

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: P841886

Luminaire Tested: **ARCH4-240-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841886
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: ARCH4-240-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

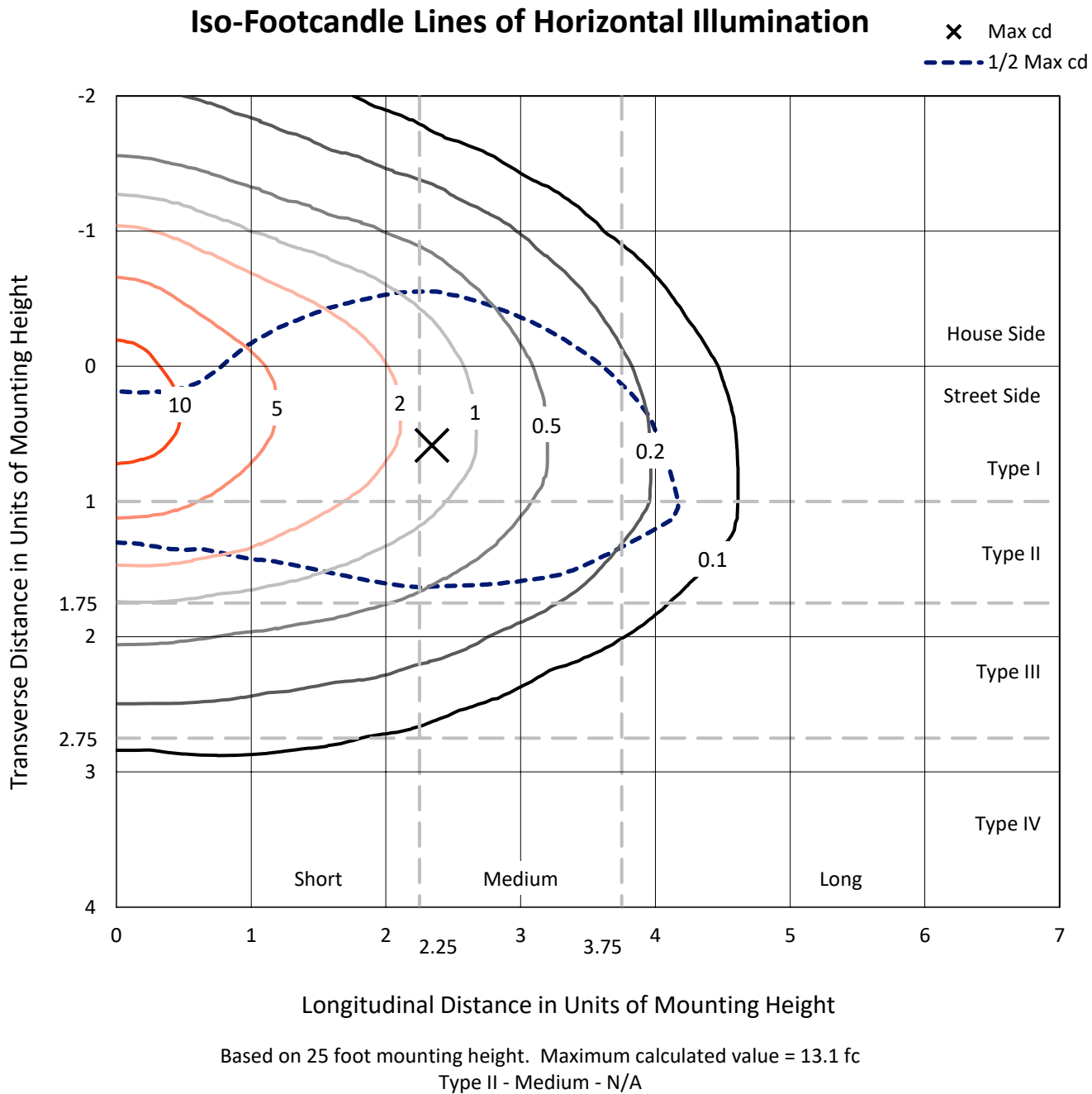
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35858 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - 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

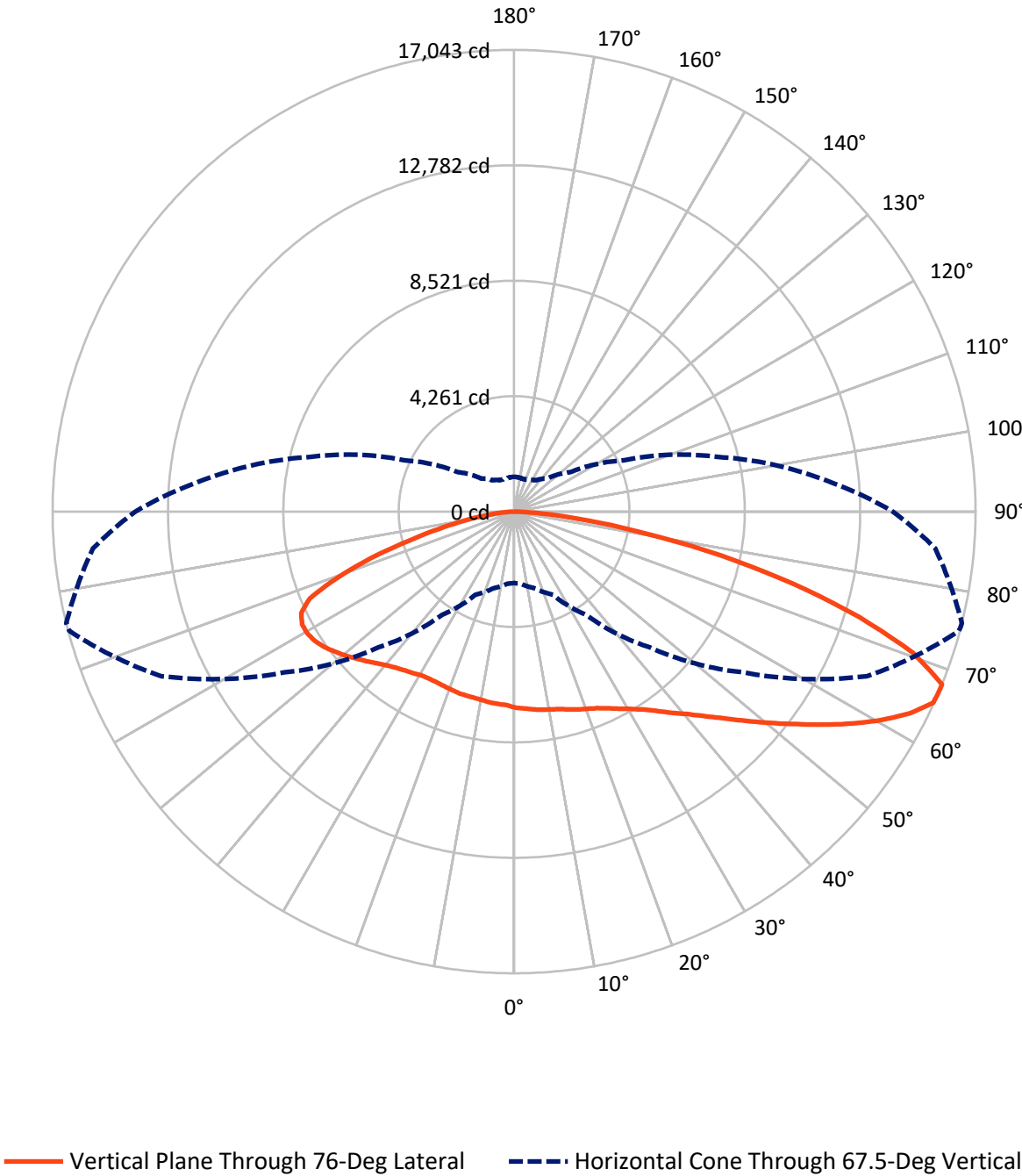


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Luminous Intensity Polar Plot



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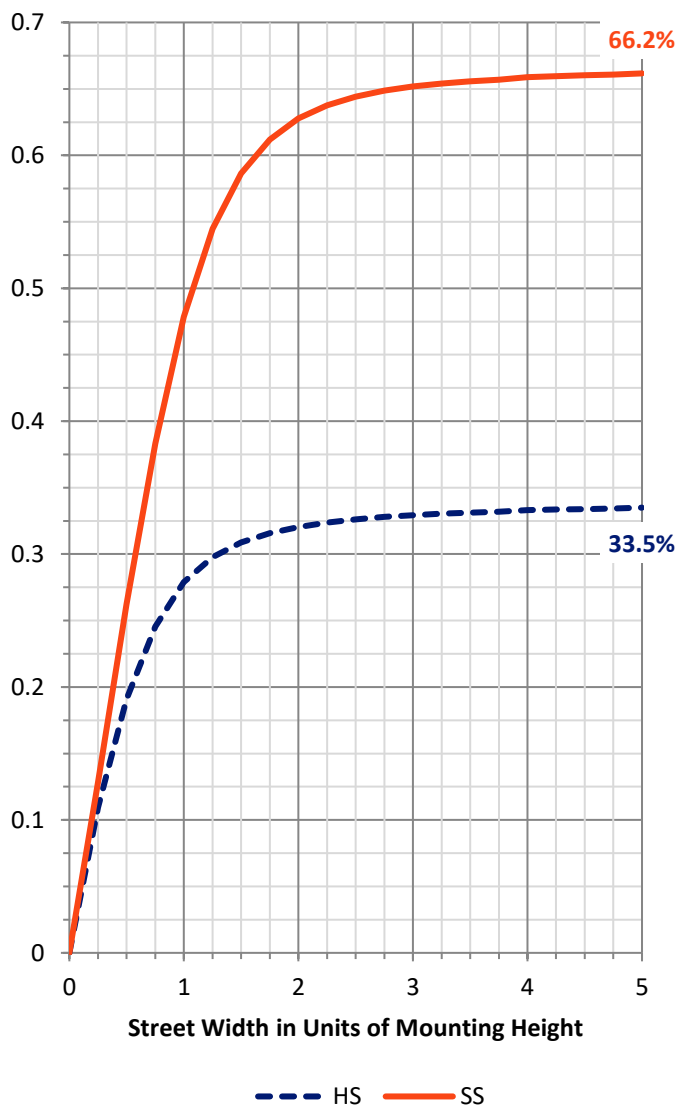
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12116.6	0.0	12116.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	23741.4	0.0	23741.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	35858.0	0.0	35858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.4	1.9
10°-20°	2135.3	6.0
20°-30°	3627.9	10.1
30°-40°	5162.1	14.4
40°-50°	6519.4	18.2
50°-60°	7058.5	19.7
60°-70°	6565.2	18.3
70°-80°	3526.1	9.8
80°-90°	565.0	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°	35858.0	100.0
0°-180°	35858.0	100.0

Coefficient of Utilization



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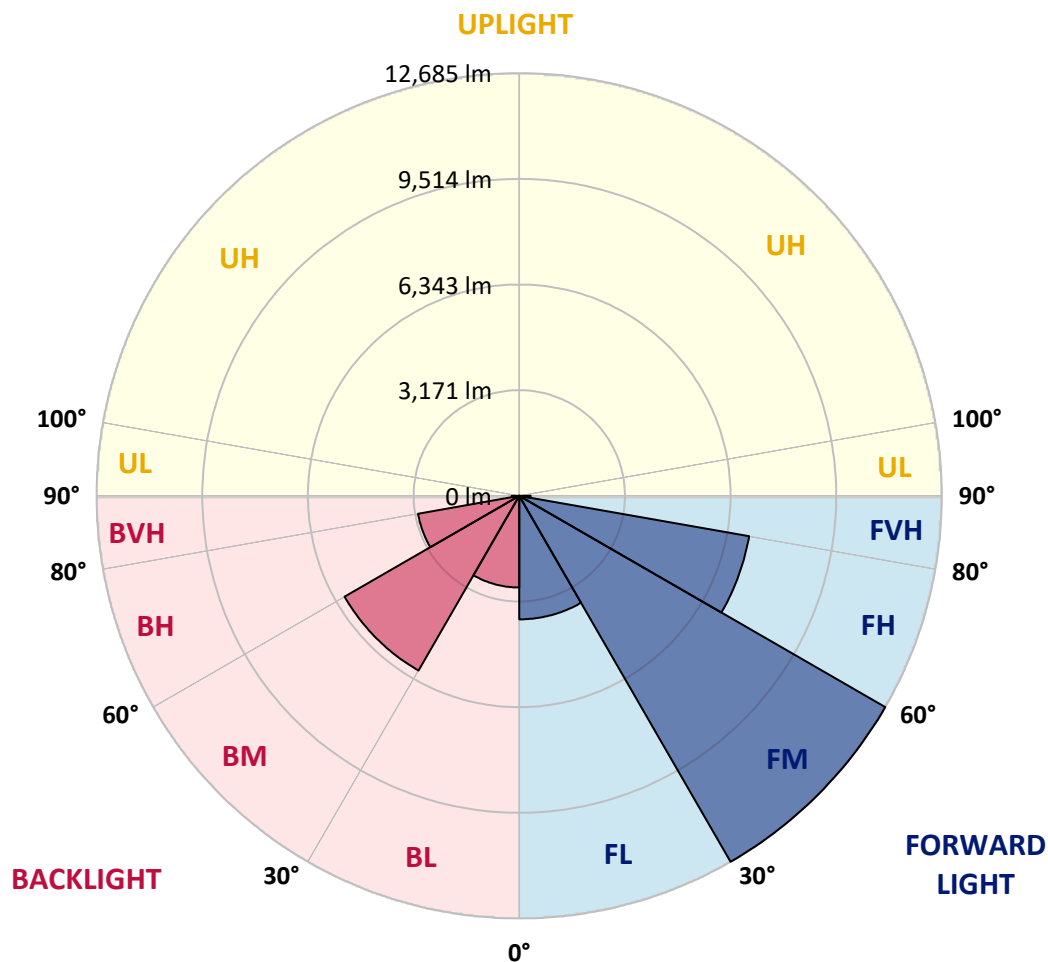
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3708.1	10.3			
FM	(30°-60°)	12685.2	35.4			
FH	(60°-80°)	7006.3	19.5			G3/7500
FVH	(80°-90°)	341.8	1.0			G3/500
BL	(0°-30°)	2753.5	7.7	B4/5000		
BM	(30°-60°)	6054.8	16.9	B4/8500		
BH	(60°-80°)	3085.0	8.6	B4/5000		G4/5000
BVH	(80°-90°)	223.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2
2.5°	7462.9	7449.6	7396.4	7403.0	7403.0	7396.4	7316.5	7283.2	7283.2	7276.5	7203.3
5°	7729.2	7709.3	7649.3	7636.0	7609.4	7576.1	7449.6	7376.4	7343.1	7336.4	7236.6
7.5°	8042.1	8015.5	7942.3	7902.3	7835.7	7749.2	7589.4	7476.2	7396.4	7389.7	7249.9
10°	8355.0	8328.4	8241.8	8168.6	8075.4	7935.6	7729.2	7562.8	7436.3	7423.0	7256.6
12.5°	8727.8	8701.2	8594.7	8501.5	8361.7	8175.3	7902.3	7676.0	7502.9	7482.9	7276.5
15°	9120.6	9080.7	8974.2	8867.6	8694.5	8454.9	8128.7	7829.1	7609.4	7576.1	7336.4
17.5°	9446.8	9393.6	9307.0	9200.5	9007.4	8727.8	8355.0	7982.2	7709.3	7682.6	7396.4
20°	9726.4	9686.5	9593.3	9493.4	9287.1	8980.8	8568.1	8135.3	7802.5	7769.2	7443.0
22.5°	9992.7	9939.5	9886.2	9813.0	9586.6	9247.1	8814.4	8321.7	7922.3	7882.3	7502.9
25°	10299.0	10239.1	10219.1	10179.1	9912.8	9566.7	9114.0	8554.7	8088.7	8042.1	7609.4
27.5°	10678.4	10611.9	10571.9	10571.9	10252.4	9892.9	9433.5	8827.7	8281.8	8241.8	7742.5
30°	11077.9	10998.0	10938.1	10938.1	10578.6	10219.1	9746.4	9100.6	8501.5	8454.9	7915.6
32.5°	11430.7	11350.8	11284.3	11277.6	10904.8	10545.3	10072.6	9400.2	8767.8	8707.9	8128.7
35°	11703.7	11630.5	11570.5	11583.9	11231.0	10878.2	10438.8	9799.7	9100.6	9034.1	8408.3
37.5°	11870.1	11843.5	11810.2	11856.8	11530.6	11197.7	10818.3	10185.8	9480.1	9420.2	8754.5
40°	11956.7	11936.7	12069.8	12129.8	11783.6	11484.0	11197.7	10585.2	9892.9	9826.3	9153.9
42.5°	12083.2	12249.6	12302.9	12289.5	11970.0	11703.7	11543.9	11018.0	10378.9	10318.9	9633.2
45°	11630.5	11590.5	11883.4	12043.2	11983.3	11843.5	11870.1	11537.3	10944.7	10884.8	10185.8
47.5°	11024.6	10971.4	11137.8	11530.6	11763.6	11896.8	12163.0	12076.5	11597.2	11543.9	10831.6
50°	9746.4	9819.6	10438.8	10964.7	11424.1	11883.4	12409.4	12655.7	12316.2	12262.9	11523.9
52.5°	8328.4	8401.6	9047.4	10259.0	11011.3	11783.6	12589.1	13234.9	13095.1	13035.2	12262.9
55°	7296.5	7456.3	8188.6	9067.4	10425.5	11470.7	12695.6	13827.4	13933.9	13880.7	13068.5
57.5°	6271.3	6391.1	6943.7	7722.6	9626.6	10924.8	12689.0	14380.0	14812.7	14759.4	13887.3
60°	5066.3	5219.4	5658.8	6497.6	8561.4	10272.3	12502.6	14812.7	15658.2	15618.2	14679.5
62.5°	4240.8	4287.4	4600.3	5325.9	7190.0	9446.8	12083.2	15045.7	16423.8	16397.1	15391.9
65°	3415.2	3421.9	3708.2	4314.0	5865.2	8421.6	11370.8	14959.1	17003.0	17016.3	15904.5
67.5°	2636.3	2669.6	2929.3	3388.6	4660.2	7090.1	10352.2	14373.3	17009.6	17042.9	15611.6
70°	1824.1	1850.8	2243.5	2689.6	3601.6	5652.1	8974.2	12822.1	15611.6	15638.2	13993.8
72.5°	1284.9	1298.2	1717.6	2150.3	2816.1	4260.7	6770.6	10605.2	13308.1	13328.1	11770.3
75°	958.7	972.0	1211.6	1631.1	2157.0	2949.2	4626.9	8122.0	10631.8	10631.8	9293.7
77.5°	679.1	685.7	785.6	1125.1	1438.0	1990.6	2782.8	5319.3	7802.5	7815.8	6770.6
80°	459.4	466.0	512.6	758.9	898.7	1078.5	1511.2	2789.4	4919.8	4939.8	4300.7
82.5°	239.7	253.0	286.3	386.1	452.7	599.2	778.9	1418.0	2722.9	2776.1	2583.1
85°	93.2	93.2	106.5	126.5	166.4	233.0	359.5	539.2	1231.6	1271.6	1138.4
87.5°	33.3	33.3	39.9	39.9	46.6	53.3	59.9	79.9	139.8	139.8	133.1
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°	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2
2.5°	7176.7	7176.7	7143.4	7156.7	7150.0	7136.7	7123.4	7143.4	7123.4	7076.8	7070.1
5°	7190.0	7176.7	7123.4	7116.7	7096.8	7070.1	7036.9	7050.2	7016.9	6976.9	6970.3
7.5°	7196.6	7170.0	7096.8	7070.1	7030.2	6976.9	6923.7	6923.7	6877.1	6837.1	6830.5
10°	7183.3	7150.0	7050.2	6996.9	6923.7	6843.8	6770.6	6750.6	6697.3	6650.7	6650.7
12.5°	7190.0	7143.4	7016.9	6930.3	6830.5	6730.6	6637.4	6610.8	6564.2	6517.6	6510.9
15°	7229.9	7163.3	7003.6	6890.4	6743.9	6630.8	6530.9	6510.9	6471.0	6437.7	6437.7
17.5°	7269.9	7183.3	6983.6	6823.8	6644.1	6517.6	6424.4	6424.4	6397.7	6377.8	6377.8
20°	7289.8	7190.0	6943.7	6730.6	6524.2	6391.1	6304.5	6317.9	6311.2	6304.5	6304.5
22.5°	7336.4	7203.3	6910.4	6644.1	6397.7	6257.9	6178.1	6198.0	6191.4	6191.4	6198.0
25°	7409.7	7236.6	6883.7	6564.2	6277.9	6124.8	6038.2	6051.6	6051.6	6051.6	6051.6
27.5°	7509.5	7303.2	6877.1	6491.0	6158.1	5985.0	5878.5	5878.5	5851.8	5858.5	5865.2
30°	7662.7	7429.6	6890.4	6424.4	6031.6	5811.9	5685.4	5665.4	5658.8	5672.1	5678.8
32.5°	7849.1	7602.7	6970.3	6377.8	5898.4	5618.8	5459.1	5452.4	5432.4	5432.4	5432.4
35°	8082.1	7769.2	7043.5	6371.1	5765.3	5412.5	5239.4	5219.4	5172.8	5152.8	5152.8
37.5°	8381.6	8028.8	7130.1	6324.5	5652.1	5212.7	5006.4	4939.8	4886.5	4879.9	4879.9
40°	8747.8	8321.7	7256.6	6271.3	5532.3	5006.4	4733.4	4620.2	4626.9	4653.5	4653.5
42.5°	9180.5	8681.2	7416.3	6244.6	5359.2	4793.3	4413.8	4280.7	4327.3	4353.9	4360.6
45°	9686.5	9107.3	7596.1	6211.3	5199.4	4553.7	4074.3	3907.9	3927.9	3934.5	3941.2
47.5°	10272.3	9580.0	7782.5	6184.7	5019.7	4254.1	3701.5	3481.8	3475.2	3435.2	3448.5
50°	10884.8	10079.3	7975.5	6138.1	4800.0	3901.2	3308.7	3049.1	2995.8	2935.9	2942.6
52.5°	11537.3	10591.9	8155.3	6064.9	4527.0	3541.7	2935.9	2656.3	2549.8	2483.2	2496.5
55°	12256.2	11117.8	8328.4	5951.7	4240.8	3182.2	2603.0	2316.8	2183.6	2130.4	2137.0
57.5°	12915.3	11623.8	8454.9	5811.9	3927.9	2856.0	2310.1	2030.5	1944.0	1937.3	1944.0
60°	13554.4	12049.9	8508.1	5618.8	3608.3	2556.4	2037.2	1824.1	1764.2	1797.5	1804.2
62.5°	14093.7	12322.8	8481.5	5359.2	3282.1	2270.2	1817.5	1664.3	1624.4	1691.0	1697.6
65°	14406.6	12409.4	8295.1	4986.4	2929.3	1990.6	1611.1	1444.7	1424.7	1464.6	1484.6
67.5°	13993.8	11870.1	7789.1	4473.8	2536.5	1730.9	1411.4	1278.2	1244.9	1278.2	1278.2
70°	12402.7	10285.7	6590.8	3661.6	2103.7	1477.9	1225.0	1131.8	1105.1	1131.8	1125.1
72.5°	10332.3	8554.7	5192.8	2856.0	1657.7	1244.9	1065.2	978.6	952.0	925.4	912.1
75°	8015.5	6497.6	3768.1	2097.1	1251.6	998.6	892.1	812.2	745.6	772.3	758.9
77.5°	5871.8	4560.3	2669.6	1451.3	898.7	772.3	699.0	639.1	592.5	645.8	639.1
80°	3781.4	2949.2	1784.2	972.0	619.1	539.2	512.6	479.3	525.9	685.7	699.0
82.5°	2310.1	1870.7	1065.2	632.5	406.1	359.5	332.9	332.9	539.2	592.5	599.2
85°	1031.9	992.0	579.2	326.2	226.4	206.4	186.4	239.7	219.7	159.8	166.4
87.5°	166.4	173.1	126.5	113.2	86.5	86.5	66.6	46.6	33.3	20.0	20.0
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)