

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: P841514

Luminaire Tested: **ARCH4-190-727-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841514
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: ARCH4-190-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA 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: 19996 lumens
Efficiency: N/A
Efficacy: 105.2 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): 190
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



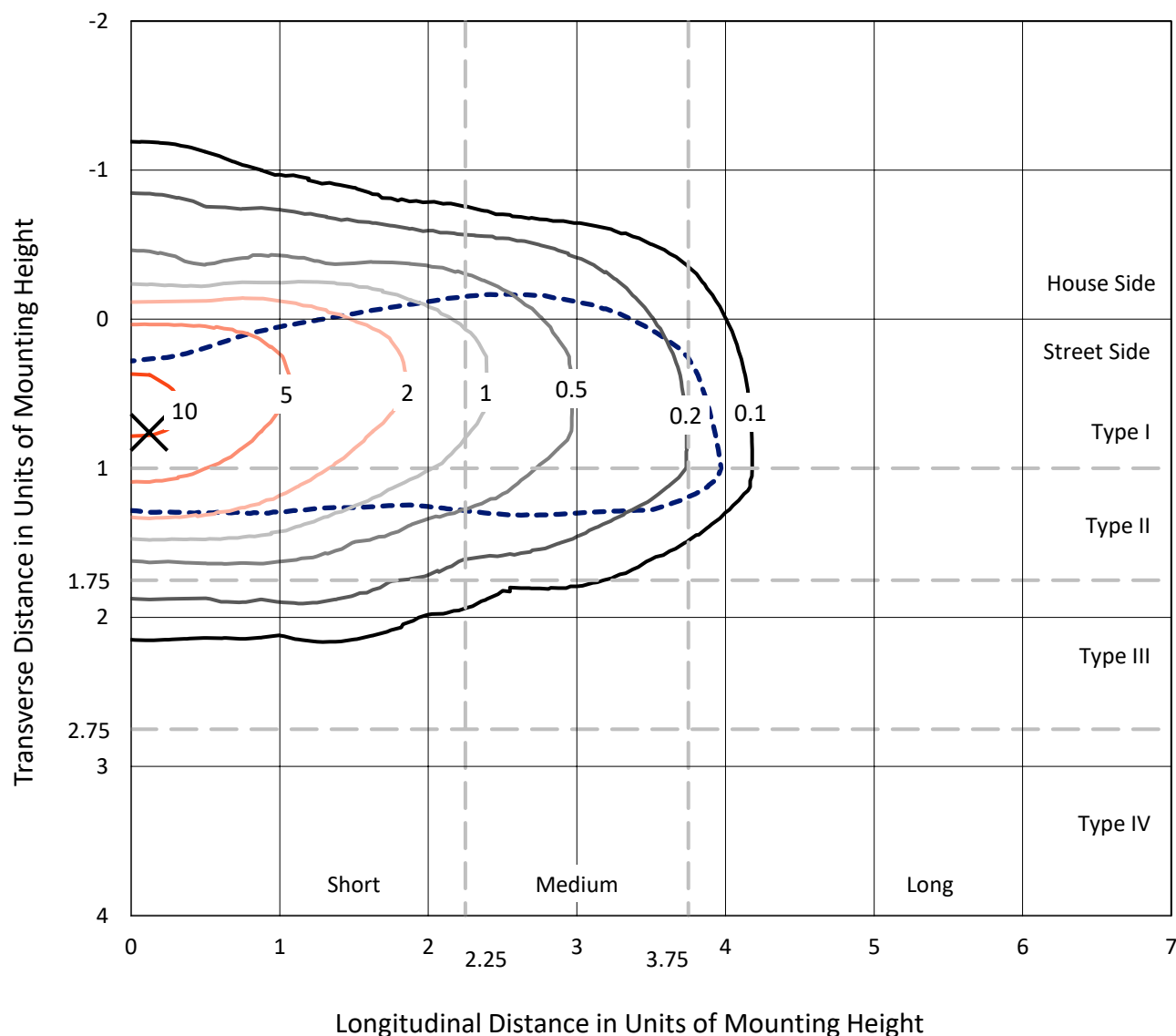
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

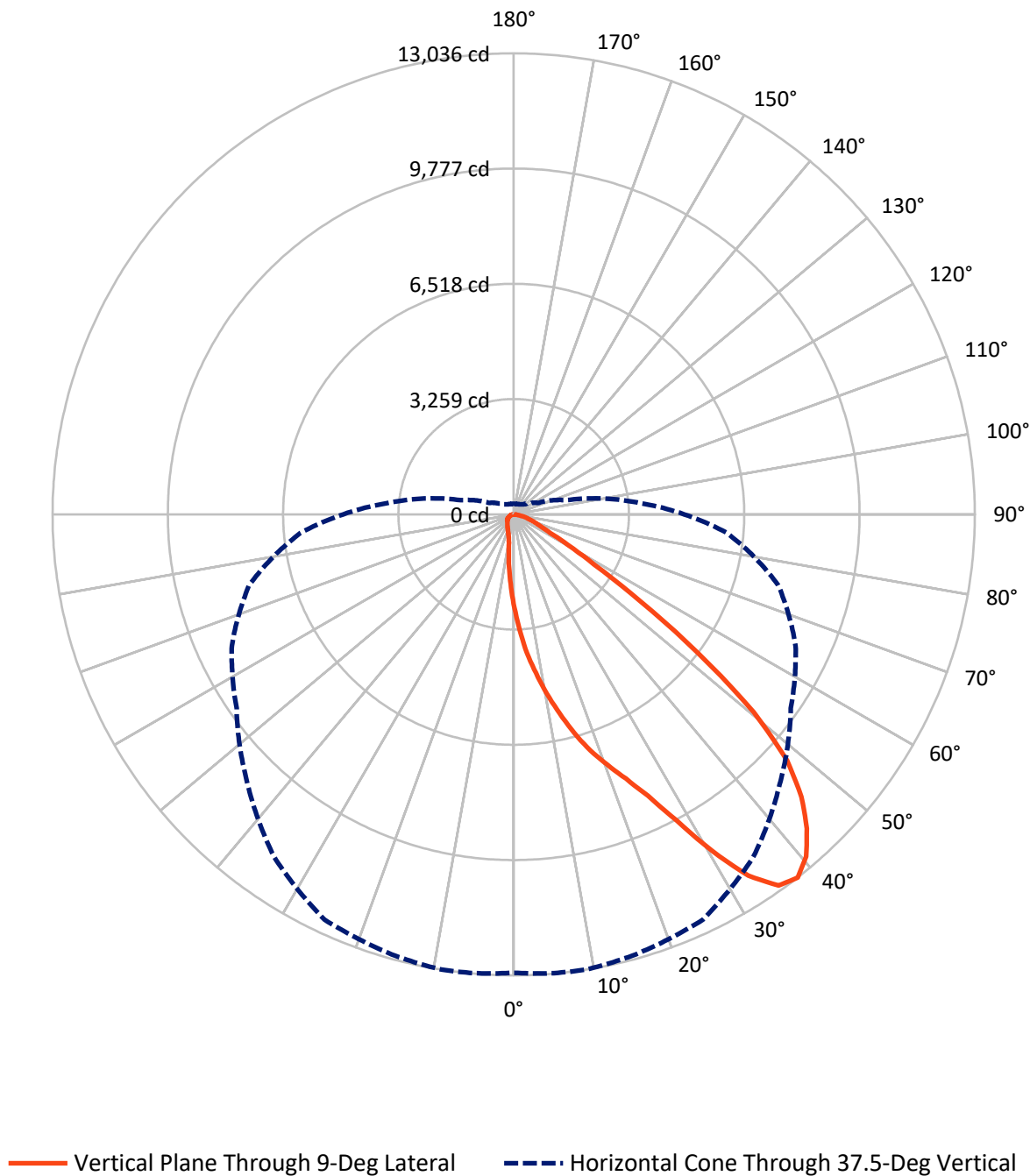


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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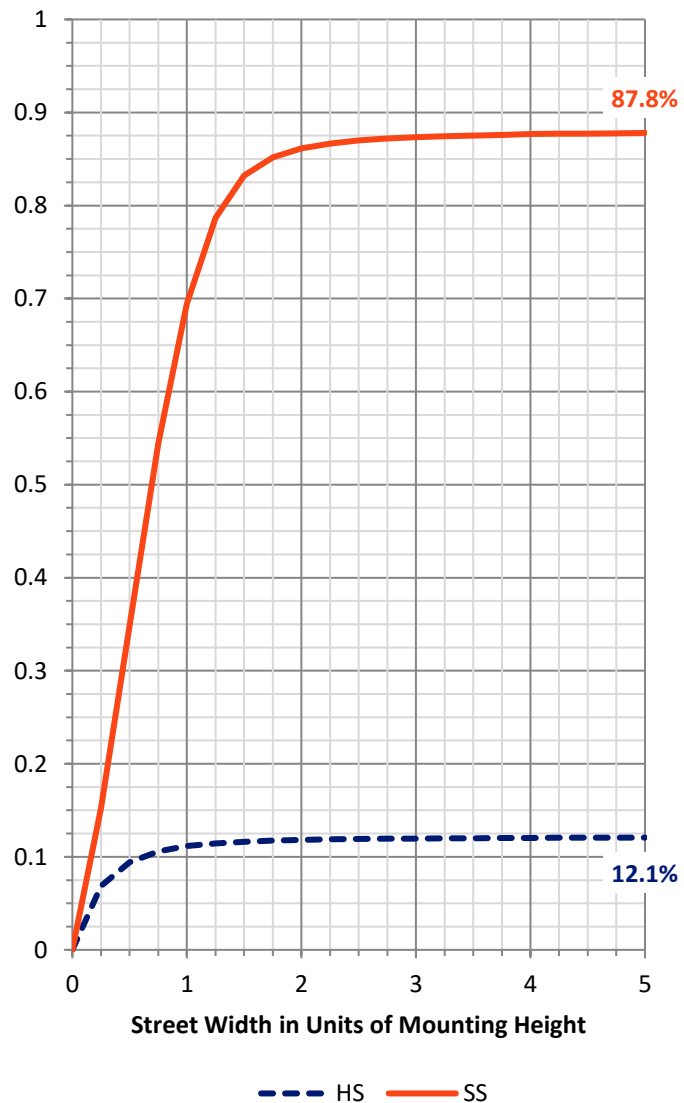
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2431.9	0.0	2431.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17564.1	0.0	17564.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	19996.0	0.0	19996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	1.3
10°-20°	923.4	4.6
20°-30°	1897.4	9.5
30°-40°	3353.9	16.8
40°-50°	4455.3	22.3
50°-60°	4225.6	21.1
60°-70°	3223.8	16.1
70°-80°	1562.9	7.8
80°-90°	88.0	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°	19996.0	100.0
0°-180°	19996.0	100.0

Coefficient of Utilization



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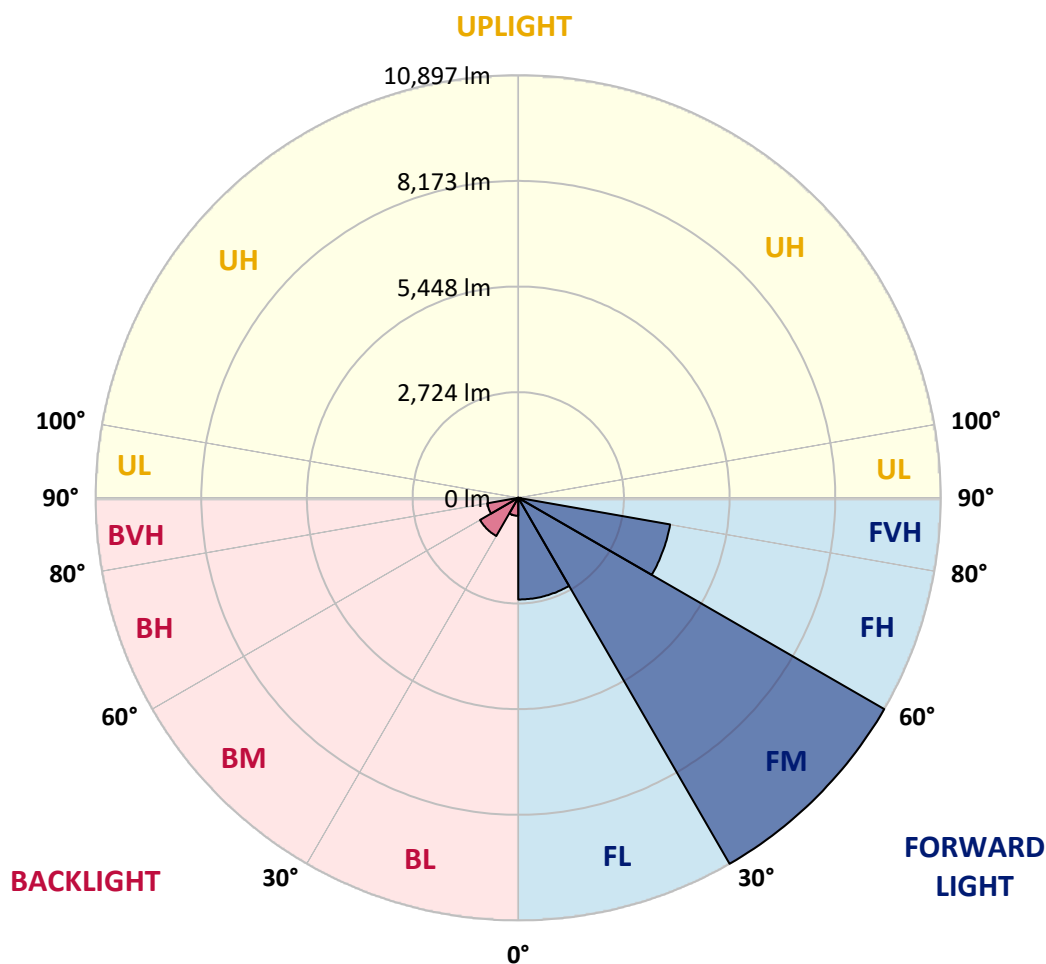
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2622.5	13.1			
FM	(30°-60°)	10896.8	54.5			
FH	(60°-80°)	3975.1	19.9			G2/5000
FVH	(80°-90°)	69.6	0.3			G1/100
BL	(0°-30°)	464.1	2.3	B1/500		
BM	(30°-60°)	1138.0	5.7	B2/2500		
BH	(60°-80°)	811.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	18.3	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°	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2
2.5°	3275.3	3217.8	3283.5	3275.3	3217.8	3180.9	3066.0	3029.0	2893.6	2795.1	2708.9
5°	3948.4	3891.0	3948.4	3932.0	3849.9	3759.6	3570.8	3447.7	3205.5	2992.1	2799.2
7.5°	4506.6	4506.6	4531.3	4535.4	4436.8	4297.3	4063.3	3878.7	3538.0	3209.6	2901.8
10°	5110.0	5114.1	5167.4	5130.5	4999.2	4810.3	4514.8	4280.9	3870.4	3439.5	3000.3
12.5°	5754.4	5758.5	5774.9	5758.5	5602.5	5360.3	5003.3	4695.4	4223.4	3702.2	3135.8
15°	6398.7	6402.9	6423.4	6394.6	6222.3	5939.1	5532.7	5155.1	4596.9	3997.7	3299.9
17.5°	7002.1	7010.3	7026.7	6989.8	6809.2	6472.6	6058.1	5602.5	4995.0	4313.7	3484.6
20°	7543.9	7552.1	7564.4	7515.1	7334.6	6998.0	6550.6	6074.5	5401.4	4638.0	3685.7
22.5°	8089.8	8098.0	8118.5	8052.8	7851.7	7465.9	7026.7	6534.2	5832.3	4995.0	3919.7
25°	8787.5	8795.7	8812.1	8717.7	8442.7	7991.3	7527.5	7022.6	6300.2	5397.3	4207.0
27.5°	9809.5	9801.3	9801.3	9628.9	9156.9	8570.0	8032.3	7519.2	6805.1	5828.2	4523.0
30°	11073.7	11053.1	11040.8	10806.9	10133.7	9222.6	8549.5	7983.0	7289.4	6283.8	4863.7
32.5°	12206.5	12206.5	12181.8	11935.6	11221.4	10100.9	9099.4	8434.5	7757.3	6743.5	5216.7
35°	12875.5	12904.2	12891.9	12707.2	12185.9	11044.9	9842.3	8976.3	8249.8	7223.7	5639.4
37.5°	12965.8	13023.2	13035.6	12924.7	12649.7	11816.5	10667.3	9563.2	8791.6	7740.9	6049.9
40°	12600.5	12723.6	12723.6	12707.2	12608.7	12181.8	11361.0	10244.6	9349.8	8278.6	6464.4
42.5°	12038.2	12165.4	12149.0	12210.6	12185.9	12095.6	11750.9	10880.7	9908.0	8832.7	6842.0
45°	11303.5	11434.8	11402.0	11512.8	11562.1	11660.6	11709.8	11324.0	10458.0	9436.0	7264.8
47.5°	10125.5	10347.2	10396.4	10593.4	10798.7	11106.5	11340.4	11484.1	10971.0	10084.5	7724.5
50°	8385.3	8697.2	8795.7	9210.3	9772.6	10408.7	10786.3	11287.1	11332.2	10749.4	8221.1
52.5°	6004.7	6365.9	6517.8	7199.1	8356.5	9464.7	10146.1	10852.0	11471.8	11385.6	8758.8
55°	3882.8	4190.6	4338.3	4978.6	6517.8	8258.0	9390.9	10289.7	11393.8	11968.4	9374.4
57.5°	2392.9	2569.4	2667.9	3217.8	4633.9	6710.7	8401.7	9772.6	11155.7	12473.3	10014.7
60°	1613.0	1715.6	1764.9	2023.5	3148.1	5015.6	7043.1	9230.8	10843.8	12813.9	10597.5
62.5°	1071.2	1104.1	1153.3	1313.4	2076.8	3521.6	5409.6	8262.1	10609.9	12834.4	11028.5
65°	829.1	845.5	866.0	935.8	1280.6	2462.6	3804.8	6694.3	10261.0	12399.4	11163.9
67.5°	652.6	669.0	693.6	730.6	927.6	1670.5	2589.9	4904.7	9546.8	11718.0	10942.3
70°	513.0	525.4	541.8	574.6	722.4	1210.8	1711.5	3258.9	8106.2	11069.5	10244.6
72.5°	406.3	418.6	435.1	467.9	586.9	886.5	1173.9	2031.7	6251.0	10277.4	8902.4
75°	320.1	328.4	340.7	373.5	472.0	689.5	796.3	1214.9	4248.0	8828.5	6936.4
77.5°	160.1	197.0	225.7	258.6	344.8	476.1	529.5	673.1	1793.6	4531.3	3308.1
80°	94.4	114.9	123.1	143.7	225.7	287.3	287.3	270.9	566.4	1740.3	1350.3
82.5°	53.4	73.9	78.0	82.1	135.4	164.2	131.3	98.5	114.9	582.8	394.0
85°	16.4	24.6	28.7	32.8	45.1	49.3	45.1	41.0	32.8	57.5	36.9
87.5°	0.0	0.0	0.0	0.0	4.1	8.2	8.2	8.2	12.3	12.3	12.3
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°	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2
2.5°	2659.6	2606.3	2503.7	2409.3	2319.0	2253.3	2191.7	2134.3	2093.2	2060.4	2056.3
5°	2696.6	2589.9	2392.9	2208.2	2039.9	1900.3	1781.3	1686.9	1617.1	1567.9	1563.8
7.5°	2745.8	2581.7	2282.0	2007.0	1756.7	1555.6	1383.2	1255.9	1165.6	1128.7	1100.0
10°	2786.9	2573.5	2171.2	1805.9	1477.6	1223.1	1017.9	890.7	825.0	800.4	788.0
12.5°	2856.7	2581.7	2076.8	1621.2	1235.4	935.8	779.8	710.1	681.3	660.8	656.7
15°	2959.3	2618.6	1986.5	1440.6	989.2	755.2	664.9	619.8	591.0	586.9	582.8
17.5°	3061.9	2651.4	1904.4	1255.9	820.9	656.7	595.1	558.2	537.7	533.6	533.6
20°	3180.9	2692.5	1814.1	1079.5	701.9	591.0	541.8	513.0	488.4	484.3	484.3
22.5°	3320.5	2749.9	1727.9	923.5	623.9	541.8	500.7	467.9	447.4	443.3	443.3
25°	3509.3	2836.1	1658.2	808.6	570.5	500.7	463.8	435.1	418.6	410.4	410.4
27.5°	3718.6	2955.2	1608.9	738.8	533.6	467.9	431.0	406.3	389.9	381.7	381.7
30°	3952.5	3086.5	1576.1	710.1	513.0	439.2	406.3	381.7	361.2	357.1	357.1
32.5°	4211.1	3238.4	1555.6	714.2	508.9	418.6	381.7	357.1	340.7	332.5	332.5
35°	4498.4	3406.6	1543.3	738.8	517.2	402.2	361.2	336.6	320.1	311.9	311.9
37.5°	4818.6	3603.7	1543.3	763.4	537.7	398.1	340.7	316.0	303.7	295.5	295.5
40°	5118.2	3813.0	1559.7	792.1	558.2	398.1	324.2	303.7	287.3	279.1	279.1
42.5°	5352.1	3932.0	1572.0	820.9	570.5	394.0	307.8	287.3	275.0	266.8	266.8
45°	5618.9	4059.2	1547.4	833.2	570.5	385.8	295.5	275.0	262.7	254.5	254.5
47.5°	5914.4	4215.2	1543.3	841.4	558.2	369.4	283.2	262.7	254.5	246.3	246.3
50°	6214.1	4387.6	1551.5	837.3	541.8	344.8	266.8	254.5	242.2	234.0	234.0
52.5°	6554.7	4568.2	1567.9	829.1	504.8	316.0	254.5	242.2	229.8	221.6	217.5
55°	6932.3	4765.2	1600.7	812.7	455.6	287.3	242.2	229.8	213.4	205.2	201.1
57.5°	7367.4	5007.4	1637.7	779.8	402.2	262.7	229.8	213.4	188.8	176.5	172.4
60°	7781.9	5282.4	1678.7	701.9	348.9	238.1	217.5	192.9	168.3	160.1	156.0
62.5°	8171.8	5553.2	1699.2	562.3	295.5	217.5	205.2	176.5	151.9	143.7	139.5
65°	8422.2	5848.8	1654.1	381.7	242.2	201.1	188.8	164.2	139.5	127.2	127.2
67.5°	8438.6	5988.3	1498.1	250.4	197.0	180.6	172.4	147.8	123.1	114.9	110.8
70°	8024.1	5779.0	1145.1	197.0	164.2	156.0	156.0	131.3	106.7	98.5	94.4
72.5°	7071.9	5118.2	730.6	160.1	139.5	131.3	131.3	110.8	94.4	82.1	78.0
75°	5582.0	3948.4	389.9	131.3	114.9	110.8	102.6	90.3	78.0	69.8	65.7
77.5°	2565.2	1740.3	180.6	94.4	86.2	86.2	78.0	65.7	61.6	53.4	53.4
80°	1013.8	591.0	90.3	61.6	57.5	57.5	57.5	45.1	45.1	36.9	32.8
82.5°	279.1	123.1	45.1	36.9	36.9	36.9	32.8	28.7	28.7	24.6	24.6
85°	28.7	20.5	20.5	20.5	20.5	16.4	16.4	12.3	8.2	8.2	8.2
87.5°	12.3	12.3	12.3	12.3	12.3	8.2	4.1	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)