

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: P841238

Luminaire Tested: **ARCH4-150-730-U-T2U**

Issue Date: 5/27/2024

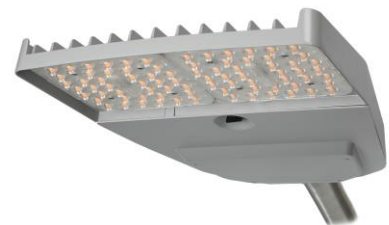
Test Information

Test Method: LM-79-08
Report Number: P841238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

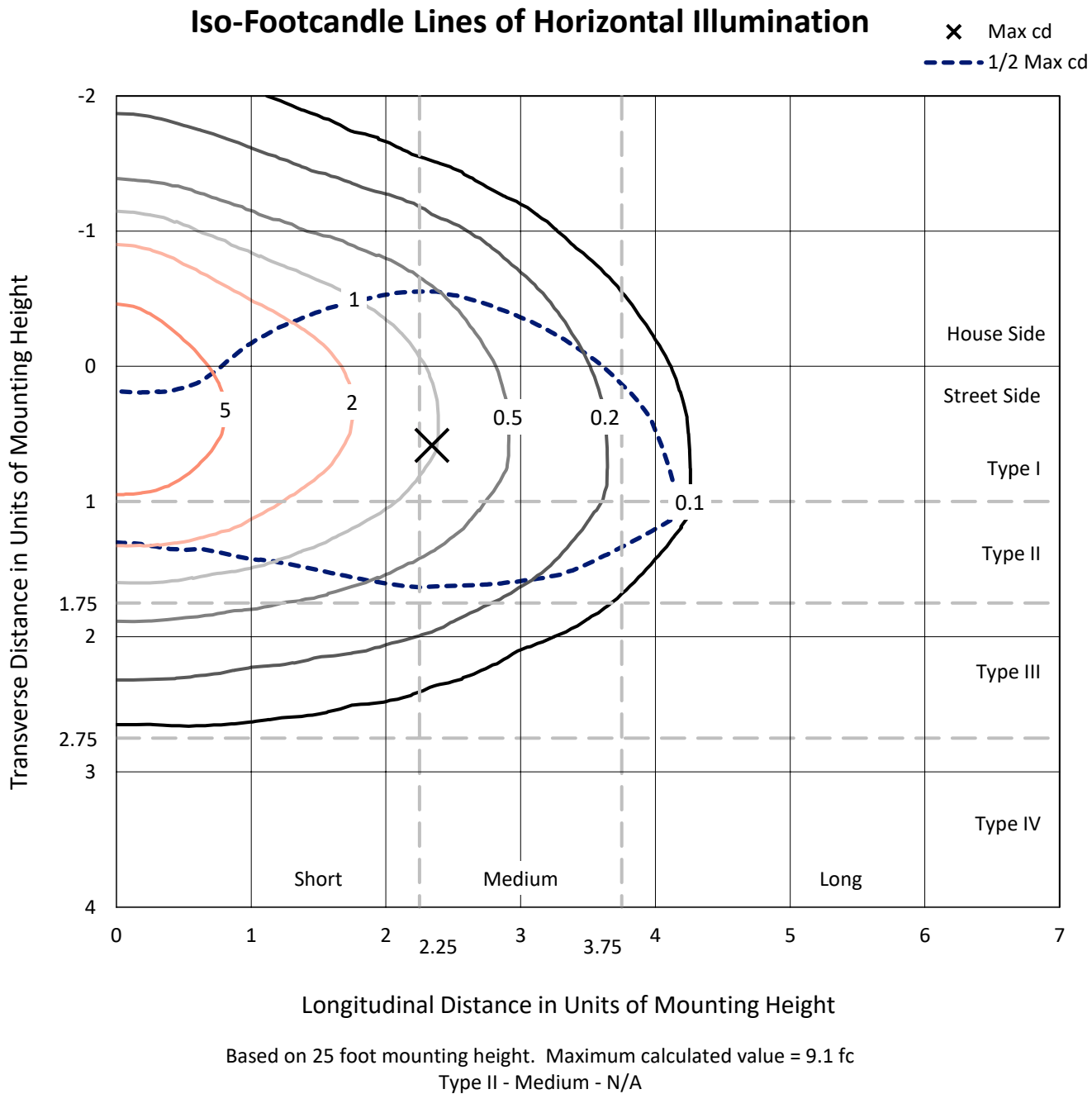
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24768 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.8
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

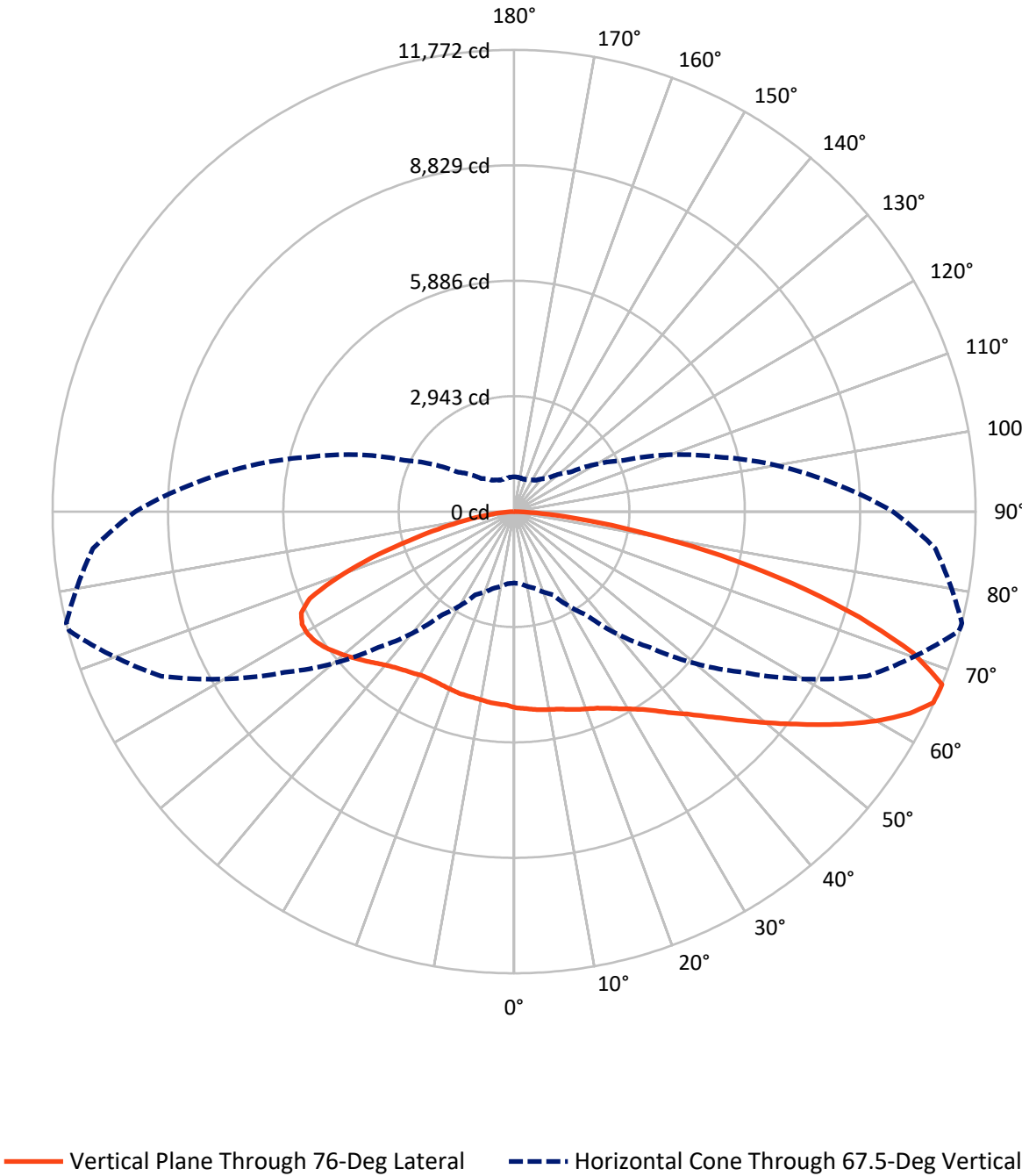


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Luminous Intensity Polar Plot



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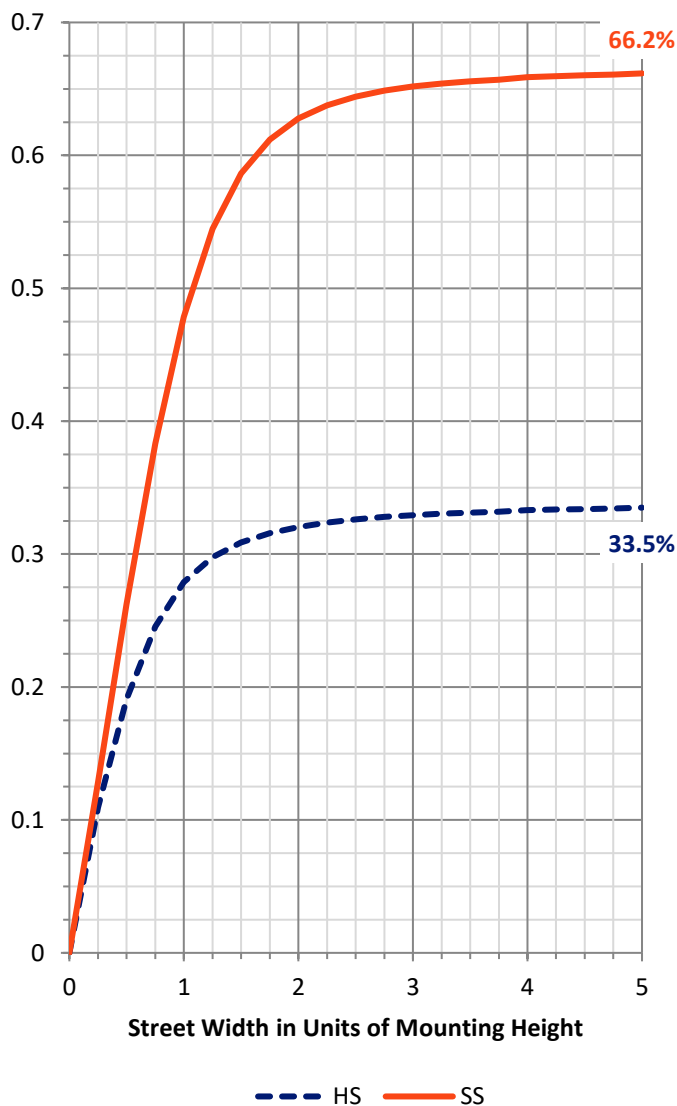
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8369.2	0.0	8369.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	16398.8	0.0	16398.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	24768.0	0.0	24768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	1.9
10°-20°	1474.9	6.0
20°-30°	2505.9	10.1
30°-40°	3565.6	14.4
40°-50°	4503.1	18.2
50°-60°	4875.5	19.7
60°-70°	4534.8	18.3
70°-80°	2435.6	9.8
80°-90°	390.3	1.6
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°	24768.0	100.0
0°-180°	24768.0	100.0

Coefficient of Utilization



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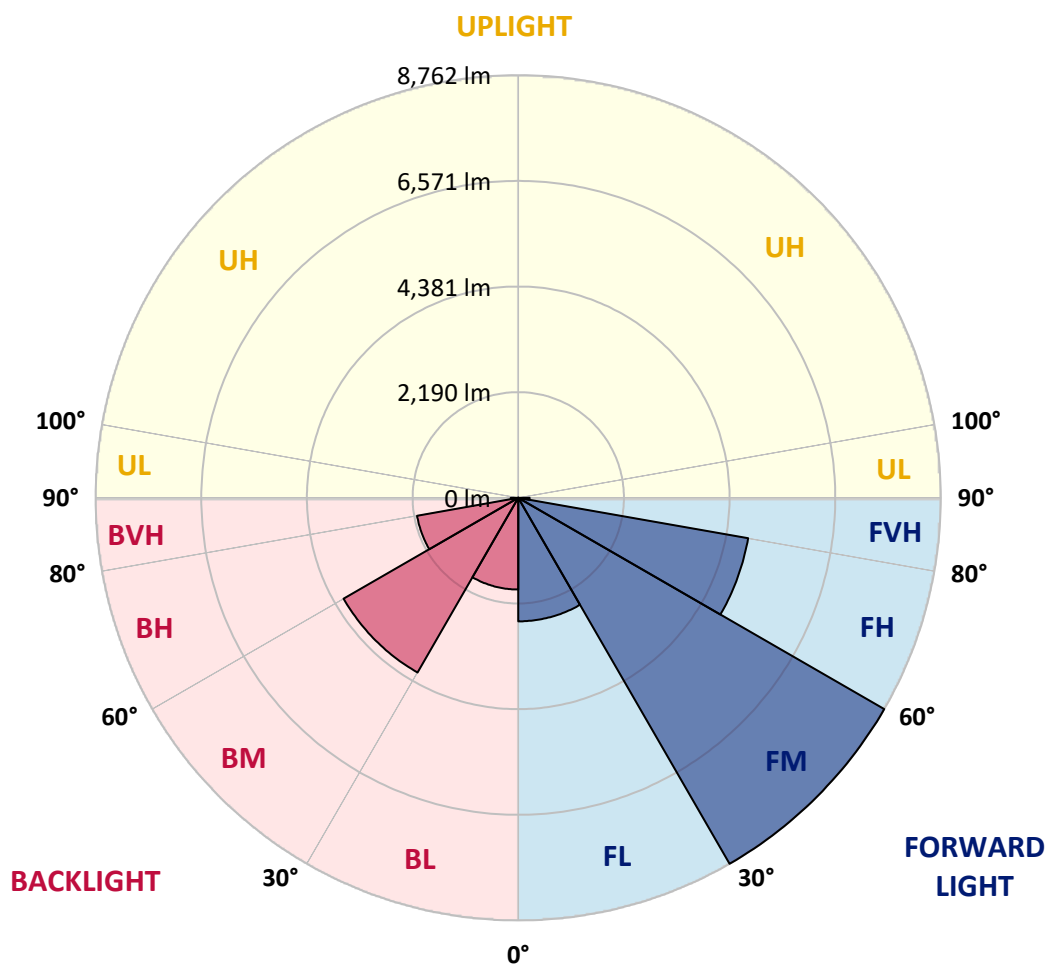
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2561.3	10.3			
FM	(30°-60°)	8762.0	35.4			
FH	(60°-80°)	4839.4	19.5			G2/5000
FVH	(80°-90°)	236.1	1.0			G3/500
BL	(0°-30°)	1901.9	7.7	B3/2500		
BM	(30°-60°)	4182.2	16.9	B3/5000		
BH	(60°-80°)	2130.9	8.6	B3/2500		G3/2500
BVH	(80°-90°)	154.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1
2.5°	5154.8	5145.6	5108.8	5113.4	5113.4	5108.8	5053.7	5030.7	5030.7	5026.1	4975.5
5°	5338.8	5325.0	5283.6	5274.4	5256.0	5233.0	5145.6	5095.0	5072.1	5067.5	4998.5
7.5°	5554.9	5536.5	5485.9	5458.3	5412.3	5352.6	5242.2	5164.0	5108.8	5104.2	5007.7
10°	5771.0	5752.6	5692.8	5642.3	5577.9	5481.3	5338.8	5223.8	5136.4	5127.2	5012.3
12.5°	6028.5	6010.1	5936.6	5872.2	5775.6	5646.9	5458.3	5302.0	5182.4	5168.6	5026.1
15°	6299.8	6272.2	6198.7	6125.1	6005.5	5840.0	5614.7	5407.7	5256.0	5233.0	5067.5
17.5°	6525.2	6488.4	6428.6	6355.0	6221.7	6028.5	5771.0	5513.5	5325.0	5306.6	5108.8
20°	6718.3	6690.7	6626.3	6557.3	6414.8	6203.3	5918.2	5619.3	5389.3	5366.4	5141.0
22.5°	6902.2	6865.4	6828.7	6778.1	6621.7	6387.2	6088.3	5748.0	5472.1	5444.5	5182.4
25°	7113.8	7072.4	7058.6	7031.0	6847.0	6607.9	6295.2	5909.0	5587.1	5554.9	5256.0
27.5°	7375.9	7329.9	7302.3	7302.3	7081.6	6833.3	6516.0	6097.5	5720.4	5692.8	5348.0
30°	7651.8	7596.6	7555.2	7555.2	7306.9	7058.6	6732.1	6286.0	5872.2	5840.0	5467.5
32.5°	7895.5	7840.3	7794.3	7789.7	7532.2	7283.9	6957.4	6493.0	6056.1	6014.7	5614.7
35°	8084.0	8033.4	7992.1	8001.3	7757.5	7513.8	7210.3	6768.9	6286.0	6240.1	5807.8
37.5°	8199.0	8180.6	8157.6	8189.8	7964.5	7734.5	7472.4	7035.6	6548.2	6506.8	6046.9
40°	8258.8	8245.0	8336.9	8378.3	8139.2	7932.3	7734.5	7311.5	6833.3	6787.3	6322.8
42.5°	8346.1	8461.1	8497.9	8488.7	8268.0	8084.0	7973.7	7610.4	7168.9	7127.6	6653.9
45°	8033.4	8005.8	8208.2	8318.5	8277.2	8180.6	8199.0	7969.1	7559.8	7518.4	7035.6
47.5°	7615.0	7578.2	7693.2	7964.5	8125.4	8217.4	8401.3	8341.5	8010.4	7973.7	7481.6
50°	6732.1	6782.7	7210.3	7573.6	7890.9	8208.2	8571.5	8741.6	8507.1	8470.3	7959.9
52.5°	5752.6	5803.2	6249.3	7086.2	7605.8	8139.2	8695.6	9141.7	9045.1	9003.7	8470.3
55°	5039.9	5150.2	5656.1	6263.0	7201.1	7923.1	8769.2	9550.9	9624.5	9587.7	9026.7
57.5°	4331.7	4414.5	4796.2	5334.2	6649.3	7546.0	8764.6	9932.6	10231.5	10194.7	9592.3
60°	3499.4	3605.2	3908.7	4488.1	5913.6	7095.4	8635.8	10231.5	10815.5	10787.9	10139.5
62.5°	2929.2	2961.4	3177.5	3678.7	4966.3	6525.2	8346.1	10392.4	11344.3	11325.9	10631.5
65°	2359.0	2363.6	2561.3	2979.8	4051.2	5817.0	7854.1	10332.7	11744.4	11753.6	10985.6
67.5°	1821.0	1844.0	2023.3	2340.6	3218.9	4897.3	7150.5	9928.0	11749.0	11772.0	10783.3
70°	1260.0	1278.4	1549.7	1857.8	2487.7	3904.1	6198.7	8856.6	10783.3	10801.7	9665.9
72.5°	887.5	896.7	1186.4	1485.3	1945.1	2943.0	4676.6	7325.3	9192.2	9206.0	8130.0
75°	662.2	671.4	836.9	1126.6	1489.9	2037.1	3195.9	5610.1	7343.7	7343.7	6419.4
77.5°	469.0	473.6	542.6	777.1	993.3	1374.9	1922.1	3674.1	5389.3	5398.5	4676.6
80°	317.3	321.9	354.1	524.2	620.8	744.9	1043.8	1926.7	3398.2	3412.0	2970.6
82.5°	165.5	174.7	197.7	266.7	312.7	413.9	538.0	979.5	1880.8	1917.5	1784.2
85°	64.4	64.4	73.6	87.4	115.0	160.9	248.3	372.5	850.7	878.3	786.3
87.5°	23.0	23.0	27.6	27.6	32.2	36.8	41.4	55.2	96.6	96.6	92.0
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°	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1
2.5°	4957.1	4957.1	4934.1	4943.3	4938.7	4929.5	4920.3	4934.1	4920.3	4888.1	4883.5
5°	4966.3	4957.1	4920.3	4915.7	4901.9	4883.5	4860.5	4869.7	4846.7	4819.1	4814.5
7.5°	4970.9	4952.5	4901.9	4883.5	4855.9	4819.1	4782.4	4782.4	4750.2	4722.6	4718.0
10°	4961.7	4938.7	4869.7	4832.9	4782.4	4727.2	4676.6	4662.8	4626.0	4593.8	4593.8
12.5°	4966.3	4934.1	4846.7	4787.0	4718.0	4649.0	4584.6	4566.2	4534.0	4501.9	4497.3
15°	4993.9	4947.9	4837.5	4759.4	4658.2	4580.0	4511.1	4497.3	4469.7	4446.7	4446.7
17.5°	5021.5	4961.7	4823.7	4713.4	4589.2	4501.9	4437.5	4437.5	4419.1	4405.3	4405.3
20°	5035.3	4966.3	4796.2	4649.0	4506.5	4414.5	4354.7	4363.9	4359.3	4354.7	4354.7
22.5°	5067.5	4975.5	4773.2	4589.2	4419.1	4322.5	4267.3	4281.1	4276.5	4276.5	4281.1
25°	5118.0	4998.5	4754.8	4534.0	4336.3	4230.5	4170.8	4180.0	4180.0	4180.0	4180.0
27.5°	5187.0	5044.5	4750.2	4483.5	4253.5	4134.0	4060.4	4060.4	4042.0	4046.6	4051.2
30°	5292.8	5131.8	4759.4	4437.5	4166.2	4014.4	3927.1	3913.3	3908.7	3917.9	3922.5
32.5°	5421.5	5251.4	4814.5	4405.3	4074.2	3881.1	3770.7	3766.1	3752.3	3752.3	3752.3
35°	5582.5	5366.4	4865.1	4400.7	3982.2	3738.5	3619.0	3605.2	3573.0	3559.2	3559.2
37.5°	5789.4	5545.7	4924.9	4368.5	3904.1	3600.6	3458.0	3412.0	3375.2	3370.6	3370.6
40°	6042.3	5748.0	5012.3	4331.7	3821.3	3458.0	3269.5	3191.3	3195.9	3214.3	3214.3
42.5°	6341.2	5996.3	5122.6	4313.3	3701.7	3310.9	3048.8	2956.8	2989.0	3007.4	3012.0
45°	6690.7	6290.6	5246.8	4290.3	3591.4	3145.3	2814.2	2699.3	2713.1	2717.7	2722.3
47.5°	7095.4	6617.1	5375.6	4271.9	3467.2	2938.4	2556.7	2405.0	2400.4	2372.8	2382.0
50°	7518.4	6962.0	5508.9	4239.7	3315.5	2694.7	2285.4	2106.1	2069.3	2027.9	2032.5
52.5°	7969.1	7316.1	5633.1	4189.2	3126.9	2446.4	2027.9	1834.8	1761.2	1715.2	1724.4
55°	8465.7	7679.4	5752.6	4111.0	2929.2	2198.0	1798.0	1600.3	1508.3	1471.5	1476.1
57.5°	8920.9	8028.8	5840.0	4014.4	2713.1	1972.7	1595.7	1402.5	1342.7	1338.1	1342.7
60°	9362.4	8323.1	5876.8	3881.1	2492.3	1765.8	1407.1	1260.0	1218.6	1241.6	1246.2
62.5°	9734.9	8511.7	5858.4	3701.7	2267.0	1568.1	1255.4	1149.6	1122.0	1168.0	1172.6
65°	9951.0	8571.5	5729.6	3444.2	2023.3	1374.9	1112.8	997.9	984.1	1011.7	1025.4
67.5°	9665.9	8199.0	5380.2	3090.1	1752.0	1195.6	974.9	882.9	859.9	882.9	882.9
70°	8566.9	7104.6	4552.4	2529.1	1453.1	1020.8	846.1	781.7	763.3	781.7	777.1
72.5°	7136.7	5909.0	3586.8	1972.7	1145.0	859.9	735.7	676.0	657.6	639.2	630.0
75°	5536.5	4488.1	2602.7	1448.5	864.5	689.8	616.2	561.0	515.0	533.4	524.2
77.5°	4055.8	3149.9	1844.0	1002.5	620.8	533.4	482.8	441.4	409.3	446.0	441.4
80°	2611.9	2037.1	1232.4	671.4	427.7	372.5	354.1	331.1	363.3	473.6	482.8
82.5°	1595.7	1292.2	735.7	436.8	280.5	248.3	229.9	229.9	372.5	409.3	413.9
85°	712.8	685.2	400.1	225.3	156.3	142.6	128.8	165.5	151.7	110.4	115.0
87.5°	115.0	119.6	87.4	78.2	59.8	59.8	46.0	32.2	23.0	13.8	13.8
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)