

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: P836426

Luminaire Tested: **ARCH3-180-750-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

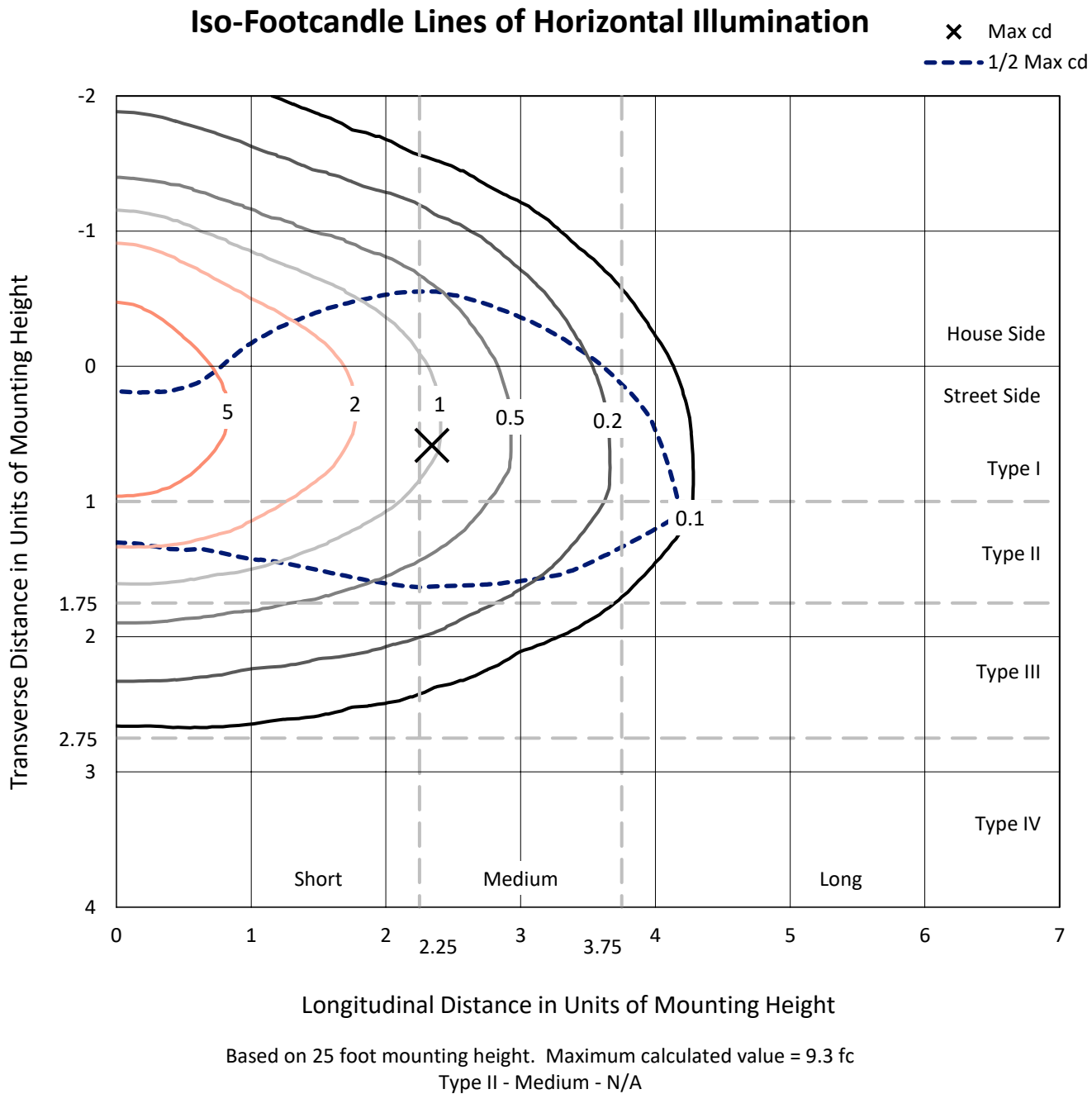
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25319 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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

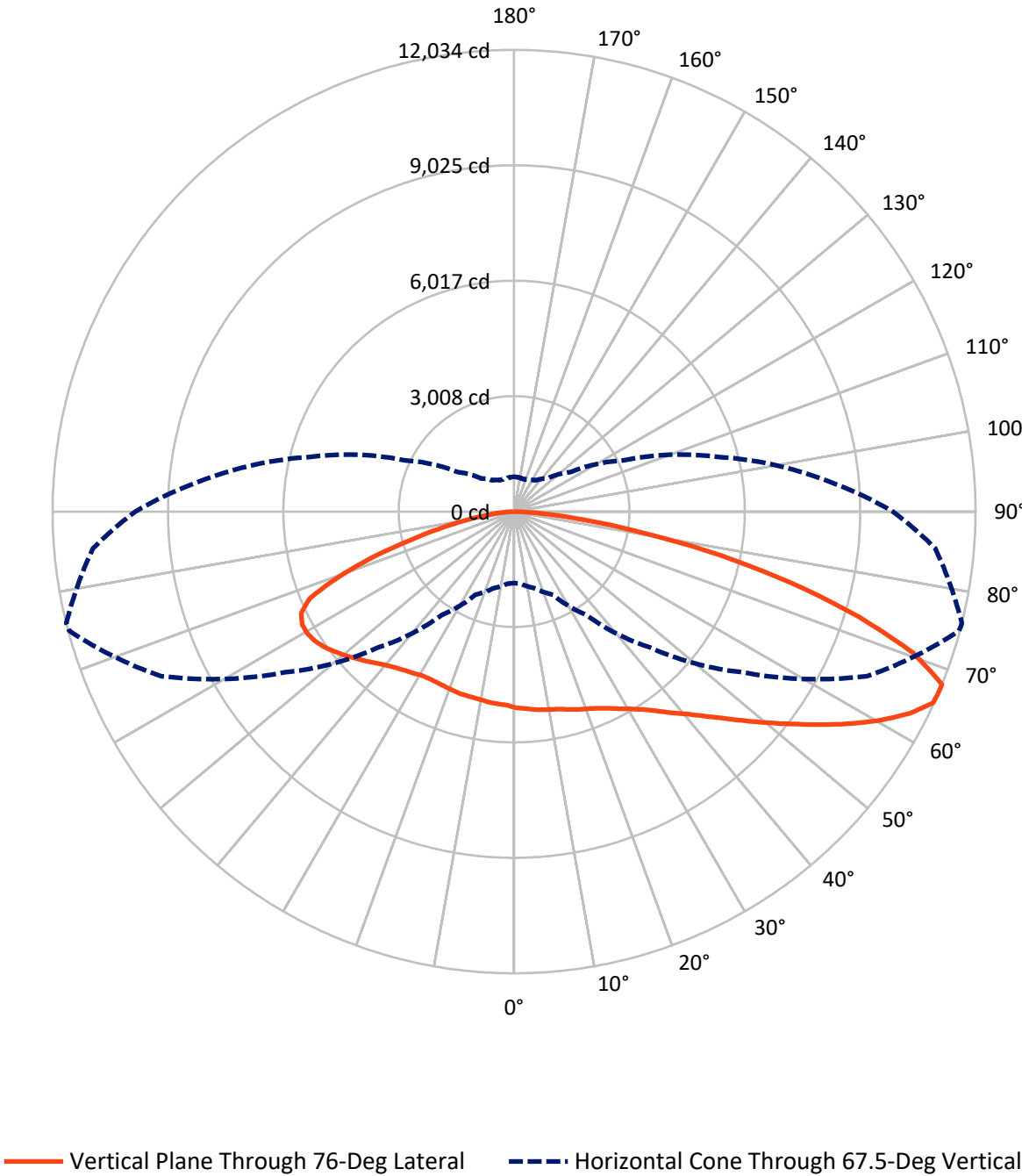


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Luminous Intensity Polar Plot



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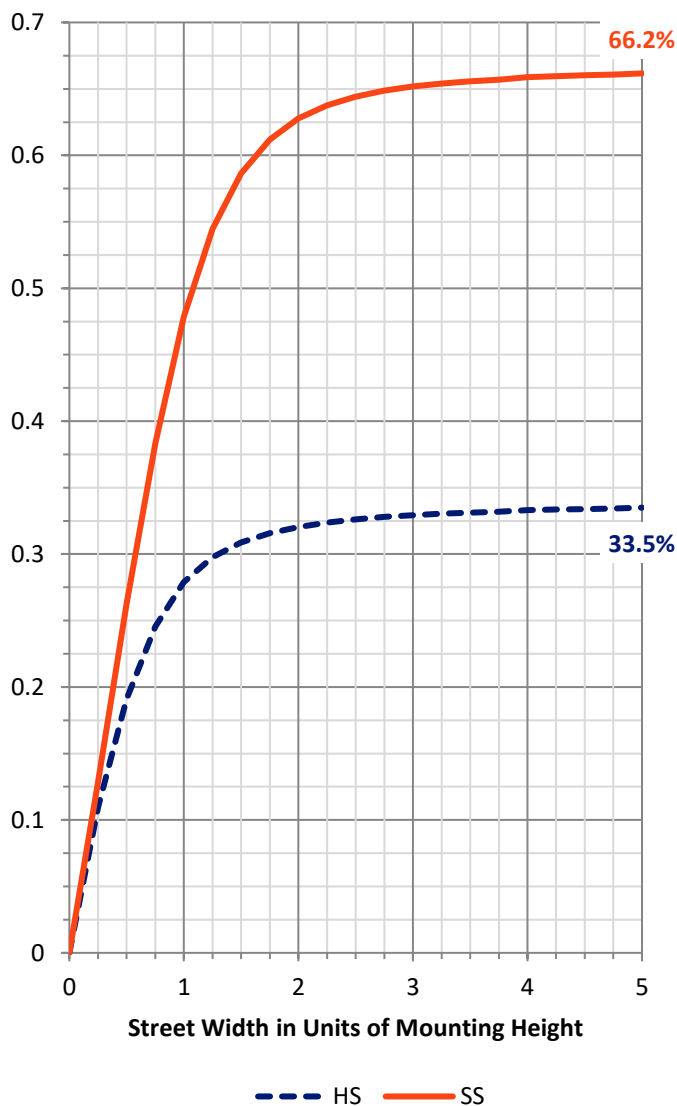
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8555.4	0.0	8555.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	16763.6	0.0	16763.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	25319.0	0.0	25319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.9
10°-20°	1507.7	6.0
20°-30°	2561.6	10.1
30°-40°	3644.9	14.4
40°-50°	4603.3	18.2
50°-60°	4984.0	19.7
60°-70°	4635.6	18.3
70°-80°	2489.8	9.8
80°-90°	398.9	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°	25319.0	100.0
0°-180°	25319.0	100.0

Coefficient of Utilization



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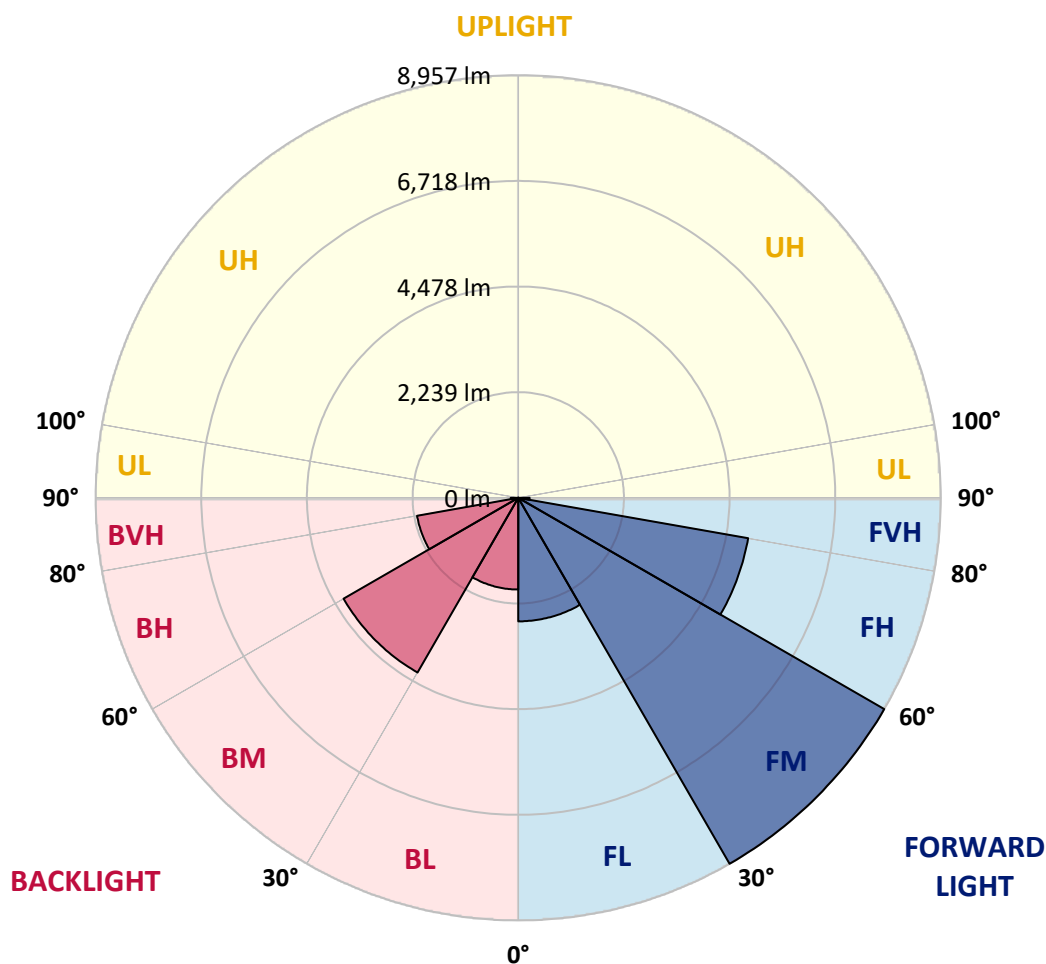
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2618.3	10.3			
FM	(30°-60°)	8956.9	35.4			
FH	(60°-80°)	4947.1	19.5			G2/5000
FVH	(80°-90°)	241.3	1.0			G3/500
BL	(0°-30°)	1944.2	7.7	B3/2500		
BM	(30°-60°)	4275.3	16.9	B3/5000		
BH	(60°-80°)	2178.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	157.6	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°	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4
2.5°	5269.5	5260.1	5222.5	5227.2	5227.2	5222.5	5166.1	5142.6	5142.6	5137.9	5086.2
5°	5457.5	5443.4	5401.1	5391.7	5372.9	5349.4	5260.1	5208.4	5184.9	5180.2	5109.7
7.5°	5678.5	5659.7	5608.0	5579.8	5532.7	5471.6	5358.8	5278.9	5222.5	5217.8	5119.1
10°	5899.4	5880.6	5819.5	5767.8	5702.0	5603.3	5457.5	5340.0	5250.7	5241.3	5123.8
12.5°	6162.6	6143.8	6068.6	6002.8	5904.1	5772.5	5579.8	5419.9	5297.7	5283.6	5137.9
15°	6440.0	6411.8	6336.6	6261.4	6139.1	5969.9	5739.6	5528.0	5372.9	5349.4	5180.2
17.5°	6670.3	6632.7	6571.6	6496.4	6360.1	6162.6	5899.4	5636.2	5443.4	5424.6	5222.5
20°	6867.8	6839.5	6773.7	6703.2	6557.5	6341.3	6049.8	5744.3	5509.2	5485.7	5255.4
22.5°	7055.8	7018.2	6980.6	6928.9	6769.0	6529.3	6223.8	5875.9	5593.9	5565.7	5297.7
25°	7272.0	7229.7	7215.6	7187.4	6999.4	6754.9	6435.3	6040.4	5711.4	5678.5	5372.9
27.5°	7540.0	7492.9	7464.7	7464.7	7239.1	6985.3	6660.9	6233.2	5847.7	5819.5	5466.9
30°	7822.0	7765.6	7723.3	7723.3	7469.4	7215.6	6881.9	6425.9	6002.8	5969.9	5589.2
32.5°	8071.1	8014.7	7967.7	7963.0	7699.8	7445.9	7112.2	6637.4	6190.8	6148.5	5739.6
35°	8263.9	8212.2	8169.8	8179.3	7930.1	7681.0	7370.7	6919.5	6425.9	6378.9	5937.0
37.5°	8381.4	8362.6	8339.1	8372.0	8141.6	7906.6	7638.7	7192.1	6693.8	6651.5	6181.4
40°	8442.5	8428.4	8522.4	8564.7	8320.3	8108.7	7906.6	7474.1	6985.3	6938.3	6463.5
42.5°	8531.8	8649.3	8686.9	8677.5	8451.9	8263.9	8151.0	7779.7	7328.4	7286.1	6801.9
45°	8212.2	8184.0	8390.8	8503.6	8461.3	8362.6	8381.4	8146.3	7728.0	7685.7	7192.1
47.5°	7784.4	7746.8	7864.3	8141.6	8306.2	8400.2	8588.2	8527.1	8188.7	8151.0	7648.1
50°	6881.9	6933.6	7370.7	7742.1	8066.4	8390.8	8762.1	8936.1	8696.3	8658.7	8136.9
52.5°	5880.6	5932.3	6388.3	7243.8	7775.0	8320.3	8889.1	9345.0	9246.3	9204.0	8658.7
55°	5152.0	5264.8	5781.9	6402.4	7361.3	8099.3	8964.3	9763.4	9838.6	9801.0	9227.5
57.5°	4428.1	4512.7	4902.8	5452.8	6797.2	7713.9	8959.6	10153.6	10459.1	10421.5	9805.7
60°	3577.2	3685.4	3995.6	4587.9	6045.1	7253.2	8827.9	10459.1	11056.1	11027.9	10365.1
62.5°	2994.4	3027.3	3248.2	3760.6	5076.8	6670.3	8531.8	10623.6	11596.7	11577.9	10868.1
65°	2411.5	2416.2	2618.3	3046.1	4141.3	5946.4	8028.8	10562.5	12005.6	12015.0	11230.0
67.5°	1861.5	1885.0	2068.3	2392.7	3290.5	5006.3	7309.6	10148.9	12010.3	12033.8	11023.2
70°	1288.0	1306.8	1584.1	1899.1	2543.1	3990.9	6336.6	9053.6	11023.2	11042.0	9880.9
72.5°	907.2	916.6	1212.8	1518.3	1988.4	3008.5	4780.6	7488.2	9396.7	9410.8	8310.9
75°	676.9	686.3	855.5	1151.7	1523.0	2082.4	3267.0	5734.9	7507.0	7507.0	6562.2
77.5°	479.5	484.2	554.7	794.4	1015.4	1405.5	1964.9	3755.9	5509.2	5518.6	4780.6
80°	324.3	329.1	362.0	535.9	634.6	761.5	1067.1	1969.6	3473.8	3487.9	3036.7
82.5°	169.2	178.6	202.1	272.6	319.6	423.1	550.0	1001.3	1922.6	1960.2	1823.9
85°	65.8	65.8	75.2	89.3	117.5	164.5	253.8	380.8	869.6	897.8	803.8
87.5°	23.5	23.5	28.2	28.2	32.9	37.6	42.3	56.4	98.7	98.7	94.0
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°	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4	5114.4
2.5°	5067.4	5067.4	5043.9	5053.3	5048.6	5039.2	5029.8	5043.9	5029.8	4996.9	4992.2
5°	5076.8	5067.4	5029.8	5025.1	5011.0	4992.2	4968.7	4978.1	4954.6	4926.4	4921.7
7.5°	5081.5	5062.7	5011.0	4992.2	4964.0	4926.4	4888.7	4888.7	4855.8	4827.6	4822.9
10°	5072.1	5048.6	4978.1	4940.5	4888.7	4832.3	4780.6	4766.5	4728.9	4696.0	4696.0
12.5°	5076.8	5043.9	4954.6	4893.4	4822.9	4752.4	4686.6	4667.8	4634.9	4602.0	4597.3
15°	5105.0	5058.0	4945.2	4865.2	4761.8	4681.9	4611.4	4597.3	4569.1	4545.6	4545.6
17.5°	5133.2	5072.1	4931.1	4818.2	4691.3	4602.0	4536.2	4536.2	4517.4	4503.3	4503.3
20°	5147.3	5076.8	4902.8	4752.4	4606.7	4512.7	4451.6	4461.0	4456.3	4451.6	4451.6
22.5°	5180.2	5086.2	4879.3	4691.3	4517.4	4418.7	4362.3	4376.4	4371.7	4371.7	4376.4
25°	5231.9	5109.7	4860.5	4634.9	4432.8	4324.7	4263.6	4273.0	4273.0	4273.0	4273.0
27.5°	5302.4	5156.7	4855.8	4583.2	4348.2	4225.9	4150.7	4150.7	4131.9	4136.6	4141.3
30°	5410.5	5246.0	4865.2	4536.2	4258.9	4103.7	4014.4	4000.3	3995.6	4005.0	4009.7
32.5°	5542.1	5368.2	4921.7	4503.3	4164.8	3967.4	3854.6	3849.9	3835.8	3835.8	3835.8
35°	5706.7	5485.7	4973.4	4498.6	4070.8	3821.7	3699.5	3685.4	3652.5	3638.4	3638.4
37.5°	5918.2	5669.1	5034.5	4465.7	3990.9	3680.7	3534.9	3487.9	3450.3	3445.6	3445.6
40°	6176.7	5875.9	5123.8	4428.1	3906.3	3534.9	3342.2	3262.3	3267.0	3285.8	3285.8
42.5°	6482.3	6129.7	5236.6	4409.3	3784.1	3384.5	3116.6	3022.6	3055.5	3074.3	3079.0
45°	6839.5	6430.6	5363.5	4385.8	3671.3	3215.3	2876.8	2759.3	2773.4	2778.1	2782.8
47.5°	7253.2	6764.3	5495.1	4367.0	3544.3	3003.8	2613.6	2458.5	2453.8	2425.6	2435.0
50°	7685.7	7116.9	5631.5	4334.1	3389.2	2754.6	2336.3	2152.9	2115.3	2073.0	2077.7
52.5°	8146.3	7478.8	5758.4	4282.4	3196.5	2500.8	2073.0	1875.6	1800.4	1753.4	1762.8
55°	8654.0	7850.2	5880.6	4202.4	2994.4	2246.9	1838.0	1635.9	1541.8	1504.2	1508.9
57.5°	9119.4	8207.5	5969.9	4103.7	2773.4	2016.6	1631.1	1433.7	1372.6	1367.9	1372.6
60°	9570.7	8508.3	6007.5	3967.4	2547.8	1805.1	1438.4	1288.0	1245.7	1269.2	1273.9
62.5°	9951.4	8701.0	5988.7	3784.1	2317.5	1602.9	1283.3	1175.2	1147.0	1194.0	1198.7
65°	10172.4	8762.1	5857.1	3520.8	2068.3	1405.5	1137.6	1020.1	1006.0	1034.2	1048.3
67.5°	9880.9	8381.4	5499.8	3158.9	1791.0	1222.2	996.6	902.5	879.0	902.5	902.5
70°	8757.4	7262.6	4653.7	2585.4	1485.4	1043.6	864.9	799.1	780.3	799.1	794.4
72.5°	7295.5	6040.4	3666.6	2016.6	1170.5	879.0	752.1	691.0	672.2	653.4	644.0
75°	5659.7	4587.9	2660.6	1480.7	883.7	705.1	629.9	573.5	526.5	545.3	535.9
77.5°	4146.0	3220.0	1885.0	1024.8	634.6	545.3	493.6	451.3	418.4	456.0	451.3
80°	2670.0	2082.4	1259.8	686.3	437.2	380.8	362.0	338.5	371.4	484.2	493.6
82.5°	1631.1	1320.9	752.1	446.6	286.7	253.8	235.0	235.0	380.8	418.4	423.1
85°	728.6	700.4	409.0	230.3	159.8	145.7	131.6	169.2	155.1	112.8	117.5
87.5°	117.5	122.2	89.3	79.9	61.1	61.1	47.0	32.9	23.5	14.1	14.1
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)