

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: P639160

Luminaire Tested: **USSL-M-PA6A-730-U-T2R**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-PA6A-730-U-T2R  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37896 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

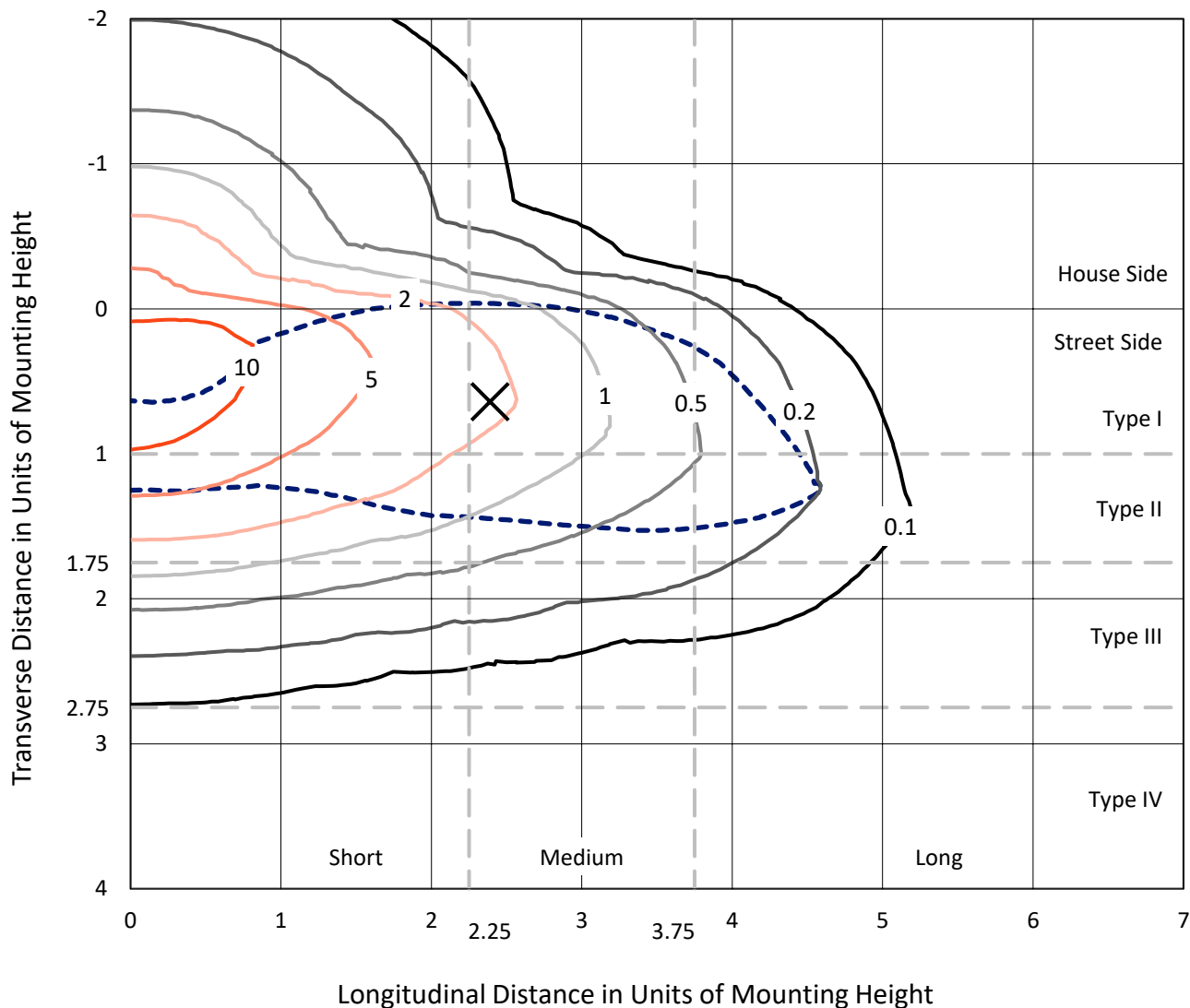
Input Watts (W): 273.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

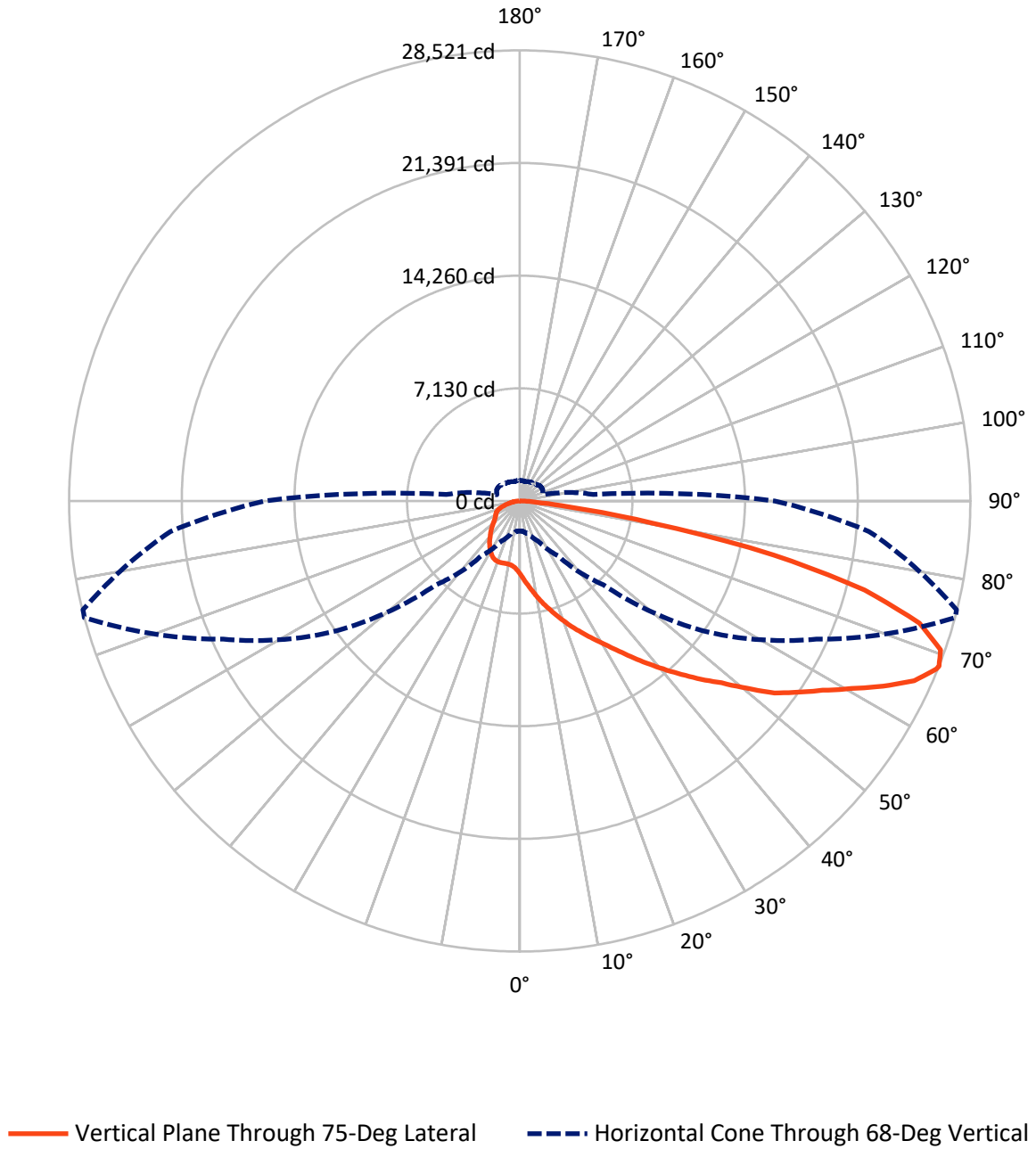
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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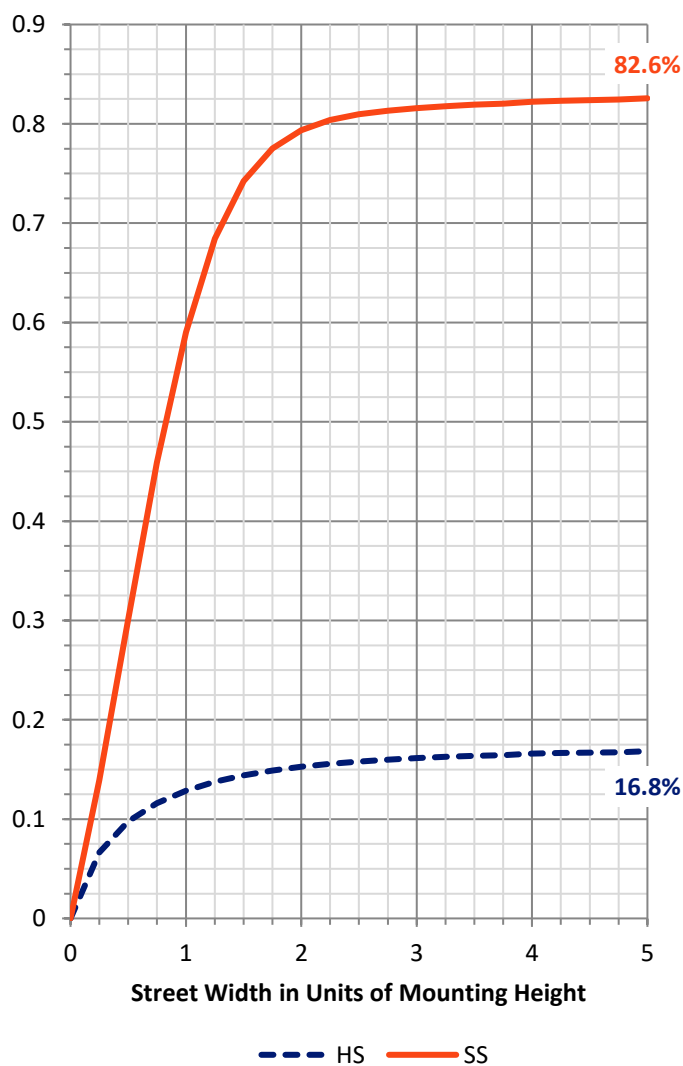
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6487.3	0.0	6487.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	31408.7	0.0	31408.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	37896.0	0.0	37896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.7	1.3
10°-20°	1665.7	4.4
20°-30°	3084.5	8.1
30°-40°	5026.7	13.3
40°-50°	7085.7	18.7
50°-60°	8149.6	21.5
60°-70°	7411.2	19.6
70°-80°	4303.3	11.4
80°-90°	682.6	1.8
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°	37896.0	100.0
0°-180°	37896.0	100.0

**Coefficient of Utilization**



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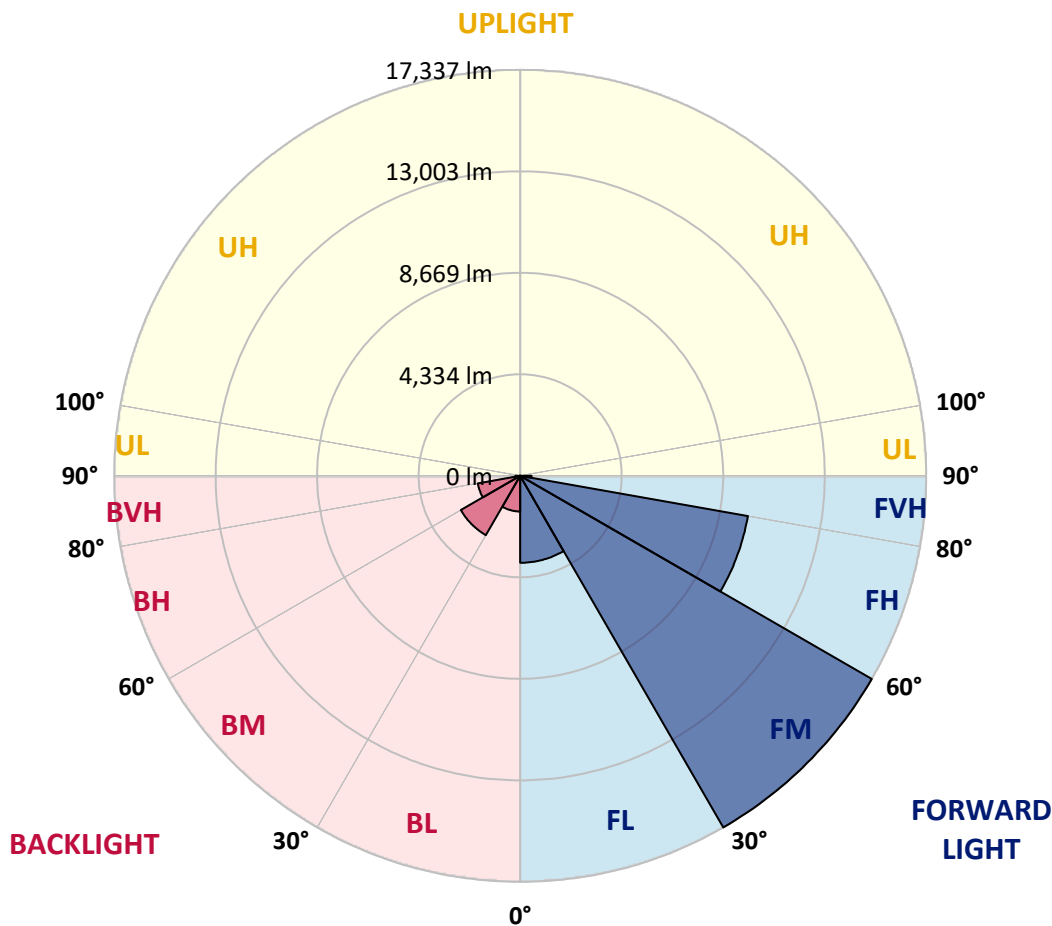
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3713.4	9.8			
FM (30°-60°)	17337.1	45.7			
FH (60°-80°)	9875.9	26.1			G4/12000
FVH (80°-90°)	482.3	1.3			G3/500
BL (0°-30°)	1523.5	4.0	B3/2500		
BM (30°-60°)	2924.8	7.7	B3/5000		
BH (60°-80°)	1838.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	200.3	0.5			G2/225
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°	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1
2.5°	5890.5	5774.8	5758.4	5743.9	5637.3	5475.2	5370.5	5156.5	4972.5	4942.4	4763.0
5°	6725.6	6659.1	6614.5	6570.8	6442.4	6308.5	6050.8	5717.5	5346.8	5294.9	4930.6
7.5°	7203.8	7146.4	7125.4	7098.1	7007.9	6882.3	6641.8	6256.6	5754.8	5700.2	5146.4
10°	7647.3	7568.9	7553.5	7543.4	7483.3	7366.8	7184.6	6788.5	6205.6	6116.4	5422.4
12.5°	8036.1	7974.2	7983.3	7974.2	7956.0	7887.7	7713.8	7321.2	6670.1	6569.0	5708.4
15°	8297.5	8224.7	8289.3	8364.0	8405.0	8409.5	8249.3	7862.2	7124.5	7033.4	6030.8
17.5°	8431.4	8355.8	8453.3	8597.1	8766.5	8851.2	8784.8	8430.5	7635.4	7520.7	6377.7
20°	8703.7	8612.6	8701.9	8838.5	9076.2	9254.7	9317.5	9018.8	8165.5	8035.2	6742.9
22.5°	9288.4	9189.1	9214.6	9265.6	9450.5	9643.6	9778.3	9613.5	8706.4	8567.1	7120.0
25°	10301.1	10210.9	10092.5	9975.1	10010.6	10099.8	10199.1	10203.6	9268.3	9110.8	7510.7
27.5°	11714.5	11500.5	11290.1	10969.6	10777.4	10688.1	10648.1	10783.8	9858.5	9696.4	7891.3
30°	13134.3	12934.9	12626.1	12216.3	11766.4	11493.2	11216.4	11342.9	10496.9	10314.8	8282.0
32.5°	14362.9	14168.9	13854.7	13393.0	12860.2	12482.3	11933.1	11935.8	11235.5	11007.8	8741.9
35°	15443.0	15178.9	14861.0	14380.2	13859.3	13398.4	12775.5	12571.5	12097.0	11841.1	9298.4
37.5°	16255.3	15977.6	15652.5	15178.9	14716.2	14372.9	13699.9	13270.9	13016.8	12778.2	9911.3
40°	16798.1	16519.5	16226.2	15801.8	15416.6	15214.4	14782.7	14063.3	13976.7	13705.3	10586.1
42.5°	17044.0	16775.4	16588.7	16232.6	15945.7	15921.1	15713.5	14953.9	15009.5	14729.0	11327.5
45°	16942.9	16707.1	16616.9	16427.5	16277.2	16443.9	16651.5	15896.5	16101.4	15835.5	12118.0
47.5°	16459.3	16271.7	16334.6	16339.1	16379.2	16810.0	17393.7	16881.0	17204.3	16942.9	13080.6
50°	15450.3	15350.1	15663.4	15967.6	16235.3	17001.2	18077.7	17962.0	18632.3	18340.0	14287.3
52.5°	13244.5	13384.8	14290.9	15055.0	15813.6	16977.5	18624.1	19153.2	20191.5	19902.8	15481.2
55°	10510.6	10665.4	11812.0	13512.3	14969.4	16700.7	18927.4	20002.0	21380.8	21173.2	16542.2
57.5°	8435.0	8537.0	9349.4	11266.4	13442.1	16045.9	19088.6	20645.9	22610.3	22384.5	17758.9
60°	6712.0	6822.2	7426.9	8883.1	11335.7	14824.6	19053.1	21198.7	24115.7	23918.1	19112.3
62.5°	5064.5	5028.1	5552.6	6773.9	9049.8	12944.9	18521.2	21577.6	25809.6	25662.1	20438.3
65°	3222.1	3348.7	3782.2	4731.2	6804.9	10572.5	17226.2	21549.3	27433.5	27361.5	21536.6
67.5°	2085.5	2081.9	2370.6	3113.7	4638.3	8017.0	14992.2	20939.1	28425.2	28398.8	22184.1
68°	1911.6	1910.7	2160.2	2825.9	4245.8	7507.9	14433.0	20712.4	28520.8	28490.8	22185.9
70°	1502.7	1500.9	1611.1	1905.2	2911.6	5547.2	11745.5	19375.5	28258.6	28252.2	21693.2
72.5°	1299.6	1295.9	1328.7	1397.9	1791.4	3535.4	8202.8	16732.6	26440.8	26347.0	20018.4
75°	1167.5	1163.0	1183.0	1179.4	1299.6	2162.9	5070.9	13508.6	22540.2	22249.7	15698.9
77.5°	1031.8	1026.4	1045.5	1043.7	1100.1	1452.6	2785.9	9674.5	16405.6	15453.0	9731.0
80°	878.8	874.3	897.1	902.5	965.4	1092.9	1439.8	5986.1	8539.8	7791.2	4081.8
82.5°	696.7	704.0	744.1	758.6	823.3	793.2	894.3	2785.0	3074.6	2701.2	1251.3
85°	439.9	461.7	562.8	585.6	636.6	507.3	617.5	1129.3	991.8	895.2	330.6
87.5°	163.9	182.1	322.4	325.1	324.2	204.9	315.1	398.9	318.8	288.7	102.9
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°	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1	4630.1
2.5°	4678.3	4562.7	4390.6	4232.1	4101.9	3998.9	3896.0	3855.1	3814.1	3807.7	3764.9
5°	4739.4	4533.5	4211.1	3966.2	3796.8	3679.3	3604.6	3571.8	3550.0	3541.8	3504.4
7.5°	4850.5	4549.9	4106.4	3821.4	3669.3	3599.1	3574.6	3571.8	3570.9	3572.7	3530.8
10°	5012.6	4618.2	4066.3	3774.9	3664.7	3631.9	3631.9	3641.0	3641.0	3647.4	3606.4
12.5°	5196.5	4702.9	4055.4	3782.2	3703.0	3678.4	3674.7	3681.1	3672.0	3673.8	3632.8
15°	5400.5	4804.0	4065.4	3805.0	3726.6	3689.3	3662.0	3649.2	3624.6	3613.7	3576.4
17.5°	5630.0	4922.4	4081.8	3811.3	3708.4	3642.9	3580.0	3536.3	3499.0	3494.4	3449.8
20°	5878.7	5049.9	4088.2	3779.5	3639.2	3535.4	3441.6	3376.9	3322.3	3298.6	3266.7
22.5°	6149.1	5178.3	4057.2	3686.6	3511.7	3376.0	3259.4	3174.8	3097.3	3070.0	3029.0
25°	6425.1	5295.8	3987.1	3560.0	3340.5	3183.9	3035.4	2925.2	2836.9	2800.4	2763.1
27.5°	6692.8	5387.8	3874.2	3393.3	3152.9	2970.8	2795.9	2662.0	2570.0	2540.0	2508.1
30°	6959.7	5463.4	3713.0	3213.0	2961.6	2753.1	2564.6	2435.3	2356.0	2307.8	2276.8
32.5°	7282.1	5539.9	3551.8	3027.2	2764.9	2539.1	2376.1	2275.9	2177.5	2120.1	2091.9
35°	7658.2	5625.5	3364.2	2837.8	2561.8	2356.9	2257.7	2127.4	2009.9	1966.2	1943.5
37.5°	8098.1	5708.4	3169.3	2647.4	2366.0	2241.3	2161.1	2001.8	1912.5	1887.0	1870.6
40°	8589.9	5783.9	2940.7	2459.8	2188.4	2156.6	2055.5	1928.0	1859.7	1826.0	1807.8
42.5°	9129.0	5845.9	2754.0	2263.1	2049.1	2054.6	1964.4	1890.6	1795.0	1754.9	1739.5
45°	9740.1	5939.7	2578.2	2069.1	1931.6	1931.6	1897.9	1820.5	1736.7	1712.1	1702.1
47.5°	10536.1	6069.9	2393.4	1906.1	1850.6	1820.5	1826.0	1730.4	1692.1	1668.4	1660.2
50°	11452.2	6174.6	2205.8	1793.2	1795.0	1753.1	1719.4	1674.8	1648.4	1622.9	1606.5
52.5°	12294.6	6176.5	2053.7	1730.4	1744.0	1705.8	1635.6	1622.9	1604.7	1563.7	1550.9
55°	13082.4	6144.6	1924.3	1697.6	1697.6	1655.7	1589.2	1578.3	1554.6	1514.5	1506.3
57.5°	13981.3	6109.1	1829.6	1686.6	1670.3	1591.9	1554.6	1540.9	1502.7	1479.0	1470.8
60°	14952.1	6056.3	1759.5	1688.5	1654.8	1540.9	1524.5	1503.6	1464.4	1447.1	1439.8
62.5°	15923.8	5903.3	1702.1	1694.8	1645.7	1514.5	1494.5	1467.2	1425.3	1411.6	1404.3
65°	16448.4	5500.7	1631.1	1687.6	1634.7	1499.0	1460.8	1423.4	1367.0	1361.5	1350.6
67.5°	16286.3	4833.2	1520.0	1633.8	1619.3	1478.1	1417.1	1357.0	1287.8	1310.5	1299.6
68°	16139.7	4670.1	1491.8	1615.6	1613.8	1473.5	1407.1	1340.6	1271.4	1301.4	1283.2
70°	15157.0	3976.2	1353.3	1511.8	1570.1	1454.4	1356.1	1274.1	1195.8	1252.2	1224.0
72.5°	13011.4	3064.6	1136.6	1325.1	1459.0	1421.6	1288.7	1170.3	1082.8	1086.5	1051.9
75°	9671.8	2119.2	913.4	1070.1	1285.0	1376.1	1209.4	1057.3	948.1	911.6	897.1
77.5°	5289.4	1382.5	713.1	812.4	1038.2	1256.8	1112.9	933.5	808.7	774.1	755.0
80°	2195.7	820.6	552.8	599.3	720.4	1072.8	1041.9	806.0	666.6	637.5	611.1
82.5°	726.8	502.7	409.8	406.2	470.8	836.0	918.9	634.8	511.8	532.8	440.8
85°	254.1	264.1	258.6	244.1	263.2	490.0	680.3	422.6	333.3	272.3	255.9
87.5°	71.0	95.6	96.5	76.5	78.3	112.9	306.9	193.1	117.5	78.3	69.2
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)