

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: P842046

Luminaire Tested: **ARCH4-260-740-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39823 lumens
Efficiency: N/A
Efficacy: 153.6 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): 259.2
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



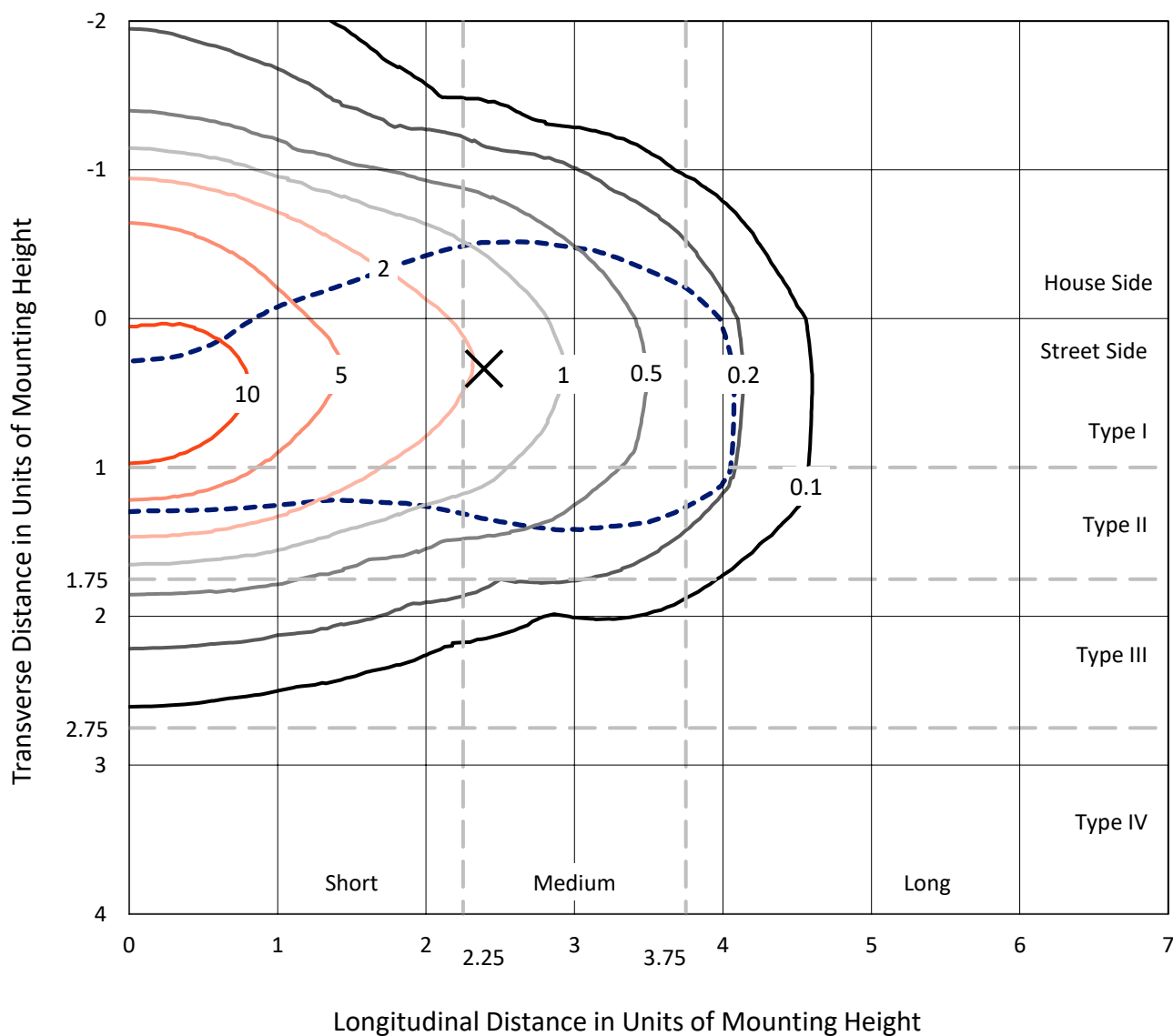
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

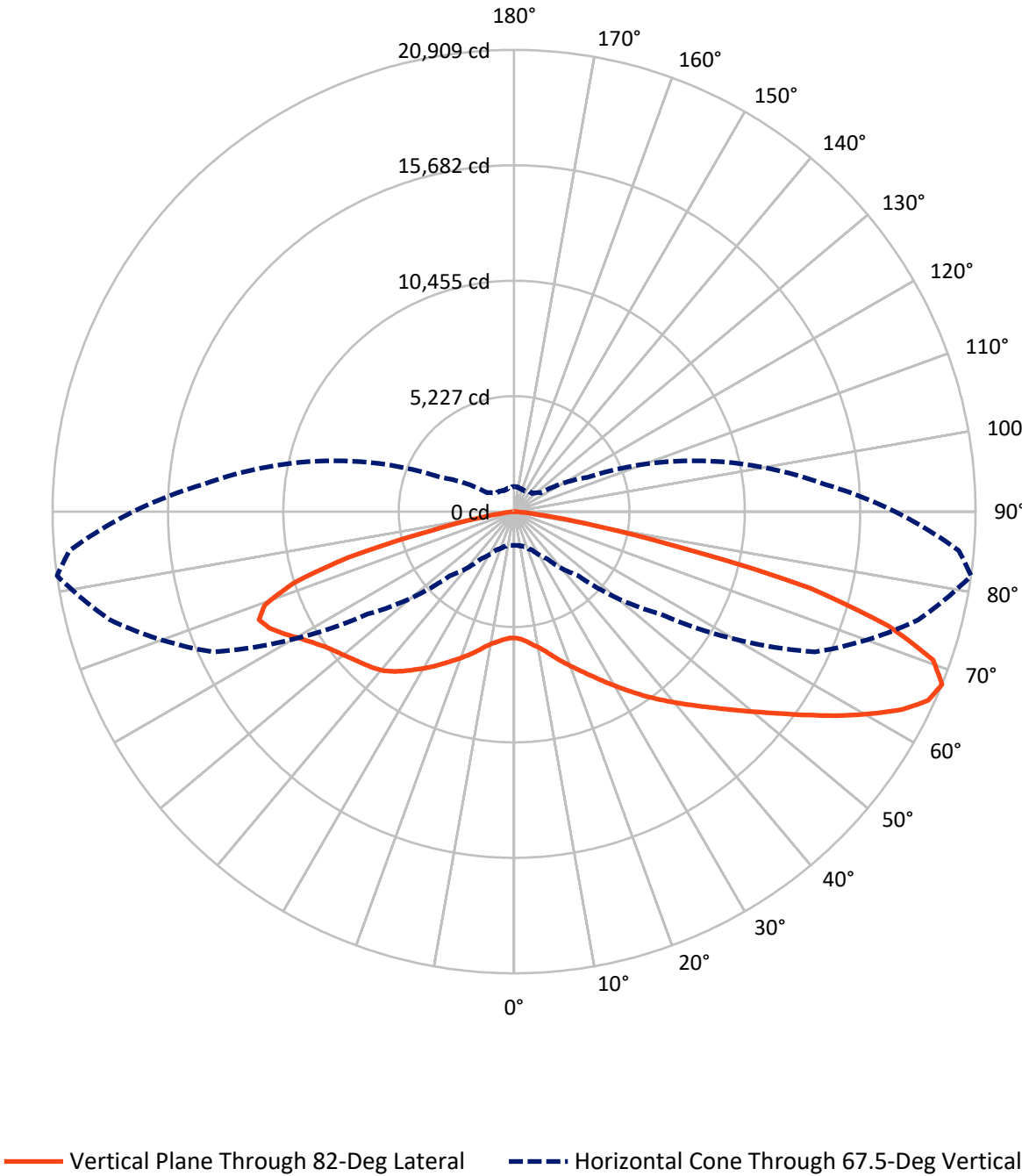
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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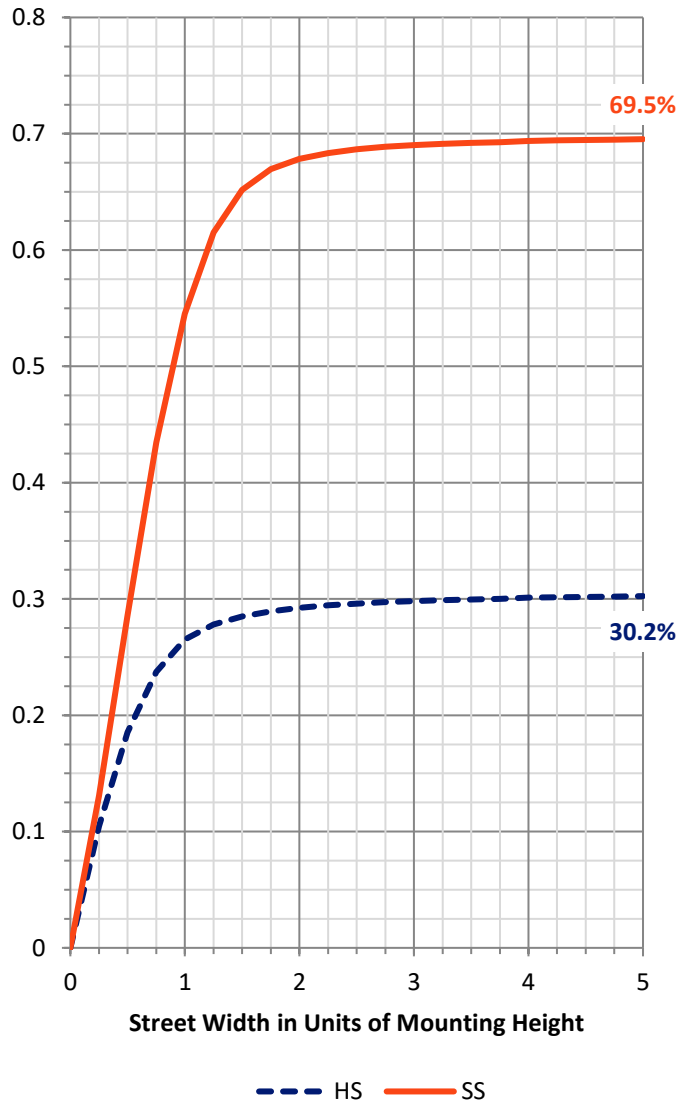
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12127.7	0.0	12127.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	27695.3	0.0	27695.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	39823.0	0.0	39823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	1.5
10°-20°	2131.0	5.4
20°-30°	4282.8	10.8
30°-40°	6727.6	16.9
40°-50°	8195.6	20.6
50°-60°	7743.8	19.4
60°-70°	6394.6	16.1
70°-80°	3482.2	8.7
80°-90°	273.8	0.7
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°	39823.0	100.0
0°-180°	39823.0	100.0

Coefficient of Utilization



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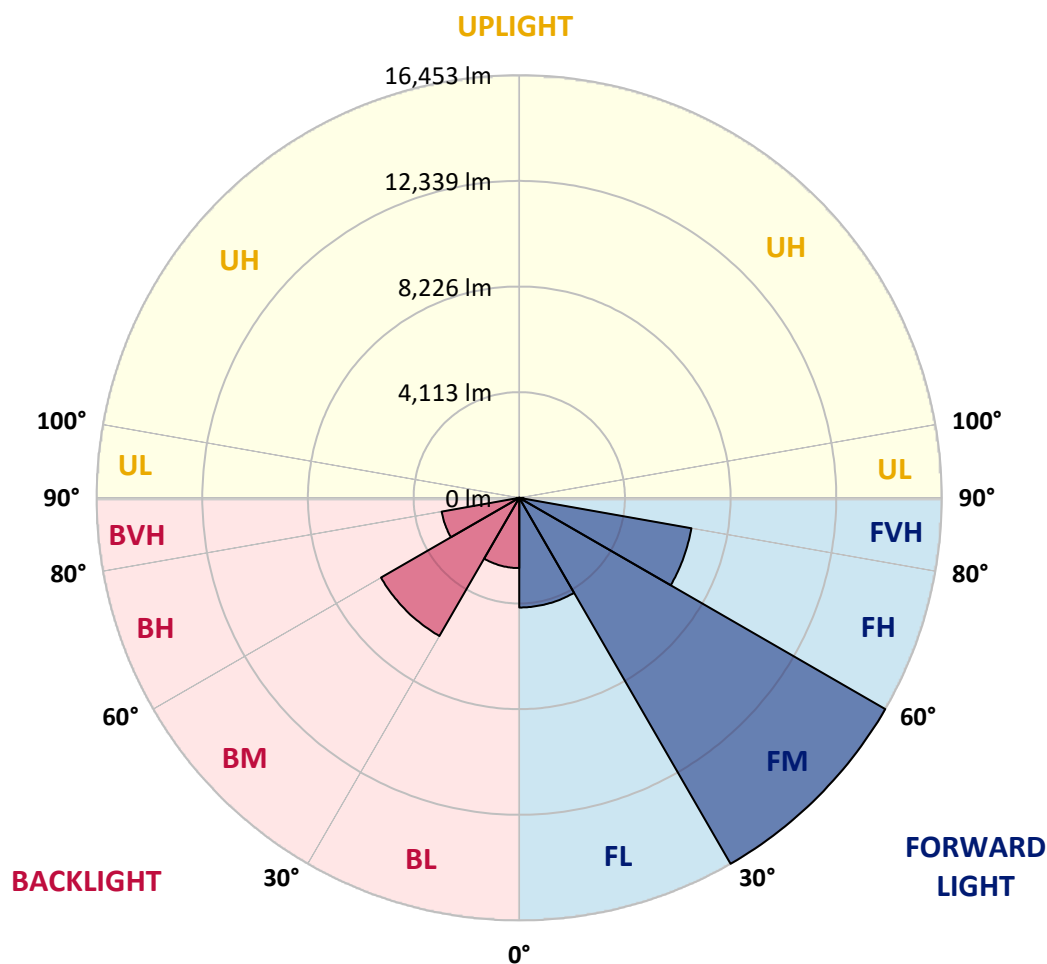
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4270.5	10.7			
FM	(30°-60°)	16452.6	41.3			
FH	(60°-80°)	6807.2	17.1			G3/7500
FVH	(80°-90°)	165.0	0.4			G2/225
BL	(0°-30°)	2734.9	6.9	B4/5000		
BM	(30°-60°)	6214.5	15.6	B4/8500		
BH	(60°-80°)	3069.6	7.7	B4/5000		G4/5000
BVH	(80°-90°)	108.8	0.3			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°	82°	85°
0°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	5984.7	5984.7	6031.0	6031.0	5990.5	5926.9	5909.6	5840.2	5776.6	5776.6	5782.4
5°	6557.2	6551.4	6586.1	6539.8	6441.5	6314.3	6227.6	6077.3	5950.0	5909.6	5903.8
7.5°	7256.9	7251.1	7268.4	7193.3	7008.2	6800.1	6626.6	6383.7	6175.6	6088.8	6065.7
10°	8037.5	8031.7	8014.3	7887.1	7638.5	7314.7	7054.5	6719.1	6406.9	6268.1	6239.2
12.5°	8933.7	8922.2	8881.7	8696.7	8355.5	7939.2	7563.3	7129.6	6713.3	6522.5	6458.9
15°	9934.1	9916.7	9841.6	9616.1	9159.3	8633.1	8147.3	7592.2	7083.4	6834.7	6748.0
17.5°	10986.5	10986.5	10870.8	10535.5	10026.6	9373.2	8771.8	8066.4	7470.8	7164.3	7060.3
20°	12056.2	12050.4	11905.9	11501.1	10899.7	10148.0	9384.8	8609.9	7869.8	7499.7	7372.5
22.5°	13183.8	13172.2	12993.0	12530.4	11813.4	10963.4	10072.9	9147.7	8309.3	7864.0	7702.1
25°	14479.0	14461.7	14242.0	13675.3	12825.3	11865.4	10847.7	9778.0	8812.3	8268.8	8078.0
27.5°	15855.2	15832.1	15571.9	14912.7	13981.7	12825.3	11703.5	10506.5	9367.4	8719.8	8505.9
30°	17081.1	17063.7	16780.4	16103.9	15034.1	13779.4	12518.8	11235.1	9951.4	9199.7	8933.7
32.5°	18006.3	18006.3	17751.8	17086.9	15976.7	14693.0	13339.9	11923.2	10558.6	9714.4	9402.1
35°	18567.2	18584.5	18364.8	17832.8	16786.2	15554.5	14189.9	12732.8	11206.2	10263.7	9928.3
37.5°	18648.1	18705.9	18578.7	18220.2	17347.1	16271.6	15022.6	13513.4	11877.0	10818.8	10442.9
40°	18272.3	18312.7	18318.5	18179.7	17578.4	16786.2	15756.9	14340.3	12588.2	11402.8	10969.1
42.5°	17520.5	17549.5	17601.5	17642.0	17410.7	17011.7	16317.8	15109.3	13345.7	11998.4	11489.5
45°	16549.1	16543.3	16630.1	16803.5	16792.0	16884.5	16630.1	15809.0	14132.1	12674.9	12067.8
47.5°	15097.7	15068.8	15375.3	15768.5	15965.1	16398.8	16635.8	16358.3	14987.9	13420.9	12727.0
50°	12825.3	12796.4	13467.1	14392.3	14970.5	15629.7	16317.8	16687.9	15884.1	14259.3	13444.0
52.5°	10061.3	10032.4	10882.4	12501.5	13762.0	14721.9	15676.0	16763.1	16734.1	15196.0	14253.5
55°	7482.4	7459.2	8286.1	10038.2	12079.3	13669.5	14889.6	16566.5	17532.1	16271.6	15236.5
57.5°	5273.5	5261.9	5979.0	7430.3	9916.7	12385.8	14132.1	16184.8	18266.5	17439.6	16346.7
60°	3700.7	3683.4	4203.8	5325.6	7499.7	10448.7	13380.4	15676.0	18815.8	18590.3	17526.3
62.5°	2492.2	2480.6	2850.7	3787.4	5325.6	8043.3	12241.3	15334.8	19128.0	19746.8	18717.5
65°	1890.8	1885.0	2052.7	2567.4	3770.1	5776.6	10431.4	15294.3	19168.5	20614.1	19729.4
67.5°	1526.5	1532.3	1624.8	1919.7	2607.8	4105.5	8089.5	15039.9	18954.6	20909.0	20220.9
70°	1249.0	1249.0	1289.5	1486.1	1925.5	2769.8	5649.4	13883.4	18359.0	20140.0	19636.9
72.5°	954.1	959.9	1087.1	1202.7	1451.4	1942.9	3619.8	11489.5	16953.9	17757.6	17376.0
75°	757.5	751.7	826.9	988.8	1127.6	1387.8	2220.4	8239.9	14427.0	13877.7	13634.8
77.5°	543.5	537.8	595.6	734.4	855.8	983.0	1324.2	4157.5	7846.7	7210.6	7031.3
80°	370.1	358.5	410.5	508.8	566.7	578.2	647.6	1595.9	3423.2	3226.6	3186.1
82.5°	190.8	190.8	219.7	289.1	294.9	300.7	289.1	514.6	1133.3	1058.2	1011.9
85°	75.2	75.2	81.0	98.3	98.3	104.1	104.1	133.0	121.4	115.6	109.9
87.5°	5.8	5.8	11.6	11.6	17.3	17.3	17.3	23.1	28.9	28.9	28.9
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°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	5770.8	5747.7	5672.5	5655.1	5643.6	5626.2	5632.0	5591.5	5574.2	5580.0	5556.8
5°	5874.9	5834.4	5741.9	5701.4	5689.8	5672.5	5689.8	5660.9	5632.0	5643.6	5632.0
7.5°	6019.4	5961.6	5846.0	5805.5	5799.7	5782.4	5805.5	5782.4	5759.2	5770.8	5747.7
10°	6169.8	6094.6	5967.4	5926.9	5926.9	5921.1	5944.3	5909.6	5886.4	5892.2	5880.7
12.5°	6389.5	6291.2	6152.4	6117.7	6100.4	6117.7	6123.5	6077.3	6036.8	6042.6	6025.2
15°	6655.5	6545.6	6395.3	6343.2	6331.7	6325.9	6302.8	6244.9	6192.9	6187.1	6169.8
17.5°	6944.6	6805.8	6626.6	6574.5	6522.5	6505.2	6447.3	6372.2	6291.2	6291.2	6268.1
20°	7222.2	7066.0	6852.1	6776.9	6701.8	6632.4	6534.1	6412.6	6308.6	6291.2	6268.1
22.5°	7522.8	7337.8	7089.2	6979.3	6846.3	6707.5	6539.8	6377.9	6244.9	6216.0	6198.7
25°	7858.2	7626.9	7332.0	7170.1	6956.2	6742.2	6493.6	6285.4	6129.3	6083.0	6071.5
27.5°	8228.3	7950.7	7592.2	7355.2	7042.9	6707.5	6389.5	6140.9	5950.0	5892.2	5874.9
30°	8604.2	8274.6	7829.3	7482.4	7042.9	6597.7	6198.7	5909.6	5689.8	5608.9	5597.3
32.5°	8980.0	8609.9	8043.3	7551.8	6973.5	6412.6	5950.0	5608.9	5360.2	5261.9	5285.1
35°	9431.0	8980.0	8239.9	7580.7	6857.9	6187.1	5666.7	5267.7	5013.3	4926.6	4943.9
37.5°	9899.4	9350.1	8396.0	7557.5	6696.0	5932.7	5348.7	4961.3	4643.2	4492.9	4510.2
40°	10304.2	9685.5	8505.9	7476.6	6487.8	5643.6	5036.4	4527.6	4088.1	3943.6	3926.2
42.5°	10685.8	9934.1	8563.7	7355.2	6250.7	5308.2	4591.2	3937.8	3498.3	3319.1	3324.9
45°	11084.8	10177.0	8540.5	7193.3	5955.8	4915.0	4018.7	3359.6	2972.1	2810.2	2816.0
47.5°	11541.6	10437.2	8517.4	7019.8	5597.3	4406.2	3469.4	2850.7	2515.3	2399.7	2388.1
50°	12027.3	10726.3	8488.5	6805.8	5198.3	3839.5	2925.9	2376.5	2093.2	2018.0	2000.7
52.5°	12576.6	11038.5	8471.2	6551.4	4718.4	3238.1	2440.2	1960.2	1769.4	1717.4	1711.6
55°	13235.8	11402.8	8494.3	6244.9	4140.2	2671.4	2029.6	1688.4	1561.2	1532.3	1526.5
57.5°	14039.6	11871.2	8563.7	5886.4	3533.0	2179.9	1728.9	1520.8	1439.8	1416.7	1416.7
60°	14912.7	12403.2	8690.9	5481.7	2925.9	1798.3	1532.3	1387.8	1353.1	1382.0	1382.0
62.5°	15855.2	13027.7	8916.4	4990.2	2359.2	1520.8	1376.2	1277.9	1254.8	1312.6	1318.4
65°	16728.4	13634.8	9061.0	4400.4	1873.5	1318.4	1254.8	1168.0	1179.6	1237.4	1231.6
67.5°	17266.1	14137.9	8858.6	3660.2	1486.1	1168.0	1127.6	1052.4	1081.3	1127.6	1133.3
70°	16936.5	13854.5	7858.2	2764.0	1162.3	1017.7	988.8	942.5	965.7	1023.5	1046.6
72.5°	15323.3	12408.9	6112.0	1867.7	936.7	855.8	867.4	844.2	873.1	925.2	977.2
75°	12437.9	9379.0	4099.7	1196.9	740.1	728.6	745.9	728.6	740.1	792.2	821.1
77.5°	6493.6	4573.8	2041.2	745.9	549.3	566.7	595.6	601.4	636.1	647.6	659.2
80°	3030.0	2058.5	850.0	416.3	364.3	399.0	456.8	462.6	474.2	491.5	497.3
82.5°	988.8	618.7	393.2	225.5	208.2	225.5	294.9	352.7	358.5	393.2	393.2
85°	104.1	63.6	86.7	92.5	81.0	98.3	133.0	127.2	57.8	34.7	34.7
87.5°	28.9	23.1	28.9	28.9	23.1	23.1	17.3	5.8	0.0	0.0	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)