

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: P841870

Luminaire Tested: **ARCH4-240-722-U-T3**

Issue Date: 5/27/2024

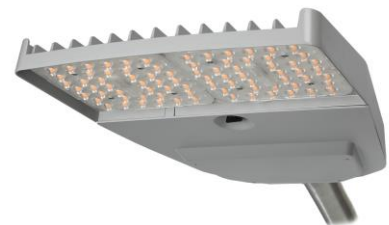
Test Information

Test Method: LM-79-08
Report Number: P841870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31329 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 240.2
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



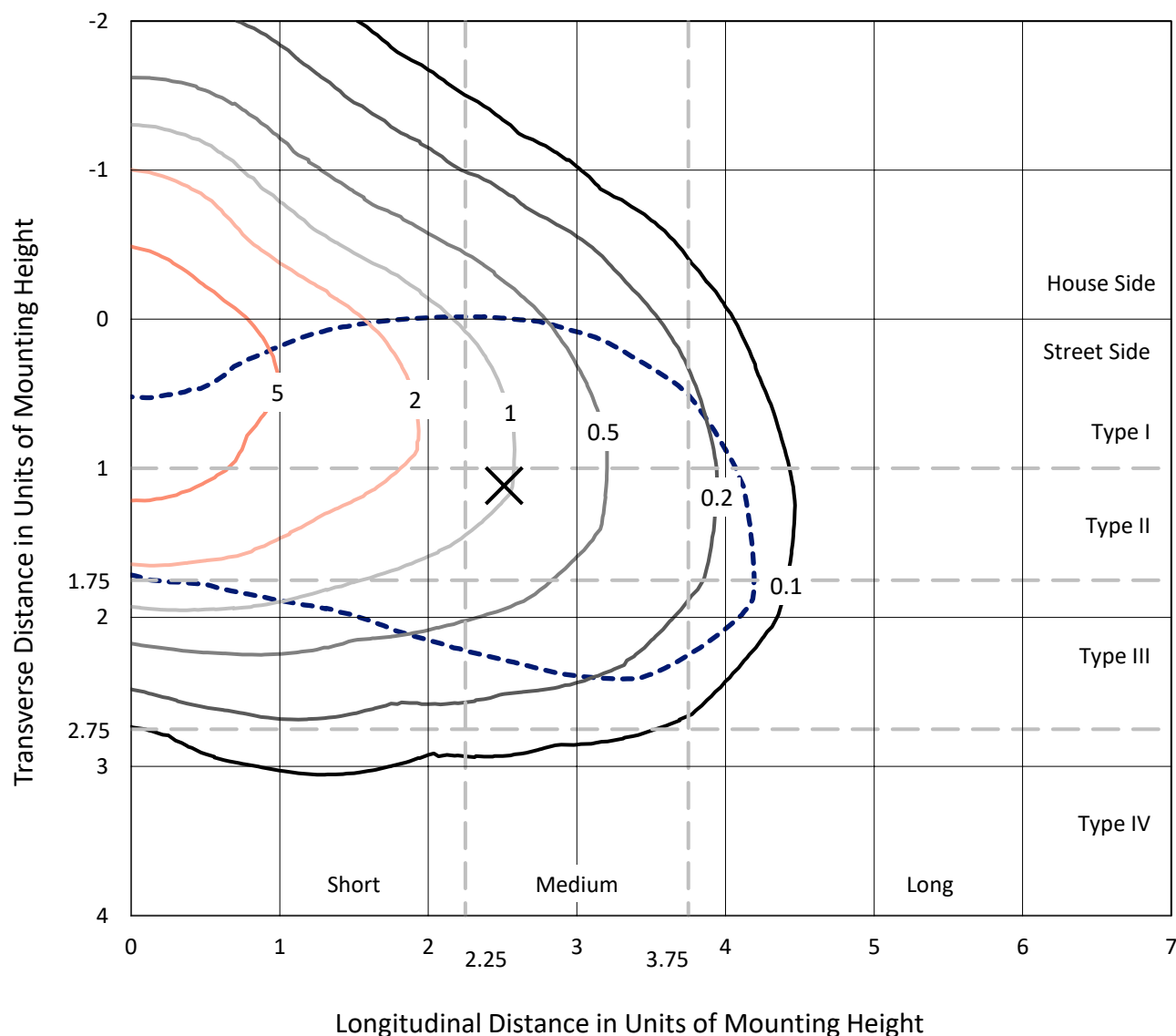
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

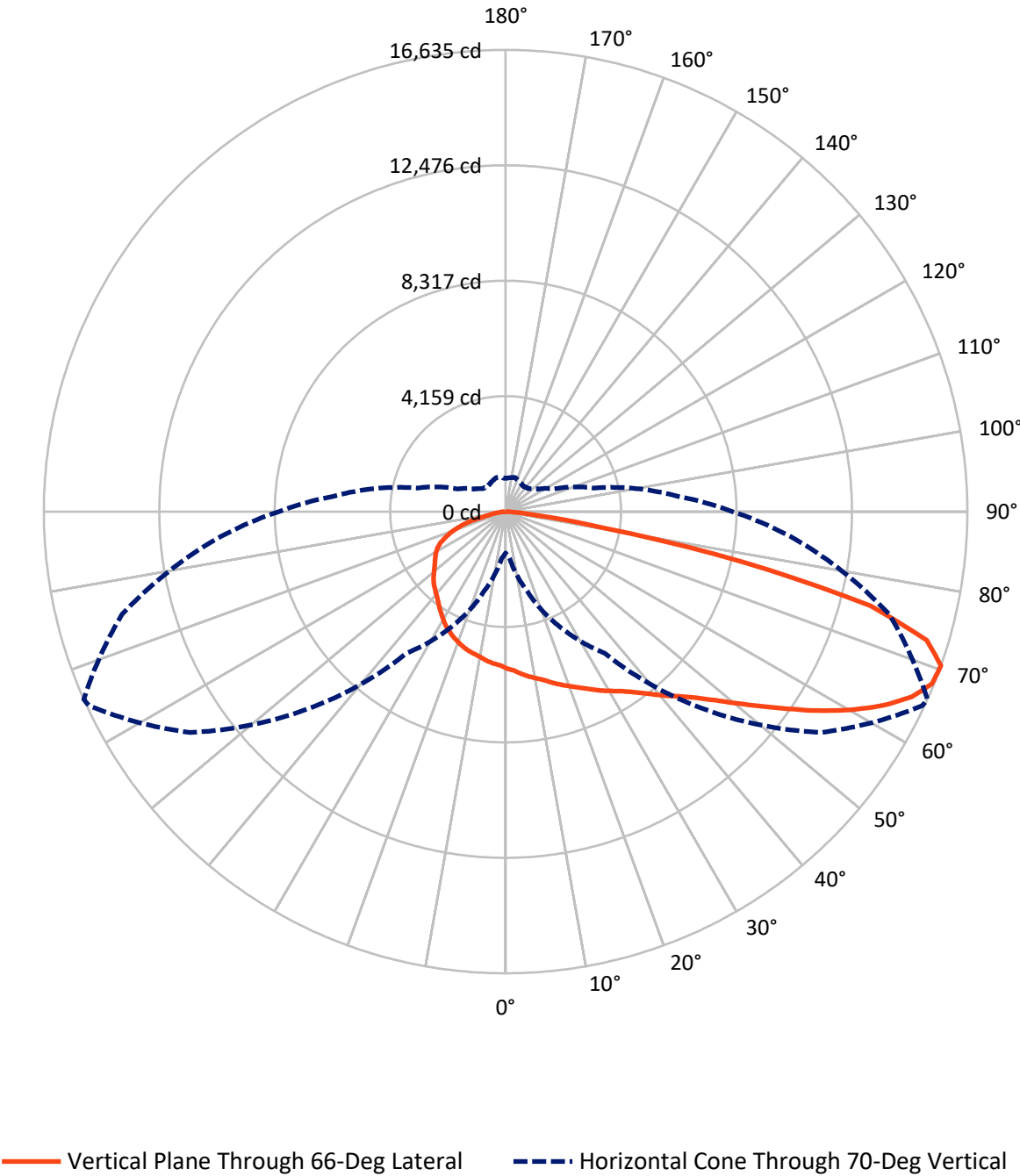
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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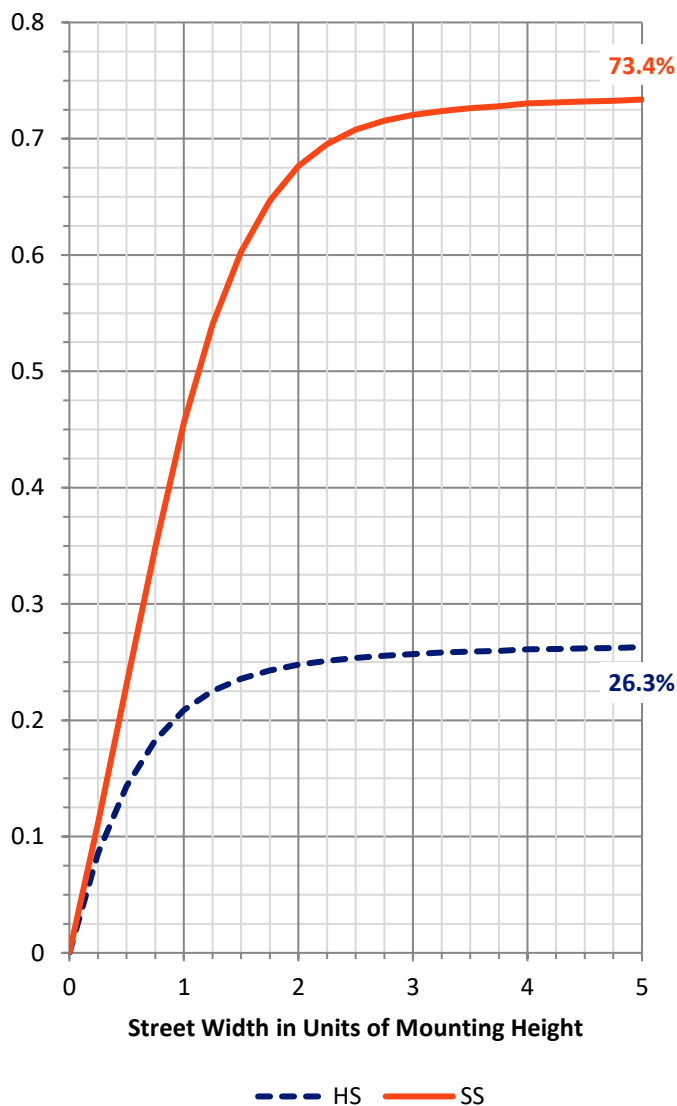
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8301.5	0.0	8301.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23027.5	0.0	23027.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	31329.0	0.0	31329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.3	1.7
10°-20°	1629.7	5.2
20°-30°	2732.0	8.7
30°-40°	4090.6	13.1
40°-50°	5469.2	17.5
50°-60°	6385.5	20.4
60°-70°	6349.3	20.3
70°-80°	3758.9	12.0
80°-90°	370.5	1.2
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°	31329.0	100.0
0°-180°	31329.0	100.0

Coefficient of Utilization



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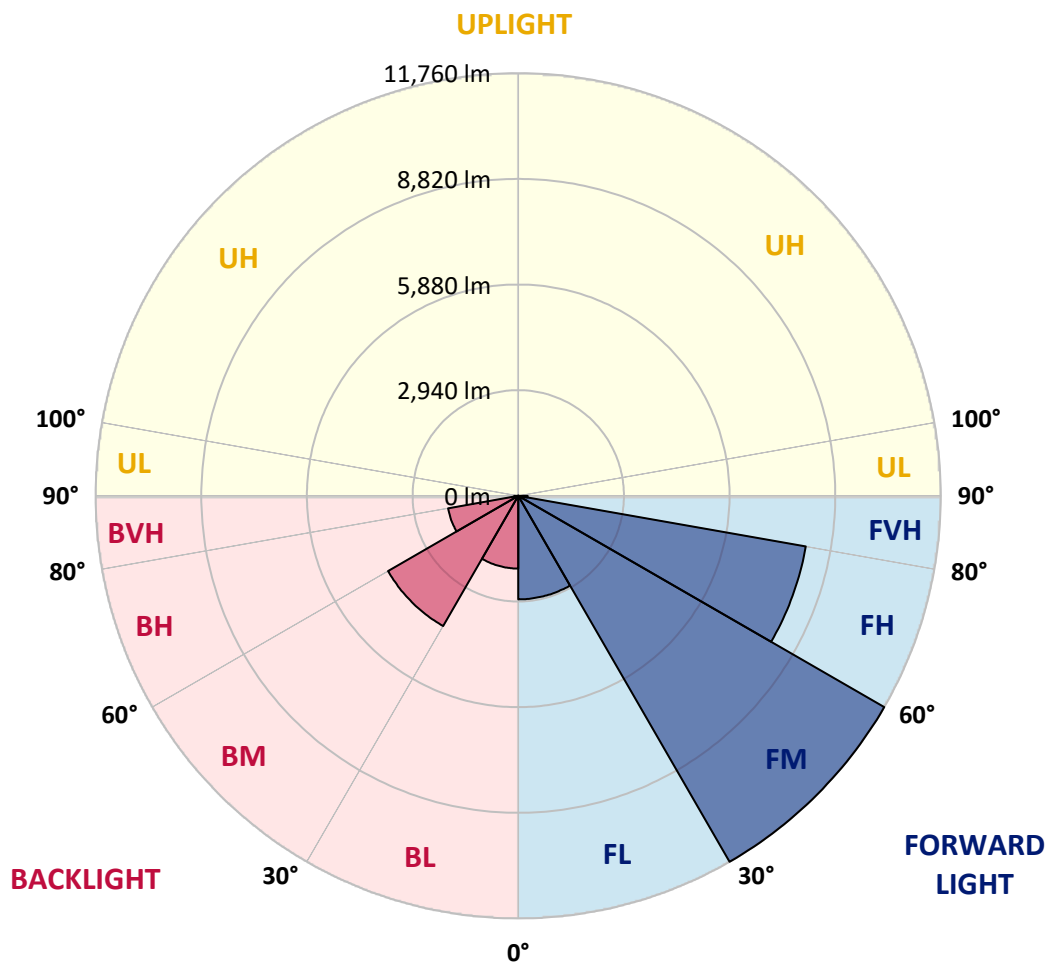
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.4	9.2			
FM	(30°-60°)	11760.5	37.5			
FH	(60°-80°)	8125.2	25.9			G4/12000
FVH	(80°-90°)	260.4	0.8			G3/500
BL	(0°-30°)	2023.5	6.5	B3/2500		
BM	(30°-60°)	4184.8	13.4	B3/5000		
BH	(60°-80°)	1983.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	110.1	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2
2.5°	5862.0	5852.8	5848.2	5829.7	5788.1	5806.6	5765.0	5737.3	5732.7	5668.0	5631.1
5°	6102.3	6097.6	6088.4	6060.7	5996.0	6005.2	5936.0	5885.1	5871.3	5769.7	5691.1
7.5°	6305.5	6296.3	6291.7	6254.7	6185.4	6180.8	6097.6	6023.7	6000.6	5862.0	5741.9
10°	6462.6	6448.7	6458.0	6421.0	6347.1	6333.2	6227.0	6130.0	6106.9	5931.3	5765.0
12.5°	6596.5	6587.3	6601.2	6568.8	6508.8	6494.9	6388.7	6263.9	6236.2	6033.0	5815.9
15°	6744.4	6712.0	6739.7	6725.9	6684.3	6679.7	6582.7	6444.1	6407.1	6162.3	5894.4
17.5°	6822.9	6804.4	6836.7	6841.4	6822.9	6855.2	6762.8	6596.5	6564.2	6282.4	5963.7
20°	6878.3	6850.6	6887.6	6915.3	6929.1	6993.8	6919.9	6758.2	6721.3	6397.9	6028.3
22.5°	7067.7	7007.7	7012.3	7030.8	7040.0	7132.4	7086.2	6929.1	6892.2	6541.1	6106.9
25°	7543.5	7423.4	7344.9	7289.4	7224.8	7303.3	7275.6	7123.1	7090.8	6712.0	6203.9
27.5°	8282.6	8130.2	7973.1	7811.4	7557.4	7525.0	7478.8	7340.3	7303.3	6882.9	6300.9
30°	9123.4	8970.9	8786.1	8527.5	8051.7	7802.2	7696.0	7543.5	7501.9	7035.4	6393.3
32.5°	9959.5	9825.5	9640.7	9326.6	8647.6	8139.4	7913.1	7756.0	7714.4	7201.7	6504.1
35°	10610.8	10527.7	10407.6	10014.9	9238.8	8536.7	8227.2	8037.8	7991.6	7465.0	6707.4
37.5°	11137.4	11077.4	10975.7	10564.6	9668.4	8934.0	8587.5	8370.4	8319.6	7751.4	6924.5
40°	11913.5	11756.4	11673.3	11077.4	10042.6	9294.3	8994.0	8767.7	8712.2	8056.3	7100.0
42.5°	12574.1	12458.6	12357.0	11534.7	10398.3	9603.8	9377.4	9169.6	9095.6	8356.5	7289.4
45°	12684.9	12731.1	12680.3	11761.0	10961.9	9908.7	9765.5	9631.5	9562.2	8763.0	7575.9
47.5°	12689.5	12689.5	12389.3	11890.4	11659.4	10250.5	10181.2	10227.4	10153.5	9280.4	7917.7
50°	12357.0	12417.0	12259.9	11922.7	11844.2	10592.3	10689.3	10938.8	10864.9	9830.1	8287.2
52.5°	11668.7	11867.3	11862.7	11871.9	11576.3	10883.4	11225.2	11793.4	11668.7	10449.1	8679.9
55°	10453.7	10851.0	11206.7	11511.6	11345.3	11058.9	11881.2	12703.4	12574.1	11142.0	9077.2
57.5°	9414.4	9668.4	10111.9	10975.7	11072.8	11211.3	12495.5	13655.0	13539.5	11908.9	9492.9
60°	8227.2	8578.3	9021.7	10250.5	10740.2	11410.0	13170.0	14583.5	14472.6	12684.9	9894.8
62.5°	6402.5	6855.2	7742.1	9137.2	10255.1	11534.7	13701.2	15401.1	15350.3	13419.4	10255.1
65°	4462.4	4864.3	6106.9	7769.9	9483.7	11479.3	14126.2	16131.0	16084.8	14019.9	10509.2
67.5°	2605.4	3071.9	4476.2	6254.7	8120.9	11095.8	14264.8	16560.6	16560.6	14384.9	10578.5
70°	1487.5	1704.6	2951.8	4559.4	6227.0	10038.0	13876.7	16556.0	16634.5	14301.7	10292.1
72.5°	1039.4	1136.4	1986.4	3067.3	4222.2	8120.9	12860.5	15756.8	15863.1	13516.4	9312.8
75°	808.4	877.7	1399.7	2092.6	2660.8	5515.6	10638.5	13285.5	13567.2	11520.8	7529.7
77.5°	614.4	665.2	817.6	1307.3	1704.6	3168.9	7021.5	8712.2	8730.7	7053.9	4037.4
80°	448.1	498.9	545.1	799.2	905.4	1482.8	2651.5	3640.1	3538.5	3413.8	2185.0
82.5°	267.9	318.7	332.6	434.2	443.5	632.9	928.5	1173.3	1127.1	1501.3	1025.5
85°	115.5	161.7	170.9	198.6	189.4	258.7	369.6	309.5	277.2	318.7	221.7
87.5°	27.7	46.2	46.2	50.8	41.6	64.7	69.3	50.8	46.2	55.4	55.4
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°	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2
2.5°	5621.8	5608.0	5612.6	5534.1	5511.0	5487.9	5474.0	5464.8	5455.5	5469.4	5483.3
5°	5663.4	5631.1	5594.1	5478.6	5432.4	5381.6	5344.7	5312.3	5298.5	5298.5	5312.3
7.5°	5695.7	5640.3	5561.8	5409.3	5326.2	5256.9	5196.8	5155.3	5132.2	5132.2	5146.0
10°	5700.4	5621.8	5497.1	5312.3	5201.5	5099.8	5030.5	4984.4	4952.0	4952.0	4961.3
12.5°	5728.1	5621.8	5460.2	5238.4	5099.8	4975.1	4892.0	4822.7	4808.8	4808.8	4818.1
15°	5774.3	5644.9	5437.1	5173.8	5007.5	4864.3	4771.9	4698.0	4670.2	4688.7	4693.3
17.5°	5815.9	5658.8	5395.5	5090.6	4892.0	4734.9	4633.3	4568.6	4531.7	4573.2	4573.2
20°	5843.6	5658.8	5335.4	4984.4	4767.2	4591.7	4494.7	4416.2	4388.4	4439.3	4443.9
22.5°	5885.1	5654.2	5270.8	4878.1	4633.3	4448.5	4351.5	4291.4	4277.6	4333.0	4351.5
25°	5931.3	5663.4	5201.5	4758.0	4485.5	4305.3	4231.4	4203.7	4212.9	4282.2	4305.3
27.5°	5982.1	5681.9	5132.2	4624.0	4323.8	4162.1	4120.5	4134.4	4171.3	4259.1	4286.8
30°	6028.3	5686.5	5035.2	4467.0	4139.0	3986.6	4005.0	4065.1	4120.5	4208.3	4240.6
32.5°	6088.4	5691.1	4933.5	4296.1	3940.4	3829.5	3912.6	4009.7	4065.1	4148.2	4185.2
35°	6236.2	5769.7	4855.0	4129.8	3755.6	3695.5	3834.1	3958.8	3991.2	4065.1	4097.4
37.5°	6407.1	5899.0	4813.4	3958.8	3575.4	3561.6	3737.1	3861.8	3871.1	3917.3	3949.6
40°	6513.4	5954.4	4767.2	3815.6	3413.8	3423.0	3603.1	3700.2	3681.7	3714.0	3737.1
42.5°	6619.6	5972.9	4670.2	3695.5	3261.3	3270.5	3409.1	3478.4	3487.7	3557.0	3589.3
45°	6799.8	6023.7	4564.0	3584.7	3122.7	3090.4	3173.5	3265.9	3386.0	3520.0	3557.0
47.5°	7040.0	6130.0	4453.1	3450.7	2988.8	2882.5	2914.9	3076.5	3201.3	3326.0	3349.1
50°	7284.8	6236.2	4351.5	3289.0	2854.8	2660.8	2674.6	2822.5	2924.1	3021.1	3035.0
52.5°	7525.0	6328.6	4263.7	3136.6	2702.4	2397.5	2452.9	2605.4	2674.6	2720.8	2734.7
55°	7765.2	6407.1	4185.2	3007.2	2526.8	2189.6	2240.4	2383.6	2452.9	2476.0	2485.2
57.5°	8014.7	6499.5	4125.1	2896.4	2328.2	2004.8	2037.2	2138.8	2203.5	2231.2	2221.9
60°	8222.6	6578.1	4092.8	2780.9	2129.6	1833.9	1824.7	1917.1	2009.4	2037.2	2027.9
62.5°	8384.2	6628.9	4042.0	2633.1	1954.0	1663.0	1616.8	1736.9	1833.9	1852.4	1866.2
65°	8472.0	6633.5	3917.3	2443.7	1773.9	1478.2	1445.9	1566.0	1626.0	1644.5	1644.5
67.5°	8458.2	6559.6	3672.4	2189.6	1607.6	1311.9	1284.2	1358.1	1445.9	1459.7	1445.9
70°	8171.8	6254.7	3279.8	1921.7	1408.9	1164.1	1113.3	1187.2	1270.3	1219.5	1196.4
72.5°	7358.7	5464.8	2702.4	1626.0	1187.2	979.3	956.2	1030.1	1034.8	1044.0	1020.9
75°	5806.6	4069.7	2023.3	1265.7	960.8	822.3	817.6	803.8	822.3	859.2	831.5
77.5°	3048.8	2032.5	1094.8	776.1	697.5	660.6	628.2	623.6	679.1	702.2	674.4
80°	1653.8	1141.0	628.2	466.6	425.0	429.6	471.2	461.9	522.0	535.9	512.8
82.5°	720.6	540.5	309.5	281.8	281.8	277.2	291.0	323.4	388.0	388.0	309.5
85°	157.1	134.0	120.1	138.6	157.1	157.1	157.1	157.1	110.9	60.1	41.6
87.5°	50.8	50.8	50.8	55.4	60.1	60.1	50.8	37.0	23.1	4.6	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)