

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: P842605

Luminaire Tested: **ARCH4-70-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8979 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

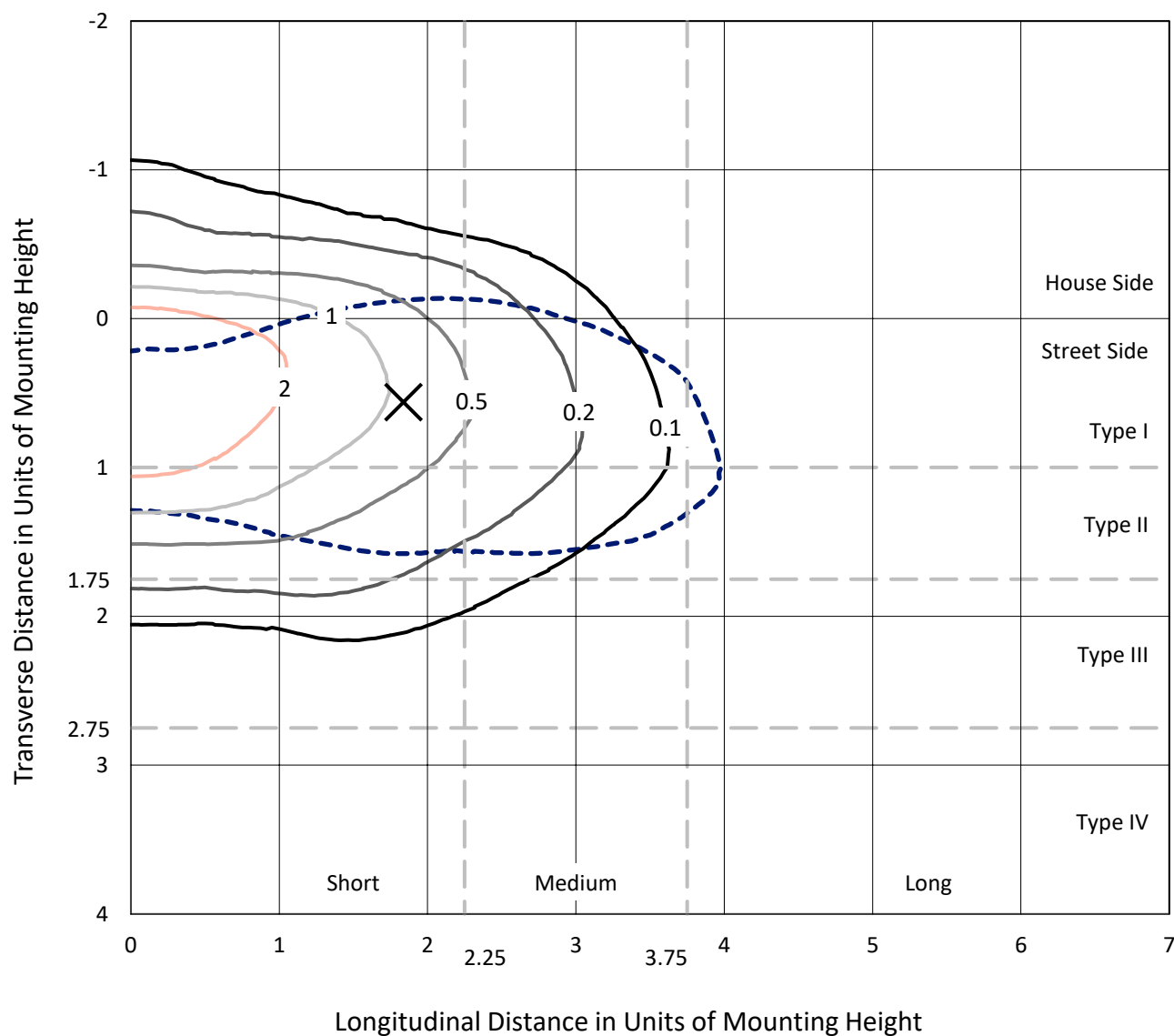


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

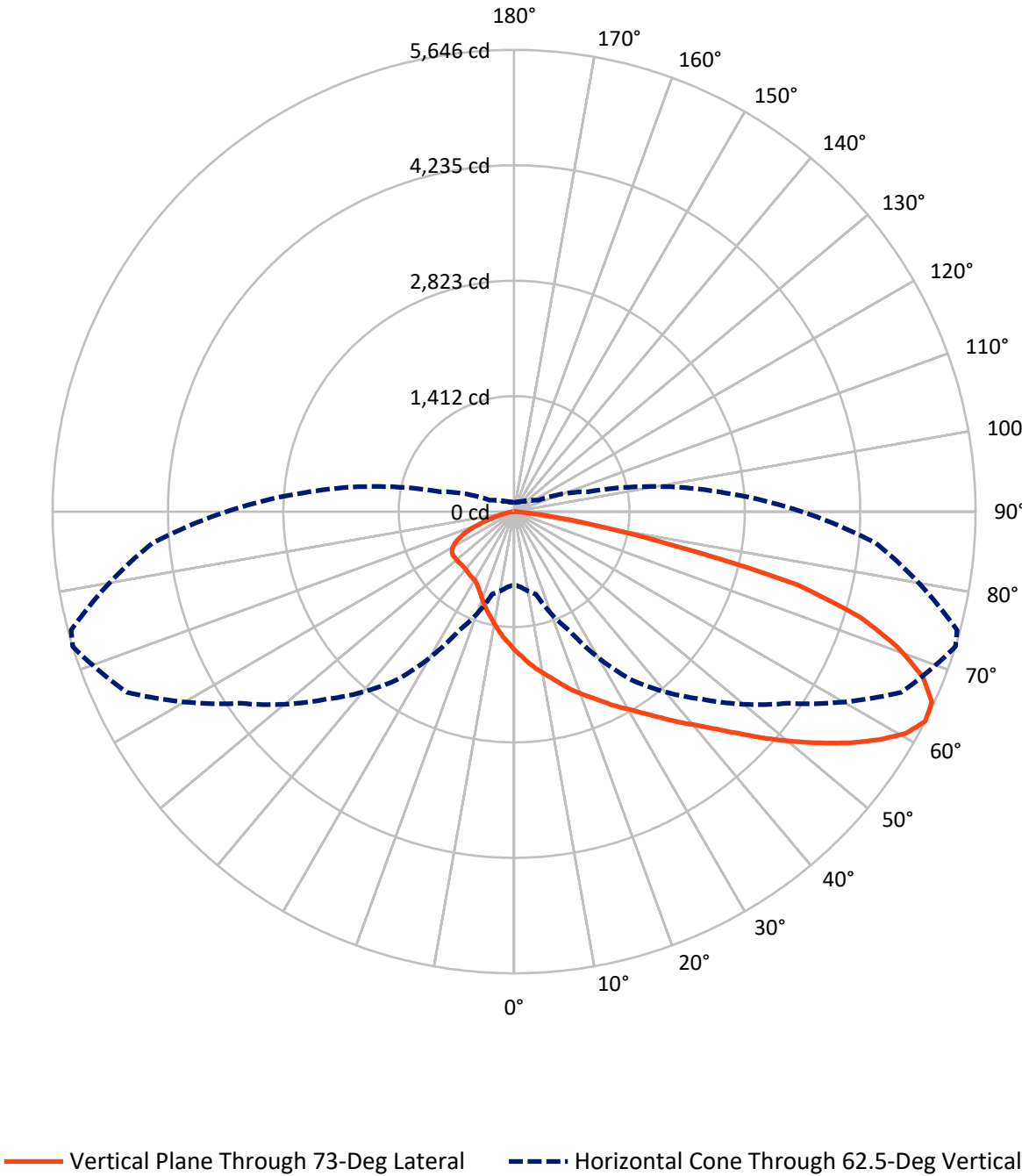
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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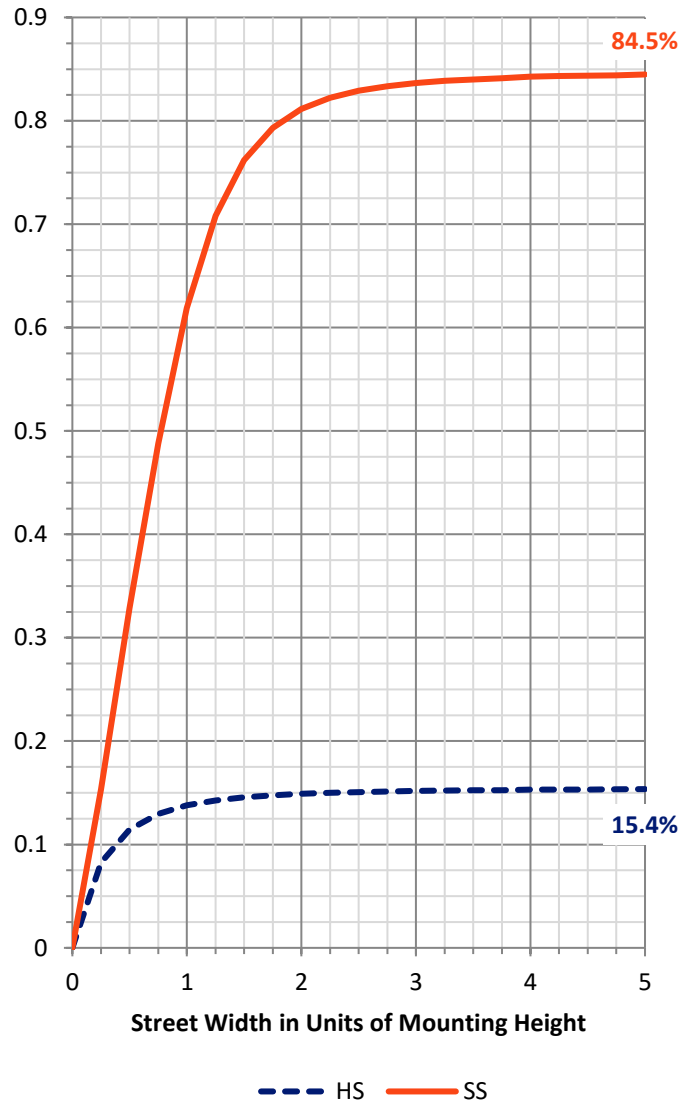
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.9	0.0	1391.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7587.1	0.0	7587.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	8979.0	0.0	8979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.8
10°-20°	495.6	5.5
20°-30°	825.0	9.2
30°-40°	1244.8	13.9
40°-50°	1739.9	19.4
50°-60°	1921.8	21.4
60°-70°	1674.1	18.6
70°-80°	845.7	9.4
80°-90°	67.9	0.8
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°	8979.0	100.0
0°-180°	8979.0	100.0

Coefficient of Utilization



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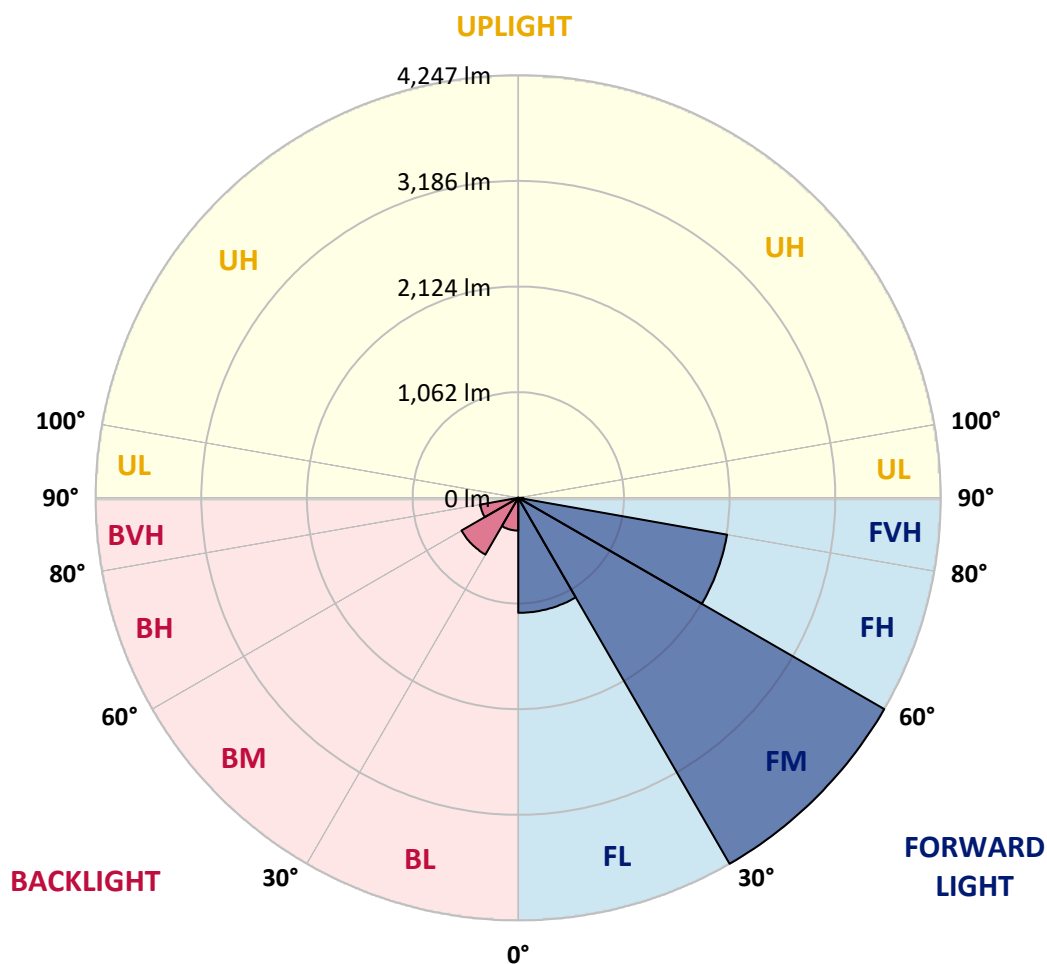
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.9	12.9			
FM	(30°-60°)	4247.4	47.3			
FH	(60°-80°)	2131.3	23.7			G2/5000
FVH	(80°-90°)	52.5	0.6			G1/100
BL	(0°-30°)	329.0	3.7	B1/500		
BM	(30°-60°)	659.0	7.3	B1/1000		
BH	(60°-80°)	388.5	4.3	B1/500		G1/500
BVH	(80°-90°)	15.3	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2
2.5°	1935.0	1956.5	1944.8	1952.6	1913.5	1888.0	1858.7	1801.9	1770.6	1766.7	1729.5
5°	2218.7	2242.1	2222.6	2216.7	2148.2	2089.5	2023.0	1923.2	1856.7	1845.0	1762.8
7.5°	2502.4	2523.9	2500.4	2482.8	2390.8	2287.1	2189.3	2042.6	1938.9	1919.3	1790.2
10°	2701.9	2721.5	2703.9	2686.3	2590.4	2484.7	2345.8	2154.1	2013.2	1981.9	1807.8
12.5°	2852.6	2864.3	2856.5	2840.8	2750.8	2637.4	2504.3	2279.3	2097.4	2058.2	1835.2
15°	2975.8	2995.4	2985.6	2973.9	2887.8	2774.3	2647.1	2410.4	2195.2	2146.3	1876.3
17.5°	3058.0	3071.7	3073.7	3073.7	2997.3	2885.8	2762.6	2529.7	2293.0	2230.4	1915.4
20°	3095.2	3110.8	3120.6	3136.3	3073.7	2977.8	2852.6	2631.5	2385.0	2314.5	1952.6
22.5°	3112.8	3126.5	3151.9	3187.1	3136.3	3056.0	2940.6	2725.4	2476.9	2402.6	1995.6
25°	3126.5	3144.1	3181.3	3247.8	3212.6	3144.1	3044.3	2833.0	2586.5	2510.2	2058.2
27.5°	3163.6	3185.2	3220.4	3300.6	3257.6	3224.3	3153.9	2948.4	2701.9	2623.7	2134.5
30°	3292.8	3310.4	3308.4	3359.3	3306.5	3296.7	3247.8	3060.0	2813.4	2735.2	2224.5
32.5°	3527.6	3545.2	3502.1	3482.6	3367.1	3369.1	3349.5	3179.3	2946.5	2866.3	2328.2
35°	3779.9	3799.5	3742.8	3709.5	3515.8	3459.1	3468.9	3328.0	3095.2	3015.0	2457.4
37.5°	4004.9	4028.4	3979.5	3930.6	3734.9	3603.9	3601.9	3494.3	3265.4	3183.2	2600.2
40°	4128.2	4155.6	4184.9	4157.5	3952.1	3807.3	3744.7	3664.5	3433.6	3349.5	2754.7
42.5°	4186.9	4263.2	4316.0	4298.4	4130.2	3983.4	3909.1	3842.6	3639.1	3556.9	2938.7
45°	4022.6	4024.5	4136.0	4231.9	4200.6	4102.8	4089.1	4042.1	3873.9	3795.6	3146.0
47.5°	3817.1	3801.5	3879.7	4049.9	4138.0	4163.4	4243.6	4263.2	4141.9	4063.6	3357.3
50°	3324.1	3333.9	3588.2	3832.8	4004.9	4169.3	4353.2	4490.2	4417.8	4343.4	3580.4
52.5°	2703.9	2727.4	3018.9	3556.9	3828.9	4110.6	4417.8	4717.1	4699.5	4629.1	3803.4
55°	2167.8	2205.0	2514.1	3097.1	3603.9	3979.5	4445.2	4924.5	4991.0	4926.5	4022.6
57.5°	1657.1	1696.3	1956.5	2555.2	3316.3	3766.2	4425.6	5106.4	5263.0	5221.9	4224.1
60°	1248.2	1287.4	1453.7	2071.9	2956.3	3527.6	4327.8	5225.8	5507.5	5464.5	4370.8
62.5°	894.1	925.4	1048.7	1612.2	2518.0	3243.9	4087.1	5227.8	5646.4	5611.2	4441.2
65°	643.7	643.7	743.5	1150.4	2107.1	2903.4	3723.2	4987.1	5617.1	5607.3	4392.3
67.5°	463.7	467.6	547.8	804.1	1680.6	2490.6	3251.7	4558.6	5390.1	5439.1	4216.2
70°	328.7	338.5	375.6	561.5	1269.8	1966.3	2746.9	3997.1	4981.2	5067.3	3875.8
72.5°	254.3	260.2	285.6	391.3	927.4	1461.5	2189.3	3371.0	4435.4	4533.2	3412.1
75°	195.6	201.5	221.1	287.6	665.2	1025.2	1555.4	2615.8	3576.5	3750.6	2741.0
77.5°	142.8	150.6	164.3	209.3	387.4	651.5	943.0	1471.3	1974.1	2056.3	1436.1
80°	66.5	76.3	95.9	135.0	209.3	307.2	334.6	567.4	948.9	991.9	778.7
82.5°	37.2	47.0	54.8	82.2	105.7	109.6	113.5	142.8	358.0	395.2	326.7
85°	17.6	23.5	25.4	35.2	35.2	31.3	37.2	27.4	58.7	70.4	68.5
87.5°	0.0	2.0	3.9	9.8	7.8	5.9	5.9	5.9	5.9	7.8	5.9
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°	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2	1700.2
2.5°	1711.9	1686.5	1627.8	1576.9	1543.7	1514.3	1475.2	1457.6	1426.3	1432.2	1414.5
5°	1721.7	1674.8	1571.1	1475.2	1404.8	1342.2	1273.7	1234.5	1191.5	1187.6	1173.9
7.5°	1727.6	1655.2	1506.5	1371.5	1263.9	1168.0	1076.1	1025.2	972.4	960.6	948.9
10°	1721.7	1625.8	1440.0	1263.9	1121.1	1001.7	898.0	833.5	778.7	765.0	753.2
12.5°	1727.6	1610.2	1377.4	1164.1	993.9	858.9	741.5	675.0	624.1	610.4	602.6
15°	1741.3	1600.4	1324.5	1074.1	880.4	729.8	614.3	557.6	516.5	502.8	498.9
17.5°	1753.0	1590.6	1267.8	986.1	766.9	616.3	516.5	469.6	434.3	420.6	416.7
20°	1768.7	1576.9	1211.1	901.9	667.2	526.3	438.3	397.2	369.8	360.0	358.0
22.5°	1782.4	1567.2	1158.2	817.8	575.2	453.9	379.6	346.3	326.7	317.0	317.0
25°	1817.6	1571.1	1113.2	739.6	506.7	397.2	334.6	309.1	293.5	287.6	287.6
27.5°	1858.7	1586.7	1078.0	673.0	448.0	354.1	303.3	281.7	273.9	266.1	268.0
30°	1917.4	1618.0	1054.5	618.3	405.0	320.9	277.8	262.2	254.3	252.4	252.4
32.5°	1991.7	1668.9	1052.6	583.0	373.7	295.4	260.2	246.5	242.6	240.6	240.6
35°	2079.8	1713.9	1040.9	567.4	354.1	277.8	246.5	236.7	234.8	234.8	234.8
37.5°	2185.4	1788.2	1033.0	545.9	344.3	268.0	236.7	228.9	228.9	228.9	228.9
40°	2295.0	1848.9	1021.3	526.3	340.4	262.2	230.9	221.1	221.1	221.1	221.1
42.5°	2426.1	1936.9	1017.4	516.5	334.6	258.3	223.0	211.3	213.3	213.3	215.2
45°	2584.5	2036.7	1015.4	506.7	332.6	254.3	215.2	201.5	203.5	201.5	201.5
47.5°	2745.0	2152.1	1021.3	500.9	330.6	250.4	209.3	191.7	191.7	189.8	189.8
50°	2913.2	2257.8	1025.2	495.0	326.7	242.6	199.6	183.9	180.0	176.1	178.0
52.5°	3071.7	2355.6	1027.2	485.2	315.0	230.9	191.7	174.1	168.3	162.4	164.3
55°	3230.2	2449.5	1031.1	473.5	299.3	219.1	182.0	164.3	156.5	148.7	148.7
57.5°	3373.0	2531.7	1021.3	444.1	281.7	207.4	172.2	152.6	140.9	133.0	133.0
60°	3470.8	2590.4	991.9	401.1	258.3	193.7	162.4	140.9	127.2	121.3	121.3
62.5°	3517.8	2600.2	939.1	330.6	228.9	180.0	150.6	129.1	117.4	113.5	113.5
65°	3472.8	2557.1	856.9	248.5	197.6	164.3	138.9	119.3	107.6	97.8	97.8
67.5°	3316.3	2435.8	743.5	187.8	168.3	148.7	127.2	109.6	95.9	88.0	88.0
70°	3001.3	2183.4	575.2	150.6	142.8	129.1	115.4	97.8	86.1	76.3	76.3
72.5°	2588.4	1850.8	405.0	121.3	121.3	109.6	97.8	86.1	74.3	66.5	66.5
75°	1985.8	1369.5	272.0	97.8	99.8	92.0	80.2	70.4	62.6	56.7	56.7
77.5°	1083.9	676.9	166.3	72.4	74.3	70.4	62.6	56.7	52.8	47.0	47.0
80°	526.3	297.4	95.9	50.9	52.8	50.9	47.0	41.1	41.1	37.2	37.2
82.5°	221.1	111.5	50.9	35.2	35.2	31.3	29.3	29.3	29.3	27.4	27.4
85°	54.8	21.5	21.5	19.6	19.6	19.6	17.6	17.6	17.6	13.7	15.7
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	5.9	2.0	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)