

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: P841586

Luminaire Tested: **ARCH4-200-727-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841586
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: ARCH4-200-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 20977 lumens
Efficiency: N/A
Efficacy: 103.0 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



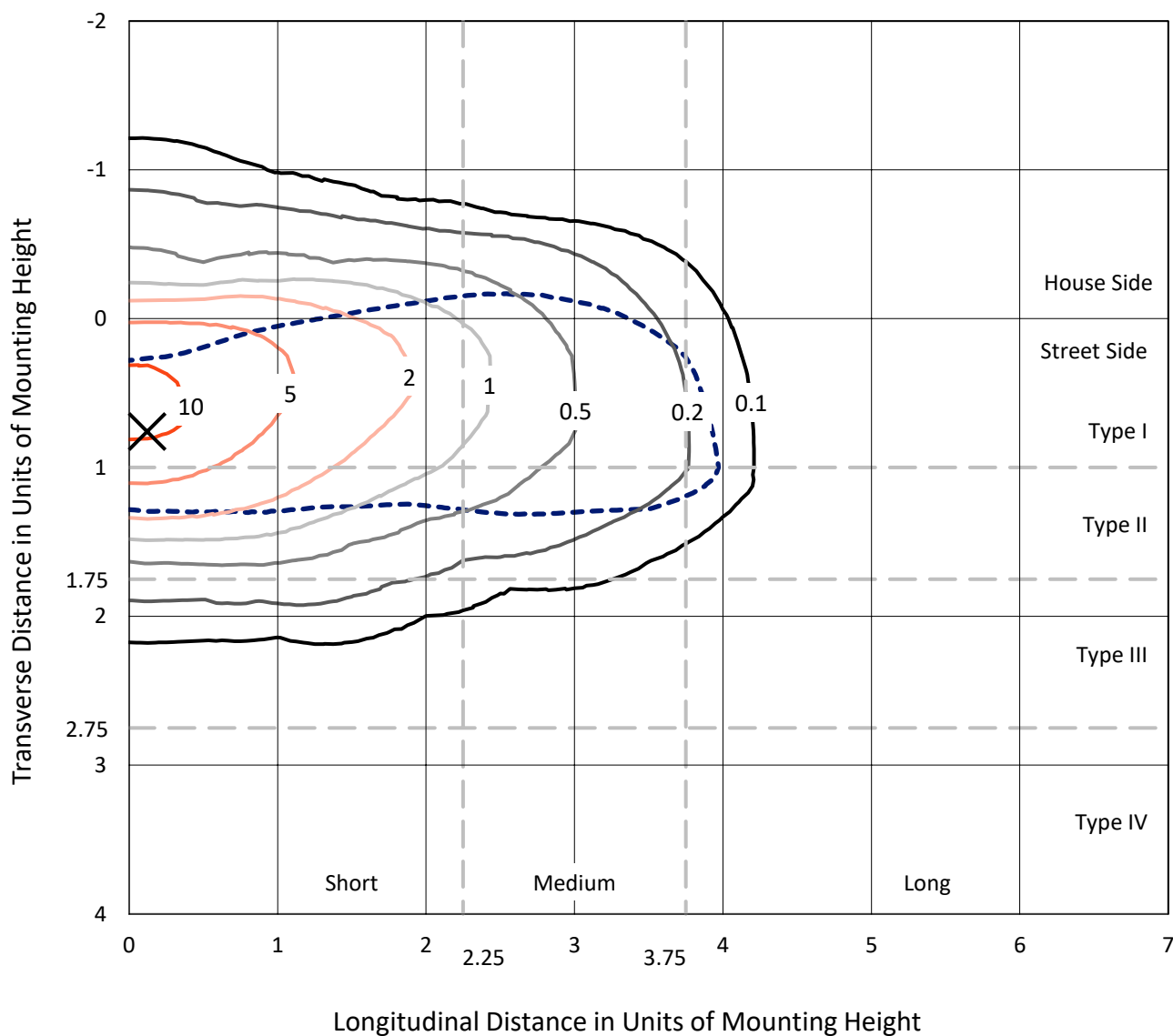
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

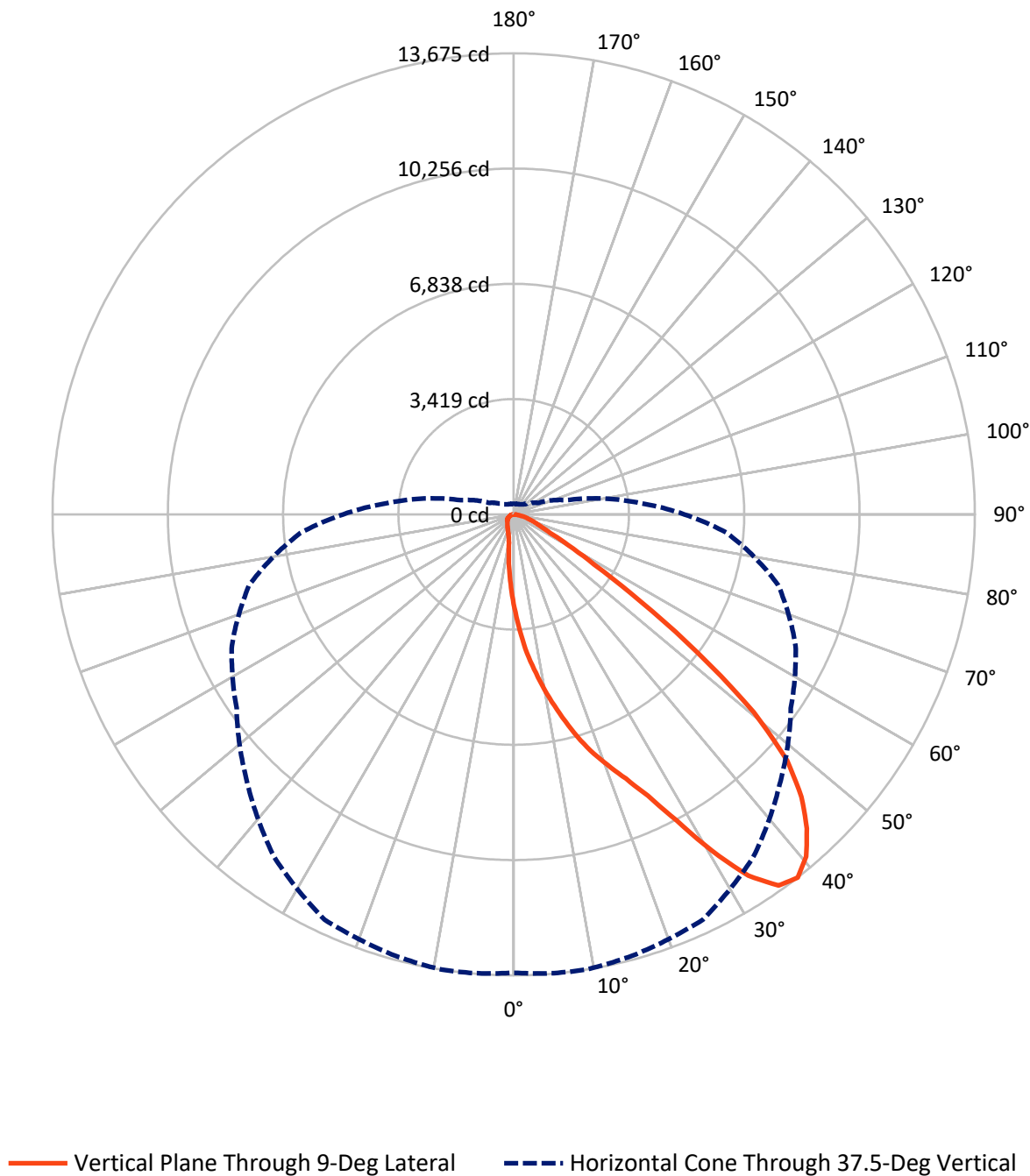


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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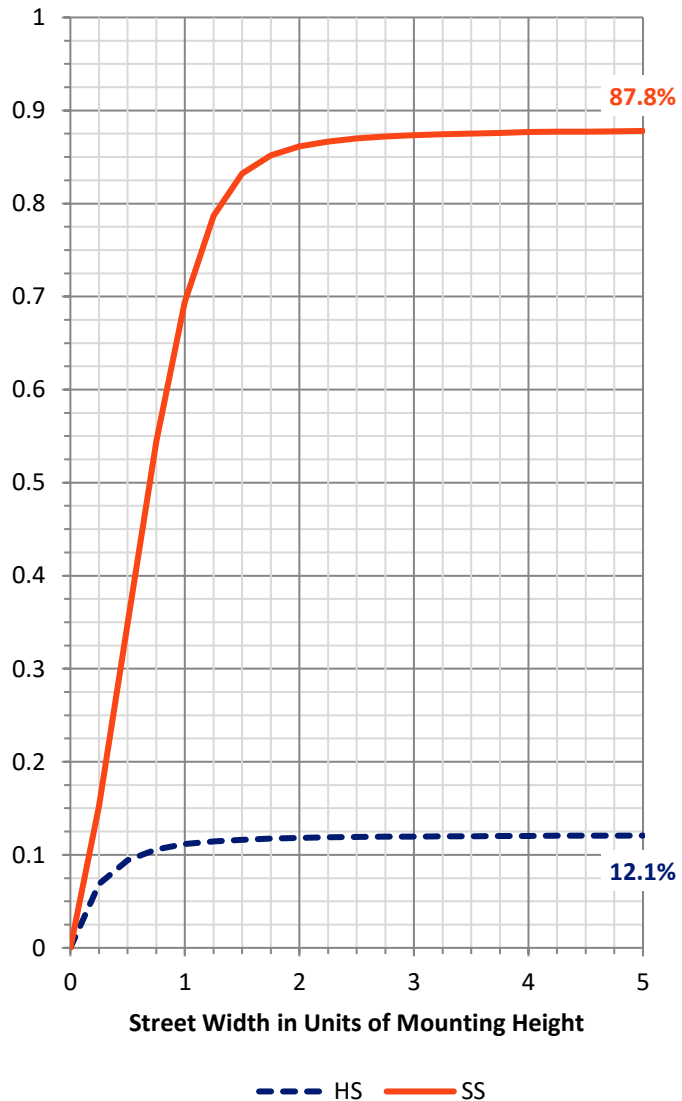
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.2	0.0	2551.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18425.8	0.0	18425.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	20977.0	0.0	20977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	1.3
10°-20°	968.7	4.6
20°-30°	1990.5	9.5
30°-40°	3518.4	16.8
40°-50°	4673.9	22.3
50°-60°	4432.9	21.1
60°-70°	3381.9	16.1
70°-80°	1639.5	7.8
80°-90°	92.3	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°	20977.0	100.0
0°-180°	20977.0	100.0

Coefficient of Utilization



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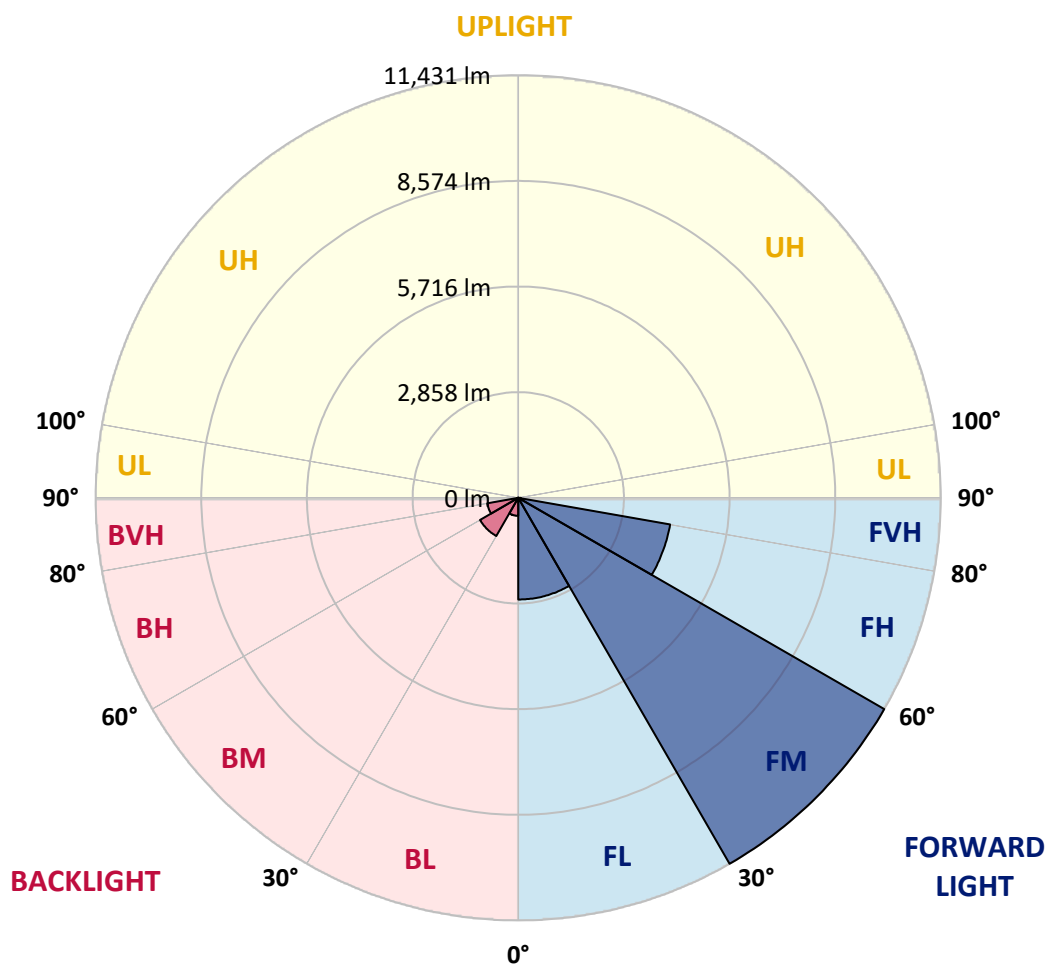
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2751.1	13.1			
FM	(30°-60°)	11431.5	54.5			
FH	(60°-80°)	4170.2	19.9			G2/5000
FVH	(80°-90°)	73.1	0.3			G1/100
BL	(0°-30°)	486.9	2.3	B1/500		
BM	(30°-60°)	1193.8	5.7	B2/2500		
BH	(60°-80°)	851.3	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.2	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°	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9
2.5°	3436.0	3375.7	3444.6	3436.0	3375.7	3337.0	3216.4	3177.6	3035.6	2932.2	2841.8
5°	4142.1	4081.9	4142.1	4124.9	4038.8	3944.1	3746.0	3616.8	3362.8	3138.9	2936.5
7.5°	4727.7	4727.7	4753.6	4757.9	4654.5	4508.1	4262.7	4068.9	3711.6	3367.1	3044.2
10°	5360.7	5365.0	5420.9	5382.2	5244.4	5046.3	4736.3	4490.9	4060.3	3608.2	3147.5
12.5°	6036.7	6041.0	6058.2	6041.0	5877.4	5623.3	5248.7	4925.8	4430.6	3883.8	3289.6
15°	6712.7	6717.0	6738.5	6708.4	6527.5	6230.4	5804.2	5408.0	4822.4	4193.8	3461.8
17.5°	7345.6	7354.2	7371.5	7332.7	7143.2	6790.2	6355.3	5877.4	5240.1	4525.3	3655.6
20°	7914.0	7922.6	7935.5	7883.8	7694.4	7341.3	6872.0	6372.5	5666.4	4865.5	3866.6
22.5°	8486.6	8495.3	8516.8	8447.9	8236.9	7832.2	7371.5	6854.8	6118.5	5240.1	4112.0
25°	9218.6	9227.2	9244.5	9145.4	8856.9	8383.3	7896.8	7367.1	6609.3	5662.1	4413.4
27.5°	10290.8	10282.1	10282.1	10101.3	9606.1	8990.4	8426.4	7888.1	7138.9	6114.2	4744.9
30°	11616.9	11595.4	11582.5	11337.1	10630.9	9675.0	8968.9	8374.7	7647.0	6592.1	5102.3
32.5°	12805.3	12805.3	12779.5	12521.1	11771.9	10596.5	9545.9	8848.3	8137.9	7074.4	5472.6
35°	13507.2	13537.3	13524.4	13330.6	12783.8	11586.8	10325.2	9416.7	8654.6	7578.1	5916.1
37.5°	13601.9	13662.2	13675.1	13558.8	13270.3	12396.3	11190.7	10032.4	9222.9	8120.7	6346.7
40°	13218.7	13347.8	13347.8	13330.6	13227.3	12779.5	11918.3	10747.2	9808.5	8684.7	6781.6
42.5°	12628.8	12762.3	12745.0	12809.6	12783.8	12689.1	12327.4	11414.6	10394.1	9266.0	7177.7
45°	11858.0	11995.8	11961.4	12077.6	12129.3	12232.6	12284.3	11879.6	10971.1	9898.9	7621.2
47.5°	10622.3	10854.8	10906.5	11113.2	11328.4	11651.4	11896.8	12047.5	11509.3	10579.2	8103.4
50°	8796.7	9123.9	9227.2	9662.1	10252.0	10919.4	11315.5	11840.8	11888.2	11276.8	8624.4
52.5°	6299.3	6678.2	6837.5	7552.3	8766.5	9929.1	10643.8	11384.4	12034.6	11944.2	9188.5
55°	4073.2	4396.2	4551.2	5222.9	6837.5	8663.2	9851.6	10794.5	11952.8	12555.6	9834.3
57.5°	2510.3	2695.4	2798.7	3375.7	4861.2	7039.9	8813.9	10252.0	11703.0	13085.2	10506.0
60°	1692.2	1799.8	1851.5	2122.7	3302.5	5261.6	7388.7	9683.6	11375.8	13442.6	11117.5
62.5°	1123.8	1158.2	1209.9	1377.8	2178.7	3694.3	5675.0	8667.5	11130.4	13464.1	11569.6
65°	869.8	887.0	908.5	981.7	1343.4	2583.5	3991.4	7022.7	10764.4	13007.7	11711.7
67.5°	684.6	701.8	727.7	766.4	973.1	1752.4	2716.9	5145.4	10015.2	12292.9	11479.1
70°	538.2	551.1	568.4	602.8	757.8	1270.2	1795.5	3418.8	8503.9	11612.6	10747.2
72.5°	426.3	439.2	456.4	490.9	615.7	930.0	1231.4	2131.3	6557.7	10781.6	9339.2
75°	335.8	344.5	357.4	391.8	495.2	723.4	835.3	1274.5	4456.5	9261.7	7276.7
77.5°	167.9	206.7	236.8	271.3	361.7	499.5	555.4	706.1	1881.6	4753.6	3470.4
80°	99.0	120.6	129.2	150.7	236.8	301.4	301.4	284.2	594.2	1825.6	1416.6
82.5°	56.0	77.5	81.8	86.1	142.1	172.2	137.8	103.3	120.6	611.4	413.4
85°	17.2	25.8	30.1	34.4	47.4	51.7	47.4	43.1	34.4	60.3	38.8
87.5°	0.0	0.0	0.0	0.0	4.3	8.6	8.6	8.6	12.9	12.9	12.9
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°	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9
2.5°	2790.1	2734.2	2626.5	2527.5	2432.8	2363.9	2299.3	2239.0	2195.9	2161.5	2157.2
5°	2828.9	2716.9	2510.3	2316.5	2140.0	1993.6	1868.7	1769.7	1696.5	1644.8	1640.5
7.5°	2880.5	2708.3	2394.0	2105.5	1842.9	1631.9	1451.0	1317.6	1222.8	1184.1	1153.9
10°	2923.6	2699.7	2277.7	1894.5	1550.1	1283.1	1067.8	934.3	865.5	839.6	826.7
12.5°	2996.8	2708.3	2178.7	1700.8	1296.0	981.7	818.1	744.9	714.8	693.2	688.9
15°	3104.4	2747.1	2084.0	1511.3	1037.7	792.3	697.5	650.2	620.0	615.7	611.4
17.5°	3212.1	2781.5	1997.9	1317.6	861.2	688.9	624.3	585.6	564.1	559.7	559.7
20°	3337.0	2824.6	1903.1	1132.4	736.3	620.0	568.4	538.2	512.4	508.1	508.1
22.5°	3483.4	2884.9	1812.7	968.8	654.5	568.4	525.3	490.9	469.3	465.0	465.0
25°	3681.4	2975.3	1739.5	848.2	598.5	525.3	486.6	456.4	439.2	430.6	430.6
27.5°	3901.0	3100.1	1687.9	775.0	559.7	490.9	452.1	426.3	409.0	400.4	400.4
30°	4146.4	3237.9	1653.4	744.9	538.2	460.7	426.3	400.4	378.9	374.6	374.6
32.5°	4417.7	3397.2	1631.9	749.2	533.9	439.2	400.4	374.6	357.4	348.8	348.8
35°	4719.1	3573.8	1619.0	775.0	542.5	422.0	378.9	353.1	335.8	327.2	327.2
37.5°	5055.0	3780.5	1619.0	800.9	564.1	417.7	357.4	331.5	318.6	310.0	310.0
40°	5369.3	4000.0	1636.2	831.0	585.6	417.7	340.2	318.6	301.4	292.8	292.8
42.5°	5614.7	4124.9	1649.1	861.2	598.5	413.4	322.9	301.4	288.5	279.9	279.9
45°	5894.6	4258.4	1623.3	874.1	598.5	404.7	310.0	288.5	275.6	267.0	267.0
47.5°	6204.6	4422.0	1619.0	882.7	585.6	387.5	297.1	275.6	267.0	258.3	258.3
50°	6518.9	4602.9	1627.6	878.4	568.4	361.7	279.9	267.0	254.0	245.4	245.4
52.5°	6876.3	4792.3	1644.8	869.8	529.6	331.5	267.0	254.0	241.1	232.5	228.2
55°	7272.4	4999.0	1679.2	852.5	477.9	301.4	254.0	241.1	223.9	215.3	211.0
57.5°	7728.8	5253.0	1718.0	818.1	422.0	275.6	241.1	223.9	198.1	185.1	180.8
60°	8163.7	5541.5	1761.1	736.3	366.0	249.7	228.2	202.4	176.5	167.9	163.6
62.5°	8572.8	5825.7	1782.6	589.9	310.0	228.2	215.3	185.1	159.3	150.7	146.4
65°	8835.4	6135.7	1735.2	400.4	254.0	211.0	198.1	172.2	146.4	133.5	133.5
67.5°	8852.6	6282.1	1571.6	262.7	206.7	189.5	180.8	155.0	129.2	120.6	116.3
70°	8417.7	6062.5	1201.3	206.7	172.2	163.6	163.6	137.8	111.9	103.3	99.0
72.5°	7418.8	5369.3	766.4	167.9	146.4	137.8	137.8	116.3	99.0	86.1	81.8
75°	5855.8	4142.1	409.0	137.8	120.6	116.3	107.6	94.7	81.8	73.2	68.9
77.5°	2691.1	1825.6	189.5	99.0	90.4	90.4	81.8	68.9	64.6	56.0	56.0
80°	1063.5	620.0	94.7	64.6	60.3	60.3	60.3	47.4	47.4	38.8	34.4
82.5°	292.8	129.2	47.4	38.8	38.8	38.8	34.4	30.1	30.1	25.8	25.8
85°	30.1	21.5	21.5	21.5	21.5	17.2	17.2	12.9	8.6	8.6	8.6
87.5°	12.9	12.9	12.9	12.9	12.9	8.6	4.3	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)