

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: P841505

Luminaire Tested: **ARCH4-190-722-U-T2R-HSS**

Issue Date: 5/27/2024

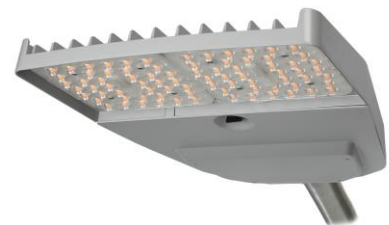
Test Information

Test Method: LM-79-08
Report Number: P841505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18131 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

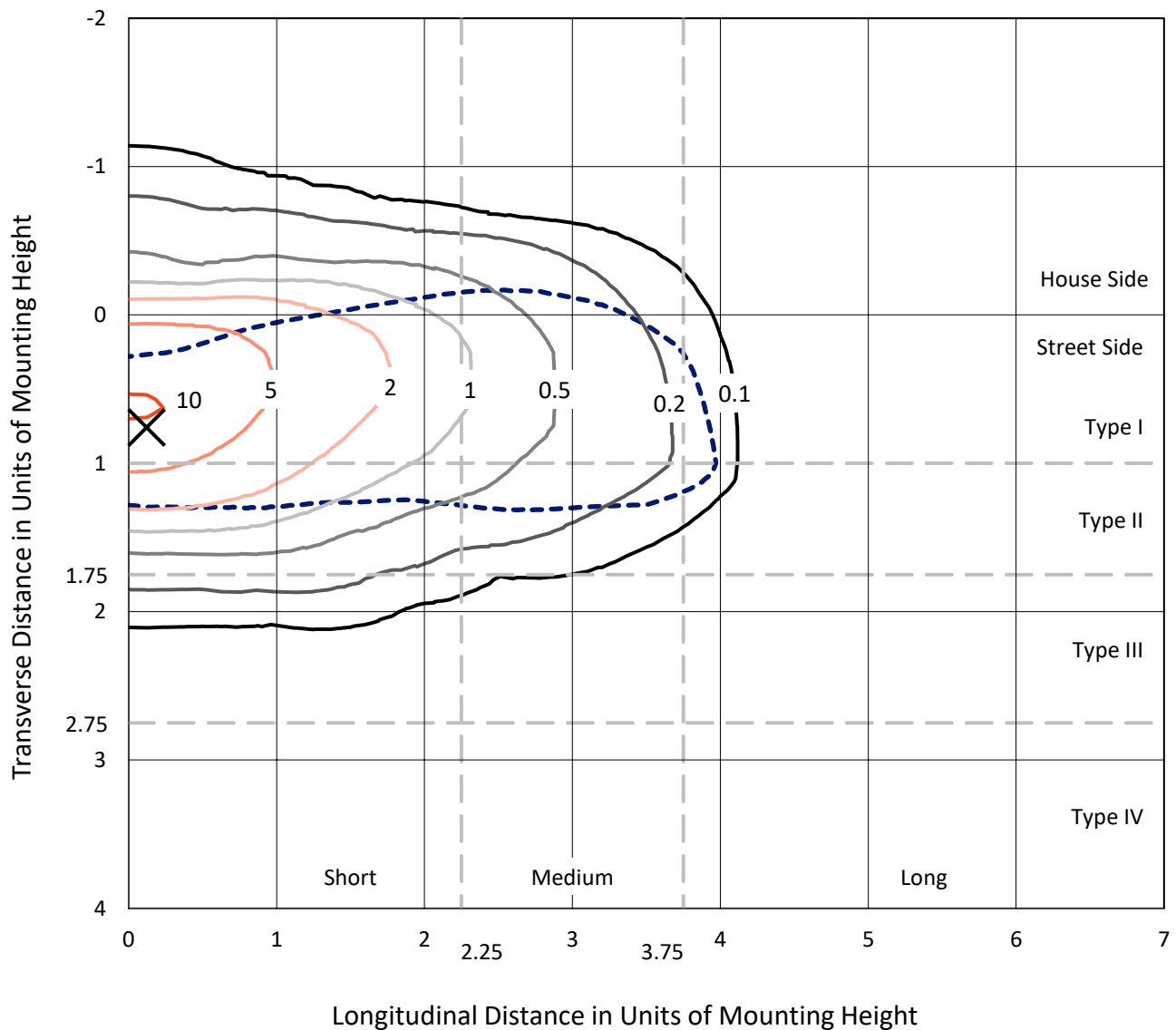
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

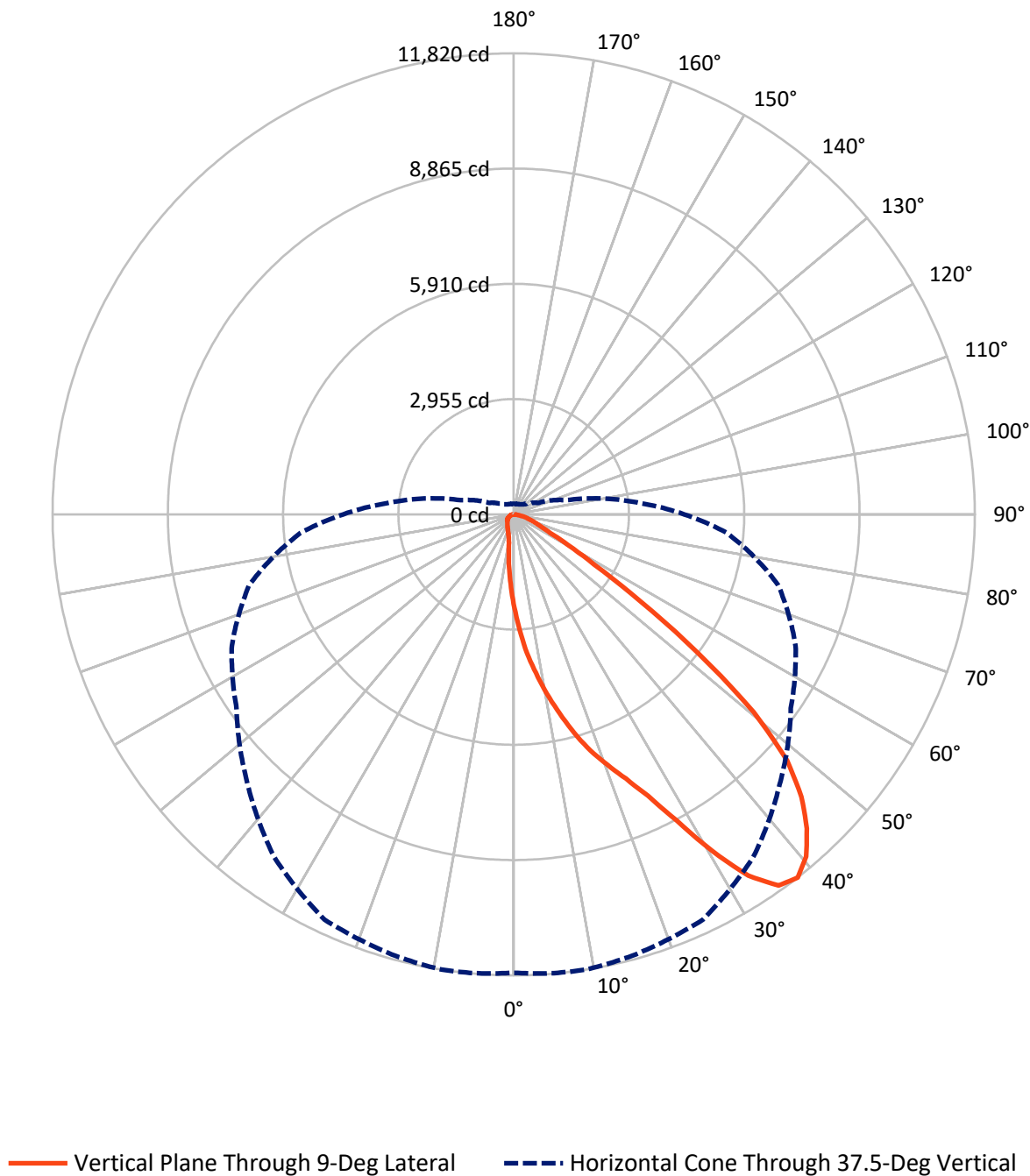
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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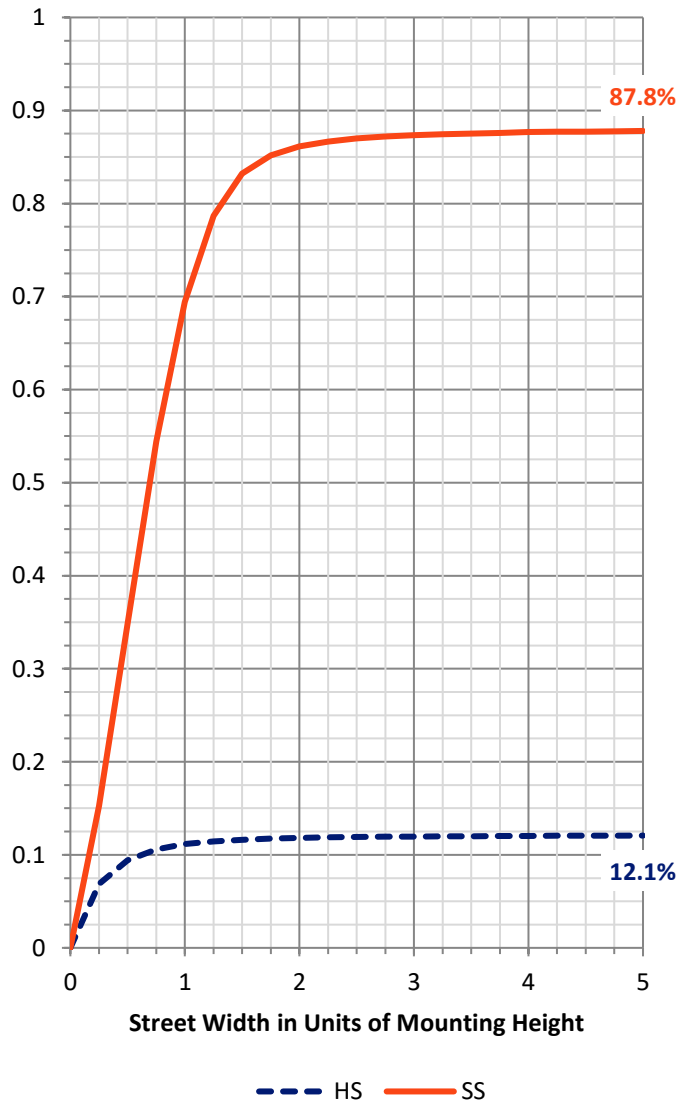
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.1	0.0	2205.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15925.9	0.0	15925.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	18131.0	0.0	18131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.3
10°-20°	837.3	4.6
20°-30°	1720.5	9.5
30°-40°	3041.1	16.8
40°-50°	4039.8	22.3
50°-60°	3831.5	21.1
60°-70°	2923.1	16.1
70°-80°	1417.1	7.8
80°-90°	79.8	0.4
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°	18131.0	100.0
0°-180°	18131.0	100.0

Coefficient of Utilization



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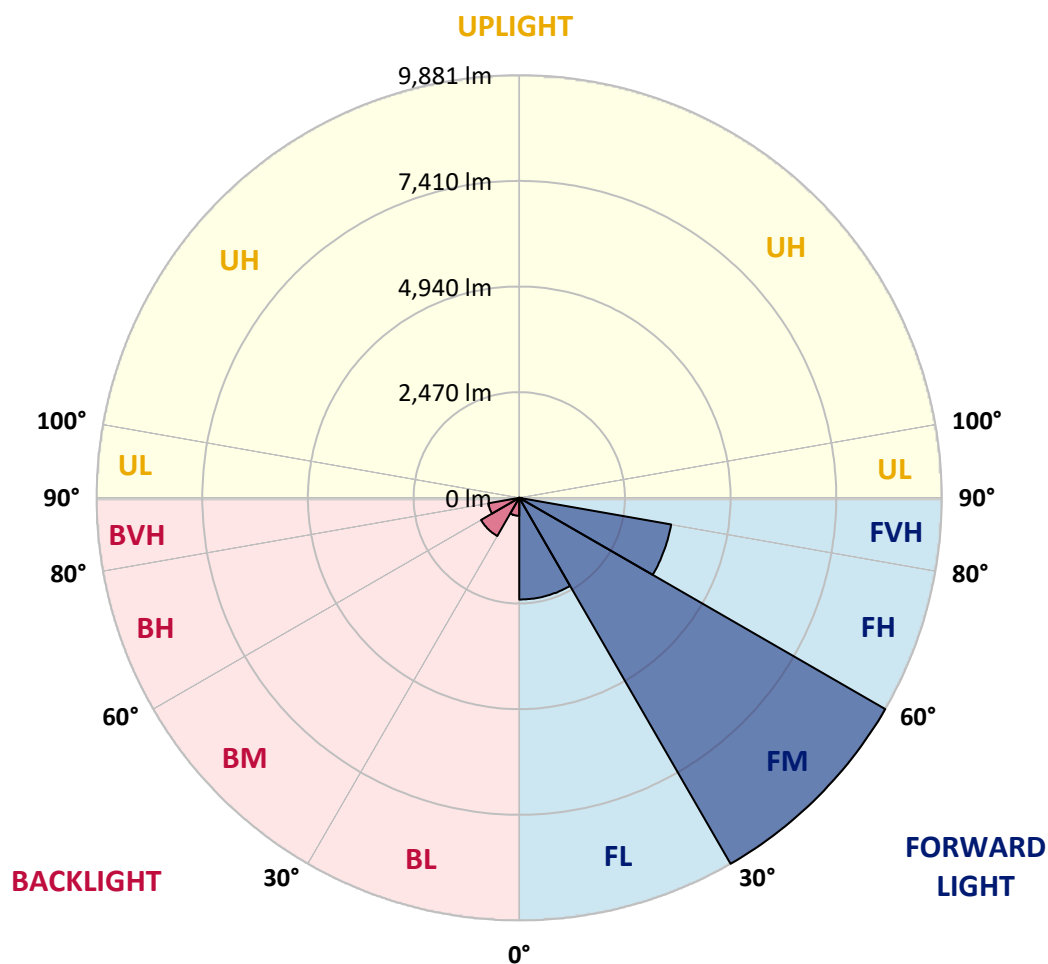
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2377.9	13.1			
FM	(30°-60°)	9880.5	54.5			
FH	(60°-80°)	3604.4	19.9			G2/5000
FVH	(80°-90°)	63.2	0.3			G1/100
BL	(0°-30°)	420.8	2.3	B1/500		
BM	(30°-60°)	1031.8	5.7	B2/2500		
BH	(60°-80°)	735.8	4.1	B2/1000		G2/1000
BVH	(80°-90°)	16.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7
2.5°	2969.8	2917.7	2977.3	2969.8	2917.7	2884.2	2780.0	2746.5	2623.7	2534.4	2456.2
5°	3580.2	3528.1	3580.2	3565.3	3490.8	3409.0	3237.8	3126.1	2906.6	2713.0	2538.1
7.5°	4086.3	4086.3	4108.6	4112.3	4023.0	3896.5	3684.4	3516.9	3208.0	2910.3	2631.2
10°	4633.4	4637.1	4685.5	4652.0	4532.9	4361.7	4093.7	3881.6	3509.5	3118.7	2720.5
12.5°	5217.7	5221.4	5236.3	5221.4	5080.0	4860.4	4536.6	4257.5	3829.5	3356.9	2843.3
15°	5801.9	5805.7	5824.3	5798.2	5641.9	5385.1	5016.7	4674.3	4168.2	3624.8	2992.2
17.5°	6349.0	6356.5	6371.3	6337.9	6174.1	5868.9	5493.1	5080.0	4529.2	3911.4	3159.6
20°	6840.3	6847.7	6858.9	6814.2	6650.5	6345.3	5939.6	5507.9	4897.6	4205.4	3342.0
22.5°	7335.2	7342.7	7361.3	7301.7	7119.4	6769.6	6371.3	5924.8	5288.4	4529.2	3554.1
25°	7967.9	7975.4	7990.2	7904.6	7655.3	7245.9	6825.4	6367.6	5712.6	4893.9	3814.6
27.5°	8894.6	8887.1	8887.1	8730.8	8302.8	7770.7	7283.1	6817.9	6170.4	5284.6	4101.2
30°	10040.8	10022.2	10011.1	9798.9	9188.6	8362.4	7752.1	7238.5	6609.5	5697.7	4410.1
32.5°	11068.0	11068.0	11045.7	10822.4	10174.8	9158.8	8250.7	7647.9	7033.8	6114.6	4730.1
35°	11674.6	11700.7	11689.5	11522.0	11049.4	10014.8	8924.4	8139.1	7480.4	6550.0	5113.5
37.5°	11756.5	11808.6	11819.7	11719.3	11469.9	10714.4	9672.4	8671.3	7971.6	7018.9	5485.6
40°	11425.3	11536.9	11536.9	11522.0	11432.7	11045.7	10301.3	9289.1	8477.8	7506.4	5861.5
42.5°	10915.4	11030.8	11015.9	11071.7	11049.4	10967.5	10654.9	9865.9	8983.9	8008.8	6203.9
45°	10249.2	10368.3	10338.6	10439.0	10483.7	10573.0	10617.7	10267.8	9482.6	8555.9	6587.2
47.5°	9181.1	9382.1	9426.8	9605.4	9791.5	10070.6	10282.7	10413.0	9947.8	9143.9	7004.0
50°	7603.2	7886.0	7975.4	8351.2	8861.1	9437.9	9780.3	10234.4	10275.3	9746.8	7454.3
52.5°	5444.7	5772.2	5909.9	6527.7	7577.1	8582.0	9199.8	9839.9	10401.8	10323.7	7941.9
55°	3520.6	3799.7	3933.7	4514.3	5909.9	7487.8	8515.0	9330.0	10331.1	10852.1	8500.1
57.5°	2169.7	2329.7	2419.0	2917.7	4201.7	6084.8	7618.1	8861.1	10115.3	11309.9	9080.7
60°	1462.6	1555.6	1600.3	1834.7	2854.5	4547.8	6386.2	8369.8	9832.4	11618.8	9609.1
62.5°	971.3	1001.1	1045.8	1190.9	1883.1	3193.1	4905.0	7491.5	9620.3	11637.4	9999.9
65°	751.8	766.6	785.3	848.5	1161.1	2232.9	3449.9	6069.9	9304.0	11242.9	10122.7
67.5°	591.7	606.6	628.9	662.4	841.1	1514.7	2348.3	4447.3	8656.4	10625.1	9921.7
70°	465.2	476.4	491.2	521.0	655.0	1097.9	1551.9	2954.9	7350.1	10037.1	9289.1
72.5°	368.4	379.6	394.5	424.3	532.2	803.9	1064.4	1842.2	5668.0	9318.8	8072.1
75°	290.3	297.7	308.9	338.7	428.0	625.2	722.0	1101.6	3851.8	8005.1	6289.5
77.5°	145.1	178.6	204.7	234.5	312.6	431.7	480.1	610.3	1626.3	4108.6	2999.6
80°	85.6	104.2	111.6	130.3	204.7	260.5	260.5	245.6	513.6	1578.0	1224.4
82.5°	48.4	67.0	70.7	74.4	122.8	148.9	119.1	89.3	104.2	528.5	357.3
85°	14.9	22.3	26.1	29.8	40.9	44.7	40.9	37.2	29.8	52.1	33.5
87.5°	0.0	0.0	0.0	0.0	3.7	7.4	7.4	7.4	11.2	11.2	11.2
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°	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7	2396.7
2.5°	2411.6	2363.2	2270.2	2184.6	2102.7	2043.1	1987.3	1935.2	1898.0	1868.2	1864.5
5°	2445.1	2348.3	2169.7	2002.2	1849.6	1723.1	1615.2	1529.6	1466.3	1421.6	1417.9
7.5°	2489.7	2340.9	2069.2	1819.9	1592.8	1410.5	1254.2	1138.8	1056.9	1023.4	997.4
10°	2527.0	2333.4	1968.7	1637.5	1339.8	1109.0	923.0	807.6	748.0	725.7	714.5
12.5°	2590.2	2340.9	1883.1	1470.0	1120.2	848.5	707.1	643.8	617.8	599.2	595.5
15°	2683.3	2374.4	1801.2	1306.3	896.9	684.8	602.9	562.0	535.9	532.2	528.5
17.5°	2776.3	2404.1	1726.8	1138.8	744.3	595.5	539.6	506.1	487.5	483.8	483.8
20°	2884.2	2441.4	1644.9	978.8	636.4	535.9	491.2	465.2	442.9	439.1	439.1
22.5°	3010.8	2493.5	1566.8	837.4	565.7	491.2	454.0	424.3	405.7	401.9	401.9
25°	3182.0	2571.6	1503.5	733.2	517.3	454.0	420.5	394.5	379.6	372.2	372.2
27.5°	3371.8	2679.5	1458.9	669.9	483.8	424.3	390.8	368.4	353.6	346.1	346.1
30°	3583.9	2798.6	1429.1	643.8	465.2	398.2	368.4	346.1	327.5	323.8	323.8
32.5°	3818.3	2936.3	1410.5	647.6	461.5	379.6	346.1	323.8	308.9	301.4	301.4
35°	4078.9	3088.9	1399.3	669.9	468.9	364.7	327.5	305.2	290.3	282.8	282.8
37.5°	4369.1	3267.5	1399.3	692.2	487.5	361.0	308.9	286.6	275.4	268.0	268.0
40°	4640.8	3457.3	1414.2	718.3	506.1	361.0	294.0	275.4	260.5	253.1	253.1
42.5°	4852.9	3565.3	1425.4	744.3	517.3	357.3	279.1	260.5	249.3	241.9	241.9
45°	5094.8	3680.6	1403.0	755.5	517.3	349.8	268.0	249.3	238.2	230.7	230.7
47.5°	5362.8	3822.1	1399.3	762.9	506.1	334.9	256.8	238.2	230.7	223.3	223.3
50°	5634.5	3978.4	1406.8	759.2	491.2	312.6	241.9	230.7	219.6	212.1	212.1
52.5°	5943.4	4142.1	1421.6	751.8	457.8	286.6	230.7	219.6	208.4	201.0	197.2
55°	6285.8	4320.8	1451.4	736.9	413.1	260.5	219.6	208.4	193.5	186.1	182.4
57.5°	6680.2	4540.3	1484.9	707.1	364.7	238.2	208.4	193.5	171.2	160.0	156.3
60°	7056.1	4789.7	1522.1	636.4	316.3	215.9	197.2	174.9	152.6	145.1	141.4
62.5°	7409.7	5035.3	1540.7	509.9	268.0	197.2	186.1	160.0	137.7	130.3	126.5
65°	7636.7	5303.3	1499.8	346.1	219.6	182.4	171.2	148.9	126.5	115.4	115.4
67.5°	7651.6	5429.8	1358.4	227.0	178.6	163.7	156.3	134.0	111.6	104.2	100.5
70°	7275.7	5240.0	1038.3	178.6	148.9	141.4	141.4	119.1	96.8	89.3	85.6
72.5°	6412.3	4640.8	662.4	145.1	126.5	119.1	119.1	100.5	85.6	74.4	70.7
75°	5061.4	3580.2	353.6	119.1	104.2	100.5	93.0	81.9	70.7	63.3	59.5
77.5°	2326.0	1578.0	163.7	85.6	78.2	78.2	70.7	59.5	55.8	48.4	48.4
80°	919.2	535.9	81.9	55.8	52.1	52.1	52.1	40.9	40.9	33.5	29.8
82.5°	253.1	111.6	40.9	33.5	33.5	33.5	29.8	26.1	26.1	22.3	22.3
85°	26.1	18.6	18.6	18.6	18.6	14.9	14.9	11.2	7.4	7.4	7.4
87.5°	11.2	11.2	11.2	11.2	11.2	7.4	3.7	0.0	0.0	0.0	0.0
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)