7	5422.9	5308.8	5342.1	5437.1	5579.7	5608.2
35°	6649.1	6701.4	6530.3	6240.4	6102.5	5950.4	5869.6	5879.1	5950.4	6040.7	5993.2
37.5°	7300.2	7362.0	7371.5	6915.2	6729.9	6592.1	6506.5	6539.8	6625.3	6687.1	6539.8
40°	8507.4	8445.6	8198.5	7861.0	7575.9	7442.8	7324.0	7319.2	7381.0	7490.3	7224.2
42.5°	10109.1	10052.1	9553.0	9115.8	8664.3	8512.2	8279.3	8179.5	8208.0	8345.8	7975.1
45°	11644.2	11620.5	11221.2	10712.7	10170.9	9876.2	9343.9	9101.5	9077.7	9187.1	8745.1
47.5°	13008.3	12903.7	12613.8	12219.3	12162.3	11392.3	10413.3	10085.3	9971.3	10033.1	9538.8
50°	14467.4	14110.9	13711.7	13469.3	13882.8	13165.1	11492.1	11149.9	10869.5	10912.3	10399.0
52.5°	15242.1	14643.2	14381.8	14453.1	15009.2	14733.5	12666.1	12247.8	11796.3	11858.1	11254.5
55°	14576.7	14571.9	14686.0	15128.0	15902.7	15584.3	13783.0	13312.4	12818.2	12832.4	12238.3
57.5°	13664.2	13849.5	14438.8	15413.2	17010.1	16477.8	14880.9	14381.8	13930.3	13859.0	13355.2
60°	12832.4	13036.8	13892.3	15365.6	17395.1	17295.2	15926.5	15489.2	15123.2	14914.1	14529.2
62.5°	11568.2	11720.3	12932.2	15061.5	17071.9	17884.6	16986.3	16686.9	16411.2	15978.7	15793.4
65°	10080.6	10132.9	11411.3	14058.6	16667.9	18112.7	18041.4	17908.4	17642.2	17005.3	17043.4
67.5°	8469.4	8574.0	9695.6	12457.0	15783.9	18008.2	18858.9	18968.2	18654.5	17699.2	17841.8
70°	6753.7	6882.0	7732.7	10242.2	14282.0	17556.7	19614.6	19790.4	19186.8	17927.4	17989.2
72.5°	4177.7	4301.2	4871.6	7114.9	11321.0	16040.5	19847.5	20075.6	19201.1	17623.2	17029.1
75°	1444.8	1459.1	1905.9	3412.5	6720.4	12110.0	19087.0	19624.1	18597.5	16515.8	14819.1
77.5°	660.6	684.4	846.0	1406.8	2980.0	6535.0	15760.1	17105.1	16762.9	14785.8	11406.6
80°	456.3	465.8	584.6	841.2	1720.5	2300.3	9947.5	11701.3	12300.1	11449.4	7309.7
82.5°	342.2	351.7	451.5	570.3	1240.5	1116.9	3787.9	5437.1	6758.4	6634.8	3056.0
85°	327.9	323.2	351.7	380.2	827.0	665.4	1226.2	1682.5	2637.8	2257.6	769.9
87.5°	142.6	156.8	361.2	213.9	432.5	308.9	532.3	622.6	803.2	698.7	275.7
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°	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4	3797.4
2.5°	3768.9	3778.4	3807.0	3849.7	3873.5	3921.0	3954.3	3973.3	3987.6	3992.3	3992.3
5°	3735.7	3754.7	3816.5	3887.7	3954.3	4054.1	4144.4	4196.7	4234.7	4249.0	4253.7
7.5°	3745.2	3792.7	3883.0	3987.6	4073.1	4201.4	4310.7	4415.3	4500.9	4534.1	4534.1
10°	3835.5	3902.0	4025.6	4163.4	4272.7	4405.8	4519.9	4610.2	4710.0	4767.0	4776.5
12.5°	3973.3	4054.1	4215.7	4367.8	4491.3	4595.9	4700.5	4767.0	4814.5	4857.3	4866.8
15°	4168.2	4268.0	4429.6	4586.4	4695.7	4762.3	4790.8	4790.8	4786.0	4790.8	4800.3
17.5°	4363.0	4458.1	4619.7	4776.5	4828.8	4790.8	4757.5	4748.0	4743.2	4733.7	4738.5
20°	4553.1	4643.4	4781.3	4900.1	4857.3	4724.2	4681.5	4676.7	4662.4	4652.9	4643.4
22.5°	4743.2	4809.8	4923.8	4966.6	4795.5	4605.4	4553.1	4524.6	4505.6	4481.8	4458.1
25°	4961.9	4980.9	5066.4	4999.9	4643.4	4386.8	4310.7	4268.0	4249.0	4225.2	4206.2
27.5°	5166.2	5166.2	5180.5	4947.6	4420.1	4096.9	3982.8	3906.8	3902.0	3897.3	3892.5
30°	5351.6	5327.8	5280.3	4790.8	4130.1	3740.4	3569.3	3493.3	3521.8	3545.5	3550.3
32.5°	5570.2	5522.7	5389.6	4576.9	3783.2	3341.2	3132.1	3098.8	3132.1	3160.6	3141.6
35°	5912.4	5826.9	5503.7	4329.8	3450.5	2975.2	2775.6	2728.1	2718.6	2713.8	2675.8
37.5°	6402.0	6254.6	5594.0	4063.6	3122.6	2652.0	2504.7	2404.9	2314.6	2219.5	2205.3
40°	7000.8	6748.9	5655.8	3759.4	2775.6	2381.1	2224.3	2096.0	1943.9	1777.5	1758.5
42.5°	7656.7	7281.2	5684.3	3422.0	2471.4	2157.7	1962.9	1801.3	1630.2	1501.9	1478.1
45°	8364.8	7856.3	5660.5	3098.8	2224.3	1967.6	1749.0	1573.2	1435.3	1345.0	1326.0
47.5°	9054.0	8516.9	5594.0	2842.1	2034.2	1806.0	1582.7	1421.1	1316.5	1216.7	1192.9
50°	9938.0	9149.0	5513.2	2642.5	1825.1	1644.5	1478.1	1307.0	1188.2	1140.7	1131.2
52.5°	10917.1	9781.2	5418.1	2390.6	1620.7	1516.1	1411.6	1259.5	1221.5	1131.2	1116.9
55°	11976.9	10532.1	5399.1	2072.2	1440.1	1425.8	1345.0	1302.3	1311.8	1131.2	1107.4
57.5°	13093.8	11335.3	5441.9	1753.8	1292.7	1345.0	1373.5	1340.3	1326.0	1154.9	1107.4
60°	14258.2	12110.0	5313.6	1459.1	1178.7	1278.5	1406.8	1321.3	1216.7	1145.4	1112.1
62.5°	15389.4	12761.1	4757.5	1250.0	1093.1	1259.5	1387.8	1250.0	1131.2	1131.2	1116.9
65°	16211.6	13051.0	3721.4	1097.9	1036.1	1235.7	1354.5	1202.4	1107.4	1140.7	1121.6
67.5°	16306.7	12751.6	2499.9	979.1	988.6	1192.9	1278.5	1159.7	1083.6	1169.2	1140.7
70°	15722.1	11972.2	1530.4	888.8	926.8	1116.9	1212.0	1116.9	1050.4	1145.4	1102.6
72.5°	14206.0	10517.8	1078.9	812.7	860.2	1045.6	1150.2	1078.9	1002.8	1036.1	993.3
75°	11653.7	8151.0	855.5	741.4	793.7	979.1	1097.9	1021.8	945.8	931.5	903.0
77.5°	8255.5	5223.3	689.1	684.4	722.4	898.3	1026.6	955.3	879.3	850.7	831.7
80°	4748.0	2561.7	594.1	617.9	655.9	817.5	941.0	879.3	808.0	765.2	736.7
82.5°	1815.5	893.5	522.8	537.1	579.8	731.9	855.5	803.2	731.9	769.9	646.4
85°	589.3	489.5	427.7	442.0	484.8	608.4	755.7	712.9	632.1	560.8	518.0
87.5°	261.4	266.2	228.1	251.9	304.2	404.0	551.3	522.8	461.0	385.0	370.7
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)