

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: P841148

Luminaire Tested: **ARCH4-140-722-U-T2U**

Issue Date: 5/27/2024

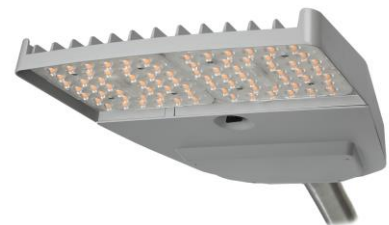
Test Information

Test Method: LM-79-08
Report Number: P841148
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: ARCH4-140-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20505 lumens
Efficiency: N/A
Efficacy: 145.1 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): 141.3
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



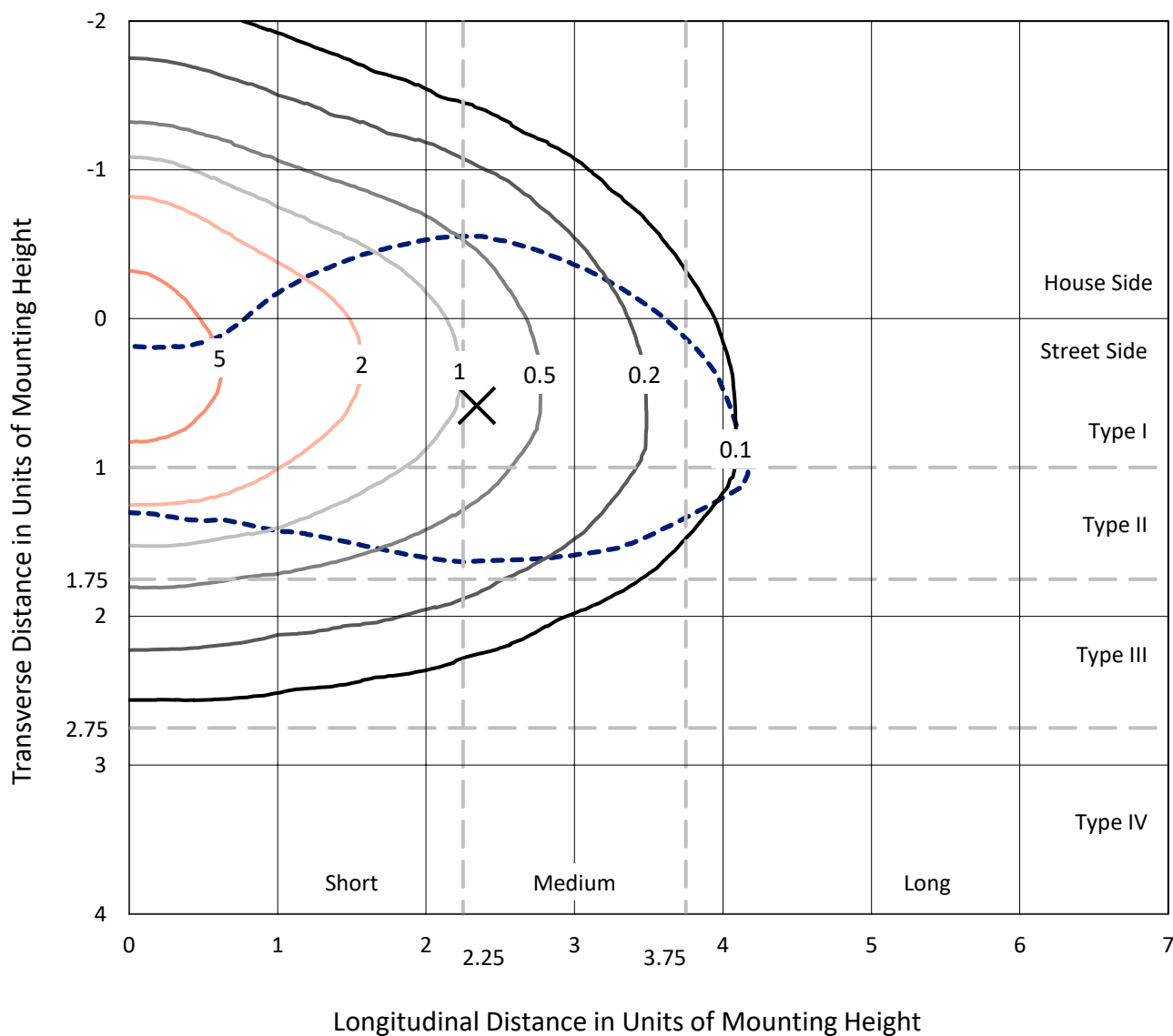
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

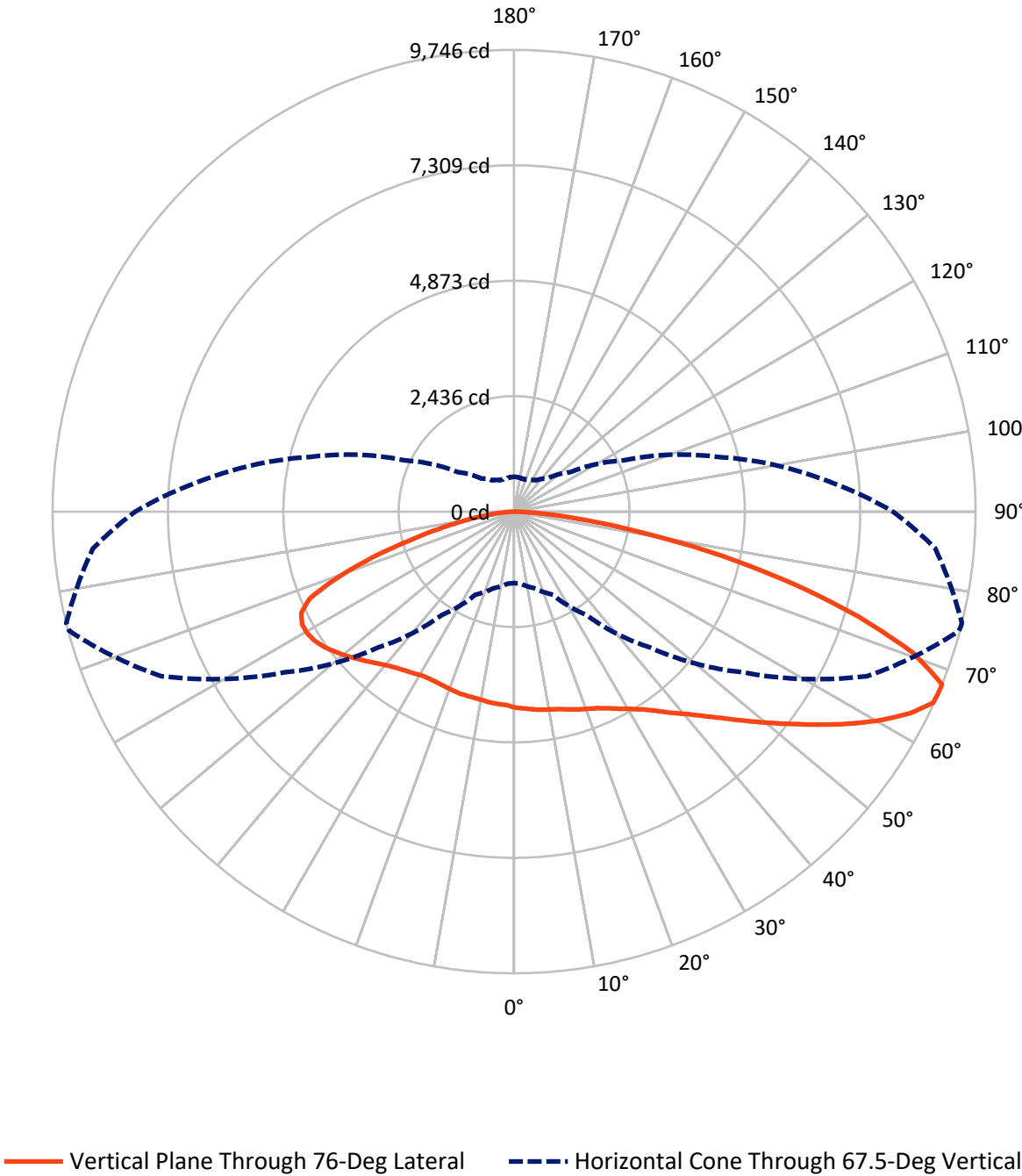
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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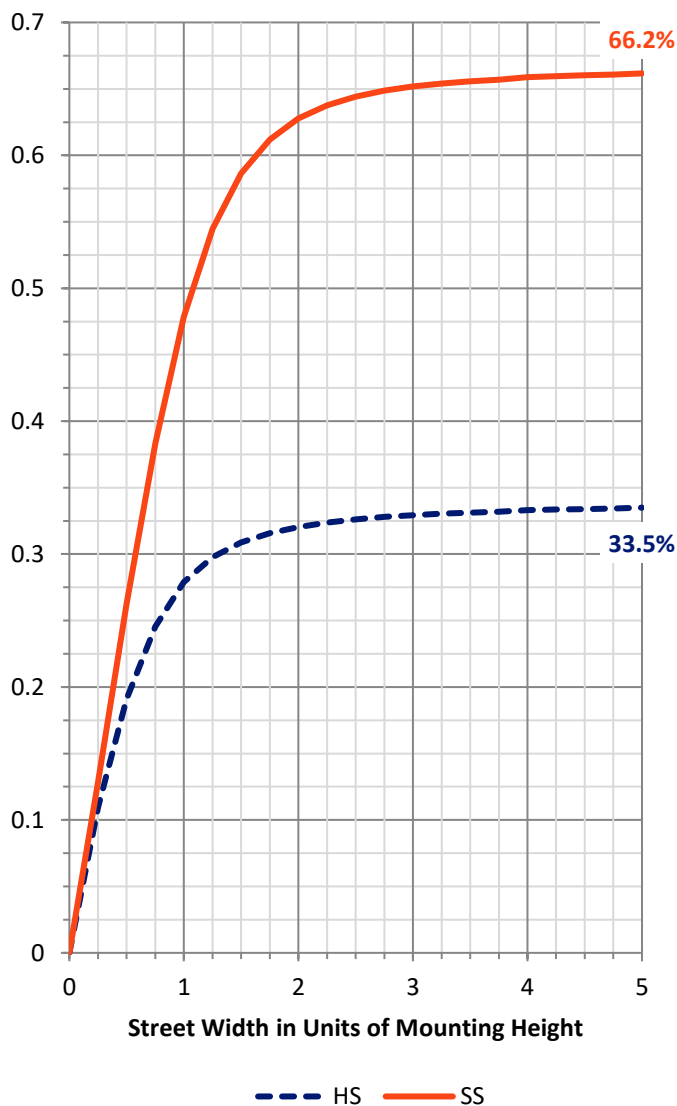
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6928.7	0.0	6928.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13576.3	0.0	13576.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	20505.0	0.0	20505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.9
10°-20°	1221.0	6.0
20°-30°	2074.6	10.1
30°-40°	2951.9	14.4
40°-50°	3728.1	18.2
50°-60°	4036.3	19.7
60°-70°	3754.3	18.3
70°-80°	2016.4	9.8
80°-90°	323.1	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°	20505.0	100.0
0°-180°	20505.0	100.0

Coefficient of Utilization



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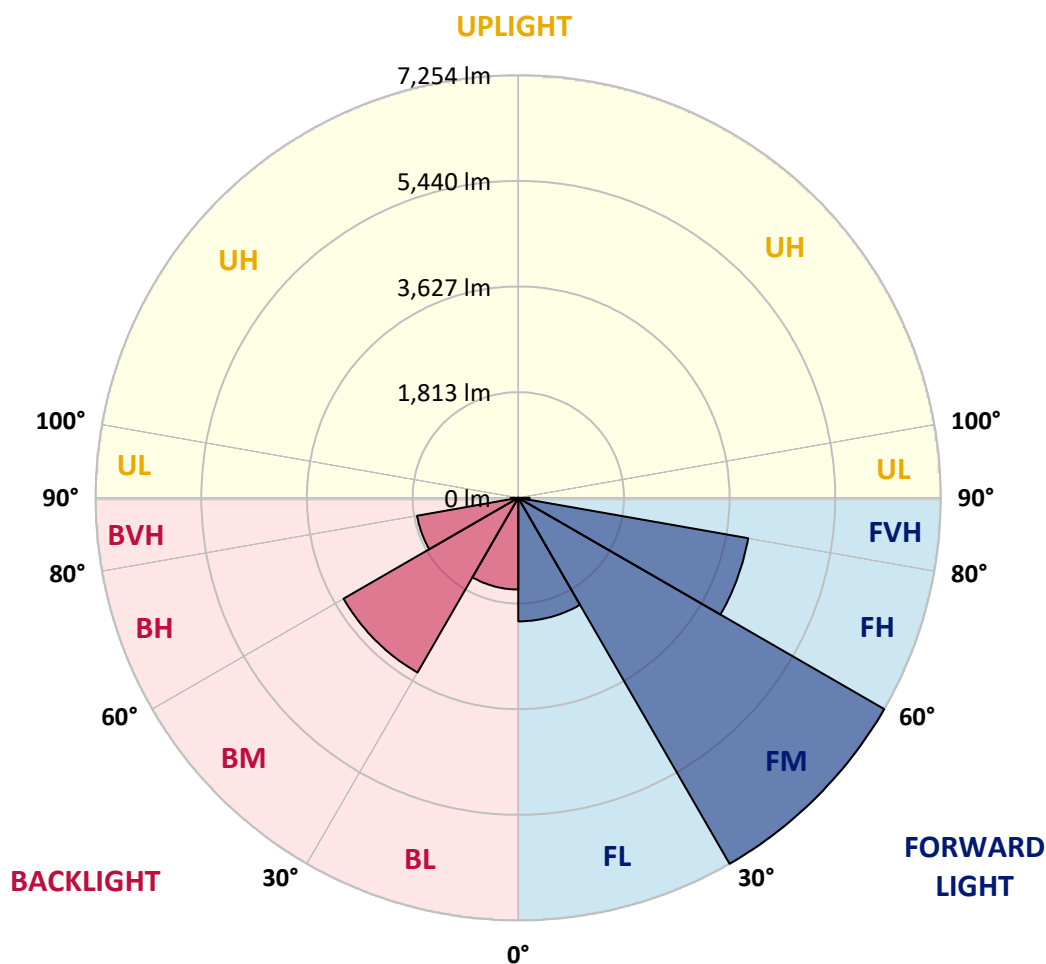
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2120.4	10.3			
FM	(30°-60°)	7253.9	35.4			
FH	(60°-80°)	4006.5	19.5			G2/5000
FVH	(80°-90°)	195.4	1.0			G2/225
BL	(0°-30°)	1574.6	7.7	B3/2500		
BM	(30°-60°)	3462.4	16.9	B3/5000		
BH	(60°-80°)	1764.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	127.6	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°	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0
2.5°	4267.6	4260.0	4229.5	4233.3	4233.3	4229.5	4183.8	4164.8	4164.8	4161.0	4119.1
5°	4419.9	4408.5	4374.2	4366.6	4351.3	4332.3	4260.0	4218.1	4199.1	4195.3	4138.2
7.5°	4598.8	4583.6	4541.7	4518.9	4480.8	4431.3	4339.9	4275.2	4229.5	4225.7	4145.8
10°	4777.7	4762.5	4713.0	4671.1	4617.8	4537.9	4419.9	4324.7	4252.4	4244.8	4149.6
12.5°	4990.9	4975.7	4914.8	4861.5	4781.5	4674.9	4518.9	4389.4	4290.4	4279.0	4161.0
15°	5215.5	5192.7	5131.8	5070.9	4971.9	4834.8	4648.3	4477.0	4351.3	4332.3	4195.3
17.5°	5402.1	5371.6	5322.1	5261.2	5150.8	4990.9	4777.7	4564.5	4408.5	4393.2	4229.5
20°	5562.0	5539.1	5485.8	5428.7	5310.7	5135.6	4899.5	4652.1	4461.7	4442.7	4256.2
22.5°	5714.2	5683.8	5653.3	5611.4	5482.0	5287.9	5040.4	4758.7	4530.3	4507.4	4290.4
25°	5889.4	5855.1	5843.7	5820.8	5668.6	5470.6	5211.7	4891.9	4625.4	4598.8	4351.3
27.5°	6106.4	6068.3	6045.4	6045.4	5862.7	5657.1	5394.5	5048.0	4735.8	4713.0	4427.5
30°	6334.8	6289.1	6254.8	6254.8	6049.2	5843.7	5573.4	5204.1	4861.5	4834.8	4526.5
32.5°	6536.5	6490.9	6452.8	6449.0	6235.8	6030.2	5759.9	5375.4	5013.8	4979.5	4648.3
35°	6692.6	6650.7	6616.5	6624.1	6422.3	6220.6	5969.3	5603.8	5204.1	5166.0	4808.2
37.5°	6787.8	6772.6	6753.5	6780.2	6593.6	6403.3	6186.3	5824.6	5421.1	5386.8	5006.1
40°	6837.3	6825.9	6902.0	6936.3	6738.3	6567.0	6403.3	6053.1	5657.1	5619.1	5234.6
42.5°	6909.6	7004.8	7035.2	7027.6	6844.9	6692.6	6601.3	6300.5	5935.0	5900.8	5508.7
45°	6650.7	6627.9	6795.4	6886.8	6852.5	6772.6	6787.8	6597.4	6258.6	6224.4	5824.6
47.5°	6304.3	6273.9	6369.0	6593.6	6726.9	6803.0	6955.3	6905.8	6631.7	6601.3	6193.9
50°	5573.4	5615.3	5969.3	6270.1	6532.7	6795.4	7096.2	7237.0	7042.9	7012.4	6589.8
52.5°	4762.5	4804.4	5173.6	5866.5	6296.7	6738.3	7198.9	7568.2	7488.3	7454.0	7012.4
55°	4172.4	4263.8	4682.6	5185.1	5961.7	6559.4	7259.9	7907.0	7968.0	7937.5	7473.0
57.5°	3586.1	3654.7	3970.7	4416.1	5504.9	6247.2	7256.1	8223.0	8470.5	8440.0	7941.3
60°	2897.1	2984.7	3235.9	3715.6	4895.7	5874.1	7149.5	8470.5	8954.0	8931.1	8394.3
62.5°	2425.0	2451.7	2630.6	3045.6	4111.5	5402.1	6909.6	8603.7	9391.8	9376.5	8801.7
65°	1953.0	1956.8	2120.5	2466.9	3353.9	4815.8	6502.3	8554.2	9723.0	9730.6	9094.8
67.5°	1507.6	1526.6	1675.1	1937.7	2664.9	4054.4	5919.8	8219.2	9726.8	9745.8	8927.3
70°	1043.1	1058.3	1282.9	1538.0	2059.6	3232.1	5131.8	7332.2	8927.3	8942.5	8002.2
72.5°	734.7	742.4	982.2	1229.6	1610.3	2436.4	3871.7	6064.5	7610.1	7621.5	6730.7
75°	548.2	555.8	692.9	932.7	1233.5	1686.5	2645.8	4644.5	6079.7	6079.7	5314.5
77.5°	388.3	392.1	449.2	643.4	822.3	1138.3	1591.3	3041.8	4461.7	4469.4	3871.7
80°	262.7	266.5	293.1	434.0	513.9	616.7	864.2	1595.1	2813.3	2824.8	2459.3
82.5°	137.1	144.7	163.7	220.8	258.9	342.6	445.4	810.9	1557.0	1587.5	1477.1
85°	53.3	53.3	60.9	72.3	95.2	133.2	205.6	308.4	704.3	727.1	651.0
87.5°	19.0	19.0	22.8	22.8	26.6	30.5	34.3	45.7	79.9	79.9	76.1
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°	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0
2.5°	4103.9	4103.9	4084.9	4092.5	4088.7	4081.1	4073.4	4084.9	4073.4	4046.8	4043.0
5°	4111.5	4103.9	4073.4	4069.6	4058.2	4043.0	4023.9	4031.6	4012.5	3989.7	3985.9
7.5°	4115.3	4100.1	4058.2	4043.0	4020.1	3989.7	3959.2	3959.2	3932.6	3909.7	3905.9
10°	4107.7	4088.7	4031.6	4001.1	3959.2	3913.5	3871.7	3860.3	3829.8	3803.1	3803.1
12.5°	4111.5	4084.9	4012.5	3963.0	3905.9	3848.8	3795.5	3780.3	3753.7	3727.0	3723.2
15°	4134.4	4096.3	4004.9	3940.2	3856.4	3791.7	3734.6	3723.2	3700.4	3681.3	3681.3
17.5°	4157.2	4107.7	3993.5	3902.1	3799.3	3727.0	3673.7	3673.7	3658.5	3647.1	3647.1
20°	4168.6	4111.5	3970.7	3848.8	3730.8	3654.7	3605.2	3612.8	3609.0	3605.2	3605.2
22.5°	4195.3	4119.1	3951.6	3799.3	3658.5	3578.5	3532.9	3544.3	3540.5	3540.5	3544.3
25°	4237.1	4138.2	3936.4	3753.7	3590.0	3502.4	3452.9	3460.5	3460.5	3460.5	3460.5
27.5°	4294.2	4176.2	3932.6	3711.8	3521.4	3422.5	3361.5	3361.5	3346.3	3350.1	3353.9
30°	4381.8	4248.6	3940.2	3673.7	3449.1	3323.5	3251.1	3239.7	3235.9	3243.5	3247.3
32.5°	4488.4	4347.5	3985.9	3647.1	3373.0	3213.1	3121.7	3117.9	3106.5	3106.5	3106.5
35°	4621.6	4442.7	4027.8	3643.3	3296.8	3095.1	2996.1	2984.7	2958.0	2946.6	2946.6
37.5°	4793.0	4591.2	4077.2	3616.6	3232.1	2980.8	2862.8	2824.8	2794.3	2790.5	2790.5
40°	5002.3	4758.7	4149.6	3586.1	3163.6	2862.8	2706.7	2642.0	2645.8	2661.1	2661.1
42.5°	5249.8	4964.3	4240.9	3570.9	3064.6	2741.0	2524.0	2447.9	2474.5	2489.7	2493.6
45°	5539.1	5207.9	4343.7	3551.9	2973.2	2604.0	2329.9	2234.7	2246.1	2249.9	2253.7
47.5°	5874.1	5478.2	4450.3	3536.7	2870.4	2432.6	2116.7	1991.0	1987.2	1964.4	1972.0
50°	6224.4	5763.7	4560.7	3510.0	2744.8	2230.9	1892.1	1743.6	1713.1	1678.9	1682.7
52.5°	6597.4	6056.9	4663.5	3468.1	2588.7	2025.3	1678.9	1519.0	1458.1	1420.0	1427.6
55°	7008.6	6357.6	4762.5	3403.4	2425.0	1819.7	1488.5	1324.8	1248.7	1218.2	1222.0
57.5°	7385.5	6646.9	4834.8	3323.5	2246.1	1633.2	1321.0	1161.1	1111.6	1107.8	1111.6
60°	7751.0	6890.6	4865.3	3213.1	2063.4	1461.9	1164.9	1043.1	1008.8	1027.9	1031.7
62.5°	8059.3	7046.7	4850.1	3064.6	1876.8	1298.2	1039.3	951.7	928.9	967.0	970.8
65°	8238.2	7096.2	4743.5	2851.4	1675.1	1138.3	921.3	826.1	814.7	837.5	849.0
67.5°	8002.2	6787.8	4454.1	2558.3	1450.4	989.8	807.1	730.9	711.9	730.9	730.9
70°	7092.4	5881.7	3768.9	2093.8	1203.0	845.1	700.5	647.2	632.0	647.2	643.4
72.5°	5908.4	4891.9	2969.4	1633.2	947.9	711.9	609.1	559.6	544.4	529.2	521.6
75°	4583.6	3715.6	2154.7	1199.2	715.7	571.0	510.1	464.4	426.4	441.6	434.0
77.5°	3357.7	2607.8	1526.6	829.9	513.9	441.6	399.7	365.5	338.8	369.3	365.5
80°	2162.3	1686.5	1020.3	555.8	354.0	308.4	293.1	274.1	300.7	392.1	399.7
82.5°	1321.0	1069.8	609.1	361.7	232.2	205.6	190.3	190.3	308.4	338.8	342.6
85°	590.1	567.2	331.2	186.5	129.4	118.0	106.6	137.1	125.6	91.4	95.2
87.5°	95.2	99.0	72.3	64.7	49.5	49.5	38.1	26.6	19.0	11.4	11.4
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)