

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: P841595

Luminaire Tested: **ARCH4-200-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21737 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

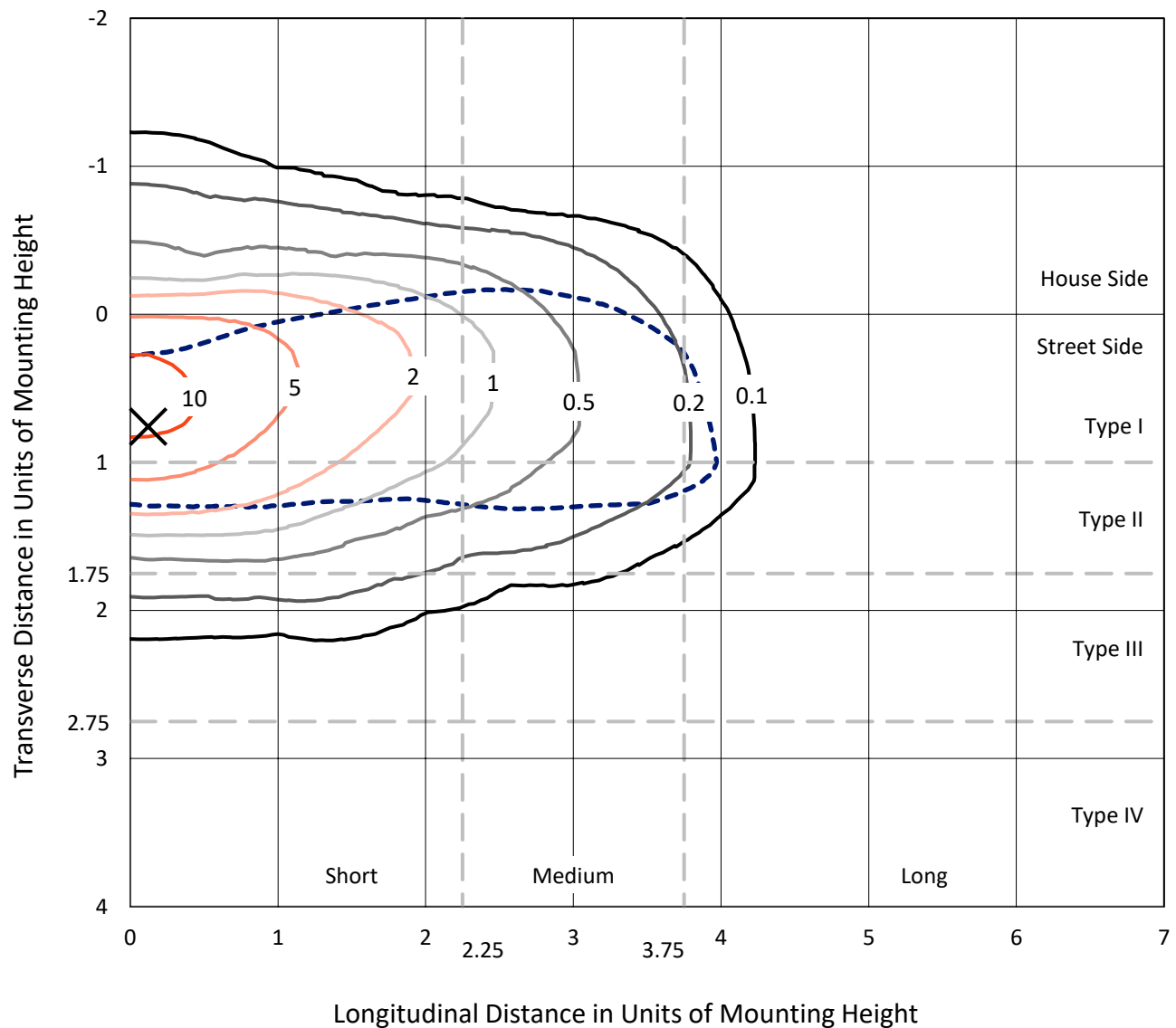
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

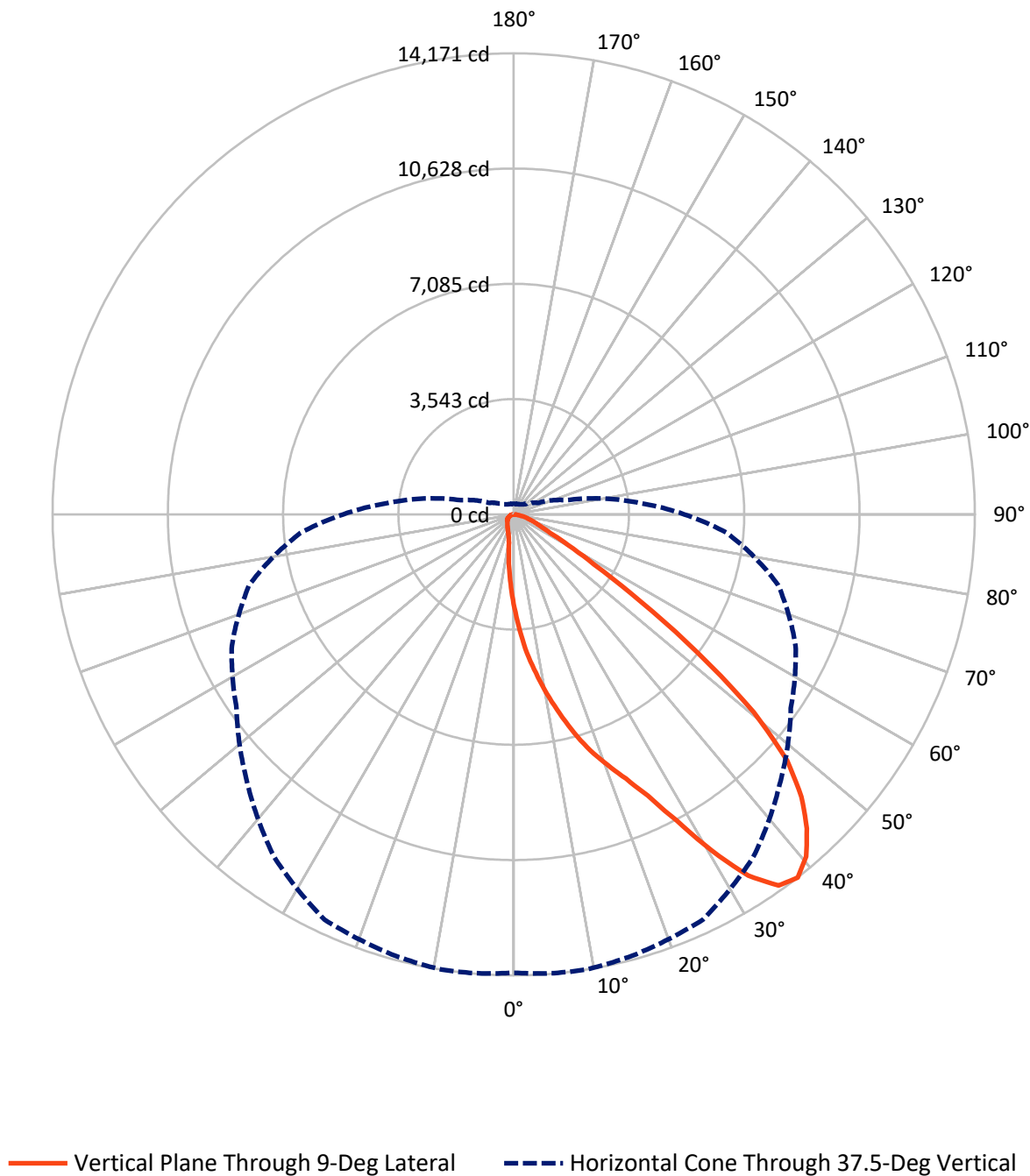
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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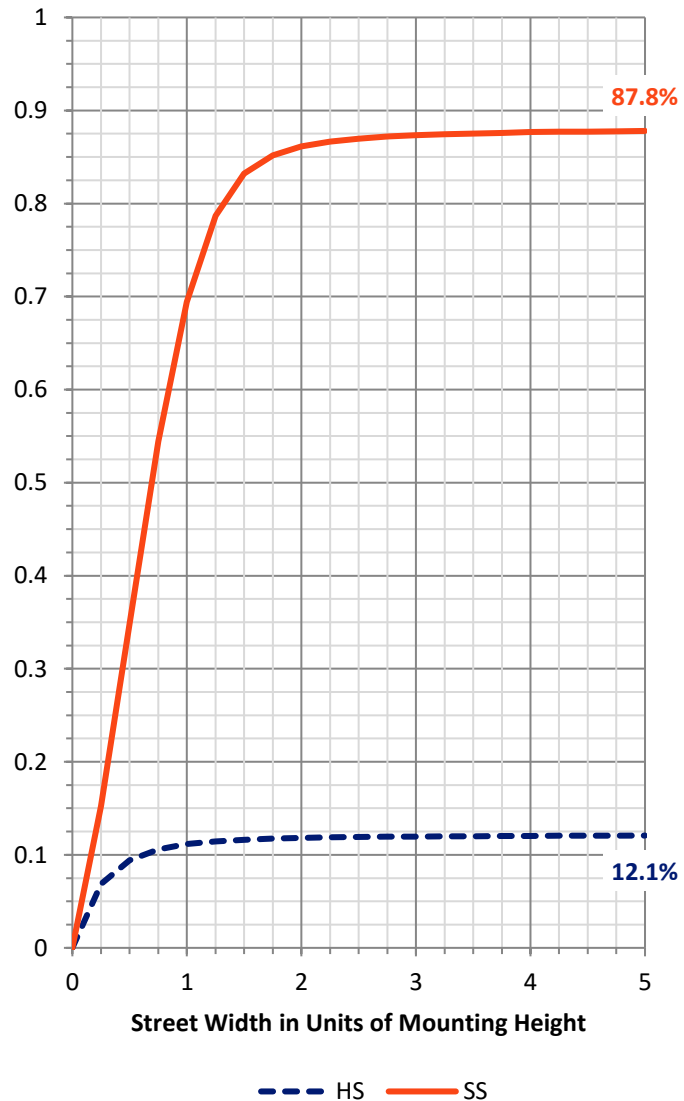
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.6	0.0	2643.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19093.4	0.0	19093.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	21737.0	0.0	21737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.3
10°-20°	1003.8	4.6
20°-30°	2062.7	9.5
30°-40°	3645.9	16.8
40°-50°	4843.3	22.3
50°-60°	4593.5	21.1
60°-70°	3504.5	16.1
70°-80°	1699.0	7.8
80°-90°	95.6	0.4
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°	21737.0	100.0
0°-180°	21737.0	100.0

Coefficient of Utilization



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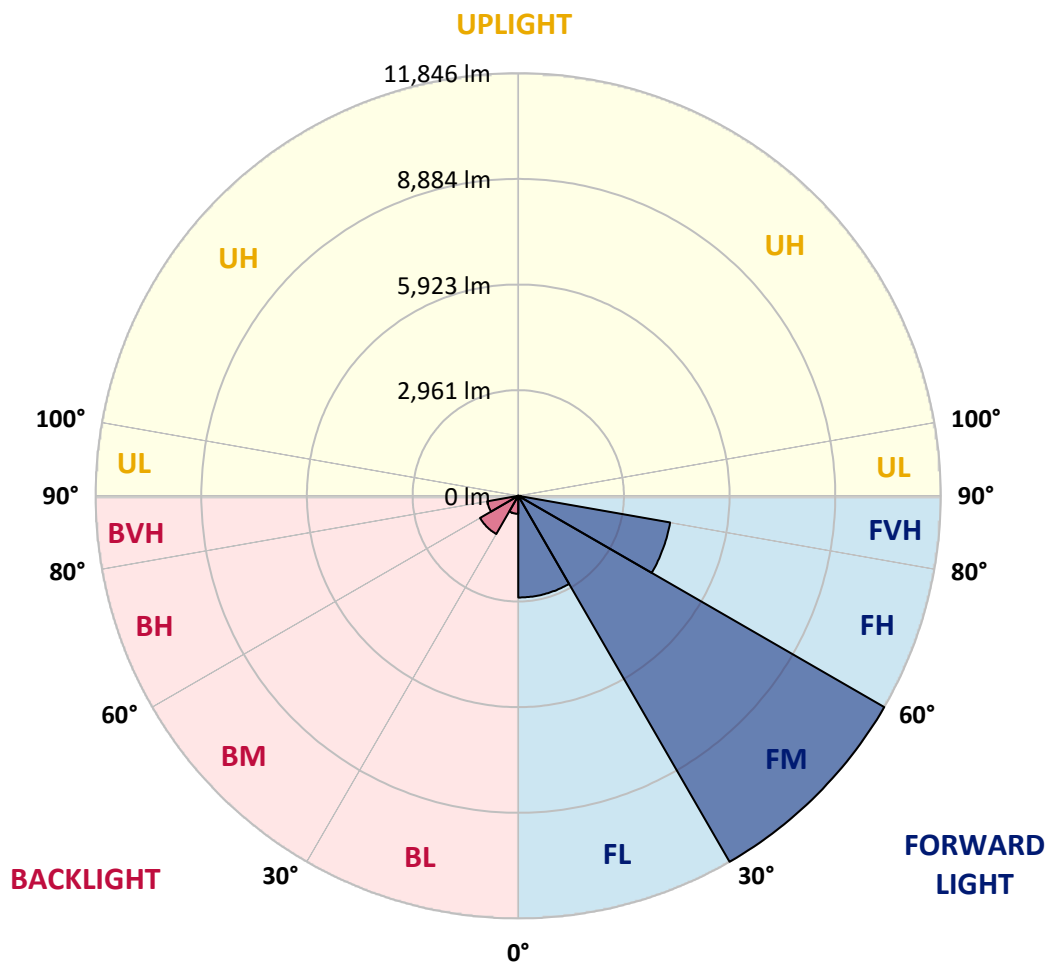
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2850.8	13.1			
FM	(30°-60°)	11845.6	54.5			
FH	(60°-80°)	4321.2	19.9			G2/5000
FVH	(80°-90°)	75.7	0.3			G1/100
BL	(0°-30°)	504.5	2.3	B2/1000		
BM	(30°-60°)	1237.0	5.7	B2/2500		
BH	(60°-80°)	882.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4
2.5°	3560.5	3498.0	3569.4	3560.5	3498.0	3457.9	3332.9	3292.8	3145.5	3038.5	2944.8
5°	4292.2	4229.7	4292.2	4274.4	4185.1	4087.0	3881.7	3747.9	3484.6	3252.6	3042.9
7.5°	4899.0	4899.0	4925.8	4930.2	4823.2	4671.5	4417.1	4216.4	3846.0	3489.1	3154.5
10°	5554.9	5559.3	5617.3	5577.2	5434.4	5229.2	4907.9	4653.6	4207.4	3738.9	3261.5
12.5°	6255.4	6259.8	6277.7	6259.8	6090.3	5827.0	5438.9	5104.2	4591.1	4024.5	3408.8
15°	6955.9	6960.3	6982.6	6951.4	6764.0	6456.2	6014.4	5604.0	4997.2	4345.7	3587.2
17.5°	7611.7	7620.7	7638.5	7598.4	7402.0	7036.2	6585.5	6090.3	5430.0	4689.3	3788.0
20°	8200.7	8209.6	8223.0	8169.5	7973.2	7607.3	7121.0	6603.4	5871.7	5041.8	4006.7
22.5°	8794.1	8803.0	8825.3	8754.0	8535.3	8115.9	7638.5	7103.1	6340.1	5430.0	4261.0
25°	9552.6	9561.5	9579.4	9476.8	9177.8	8687.0	8182.9	7634.1	6848.8	5867.2	4573.3
27.5°	10663.6	10654.7	10654.7	10467.3	9954.2	9316.1	8731.6	8173.9	7397.6	6335.7	4916.9
30°	12037.8	12015.5	12002.1	11747.8	11016.1	10025.6	9293.8	8678.1	7924.1	6830.9	5287.2
32.5°	13269.3	13269.3	13242.5	12974.8	12198.4	10980.4	9891.7	9168.9	8432.7	7330.7	5670.9
35°	13996.5	14027.7	14014.4	13813.6	13246.9	12006.6	10699.3	9757.9	8968.1	7852.7	6130.4
37.5°	14094.7	14157.1	14170.5	14050.1	13751.1	12845.4	11596.1	10395.9	9557.1	8414.9	6576.6
40°	13697.6	13831.4	13831.4	13813.6	13706.5	13242.5	12350.1	11136.5	10163.9	8999.4	7027.3
42.5°	13086.3	13224.6	13206.8	13273.7	13246.9	13148.8	12774.0	11828.1	10770.7	9601.7	7437.7
45°	12287.7	12430.4	12394.7	12515.2	12568.8	12675.8	12729.4	12310.0	11368.5	10257.6	7897.3
47.5°	11007.1	11248.1	11301.6	11515.8	11738.9	12073.5	12327.8	12484.0	11926.3	10962.5	8397.0
50°	9115.4	9454.5	9561.5	10012.2	10623.4	11315.0	11725.5	12269.8	12318.9	11685.3	8936.9
52.5°	6527.5	6920.2	7085.3	7825.9	9084.1	10288.8	11029.5	11796.9	12470.6	12376.9	9521.4
55°	4220.8	4555.4	4716.1	5412.1	7085.3	8977.0	10208.5	11185.6	12385.8	13010.5	10190.6
57.5°	2601.2	2793.1	2900.1	3498.0	5037.3	7295.0	9133.2	10623.4	12127.0	13559.3	10886.7
60°	1753.5	1865.0	1918.6	2199.6	3422.2	5452.3	7656.4	10034.5	11787.9	13929.6	11520.2
62.5°	1164.5	1200.2	1253.8	1427.8	2257.6	3828.2	5880.6	8981.5	11533.6	13951.9	11988.7
65°	901.3	919.1	941.4	1017.3	1392.1	2677.1	4136.0	7277.1	11154.4	13479.0	12136.0
67.5°	709.4	727.3	754.0	794.2	1008.4	1815.9	2815.4	5331.8	10378.0	12738.3	11895.0
70°	557.7	571.1	589.0	624.6	785.3	1316.2	1860.6	3542.6	8812.0	12033.3	11136.5
72.5°	441.7	455.1	472.9	508.6	638.0	963.7	1276.1	2208.6	6795.2	11172.2	9677.5
75°	348.0	356.9	370.3	406.0	513.1	749.6	865.6	1320.7	4617.9	9597.2	7540.4
77.5°	174.0	214.2	245.4	281.1	374.8	517.6	575.6	731.7	1949.8	4925.8	3596.2
80°	102.6	124.9	133.9	156.2	245.4	312.3	312.3	294.5	615.7	1891.8	1467.9
82.5°	58.0	80.3	84.8	89.2	147.2	178.5	142.8	107.1	124.9	633.6	428.3
85°	17.8	26.8	31.2	35.7	49.1	53.5	49.1	44.6	35.7	62.5	40.2
87.5°	0.0	0.0	0.0	0.0	4.5	8.9	8.9	8.9	13.4	13.4	13.4
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°	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4
2.5°	2891.2	2833.2	2721.7	2619.0	2520.9	2449.5	2382.6	2320.1	2275.5	2239.8	2235.3
5°	2931.4	2815.4	2601.2	2400.4	2217.5	2065.8	1936.4	1833.8	1757.9	1704.4	1699.9
7.5°	2984.9	2806.4	2480.7	2181.8	1909.6	1691.0	1503.6	1365.3	1267.1	1227.0	1195.7
10°	3029.5	2797.5	2360.3	1963.2	1606.2	1329.6	1106.5	968.2	896.8	870.0	856.7
12.5°	3105.4	2806.4	2257.6	1762.4	1343.0	1017.3	847.7	771.9	740.7	718.3	713.9
15°	3216.9	2846.6	2159.5	1566.1	1075.3	821.0	722.8	673.7	642.5	638.0	633.6
17.5°	3328.5	2882.3	2070.3	1365.3	892.4	713.9	647.0	606.8	584.5	580.0	580.0
20°	3457.9	2926.9	1972.1	1173.4	763.0	642.5	589.0	557.7	530.9	526.5	526.5
22.5°	3609.6	2989.4	1878.4	1003.9	678.2	589.0	544.3	508.6	486.3	481.9	481.9
25°	3814.8	3083.1	1802.5	879.0	620.2	544.3	504.2	472.9	455.1	446.2	446.2
27.5°	4042.3	3212.5	1749.0	803.1	580.0	508.6	468.5	441.7	423.9	414.9	414.9
30°	4296.7	3355.2	1713.3	771.9	557.7	477.4	441.7	414.9	392.6	388.2	388.2
32.5°	4577.8	3520.3	1691.0	776.3	553.3	455.1	414.9	388.2	370.3	361.4	361.4
35°	4890.1	3703.3	1677.6	803.1	562.2	437.3	392.6	365.9	348.0	339.1	339.1
37.5°	5238.1	3917.4	1677.6	829.9	584.5	432.8	370.3	343.6	330.2	321.2	321.2
40°	5563.8	4145.0	1695.5	861.1	606.8	432.8	352.5	330.2	312.3	303.4	303.4
42.5°	5818.1	4274.4	1708.9	892.4	620.2	428.3	334.6	312.3	298.9	290.0	290.0
45°	6108.1	4412.7	1682.1	905.7	620.2	419.4	321.2	298.9	285.6	276.6	276.6
47.5°	6429.4	4582.2	1677.6	914.7	606.8	401.6	307.9	285.6	276.6	267.7	267.7
50°	6755.1	4769.6	1686.5	910.2	589.0	374.8	290.0	276.6	263.2	254.3	254.3
52.5°	7125.4	4965.9	1704.4	901.3	548.8	343.6	276.6	263.2	249.9	240.9	236.5
55°	7535.9	5180.1	1740.1	883.4	495.3	312.3	263.2	249.9	232.0	223.1	218.6
57.5°	8008.8	5443.3	1780.2	847.7	437.3	285.6	249.9	232.0	205.2	191.9	187.4
60°	8459.5	5742.3	1824.9	763.0	379.2	258.8	236.5	209.7	182.9	174.0	169.5
62.5°	8883.3	6036.8	1847.2	611.3	321.2	236.5	223.1	191.9	165.1	156.2	151.7
65°	9155.5	6358.0	1798.1	414.9	263.2	218.6	205.2	178.5	151.7	138.3	138.3
67.5°	9173.4	6509.7	1628.5	272.2	214.2	196.3	187.4	160.6	133.9	124.9	120.5
70°	8722.7	6282.1	1244.8	214.2	178.5	169.5	169.5	142.8	116.0	107.1	102.6
72.5°	7687.6	5563.8	794.2	174.0	151.7	142.8	142.8	120.5	102.6	89.2	84.8
75°	6068.0	4292.2	423.9	142.8	124.9	120.5	111.5	98.2	84.8	75.8	71.4
77.5°	2788.6	1891.8	196.3	102.6	93.7	93.7	84.8	71.4	66.9	58.0	58.0
80°	1102.1	642.5	98.2	66.9	62.5	62.5	62.5	49.1	49.1	40.2	35.7
82.5°	303.4	133.9	49.1	40.2	40.2	40.2	35.7	31.2	31.2	26.8	26.8
85°	31.2	22.3	22.3	22.3	22.3	17.8	17.8	13.4	8.9	8.9	8.9
87.5°	13.4	13.4	13.4	13.4	13.4	8.9	4.5	0.0	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)