

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: P836319

Luminaire Tested: **ARCH3-170-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

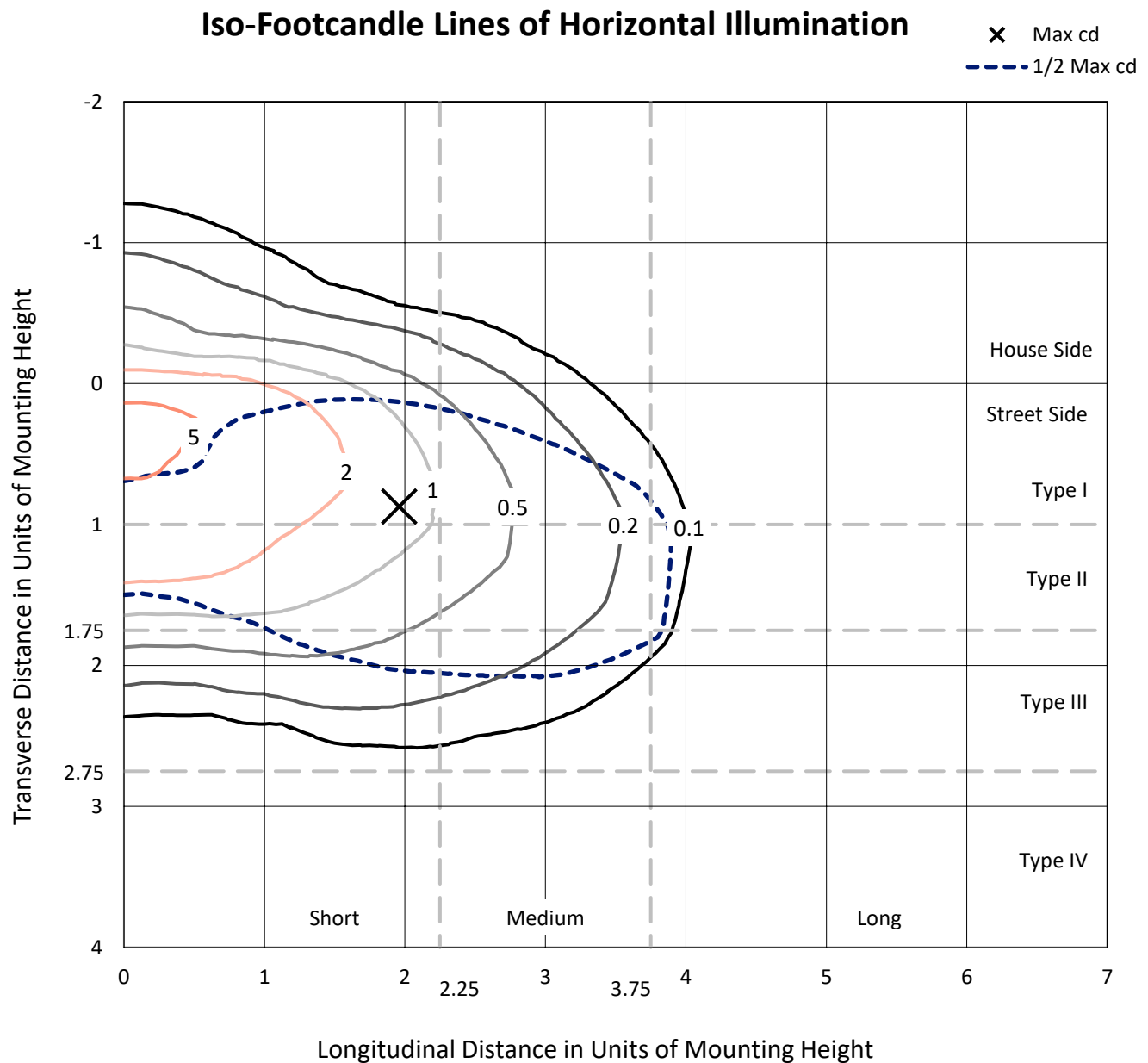
Lumens per Lamp: N/A
Luminaire Lumens: 15360 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 170.6
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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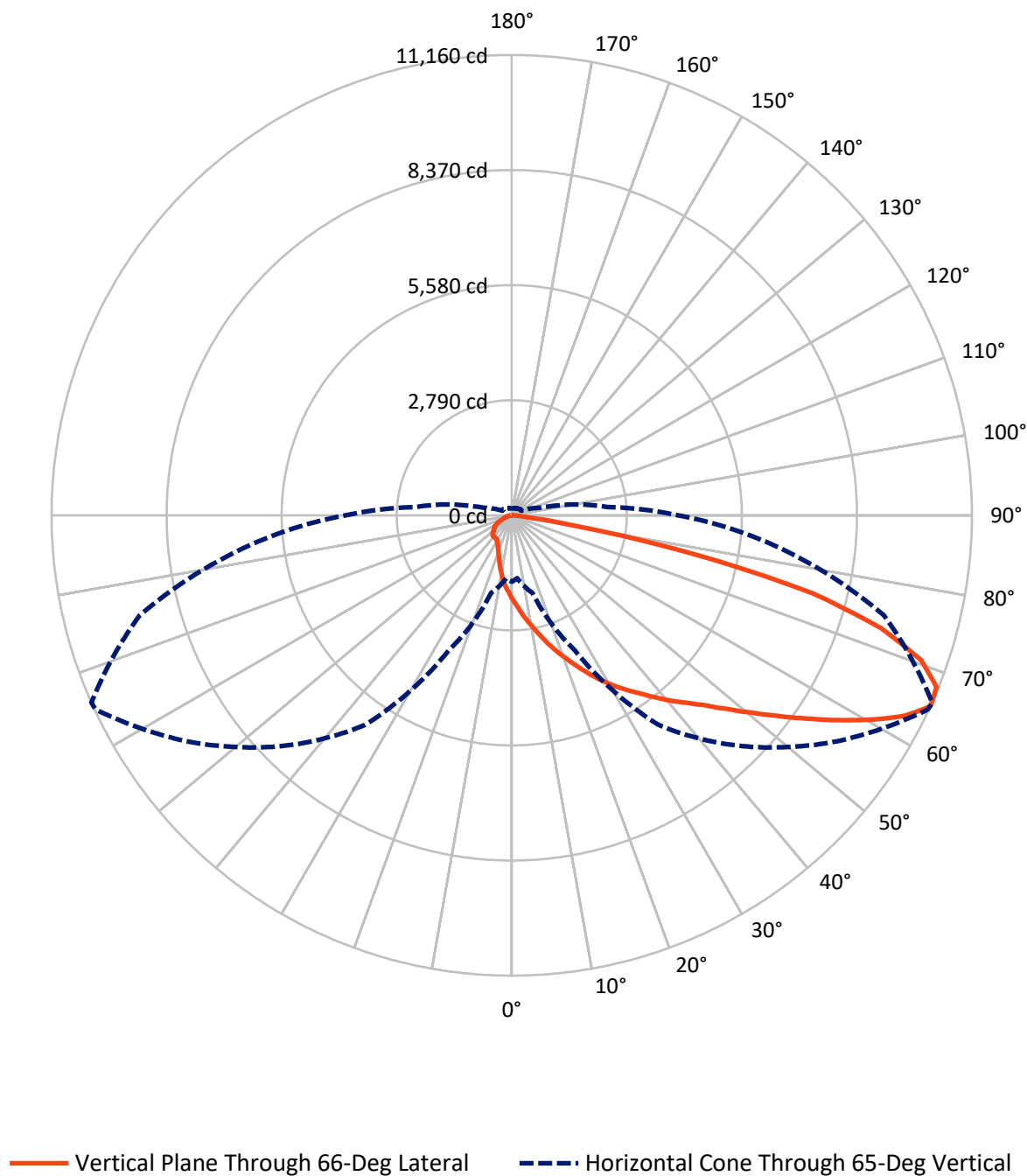
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Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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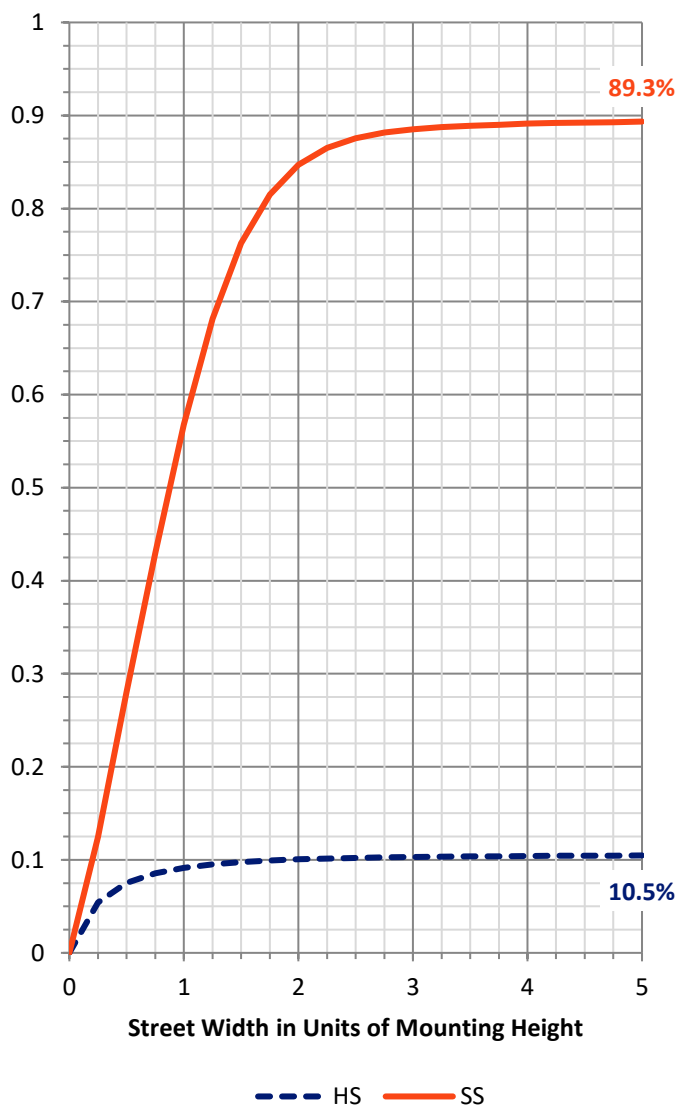
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.7	0.0	1624.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13735.3	0.0	13735.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	15360.0	0.0	15360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.3
10°-20°	653.9	4.3
20°-30°	1183.2	7.7
30°-40°	1850.2	12.0
40°-50°	2806.7	18.3
50°-60°	3566.0	23.2
60°-70°	3332.1	21.7
70°-80°	1656.0	10.8
80°-90°	111.3	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°	15360.0	100.0
0°-180°	15360.0	100.0

Coefficient of Utilization



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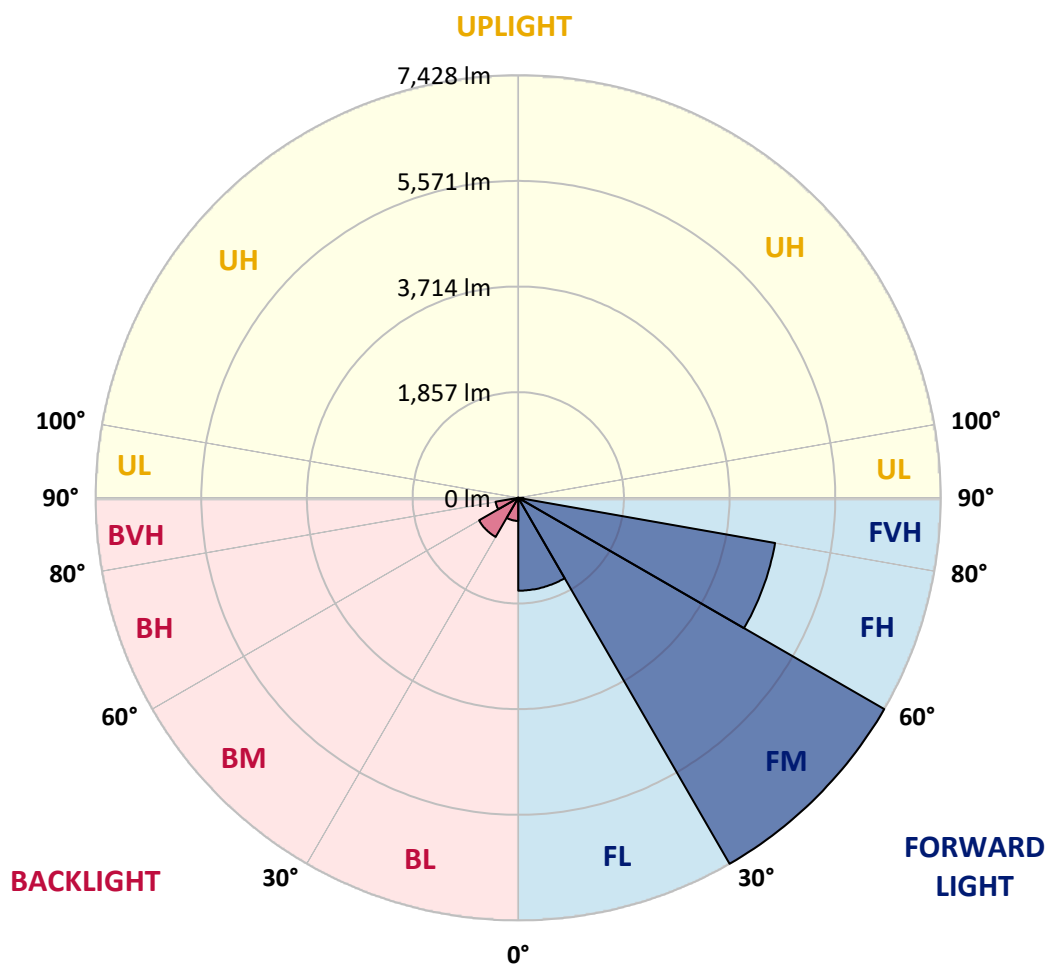
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1632.0	10.6			
FM	(30°-60°)	7428.3	48.4			
FH	(60°-80°)	4583.5	29.8			G2/5000
FVH	(80°-90°)	91.6	0.6			G1/100
BL	(0°-30°)	405.8	2.6	B1/500		
BM	(30°-60°)	794.6	5.2	B1/1000		
BH	(60°-80°)	404.6	2.6	B1/500		G1/500
BVH	(80°-90°)	19.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8
2.5°	2374.3	2393.6	2403.3	2406.5	2332.4	2300.2	2268.0	2193.9	2177.8	2135.9	2081.1
5°	2793.1	2818.9	2812.4	2799.5	2709.3	2606.3	2522.5	2384.0	2361.4	2261.5	2139.1
7.5°	3205.5	3228.0	3221.6	3173.2	3073.4	2928.4	2789.9	2586.9	2554.7	2393.6	2197.1
10°	3550.2	3569.5	3566.3	3518.0	3398.8	3221.6	3054.0	2783.4	2744.8	2516.0	2245.4
12.5°	3833.7	3859.4	3856.2	3824.0	3717.7	3524.4	3334.3	3008.9	2960.6	2664.2	2313.1
15°	4056.0	4088.2	4088.2	4075.3	4001.2	3840.1	3624.3	3257.0	3199.0	2835.0	2396.8
17.5°	4191.3	4217.0	4239.6	4262.1	4210.6	4088.2	3891.7	3505.1	3443.9	3002.5	2483.8
20°	4262.1	4287.9	4304.0	4352.3	4362.0	4300.8	4146.2	3749.9	3685.5	3192.6	2583.7
22.5°	4378.1	4400.7	4403.9	4445.8	4465.1	4481.2	4384.6	3991.5	3940.0	3402.0	2696.5
25°	4571.4	4597.2	4587.5	4606.8	4610.1	4629.4	4619.7	4268.6	4217.0	3640.4	2831.8
27.5°	4819.5	4851.7	4845.2	4825.9	4796.9	4780.8	4822.7	4548.9	4500.5	3878.8	2970.3
30°	5086.9	5125.5	5115.9	5077.2	4999.9	4932.2	4990.2	4813.0	4767.9	4123.6	3124.9
32.5°	5357.5	5402.6	5399.4	5334.9	5202.8	5086.9	5173.8	5061.1	5028.9	4387.8	3292.4
35°	5534.7	5592.6	5586.2	5547.5	5376.8	5276.9	5383.2	5315.6	5293.0	4709.9	3534.1
37.5°	5821.4	5882.6	5827.8	5731.2	5534.7	5483.1	5612.0	5602.3	5586.2	5051.4	3788.6
40°	6517.2	6607.4	6462.5	6066.2	5744.1	5699.0	5882.6	5921.2	5905.1	5389.7	4017.3
42.5°	7245.3	7380.6	7155.1	6607.4	6124.2	5959.9	6179.0	6233.7	6214.4	5679.6	4223.5
45°	7686.7	7744.7	7519.1	7093.9	6797.5	6275.6	6494.7	6584.9	6568.8	6027.6	4487.6
47.5°	8047.5	8024.9	7767.2	7480.5	7535.3	6720.2	6852.3	7029.5	7016.6	6410.9	4777.6
50°	8124.8	8073.3	7970.2	7789.8	7934.7	7171.2	7229.2	7535.3	7522.4	6836.2	5070.8
52.5°	7580.4	7512.7	7793.0	7944.4	7896.1	7499.8	7644.8	8089.4	8082.9	7296.9	5351.0
55°	6220.9	6166.1	6919.9	7702.8	7854.2	7731.8	8105.5	8666.0	8701.5	7786.5	5605.5
57.5°	4893.6	4835.6	5576.5	7097.1	7699.6	7944.4	8643.5	9326.5	9371.6	8318.1	5847.2
60°	3901.3	3814.3	4381.3	6143.5	7409.6	8108.7	9162.1	10051.3	10057.7	8804.6	5995.3
62.5°	2651.4	2554.7	3182.9	4935.4	6923.2	8134.5	9561.6	10676.3	10702.1	9168.6	6021.1
65°	1610.8	1530.2	1955.5	3604.9	6204.7	7915.4	9568.1	11137.0	11159.5	9336.1	5866.5
67.5°	934.3	902.0	1117.9	2245.4	5012.8	7325.9	9165.4	11066.1	11108.0	9265.2	5515.3
70°	544.4	541.2	621.8	1111.4	3537.3	6156.4	8266.6	10470.1	10531.3	8894.8	4977.3
72.5°	399.5	405.9	438.1	596.0	2048.9	4432.9	7000.5	9271.7	9365.1	8169.9	4210.6
75°	315.7	318.9	347.9	405.9	1076.0	2506.4	5244.7	7441.8	7515.9	6878.1	3289.2
77.5°	235.2	241.6	264.2	286.7	499.3	1150.1	2951.0	4584.3	4461.9	3775.7	1588.2
80°	170.7	186.9	196.5	206.2	264.2	444.6	885.9	1597.9	1585.0	1649.4	750.6
82.5°	109.5	122.4	132.1	138.5	157.9	212.6	264.2	357.6	386.6	641.1	299.6
85°	48.3	54.8	61.2	74.1	67.7	74.1	109.5	70.9	61.2	96.6	54.8
87.5°	0.0	0.0	9.7	16.1	12.9	6.4	19.3	12.9	9.7	9.7	9.7
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°	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8
2.5°	2052.1	2016.7	1942.6	1871.7	1829.9	1775.1	1726.8	1681.7	1678.4	1665.6	1643.0
5°	2077.9	2010.3	1871.7	1739.6	1639.8	1533.5	1443.3	1372.4	1346.6	1327.3	1301.5
7.5°	2103.7	1997.4	1791.2	1597.9	1440.0	1291.9	1185.5	1088.9	1059.9	1034.1	1018.0
10°	2113.4	1974.8	1697.8	1440.0	1233.9	1076.0	963.2	892.4	866.6	853.7	844.1
12.5°	2142.3	1961.9	1610.8	1291.9	1053.5	908.5	827.9	786.1	776.4	766.7	757.1
15°	2181.0	1961.9	1523.8	1146.9	911.7	795.7	747.4	718.4	712.0	708.7	702.3
17.5°	2222.9	1961.9	1440.0	1024.5	808.6	721.6	686.2	670.1	666.9	663.6	660.4
20°	2280.9	1965.2	1349.8	918.1	734.5	666.9	637.9	618.5	615.3	612.1	612.1
22.5°	2338.9	1971.6	1262.9	837.6	686.2	625.0	589.5	570.2	563.8	563.8	563.8
25°	2413.0	1990.9	1182.3	770.0	644.3	586.3	541.2	525.1	521.9	521.9	518.7
27.5°	2499.9	2013.5	1111.4	718.4	602.4	541.2	496.1	480.0	473.6	473.6	470.3
30°	2593.4	2036.0	1053.5	679.8	560.6	496.1	454.2	434.9	428.5	431.7	428.5
32.5°	2696.5	2068.2	1008.4	654.0	521.9	457.5	418.8	396.3	393.0	393.0	389.8
35°	2870.4	2158.5	1001.9	641.1	489.7	428.5	389.8	367.3	364.0	364.0	360.8
37.5°	3057.3	2261.5	1030.9	634.6	463.9	402.7	367.3	344.7	341.5	341.5	341.5
40°	3215.1	2338.9	1063.1	634.6	447.8	380.1	347.9	328.6	328.6	328.6	328.6
42.5°	3321.4	2345.3	1056.7	634.6	434.9	364.0	335.0	315.7	315.7	318.9	315.7
45°	3479.3	2377.5	1030.9	625.0	425.2	351.2	322.2	306.0	302.8	306.0	306.0
47.5°	3666.1	2435.5	1005.1	586.3	422.0	338.3	312.5	293.2	289.9	293.2	289.9
50°	3843.3	2487.1	992.2	534.8	415.6	325.4	299.6	280.3	277.1	280.3	277.1
52.5°	3991.5	2509.6	969.7	499.3	399.5	312.5	286.7	267.4	260.9	264.2	264.2
55°	4110.7	2503.2	937.5	470.3	370.5	299.6	270.6	254.5	244.8	244.8	241.6
57.5°	4220.3	2506.4	908.5	441.4	338.3	280.3	257.7	238.4	225.5	222.3	219.1
60°	4262.1	2490.3	856.9	402.7	306.0	264.2	241.6	219.1	206.2	203.0	199.7
62.5°	4204.2	2432.3	789.3	335.0	277.1	244.8	225.5	203.0	190.1	186.9	183.6
65°	4039.9	2322.8	686.2	264.2	251.3	222.3	206.2	190.1	174.0	167.5	164.3
67.5°	3759.6	2164.9	557.3	212.6	222.3	203.0	193.3	174.0	154.6	148.2	145.0
70°	3360.1	1955.5	418.8	180.4	196.5	180.4	174.0	154.6	138.5	132.1	128.9
72.5°	2799.5	1617.2	293.2	154.6	170.7	157.9	151.4	138.5	122.4	112.8	112.8
75°	2116.6	1159.8	193.3	132.1	141.7	135.3	125.6	116.0	106.3	99.9	96.6
77.5°	911.7	451.0	119.2	99.9	116.0	112.8	99.9	93.4	90.2	83.8	83.8
80°	393.0	183.6	74.1	74.1	83.8	80.5	77.3	70.9	70.9	67.7	64.4
82.5°	145.0	74.1	45.1	54.8	61.2	54.8	54.8	54.8	54.8	51.5	51.5
85°	35.4	22.6	22.6	32.2	35.4	32.2	35.4	32.2	32.2	32.2	29.0
87.5°	9.7	9.7	12.9	12.9	12.9	12.9	12.9	9.7	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)