

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: P841440

Luminaire Tested: **ARCH4-180-722-U-T4W**

Issue Date: 5/27/2024

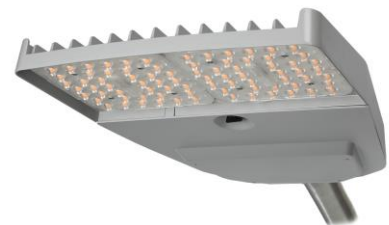
Test Information

Test Method: LM-79-08
Report Number: P841440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24393 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180
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



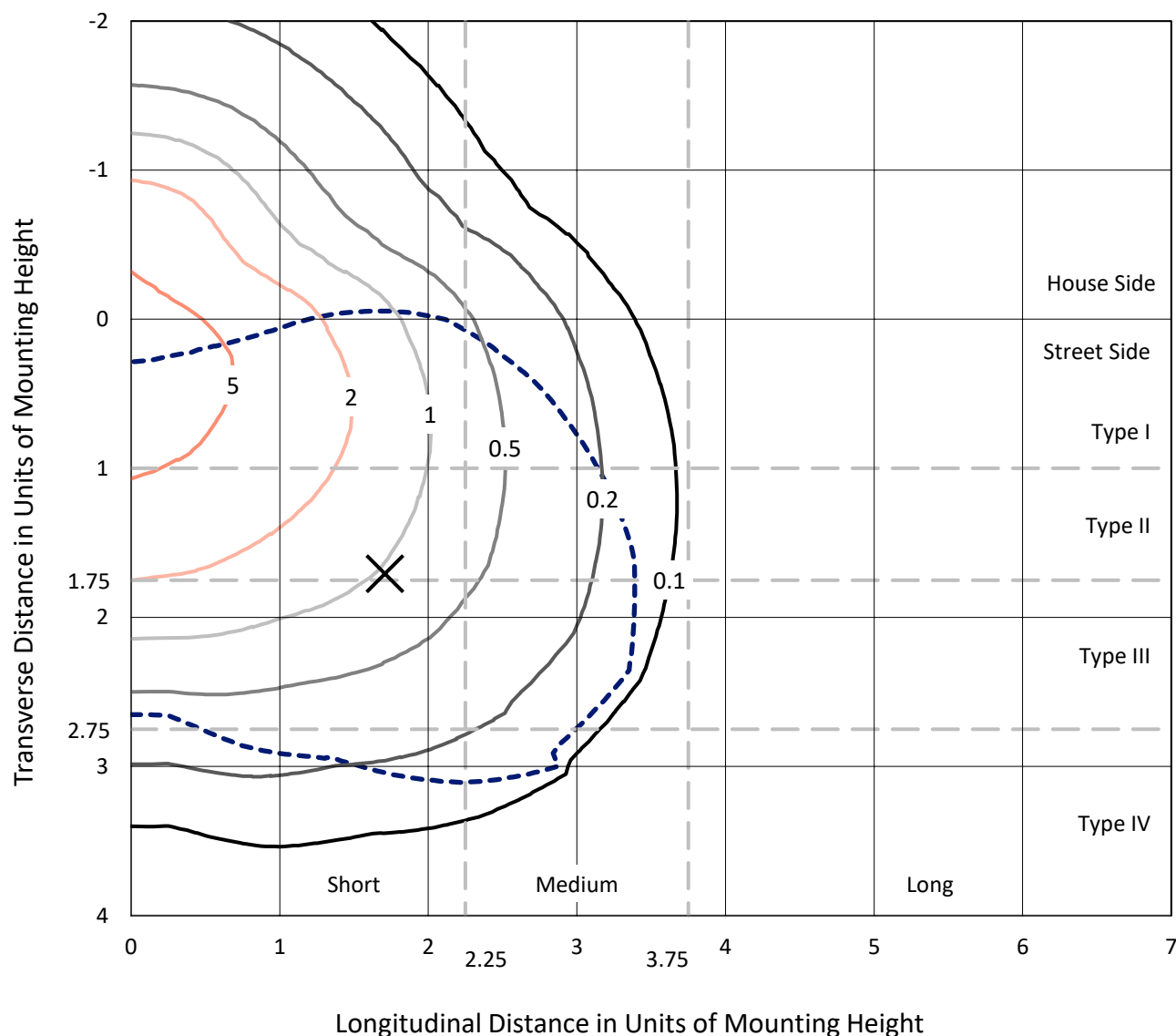
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

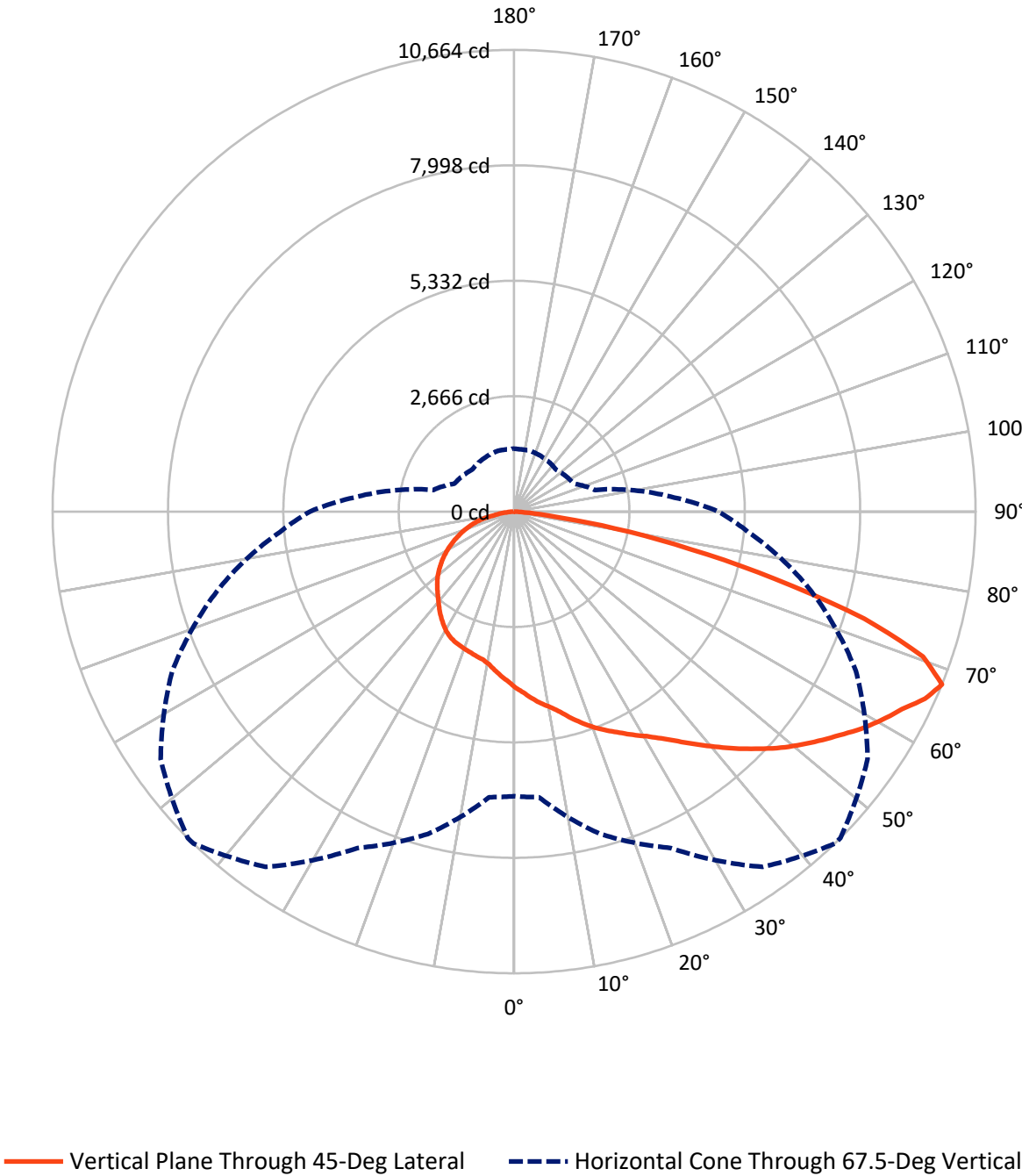


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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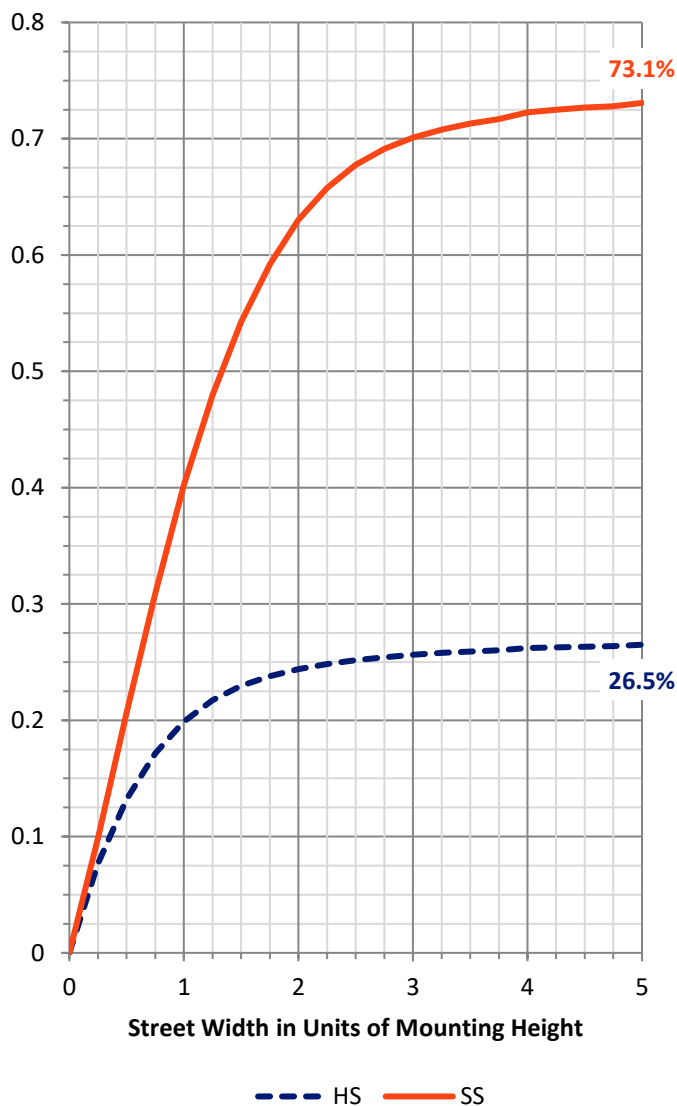
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6516.6	0.0	6516.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17876.4	0.0	17876.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	24393.0	0.0	24393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.6
10°-20°	1203.3	4.9
20°-30°	2077.0	8.5
30°-40°	3062.8	12.6
40°-50°	4149.5	17.0
50°-60°	5071.7	20.8
60°-70°	5230.8	21.4
70°-80°	2865.0	11.7
80°-90°	343.4	1.4
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°	24393.0	100.0
0°-180°	24393.0	100.0

Coefficient of Utilization



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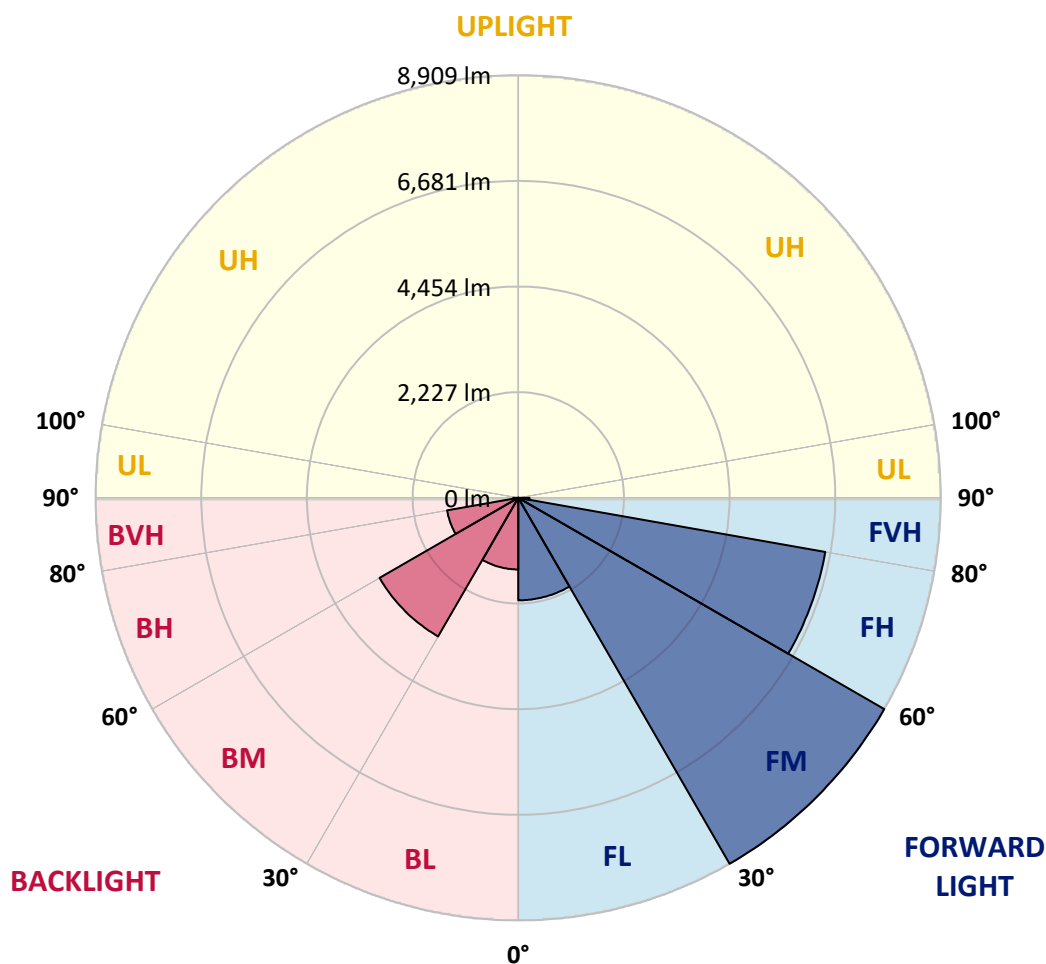
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2159.4	8.9			
FM	(30°-60°)	8908.6	36.5			
FH	(60°-80°)	6571.8	26.9			G3/7500
FVH	(80°-90°)	236.6	1.0			G3/500
BL	(0°-30°)	1510.3	6.2	B3/2500		
BM	(30°-60°)	3375.5	13.8	B3/5000		
BH	(60°-80°)	1524.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	106.8	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3
2.5°	4246.5	4242.8	4250.2	4224.2	4190.8	4187.1	4187.1	4164.8	4138.8	4086.8	4046.0
5°	4446.9	4439.5	4443.2	4406.1	4361.5	4339.3	4335.5	4287.3	4227.9	4146.2	4072.0
7.5°	4632.5	4625.1	4621.4	4580.5	4513.7	4476.6	4472.9	4402.4	4331.8	4205.6	4098.0
10°	4807.0	4799.5	4792.1	4736.4	4654.8	4599.1	4591.7	4502.6	4413.5	4257.6	4120.3
12.5°	5029.7	5014.8	5007.4	4940.6	4821.8	4762.4	4751.3	4632.5	4521.1	4331.8	4164.8
15°	5263.5	5252.4	5241.3	5178.2	5044.5	4966.6	4948.0	4799.5	4647.4	4428.3	4231.6
17.5°	5438.0	5426.9	5426.9	5371.2	5248.7	5159.6	5144.8	4966.6	4777.3	4517.4	4283.6
20°	5545.6	5534.5	5545.6	5512.2	5419.4	5345.2	5330.4	5133.6	4907.2	4599.1	4328.1
22.5°	5623.6	5612.5	5631.0	5616.2	5549.4	5504.8	5493.7	5300.7	5040.8	4684.5	4372.7
25°	5760.9	5760.9	5760.9	5735.0	5671.8	5657.0	5657.0	5490.0	5211.6	4795.8	4439.5
27.5°	6035.6	6020.8	6002.2	5928.0	5820.3	5816.6	5838.9	5683.0	5408.3	4940.6	4521.1
30°	6440.2	6432.8	6362.3	6206.4	6024.5	6005.9	6020.8	5890.9	5619.9	5092.8	4613.9
32.5°	6963.6	6937.6	6792.9	6559.0	6299.2	6213.8	6243.5	6106.1	5842.6	5248.7	4703.0
35°	7334.8	7342.2	7238.3	7026.7	6718.6	6492.2	6514.5	6347.4	6083.9	5423.1	4814.4
37.5°	7761.7	7787.7	7631.8	7472.1	7186.3	6800.3	6822.6	6596.1	6325.2	5642.2	4933.2
40°	8351.9	8299.9	8036.4	7847.0	7531.5	7123.2	7141.8	6874.5	6603.5	5850.0	5070.5
42.5°	8845.6	8752.8	8433.5	8192.3	7813.6	7464.7	7483.3	7175.2	6885.7	6080.2	5222.7
45°	9554.5	9298.4	8838.1	8719.4	8103.2	7798.8	7817.4	7494.4	7182.6	6325.2	5386.0
47.5°	9966.6	9558.3	9265.0	9201.9	8422.4	8144.0	8166.3	7832.2	7501.8	6603.5	5556.8
50°	9940.6	9677.0	9591.7	9435.8	8704.5	8466.9	8489.2	8181.1	7824.8	6878.2	5720.1
52.5°	9769.8	9818.1	9773.5	9513.7	8986.6	8778.7	8804.7	8526.3	8155.1	7134.4	5872.3
55°	10033.4	10066.8	9981.4	9639.9	9298.4	9090.5	9120.2	8890.1	8481.8	7360.8	6002.2
57.5°	10348.9	10230.1	10144.7	9862.6	9621.4	9428.3	9461.7	9261.3	8763.9	7542.7	6102.4
60°	10334.0	10085.3	10170.7	9877.5	9840.4	9740.1	9769.8	9565.7	8979.2	7676.3	6143.3
62.5°	9573.1	9439.5	9870.1	9769.8	10018.5	10018.5	10055.7	9751.3	9109.1	7732.0	6121.0
65°	8251.6	8259.1	9016.3	9432.0	10230.1	10400.9	10430.6	9866.3	9034.9	7568.7	5913.1
67.5°	6573.9	6622.1	7709.7	8574.6	10018.5	10660.7	10664.4	9970.3	8715.6	7108.4	5430.6
70°	4810.7	4847.8	6132.1	7182.6	9020.0	10085.3	10026.0	9677.0	8021.5	6306.6	4677.0
72.5°	3251.7	3285.1	4606.5	5515.9	7401.6	8589.4	8459.5	8552.3	6837.4	5181.9	3760.2
75°	2186.3	2227.2	3277.6	3945.8	5445.4	6521.9	6232.4	6477.3	5289.5	3923.5	2743.1
77.5°	1377.1	1403.1	2082.4	2587.2	3719.4	4439.5	4150.0	4153.7	3047.5	2112.1	1473.6
80°	876.0	883.4	1262.1	1492.2	2152.9	2668.9	2360.8	1919.1	1373.4	1121.0	879.7
82.5°	508.5	497.4	753.5	842.6	1024.5	1013.4	838.9	794.4	601.3	560.5	449.1
85°	204.2	189.3	330.4	308.1	311.8	330.4	245.0	245.0	196.7	152.2	111.4
87.5°	40.8	40.8	44.5	40.8	40.8	44.5	33.4	33.4	29.7	29.7	29.7
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°	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3
2.5°	4038.6	4031.2	4012.6	3964.4	3938.4	3923.5	3901.3	3893.8	3890.1	3893.8	3905.0
5°	4049.7	4023.7	3971.8	3893.8	3841.9	3808.5	3771.3	3756.5	3745.4	3745.4	3756.5
7.5°	4057.2	4016.3	3927.2	3812.2	3737.9	3686.0	3641.4	3622.9	3619.1	3630.3	3634.0
10°	4060.9	4001.5	3875.3	3730.5	3634.0	3567.2	3522.6	3511.5	3522.6	3544.9	3548.6
12.5°	4086.8	4005.2	3845.6	3674.8	3559.8	3492.9	3459.5	3459.5	3489.2	3530.1	3533.8
15°	4131.4	4031.2	3830.7	3630.3	3511.5	3452.1	3441.0	3459.5	3504.1	3567.2	3574.6
17.5°	4164.8	4046.0	3797.3	3570.9	3448.4	3411.3	3429.8	3474.4	3537.5	3622.9	3630.3
20°	4187.1	4046.0	3749.1	3500.4	3385.3	3377.9	3429.8	3500.4	3567.2	3667.4	3678.5
22.5°	4209.3	4038.6	3693.4	3415.0	3314.8	3337.0	3433.5	3522.6	3589.4	3697.1	3715.7
25°	4250.2	4049.7	3637.7	3329.6	3240.5	3303.6	3429.8	3537.5	3608.0	3719.4	3749.1
27.5°	4305.9	4075.7	3596.9	3251.7	3166.3	3251.7	3403.9	3533.8	3608.0	3715.7	3749.1
30°	4365.2	4105.4	3548.6	3166.3	3080.9	3177.4	3348.2	3492.9	3578.3	3678.5	3719.4
32.5°	4428.3	4138.8	3507.8	3073.5	2977.0	3077.2	3266.5	3429.8	3522.6	3615.4	3660.0
35°	4513.7	4198.2	3485.5	2999.3	2884.2	2973.3	3162.6	3348.2	3448.4	3533.8	3585.7
37.5°	4617.7	4272.4	3474.4	2925.0	2784.0	2858.2	3051.2	3248.0	3355.6	3426.1	3474.4
40°	4736.4	4365.2	3470.7	2854.5	2683.7	2739.4	2936.1	3132.9	3236.8	3292.5	3333.3
42.5°	4870.1	4469.2	3463.2	2784.0	2583.5	2628.1	2824.8	3017.8	3106.9	3155.2	3192.3
45°	5011.1	4573.1	3448.4	2698.6	2475.9	2527.8	2709.7	2880.5	2973.3	3014.1	3054.9
47.5°	5152.2	4677.0	3418.7	2602.1	2379.4	2427.6	2587.2	2735.7	2809.9	2847.1	2887.9
50°	5289.5	4769.8	3348.2	2490.7	2279.1	2323.7	2446.2	2546.4	2602.1	2631.8	2672.6
52.5°	5412.0	4833.0	3248.0	2360.8	2178.9	2201.2	2282.8	2368.2	2412.8	2416.5	2453.6
55°	5515.9	4866.4	3103.2	2227.2	2071.3	2075.0	2119.5	2186.3	2204.9	2190.0	2216.0
57.5°	5575.3	4847.8	2943.6	2089.8	1959.9	1945.1	1978.5	2011.9	2015.6	1978.5	2004.4
60°	5590.2	4762.4	2735.7	1952.5	1848.5	1807.7	1818.9	1811.4	1804.0	1789.2	1811.4
62.5°	5515.9	4580.5	2505.6	1818.9	1729.8	1666.7	1663.0	1659.2	1670.4	1674.1	1677.8
65°	5245.0	4239.0	2230.9	1681.5	1603.6	1518.2	1514.5	1559.0	1573.9	1551.6	1559.0
67.5°	4721.6	3715.7	1930.2	1521.9	1443.9	1369.7	1399.4	1425.4	1451.4	1443.9	1451.4
70°	3979.2	3051.2	1655.5	1343.7	1269.5	1228.7	1262.1	1284.3	1288.0	1280.6	1288.0
72.5°	3129.2	2383.1	1399.4	1161.8	1095.0	1076.5	1117.3	1135.9	1169.3	1184.1	1187.8
75°	2260.6	1759.5	1147.0	965.1	909.4	909.4	946.5	980.0	1009.6	991.1	980.0
77.5°	1262.1	1050.5	824.1	664.4	675.6	727.5	742.4	779.5	809.2	805.5	798.1
80°	764.7	657.0	556.8	430.6	426.9	467.7	564.2	627.3	642.2	608.8	605.0
82.5°	397.2	345.2	297.0	241.3	267.3	311.8	326.7	393.5	434.3	419.4	438.0
85°	100.2	96.5	107.6	111.4	137.3	152.2	167.0	196.7	129.9	63.1	63.1
87.5°	29.7	29.7	37.1	37.1	48.3	59.4	55.7	55.7	29.7	3.7	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)