

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: P1211429

Luminaire Tested: **ARCH4-270-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39116 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 269
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



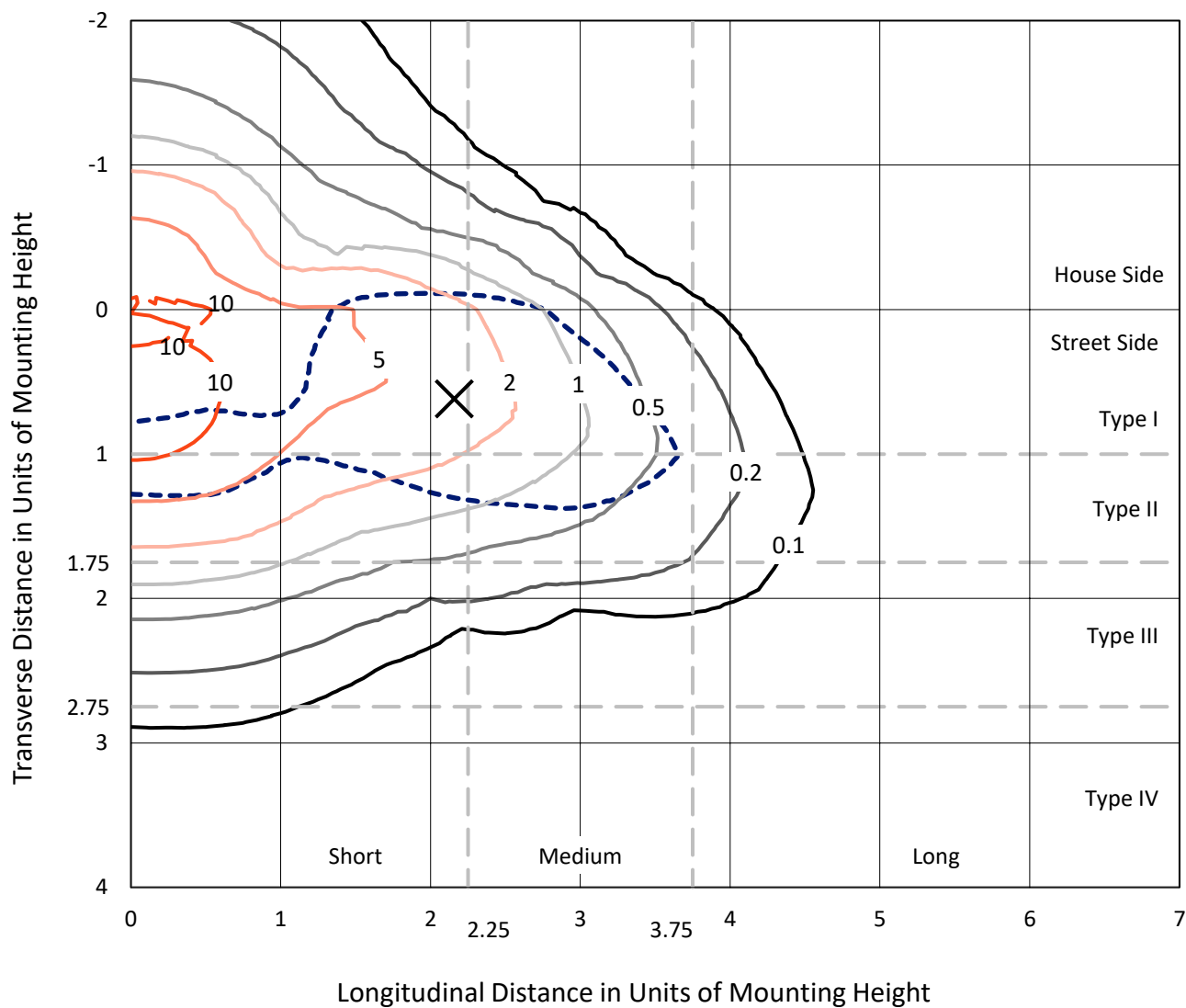
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

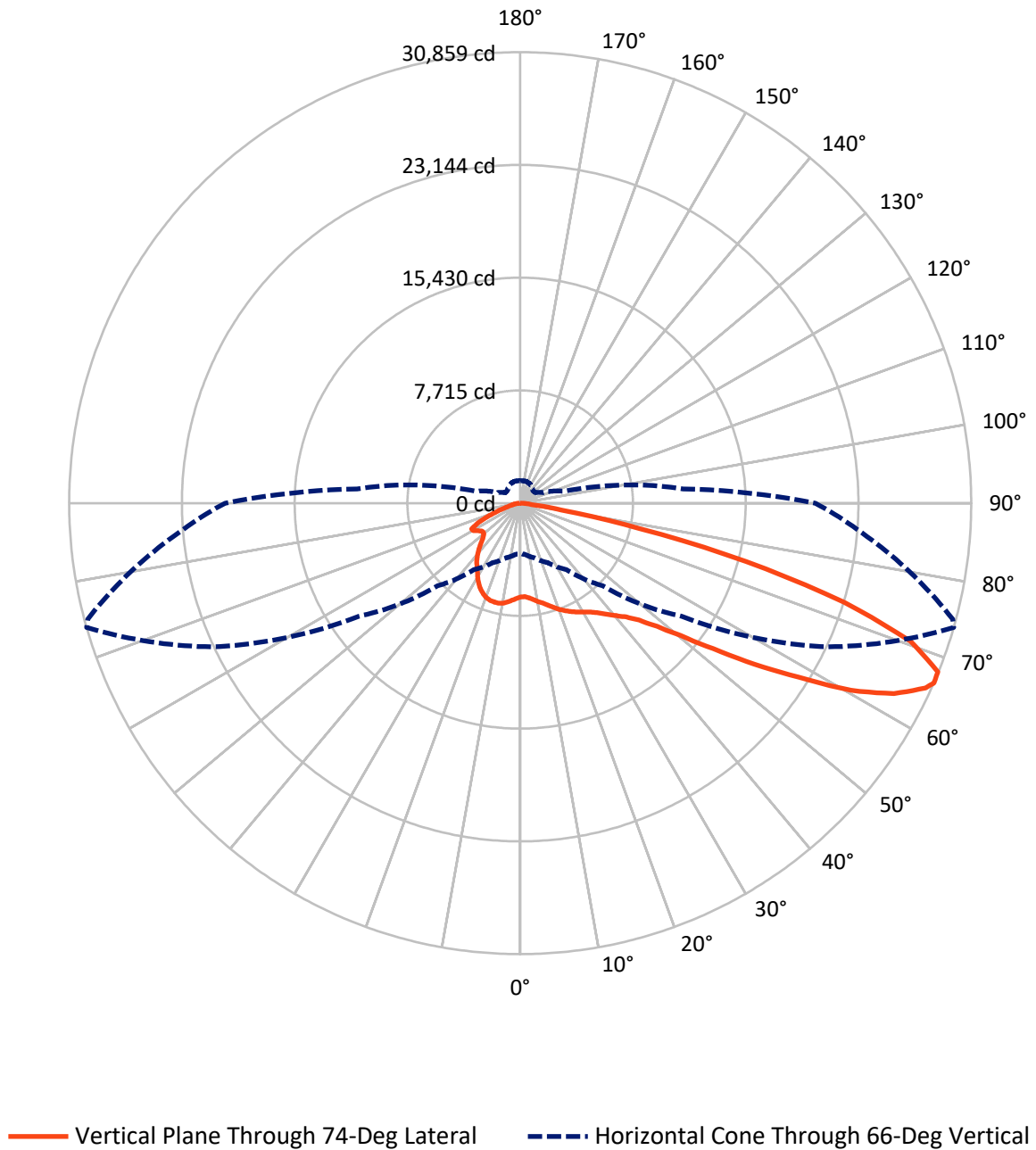


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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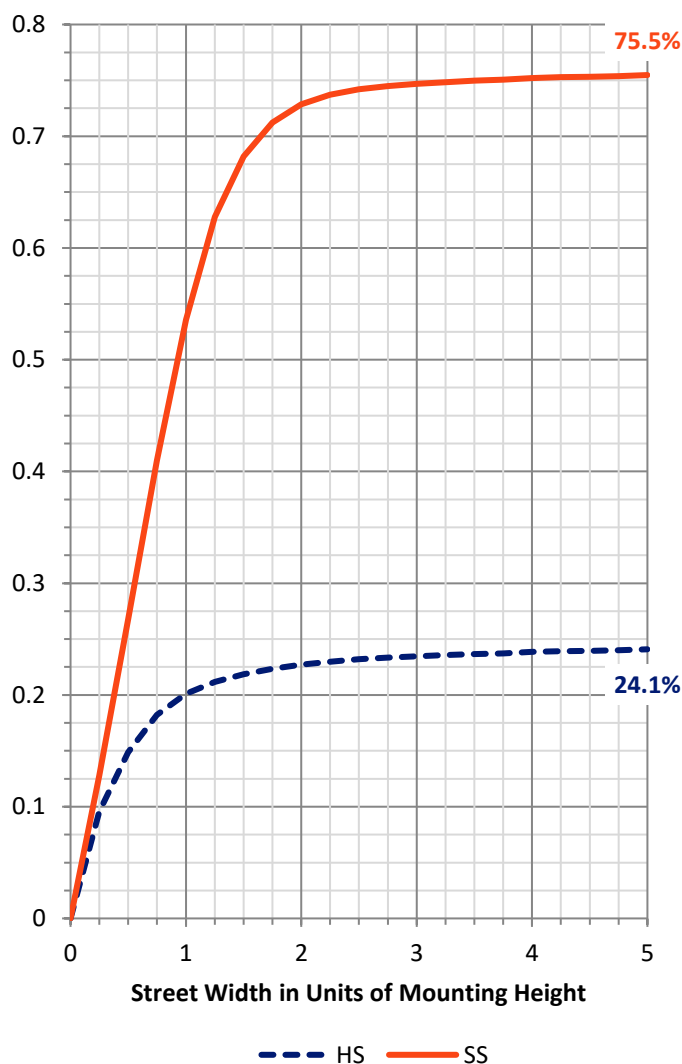
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9525.8	0.0	9525.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	29590.2	0.0	29590.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	39116.0	0.0	39116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.7	1.6
10°-20°	1881.1	4.8
20°-30°	3529.8	9.0
30°-40°	5429.7	13.9
40°-50°	7303.4	18.7
50°-60°	8637.2	22.1
60°-70°	7989.9	20.4
70°-80°	3361.3	8.6
80°-90°	372.0	1.0
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°	39116.0	100.0
0°-180°	39116.0	100.0

Coefficient of Utilization



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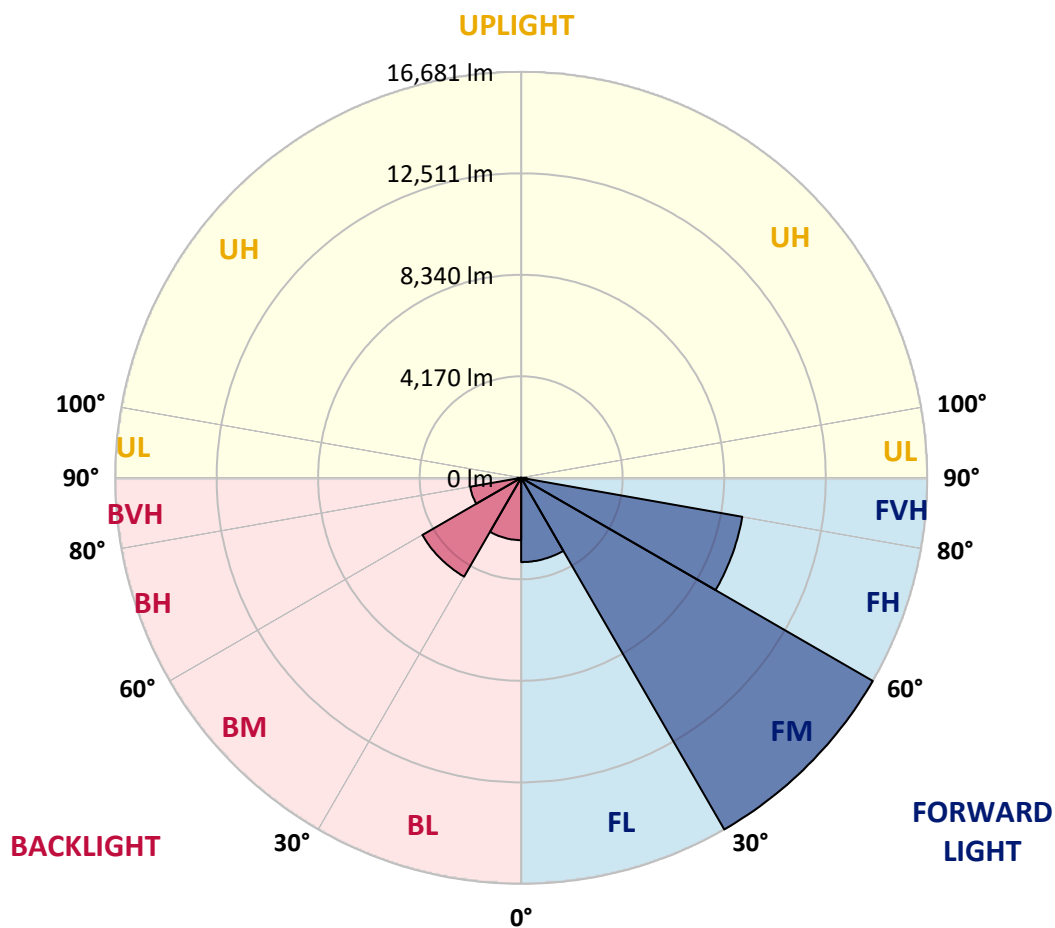
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3462.2	8.9			
FM	(30°-60°)	16680.8	42.6			
FH	(60°-80°)	9224.6	23.6			G4/12000
FVH	(80°-90°)	222.5	0.6			G2/225
BL	(0°-30°)	2560.3	6.5	B4/5000		
BM	(30°-60°)	4689.6	12.0	B3/5000		
BH	(60°-80°)	2126.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	149.4	0.4			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4
2.5°	6392.3	6382.2	6402.3	6432.5	6447.6	6422.5	6412.4	6407.4	6407.4	6392.3	6417.4
5°	6090.3	6085.2	6130.5	6185.9	6291.6	6367.1	6467.8	6528.2	6508.0	6477.8	6498.0
7.5°	5697.7	5687.6	5743.0	5848.7	5994.6	6160.7	6407.4	6598.6	6674.1	6664.1	6659.0
10°	5848.7	5838.6	5833.6	5803.4	5853.7	6014.8	6271.5	6608.7	6865.4	6870.4	6875.5
12.5°	6372.1	6397.3	6372.1	6276.5	6165.8	6105.4	6256.4	6633.9	7026.5	7056.7	7182.5
15°	7086.9	7061.7	7011.4	6900.6	6729.5	6548.3	6437.6	6749.6	7258.0	7283.2	7560.0
17.5°	7716.0	7736.2	7706.0	7600.3	7398.9	7162.4	6825.1	6951.0	7504.6	7575.1	7962.7
20°	8400.6	8481.1	8440.8	8310.0	8143.9	7791.5	7368.7	7242.9	7776.4	7826.8	8380.4
22.5°	9190.8	9276.4	9200.9	9075.0	8939.1	8506.3	7962.7	7600.3	8002.9	8108.6	8783.1
25°	10137.0	10217.6	10147.1	9950.8	9779.7	9251.2	8601.9	8002.9	8224.4	8340.2	9110.3
27.5°	10887.0	10947.4	11012.8	10897.1	10635.3	10086.7	9266.3	8420.7	8445.9	8566.7	9412.3
30°	11556.4	11707.4	11762.8	11777.9	11556.4	10942.4	9945.8	8853.6	8637.1	8763.0	9714.3
32.5°	12472.5	12699.0	12608.4	12699.0	12568.1	11747.7	10650.4	9301.5	8883.8	8999.5	10001.1
35°	13811.4	13992.5	13756.0	13685.5	13474.1	12563.1	11329.9	9764.6	9210.9	9336.8	10272.9
37.5°	15250.9	15457.2	15115.0	14833.1	14430.4	13368.4	11913.8	10373.6	9663.9	9764.6	10524.6
40°	16509.2	16680.3	16383.4	16010.9	15336.4	14078.1	12417.1	10801.4	10116.9	10242.7	10816.5
42.5°	17671.9	17782.6	17450.4	17093.1	16192.1	14717.3	12960.7	11254.4	10645.4	10766.2	11053.1
45°	18849.7	18935.2	18472.2	17963.8	16906.8	15301.2	13559.7	11888.6	11420.5	11581.6	11435.6
47.5°	19061.1	19086.2	19005.7	18663.4	17470.6	15859.9	14299.6	12739.3	12603.4	12779.5	12095.0
50°	17596.4	17822.9	18321.2	18658.4	17697.1	16328.0	15039.5	13957.3	14234.1	14460.6	13464.1
52.5°	14752.6	14969.0	16121.6	17400.1	17153.5	16433.7	15834.7	15502.5	16534.4	16806.2	15326.4
55°	11752.7	11944.0	13162.1	15004.2	15396.8	15950.5	16685.4	17475.6	19468.8	19650.0	17369.9
57.5°	9679.0	9784.7	10655.5	12427.2	13056.4	14405.3	17143.4	19821.1	22453.5	22730.3	19146.6
60°	7937.5	8053.3	8702.6	10162.2	10997.7	12195.7	16781.0	22136.4	26017.1	26017.1	21426.7
62.5°	5974.5	6075.2	6679.2	7821.7	9226.0	10323.3	15623.3	23671.6	28704.9	28584.1	23077.6
65°	4102.1	4182.7	4620.6	5380.6	6643.9	8798.2	14042.9	23691.7	30486.6	30325.6	23782.3
66°	3442.8	3513.2	3885.7	4499.8	5561.8	7982.8	13484.2	23263.9	30859.1	30632.6	23485.3
67.5°	2718.0	2768.3	3014.9	3377.3	4077.0	6462.7	12603.4	22050.8	30823.9	30688.0	22730.3
70°	1942.9	1978.1	2159.3	2234.8	2410.9	3739.7	10011.2	19312.7	28352.5	28392.8	19760.7
72.5°	1505.0	1560.3	1671.1	1686.2	1645.9	1988.1	6075.2	16111.6	23193.4	23178.3	14667.0
75°	1213.0	1243.2	1298.6	1328.8	1318.7	1283.5	2572.0	12019.5	15965.6	16151.8	8214.3
77.5°	956.3	951.3	1001.6	1041.9	1072.1	1006.7	1177.8	7046.6	8370.4	8133.8	3085.4
80°	704.7	704.7	775.1	790.2	835.5	845.6	785.2	2718.0	2874.0	2612.3	800.3
82.5°	463.1	463.1	538.6	548.6	593.9	659.4	568.8	815.4	795.3	755.0	362.4
85°	251.7	241.6	266.8	302.0	327.2	387.6	342.3	407.7	417.8	412.7	241.6
87.5°	50.3	45.3	70.5	80.5	90.6	120.8	110.7	166.1	231.5	226.5	105.7
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°	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4	6412.4
2.5°	6452.7	6447.6	6503.0	6568.4	6643.9	6689.2	6709.4	6744.6	6719.4	6729.5	6759.7
5°	6548.3	6563.4	6643.9	6729.5	6764.7	6739.6	6684.2	6664.1	6618.8	6608.7	6598.6
7.5°	6689.2	6714.4	6794.9	6815.1	6709.4	6533.2	6407.4	6336.9	6261.4	6241.3	6231.2
10°	6920.8	6935.9	6956.0	6749.6	6487.9	6251.3	6095.3	6029.9	5979.5	5939.3	5949.4
12.5°	7212.7	7202.6	7046.6	6618.8	6246.3	6004.7	5899.0	5858.8	5823.5	5798.4	5793.3
15°	7580.1	7509.7	7061.7	6437.6	6019.8	5818.5	5743.0	5727.9	5687.6	5687.6	5682.6
17.5°	7952.6	7771.4	7051.6	6246.3	5803.4	5692.7	5647.4	5637.3	5627.2	5622.2	5637.3
20°	8325.1	8002.9	6971.1	6009.7	5652.4	5587.0	5576.9	5581.9	5571.9	5587.0	5576.9
22.5°	8652.2	8153.9	6820.1	5758.1	5546.7	5541.7	5516.5	5526.6	5561.8	5566.8	5581.9
25°	8903.9	8209.3	6598.6	5526.6	5471.2	5461.1	5491.3	5531.6	5561.8	5566.8	5592.0
27.5°	9110.3	8179.1	6321.8	5345.4	5340.3	5395.7	5486.3	5501.4	5506.4	5506.4	5486.3
30°	9266.3	8113.7	5969.5	5144.0	5169.2	5305.1	5390.7	5390.7	5350.4	5340.3	5370.5
32.5°	9301.5	8028.1	5587.0	4937.7	4977.9	5139.0	5244.7	5209.5	5164.2	5164.2	5184.3
35°	9331.7	7912.3	5279.9	4655.8	4716.2	4907.5	5008.1	4937.7	4887.3	4872.2	4867.2
37.5°	9321.7	7867.0	5003.1	4298.4	4379.0	4565.2	4630.6	4565.2	4489.7	4454.5	4499.8
40°	9331.7	7836.8	4655.8	3905.8	3986.4	4097.1	4182.7	4132.3	4061.9	3971.3	4016.6
42.5°	9392.1	7877.1	4273.3	3523.3	3523.3	3583.7	3729.7	3694.4	3523.3	3488.1	3528.3
45°	9714.3	8093.5	3890.7	3140.8	3085.4	3125.7	3276.7	3125.7	3020.0	3020.0	3055.2
47.5°	10494.4	8496.2	3553.5	2803.5	2672.7	2753.2	2793.5	2652.5	2572.0	2551.9	2587.1
50°	12084.9	9301.5	3352.2	2526.7	2365.6	2426.0	2400.9	2395.8	2315.3	2325.4	2345.5
52.5°	14500.9	10871.9	3291.8	2390.8	2189.5	2204.6	2179.4	2189.5	2174.4	2224.7	2239.8
55°	17133.3	12527.9	3367.3	2410.9	2068.7	1963.0	1973.1	2023.4	2083.8	2164.3	2179.4
57.5°	19101.3	13358.4	3563.6	2546.8	1917.7	1756.6	1781.8	1877.4	1993.2	2058.6	2093.8
60°	20566.0	13257.7	3850.5	2582.1	1736.5	1570.4	1615.7	1756.6	1857.3	1912.7	1947.9
62.5°	21044.2	12628.5	3920.9	2325.4	1499.9	1394.2	1505.0	1650.9	1696.2	1756.6	1781.8
65°	20651.6	11737.6	3407.5	1887.5	1318.7	1263.4	1424.4	1535.2	1595.6	1625.8	1630.8
66°	20188.5	11204.1	3130.7	1716.4	1253.3	1223.1	1394.2	1484.8	1545.2	1540.2	1545.2
67.5°	19171.8	10086.7	2682.7	1474.8	1157.7	1162.7	1343.9	1404.3	1424.4	1409.3	1409.3
70°	15713.9	7102.0	1922.7	1117.4	1016.7	1087.2	1208.0	1223.1	1268.4	1248.3	1248.3
72.5°	9689.1	3488.1	1288.5	855.7	906.0	1016.7	1011.7	1062.0	1167.7	1197.9	1218.1
75°	4761.5	1414.4	850.6	724.8	810.4	850.6	840.6	966.4	1117.4	1248.3	1293.6
77.5°	1807.0	704.7	593.9	634.2	654.3	639.2	669.4	875.8	1117.4	1354.0	1399.3
80°	558.7	488.2	468.1	523.5	493.3	468.1	503.3	724.8	946.3	1026.8	1026.8
82.5°	337.2	382.5	362.4	357.4	332.2	337.2	362.4	518.4	729.8	765.1	765.1
85°	236.6	251.7	206.4	196.3	191.3	186.2	186.2	302.0	432.9	427.8	442.9
87.5°	90.6	100.7	75.5	75.5	70.5	50.3	40.3	50.3	50.3	35.2	25.2
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)