

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: P841109

Luminaire Tested: **ARCH4-130-740-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841109
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: ARCH4-130-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA 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: 16087 lumens
Efficiency: N/A
Efficacy: 121.9 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

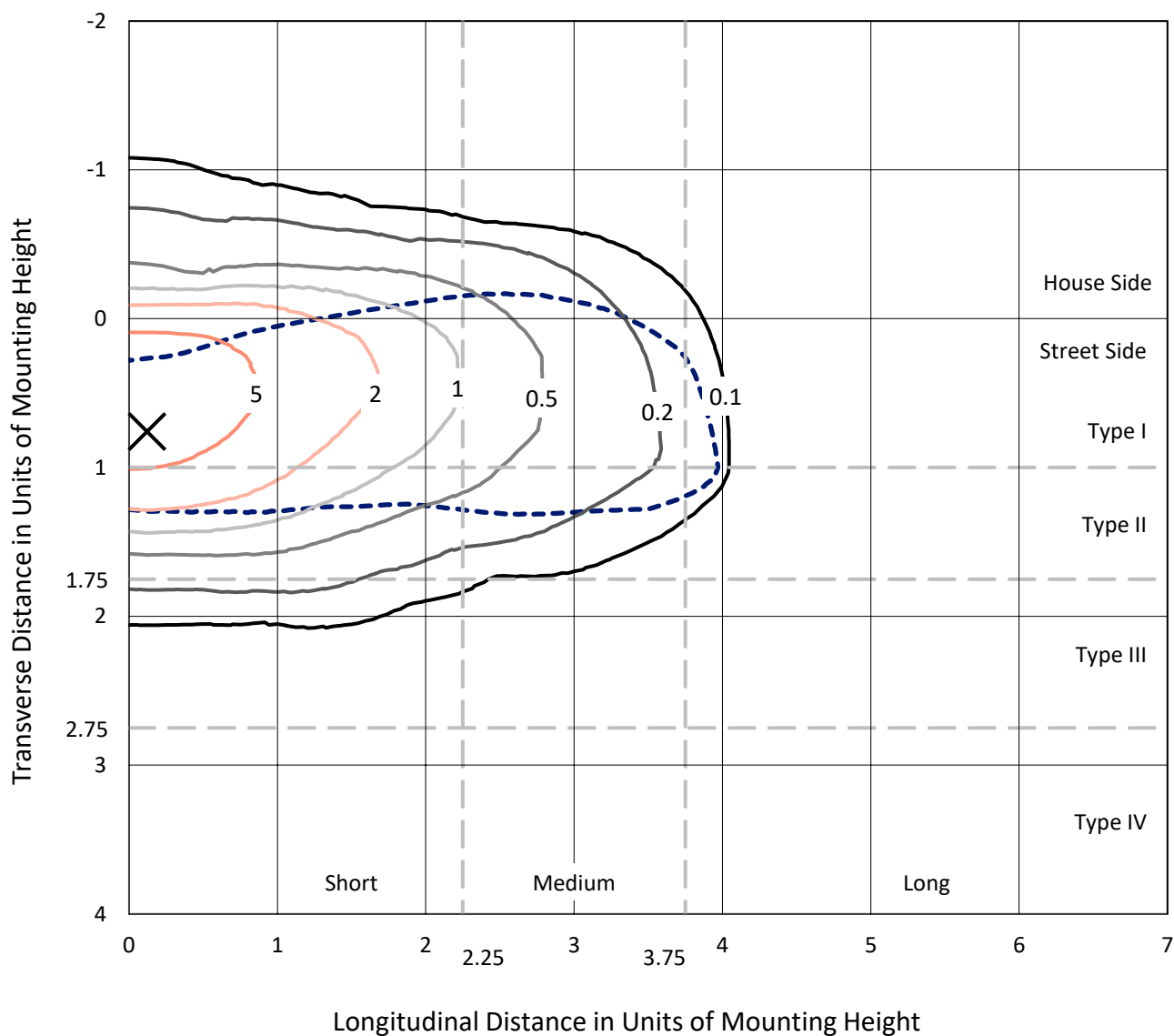
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

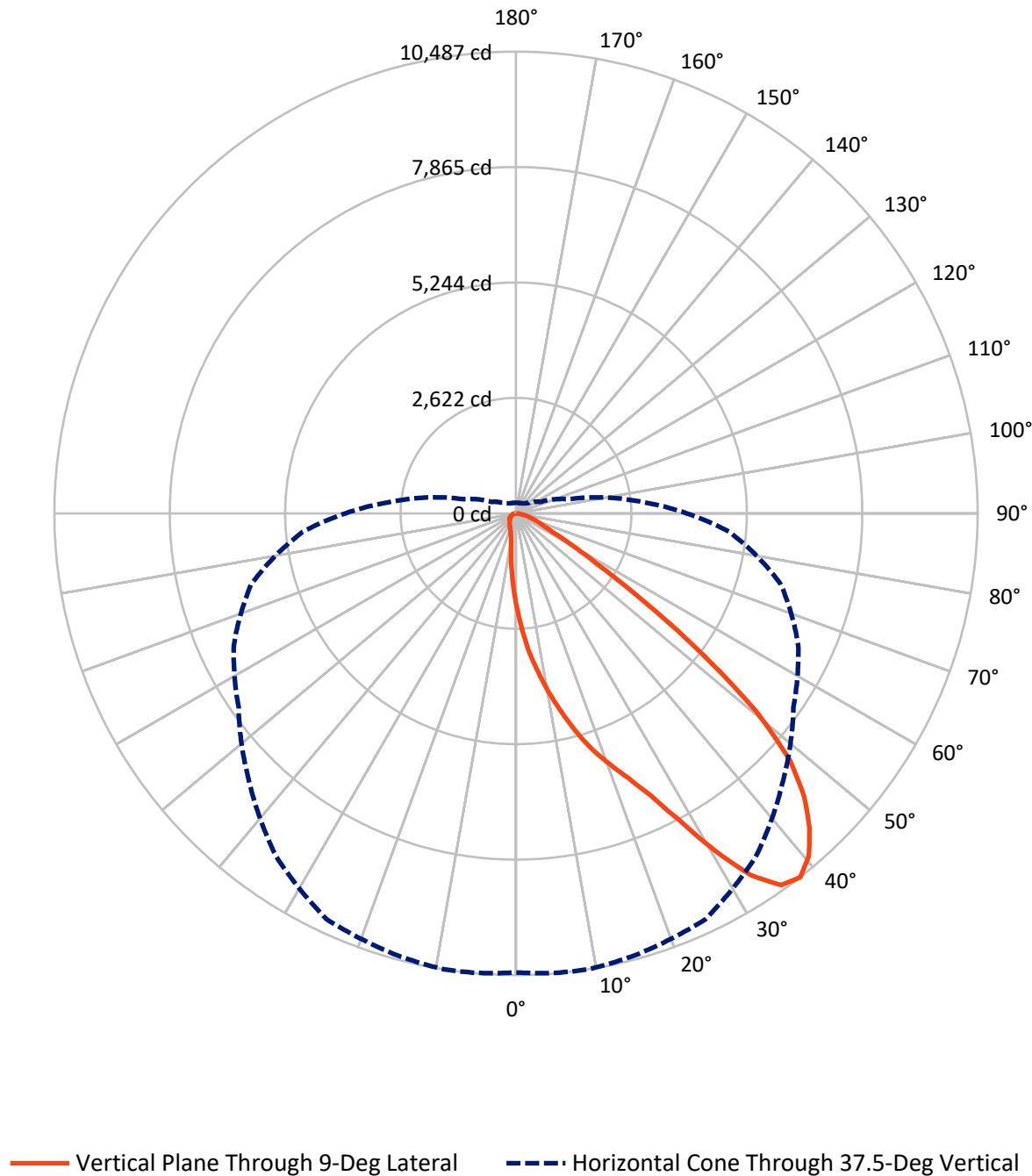
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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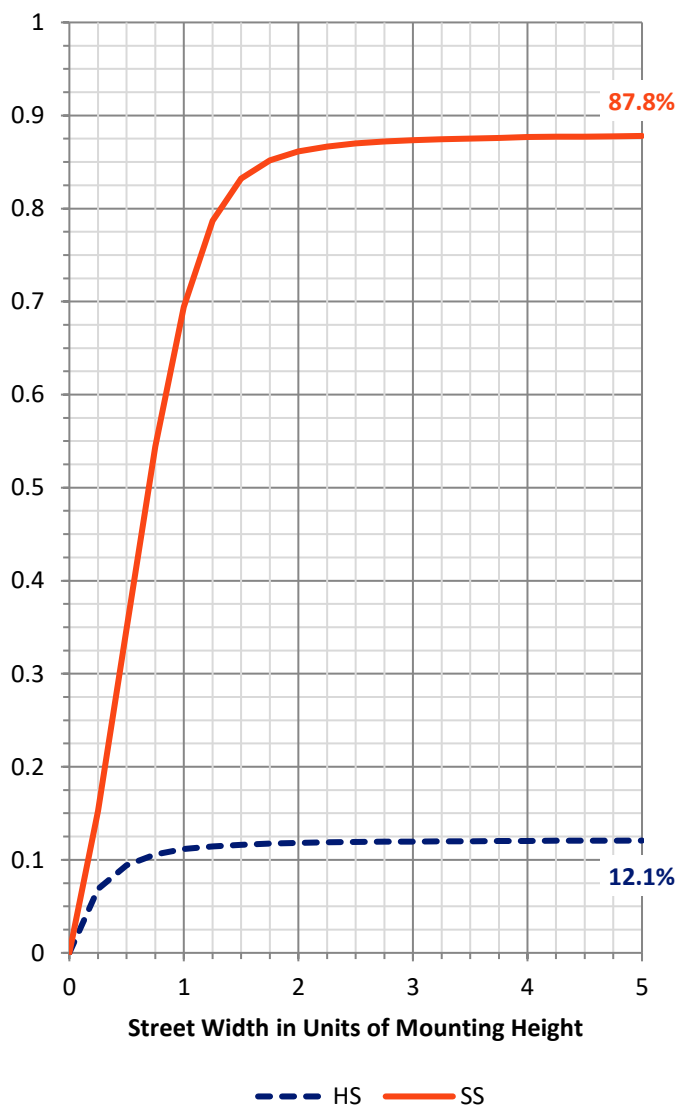
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.5	0.0	1956.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14130.5	0.0	14130.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	16087.0	0.0	16087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.3
10°-20°	742.9	4.6
20°-30°	1526.5	9.5
30°-40°	2698.2	16.8
40°-50°	3584.4	22.3
50°-60°	3399.5	21.1
60°-70°	2593.6	16.1
70°-80°	1257.3	7.8
80°-90°	70.8	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°	16087.0	100.0
0°-180°	16087.0	100.0

Coefficient of Utilization



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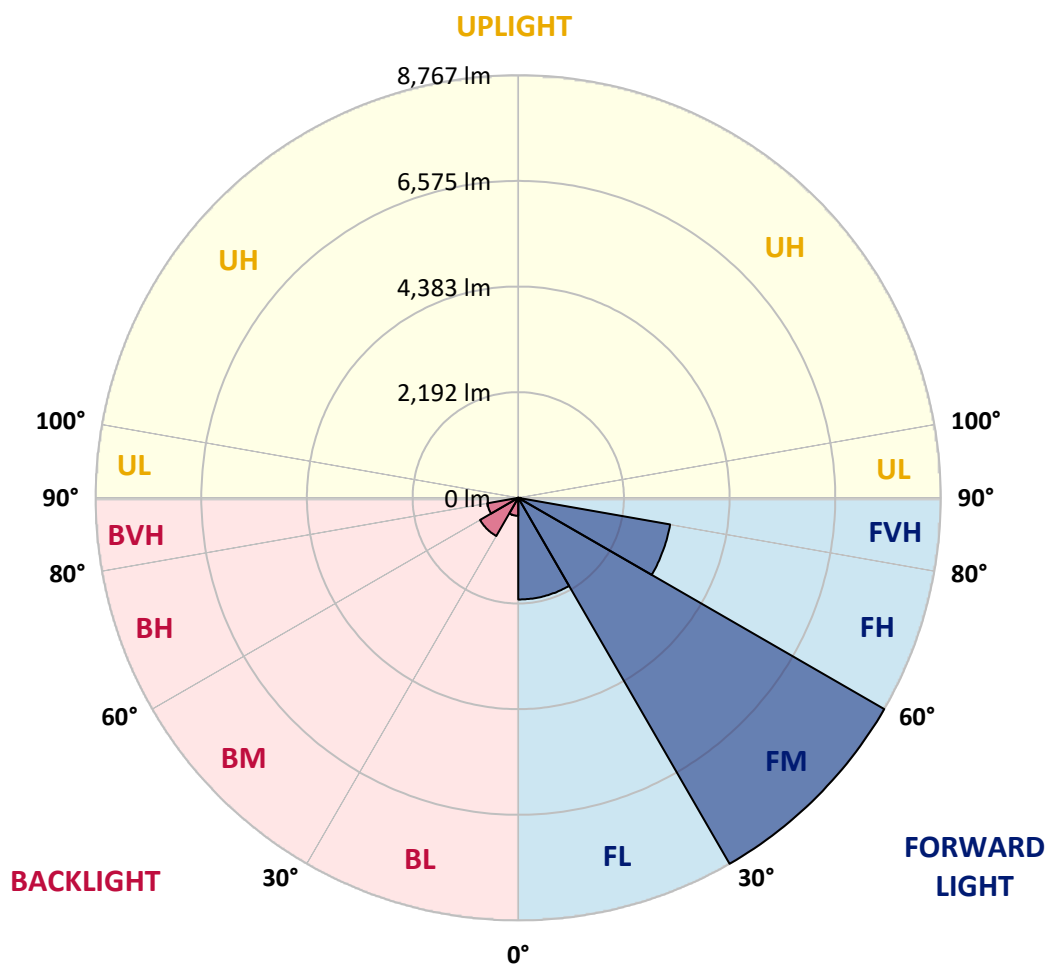
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2109.8	13.1			
FM	(30°-60°)	8766.6	54.5			
FH	(60°-80°)	3198.0	19.9			G2/5000
FVH	(80°-90°)	56.0	0.3			G1/100
BL	(0°-30°)	373.4	2.3	B1/500		
BM	(30°-60°)	915.5	5.7	B1/1000		
BH	(60°-80°)	652.9	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5
2.5°	2635.0	2588.8	2641.6	2635.0	2588.8	2559.1	2466.6	2436.9	2327.9	2248.7	2179.3
5°	3176.6	3130.3	3176.6	3163.3	3097.3	3024.7	2872.8	2773.7	2578.9	2407.2	2252.0
7.5°	3625.6	3625.6	3645.4	3648.7	3569.5	3457.2	3269.0	3120.4	2846.3	2582.2	2334.5
10°	4111.0	4114.3	4157.3	4127.5	4021.9	3870.0	3632.2	3444.0	3113.8	2767.1	2413.8
12.5°	4629.4	4632.7	4646.0	4632.7	4507.3	4312.5	4025.2	3777.5	3397.8	2978.4	2522.8
15°	5147.9	5151.2	5167.7	5144.6	5005.9	4778.0	4451.1	4147.3	3698.3	3216.2	2654.8
17.5°	5633.3	5639.9	5653.1	5623.4	5478.1	5207.3	4873.8	4507.3	4018.6	3470.4	2803.4
20°	6069.1	6075.7	6085.6	6046.0	5900.7	5630.0	5270.0	4887.0	4345.5	3731.3	2965.2
22.5°	6508.3	6514.9	6531.4	6478.6	6316.8	6006.4	5653.1	5256.8	4692.2	4018.6	3153.4
25°	7069.6	7076.2	7089.5	7013.5	6792.3	6429.1	6055.9	5649.8	5068.6	4342.2	3384.6
27.5°	7891.8	7885.2	7885.2	7746.6	7366.8	6894.6	6462.1	6049.3	5474.8	4688.9	3638.8
30°	8908.9	8892.4	8882.5	8694.2	8152.7	7419.7	6878.1	6422.4	5864.4	5055.4	3912.9
32.5°	9820.2	9820.2	9800.4	9602.3	9027.7	8126.3	7320.6	6785.7	6240.8	5425.2	4196.9
35°	10358.5	10381.6	10371.7	10223.1	9803.7	8885.8	7918.3	7221.5	6637.1	5811.6	4537.0
37.5°	10431.1	10477.3	10487.2	10398.1	10176.9	9506.5	8582.0	7693.7	7072.9	6227.6	4867.2
40°	10137.2	10236.3	10236.3	10223.1	10143.8	9800.4	9140.0	8241.9	7522.0	6660.2	5200.7
42.5°	9684.9	9787.2	9774.0	9823.5	9803.7	9731.1	9453.7	8753.7	7971.1	7106.0	5504.5
45°	9093.8	9199.5	9173.0	9262.2	9301.8	9381.1	9420.7	9110.3	8413.6	7591.4	5844.6
47.5°	8146.1	8324.4	8364.0	8522.5	8687.6	8935.3	9123.5	9239.1	8826.3	8113.1	6214.4
50°	6746.0	6997.0	7076.2	7409.8	7862.1	8373.9	8677.7	9080.6	9116.9	8648.0	6614.0
52.5°	4830.9	5121.4	5243.6	5791.8	6722.9	7614.5	8162.6	8730.6	9229.2	9159.8	7046.5
55°	3123.7	3371.4	3490.2	4005.4	5243.6	6643.7	7555.0	8278.2	9166.4	9628.7	7541.8
57.5°	1925.1	2067.1	2146.3	2588.8	3728.0	5398.8	6759.3	7862.1	8974.9	10034.9	8057.0
60°	1297.7	1380.2	1419.9	1627.9	2532.7	4035.1	5666.3	7426.3	8724.0	10308.9	8525.8
62.5°	861.8	888.2	927.9	1056.6	1670.8	2833.1	4352.1	6647.0	8535.7	10325.4	8872.6
65°	667.0	680.2	696.7	752.9	1030.2	1981.2	3061.0	5385.6	8255.1	9975.4	8981.5
67.5°	525.0	538.2	558.0	587.8	746.3	1343.9	2083.6	3945.9	7680.5	9427.3	8803.2
70°	412.8	422.7	435.9	462.3	581.2	974.1	1376.9	2621.8	6521.5	8905.6	8241.9
72.5°	326.9	336.8	350.0	376.4	472.2	713.2	944.4	1634.5	5029.0	8268.3	7162.1
75°	257.6	264.2	274.1	300.5	379.7	554.7	640.6	977.4	3417.6	7102.7	5580.4
77.5°	128.8	158.5	181.6	208.0	277.4	383.0	426.0	541.5	1443.0	3645.4	2661.4
80°	75.9	92.5	99.1	115.6	181.6	231.1	231.1	217.9	455.7	1400.1	1086.4
82.5°	42.9	59.4	62.7	66.0	109.0	132.1	105.7	79.2	92.5	468.9	317.0
85°	13.2	19.8	23.1	26.4	36.3	39.6	36.3	33.0	26.4	46.2	29.7
87.5°	0.0	0.0	0.0	0.0	3.3	6.6	6.6	6.6	9.9	9.9	9.9
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°	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5
2.5°	2139.7	2096.8	2014.2	1938.3	1865.6	1812.8	1763.3	1717.1	1684.0	1657.6	1654.3
5°	2169.4	2083.6	1925.1	1776.5	1641.1	1528.8	1433.1	1357.1	1301.0	1261.4	1258.1
7.5°	2209.1	2077.0	1835.9	1614.7	1413.3	1251.5	1112.8	1010.4	937.8	908.1	884.9
10°	2242.1	2070.4	1746.8	1452.9	1188.7	984.0	818.9	716.5	663.7	643.9	634.0
12.5°	2298.2	2077.0	1670.8	1304.3	993.9	752.9	627.4	571.3	548.1	531.6	528.3
15°	2380.8	2106.7	1598.2	1159.0	795.8	607.6	534.9	498.6	475.5	472.2	468.9
17.5°	2463.3	2133.1	1532.1	1010.4	660.4	528.3	478.8	449.1	432.6	429.3	429.3
20°	2559.1	2166.1	1459.5	868.4	564.6	475.5	435.9	412.8	392.9	389.6	389.6
22.5°	2671.3	2212.4	1390.2	743.0	501.9	435.9	402.8	376.4	359.9	356.6	356.6
25°	2823.2	2281.7	1334.0	650.5	459.0	402.8	373.1	350.0	336.8	330.2	330.2
27.5°	2991.6	2377.5	1294.4	594.4	429.3	376.4	346.7	326.9	313.7	307.1	307.1
30°	3179.9	2483.1	1268.0	571.3	412.8	353.3	326.9	307.1	290.6	287.3	287.3
32.5°	3387.9	2605.3	1251.5	574.6	409.5	336.8	307.1	287.3	274.1	267.5	267.5
35°	3619.0	2740.7	1241.6	594.4	416.1	323.6	290.6	270.8	257.6	251.0	251.0
37.5°	3876.6	2899.2	1241.6	614.2	432.6	320.3	274.1	254.3	244.4	237.7	237.7
40°	4117.6	3067.6	1254.8	637.3	449.1	320.3	260.9	244.4	231.1	224.5	224.5
42.5°	4305.8	3163.3	1264.7	660.4	459.0	317.0	247.7	231.1	221.2	214.6	214.6
45°	4520.5	3265.7	1244.9	670.3	459.0	310.4	237.7	221.2	211.3	204.7	204.7
47.5°	4758.2	3391.2	1241.6	676.9	449.1	297.2	227.8	211.3	204.7	198.1	198.1
50°	4999.3	3529.9	1248.2	673.6	435.9	277.4	214.6	204.7	194.8	188.2	188.2
52.5°	5273.3	3675.2	1261.4	667.0	406.1	254.3	204.7	194.8	184.9	178.3	175.0
55°	5577.1	3833.7	1287.8	653.8	366.5	231.1	194.8	184.9	171.7	165.1	161.8
57.5°	5927.1	4028.5	1317.5	627.4	323.6	211.3	184.9	171.7	151.9	142.0	138.7
60°	6260.6	4249.7	1350.5	564.6	280.7	191.5	175.0	155.2	135.4	128.8	125.5
62.5°	6574.3	4467.6	1367.0	452.4	237.7	175.0	165.1	142.0	122.2	115.6	112.3
65°	6775.8	4705.4	1330.7	307.1	194.8	161.8	151.9	132.1	112.3	102.4	102.4
67.5°	6789.0	4817.7	1205.2	201.4	158.5	145.3	138.7	118.9	99.1	92.5	89.2
70°	6455.5	4649.3	921.3	158.5	132.1	125.5	125.5	105.7	85.9	79.2	75.9
72.5°	5689.4	4117.6	587.8	128.8	112.3	105.7	105.7	89.2	75.9	66.0	62.7
75°	4490.8	3176.6	313.7	105.7	92.5	89.2	82.6	72.6	62.7	56.1	52.8
77.5°	2063.8	1400.1	145.3	75.9	69.3	69.3	62.7	52.8	49.5	42.9	42.9
80°	815.6	475.5	72.6	49.5	46.2	46.2	46.2	36.3	36.3	29.7	26.4
82.5°	224.5	99.1	36.3	29.7	29.7	29.7	26.4	23.1	23.1	19.8	19.8
85°	23.1	16.5	16.5	16.5	16.5	13.2	13.2	9.9	6.6	6.6	6.6
87.5°	9.9	9.9	9.9	9.9	9.9	6.6	3.3	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)