

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: P380883

Luminaire Tested: **USSL-XL-PA4B-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380883
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-PA4B-750-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39689 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

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



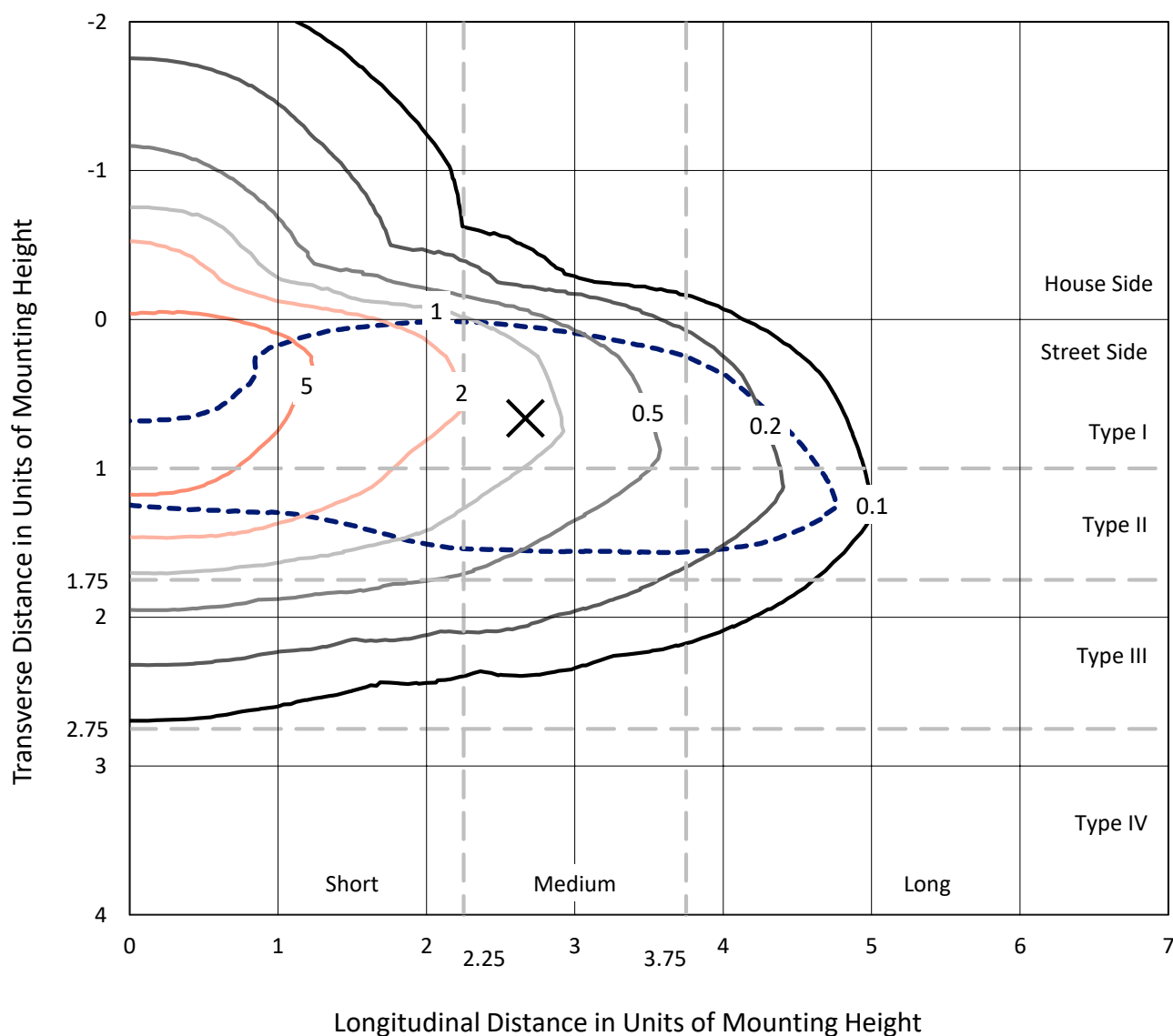
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

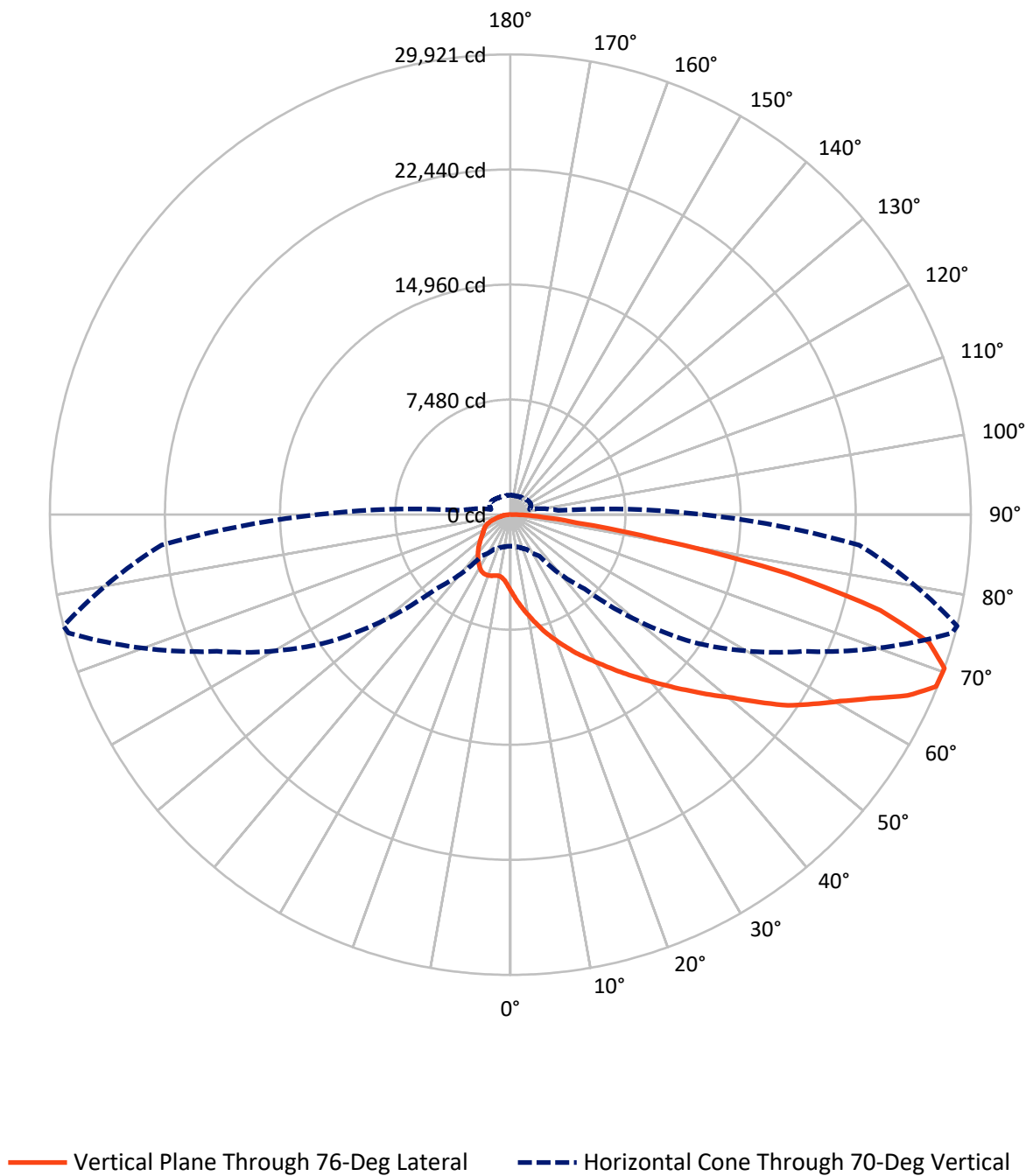


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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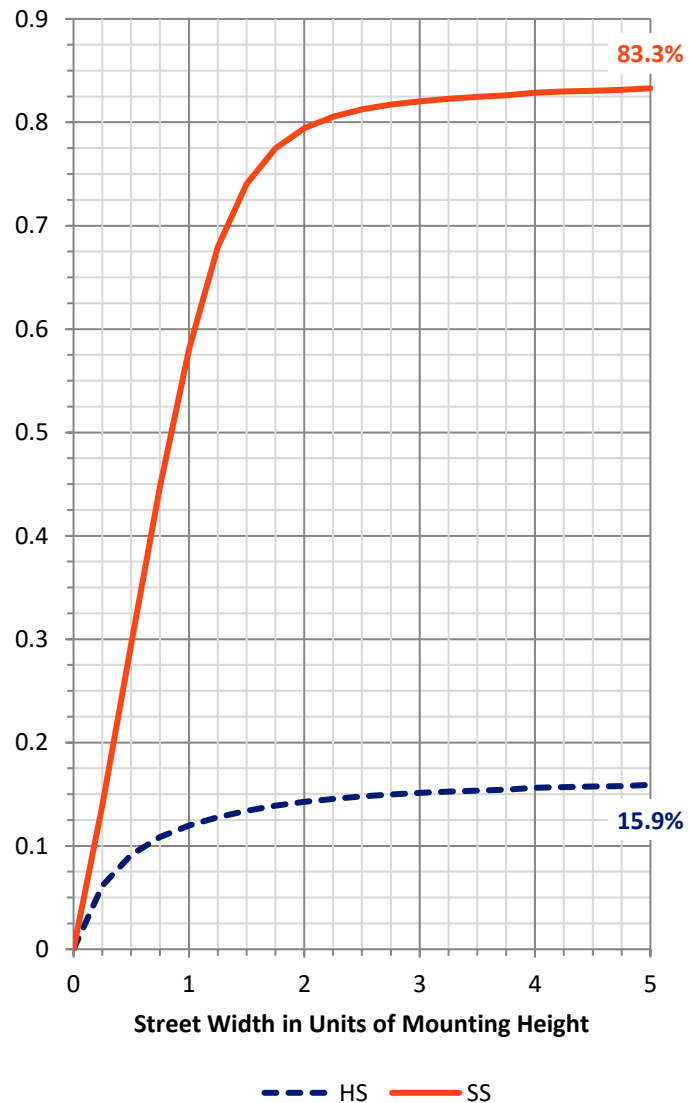
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6479.6	0.0	6479.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	33209.4	0.0	33209.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	39689.0	0.0	39689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.7	1.3
10°-20°	1752.7	4.4
20°-30°	3135.8	7.9
30°-40°	5072.7	12.8
40°-50°	7338.4	18.5
50°-60°	8399.2	21.2
60°-70°	7726.4	19.5
70°-80°	4777.9	12.0
80°-90°	970.2	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°	39689.0	100.0
0°-180°	39689.0	100.0

Coefficient of Utilization



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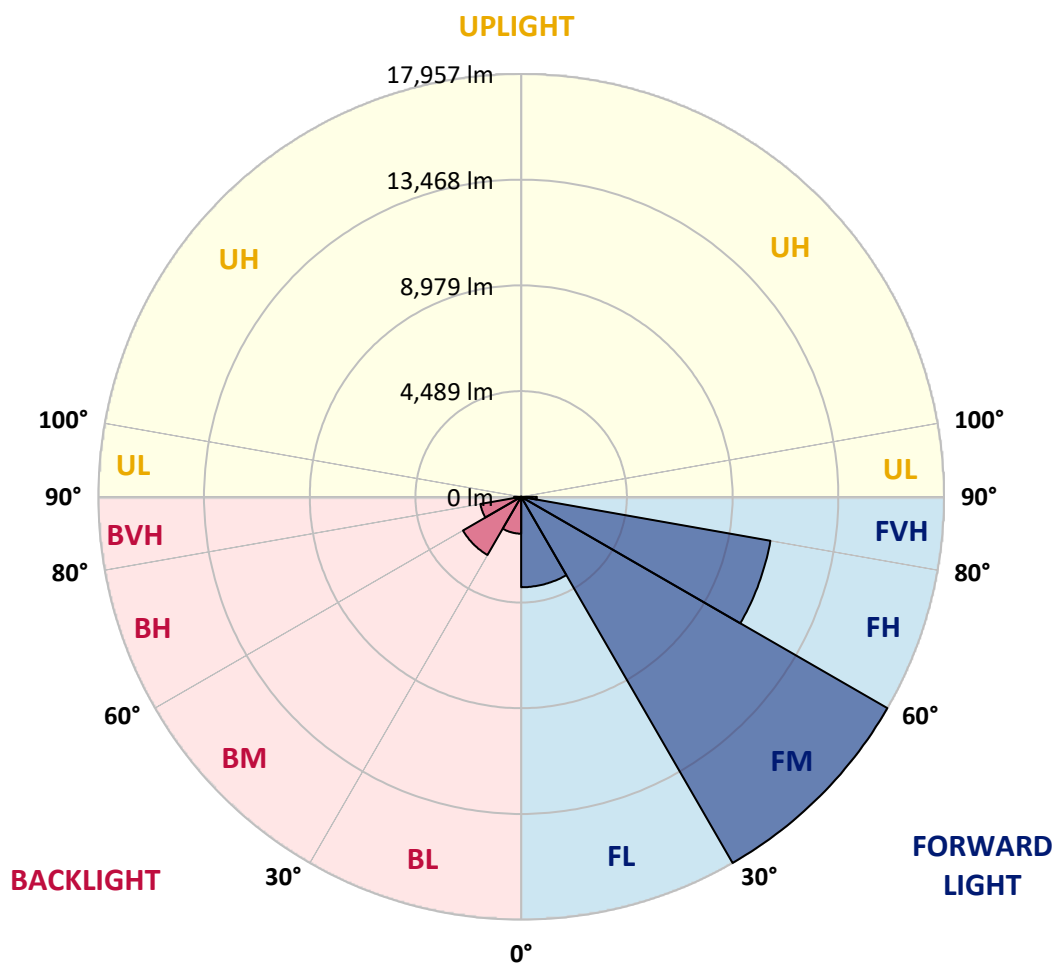
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3839.2	9.7			
FM	(30°-60°)	17957.4	45.2			
FH	(60°-80°)	10746.7	27.1			G4/12000
FVH	(80°-90°)	666.0	1.7			G4/750
BL	(0°-30°)	1565.0	3.9	B3/2500		
BM	(30°-60°)	2852.9	7.2	B3/5000		
BH	(60°-80°)	1757.5	4.4	B3/2500		G3/2500
BVH	(80°-90°)	304.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3
2.5°	6325.4	6278.5	6273.3	6200.2	6132.3	5949.7	5819.2	5589.6	5359.9	5354.7	5125.1
5°	7311.8	7264.9	7238.8	7150.0	7035.2	6795.2	6560.3	6205.4	5814.0	5787.9	5354.7
7.5°	7979.9	7938.1	7885.9	7849.4	7739.8	7525.8	7238.8	6816.0	6278.5	6226.3	5620.9
10°	8428.7	8402.6	8392.2	8366.1	8298.2	8126.0	7849.4	7400.6	6743.0	6685.6	5902.7
12.5°	8621.8	8611.4	8658.3	8731.4	8757.5	8689.7	8423.5	8000.7	7254.4	7191.8	6241.9
15°	8397.4	8407.8	8527.9	8778.4	9044.5	9190.7	9034.1	8621.8	7833.7	7745.0	6638.6
17.5°	8293.0	8308.7	8392.2	8632.2	9008.0	9462.1	9535.1	9211.6	8392.2	8266.9	7056.1
20°	8475.7	8496.5	8559.2	8747.1	9008.0	9493.4	9874.4	9775.2	8940.2	8809.7	7458.0
22.5°	8940.2	8966.3	8961.0	9081.1	9258.5	9592.5	10062.3	10307.5	9514.3	9368.1	7875.5
25°	9931.8	9910.9	9733.5	9676.0	9723.0	9937.0	10312.8	10819.0	10114.4	9968.3	8313.9
27.5°	11278.3	11252.2	10928.6	10636.3	10375.4	10469.3	10667.7	11231.3	10725.1	10558.1	8731.4
30°	12718.7	12687.4	12311.6	11836.7	11257.4	11121.7	11095.6	11591.4	11340.9	11163.5	9175.0
32.5°	14122.6	14096.5	13694.7	13141.5	12343.0	11935.9	11685.4	11993.3	12040.3	11868.0	9660.4
35°	15401.3	15401.3	15056.8	14399.3	13496.4	12880.5	12468.2	12489.1	12844.0	12645.7	10213.6
37.5°	16539.0	16533.8	16158.1	15510.9	14644.5	13940.0	13428.5	13089.3	13611.2	13439.0	10792.9
40°	17441.9	17405.4	17128.8	16565.1	15693.6	14994.2	14477.5	13793.8	14467.1	14310.5	11408.8
42.5°	18099.5	18078.7	17890.8	17400.2	16570.4	15912.8	15557.9	14681.1	15437.8	15281.3	12129.0
45°	18355.3	18397.0	18397.0	17932.5	17274.9	16674.7	16518.2	15657.0	16486.9	16330.3	12901.4
47.5°	17943.0	18052.6	18277.0	18308.3	17729.0	17321.9	17374.1	16638.2	17567.2	17483.7	13746.9
50°	16653.9	16857.4	17348.0	18235.2	17911.6	17817.7	18104.7	17640.3	18725.8	18699.7	14775.0
52.5°	13329.4	13825.2	15354.3	16946.1	17786.4	18047.3	18830.2	18767.6	20218.4	20260.2	16116.3
55°	10224.0	10411.9	12181.2	14889.8	17019.2	17974.3	19315.6	19868.8	21836.3	21888.5	17348.0
57.5°	8266.9	8392.2	9357.7	12181.2	15270.8	17577.6	19696.5	20510.7	23078.5	23214.2	18444.0
60°	6549.9	6732.5	7379.7	9321.2	12823.1	16622.5	19962.7	21225.7	24414.5	24618.1	19754.0
62.5°	4869.3	4958.1	5568.7	6904.8	10151.0	14905.5	19821.8	22003.3	26053.3	26298.6	21330.1
65°	3465.4	3543.7	3976.9	4911.1	7504.9	12583.0	19002.4	22582.7	28109.6	28360.1	22916.7
67.5°	2593.8	2625.2	2870.5	3434.1	5057.2	9775.2	17342.8	22483.5	29612.7	29837.1	23553.4
70°	2051.1	2061.5	2181.5	2484.2	3288.0	6805.6	14435.8	21027.4	29722.3	29920.6	22749.7
72.5°	1701.4	1696.2	1764.0	1910.2	2291.1	4305.7	10693.8	18323.9	28313.1	28448.8	20505.5
75°	1403.9	1414.4	1461.3	1544.8	1748.4	2839.1	6930.8	14618.4	24978.2	24832.1	17207.1
77.5°	1179.5	1174.3	1195.2	1268.2	1414.4	2040.6	4060.4	10563.3	18511.8	18438.8	11293.9
80°	949.9	960.3	991.6	1054.2	1189.9	1555.3	2400.7	6591.6	9931.8	9665.6	5396.5
82.5°	636.7	735.9	798.5	871.6	1028.1	1148.2	1524.0	3350.6	4441.4	4373.5	2447.7
85°	302.7	401.9	595.0	678.5	835.0	720.2	1033.4	1597.0	2223.3	2197.2	882.0
87.5°	62.6	62.6	318.4	381.0	516.7	307.9	574.1	694.1	1075.1	1007.3	360.1
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°	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3	4963.3
2.5°	4989.4	4848.5	4566.6	4342.2	4112.6	3982.1	3820.3	3742.0	3726.4	3684.6	3715.9
5°	5078.1	4801.5	4269.2	3919.5	3684.6	3569.8	3512.4	3491.5	3486.3	3475.9	3475.9
7.5°	5198.1	4775.4	4081.3	3726.4	3575.0	3538.5	3554.1	3585.5	3590.7	3601.1	3595.9
10°	5344.3	4780.6	3976.9	3679.4	3606.3	3611.6	3663.7	3705.5	3726.4	3742.0	3736.8
12.5°	5547.8	4843.2	3961.2	3710.7	3679.4	3700.3	3752.5	3794.2	3815.1	3820.3	3820.3
15°	5814.0	4973.7	3997.8	3778.6	3752.5	3768.1	3799.4	3815.1	3820.3	3815.1	3815.1
17.5°	6106.2	5130.3	4050.0	3820.3	3778.6	3762.9	3752.5	3736.8	3705.5	3684.6	3684.6
20°	6388.1	5271.2	4076.0	3815.1	3742.0	3679.4	3616.8	3538.5	3486.3	3444.5	3444.5
22.5°	6669.9	5401.7	4076.0	3757.7	3642.9	3522.8	3392.4	3267.1	3188.8	3136.6	3136.6
25°	6967.4	5526.9	4044.7	3658.5	3486.3	3314.1	3136.6	2980.1	2901.8	2849.6	2839.1
27.5°	7217.9	5600.0	3961.2	3517.6	3293.2	3074.0	2870.5	2708.7	2651.3	2604.3	2604.3
30°	7484.1	5647.0	3804.7	3334.9	3074.0	2823.5	2614.7	2484.2	2421.6	2353.8	2348.6
32.5°	7781.5	5678.3	3627.2	3141.8	2849.6	2583.4	2406.0	2301.6	2165.9	2092.8	2082.4
35°	8126.0	5720.0	3439.3	2922.6	2625.2	2385.1	2280.7	2108.5	1978.0	1915.4	1910.2
37.5°	8491.3	5751.3	3235.8	2729.5	2421.6	2254.6	2150.2	1946.7	1831.9	1737.9	1727.5
40°	8877.5	5751.3	3027.0	2541.7	2259.8	2197.2	1998.9	1816.2	1623.1	1576.1	1565.7
42.5°	9305.5	5740.9	2818.3	2359.0	2108.5	2066.7	1910.2	1717.1	1617.9	1576.1	1565.7
45°	9759.6	5704.4	2619.9	2150.2	1951.9	1868.4	1748.4	1696.2	1654.4	1654.4	1654.4
47.5°	10276.2	5673.1	2395.5	1962.3	1837.1	1743.1	1654.4	1623.1	1617.9	1633.6	1649.2
50°	10939.0	5662.6	2207.6	1826.7	1748.4	1638.8	1628.3	1602.2	1607.5	1607.5	1607.5
52.5°	11742.8	5568.7	2030.2	1727.5	1659.6	1529.2	1560.5	1586.6	1597.0	1591.8	1586.6
55°	12332.5	5401.7	1878.8	1659.6	1597.0	1487.4	1529.2	1570.9	1581.4	1565.7	1565.7
57.5°	12864.9	5166.8	1758.8	1607.5	1555.3	1461.3	1508.3	1550.0	1539.6	1534.4	1529.2
60°	13475.5	4942.4	1664.9	1581.4	1513.5	1450.9	1492.6	1518.7	1503.1	1492.6	1487.4
62.5°	14138.3	4723.2	1597.0	1581.4	1482.2	1445.7	1477.0	1487.4	1456.1	1445.7	1445.7
65°	14446.2	4378.8	1524.0	1581.4	1466.5	1435.2	1445.7	1435.2	1403.9	1403.9	1398.7
67.5°	13940.0	3809.9	1430.0	1560.5	1487.4	1419.6	1398.7	1383.0	1346.5	1346.5	1336.1
70°	12541.3	3131.4	1294.3	1492.6	1492.6	1414.4	1336.1	1299.5	1257.8	1273.4	1252.6
72.5°	10714.6	2484.2	1127.3	1377.8	1461.3	1409.1	1268.2	1210.8	1174.3	1189.9	1158.6
75°	8679.2	1925.8	929.0	1195.2	1383.0	1383.0	1200.4	1122.1	1080.3	1080.3	1043.8
77.5°	5532.2	1424.8	756.8	991.6	1242.1	1346.5	1143.0	1022.9	960.3	944.6	918.5
80°	2740.0	1002.1	621.1	788.1	1059.5	1263.0	1101.2	908.1	819.4	788.1	741.1
82.5°	1456.1	694.1	495.8	615.8	845.5	1137.7	1049.0	782.9	673.3	626.3	574.1
85°	652.4	428.0	396.6	469.7	641.9	934.2	944.6	641.9	516.7	615.8	454.1
87.5°	240.1	193.1	193.1	240.1	370.5	391.4	668.0	412.3	328.8	224.4	177.4
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)