

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: P841883

Luminaire Tested: **ARCH4-240-730-U-T2R-HSS**

Issue Date: 5/27/2024

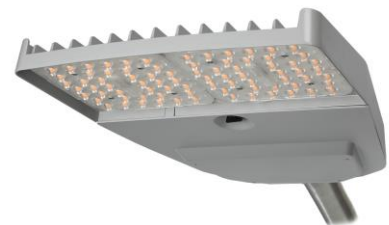
Test Information

Test Method: LM-79-08
Report Number: P841883
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: ARCH4-240-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA 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: 24847 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 240.2
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



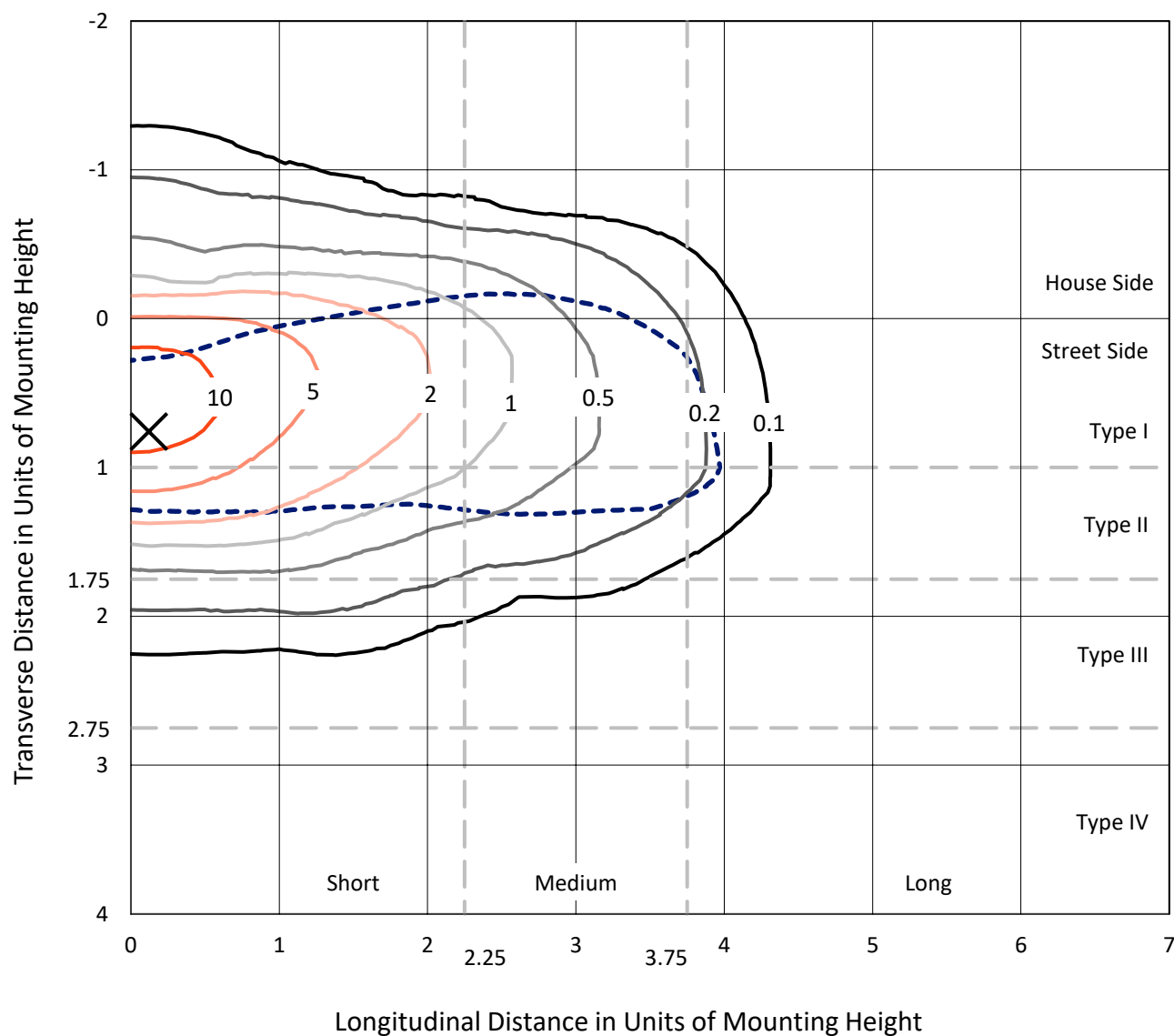
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

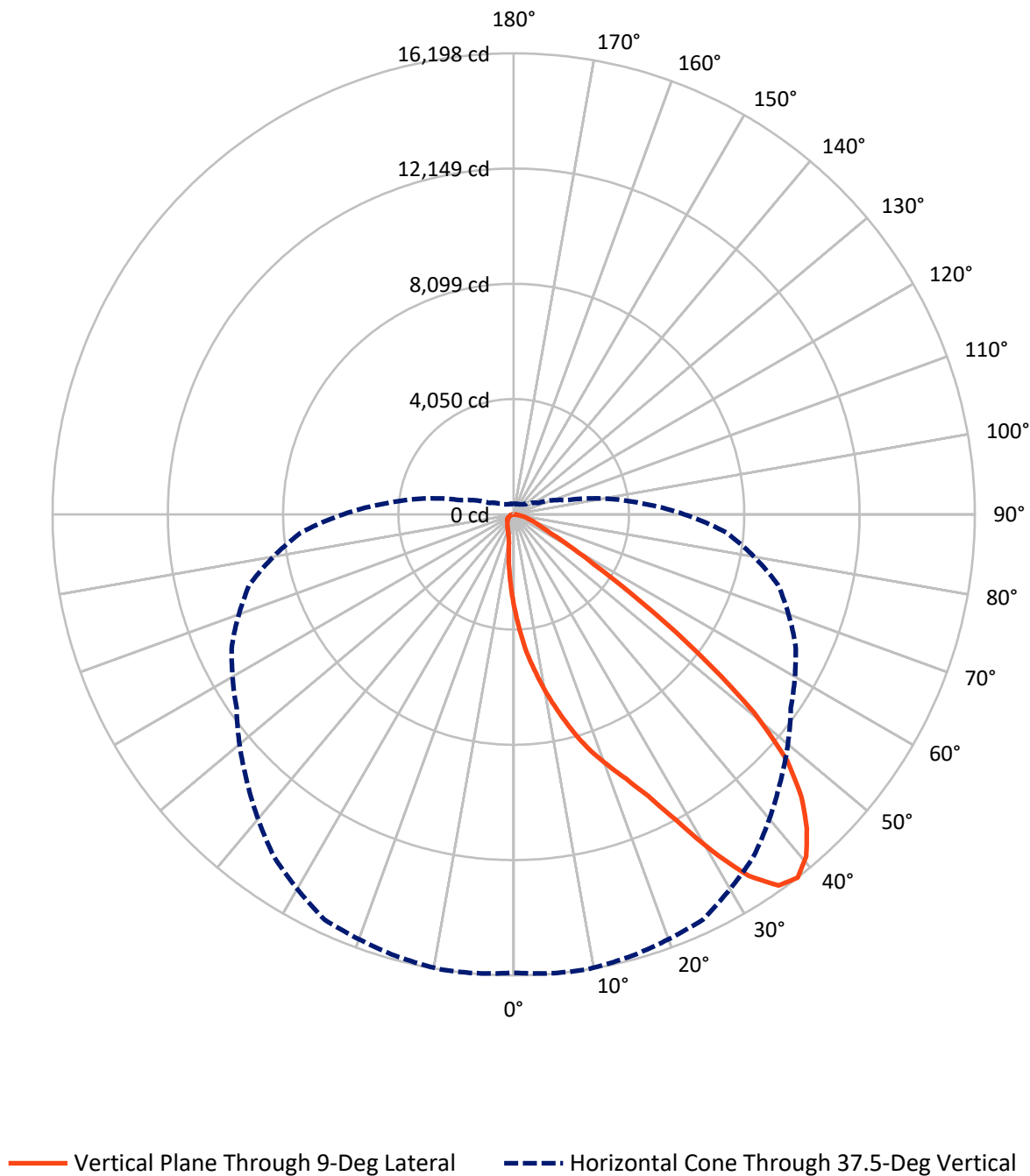


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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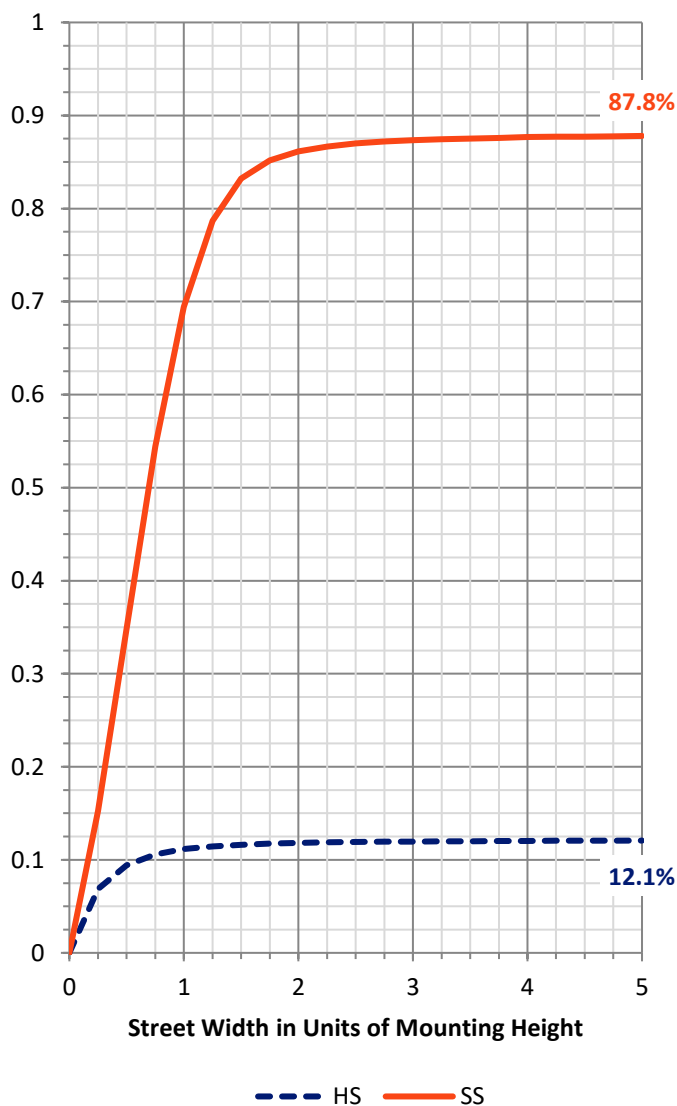
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3021.8	0.0	3021.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21825.1	0.0	21825.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	24847.0	0.0	24847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.3
10°-20°	1147.5	4.6
20°-30°	2357.8	9.5
30°-40°	4167.5	16.8
40°-50°	5536.2	22.3
50°-60°	5250.7	21.1
60°-70°	4005.8	16.1
70°-80°	1942.0	7.8
80°-90°	109.3	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°	24847.0	100.0
0°-180°	24847.0	100.0

Coefficient of Utilization



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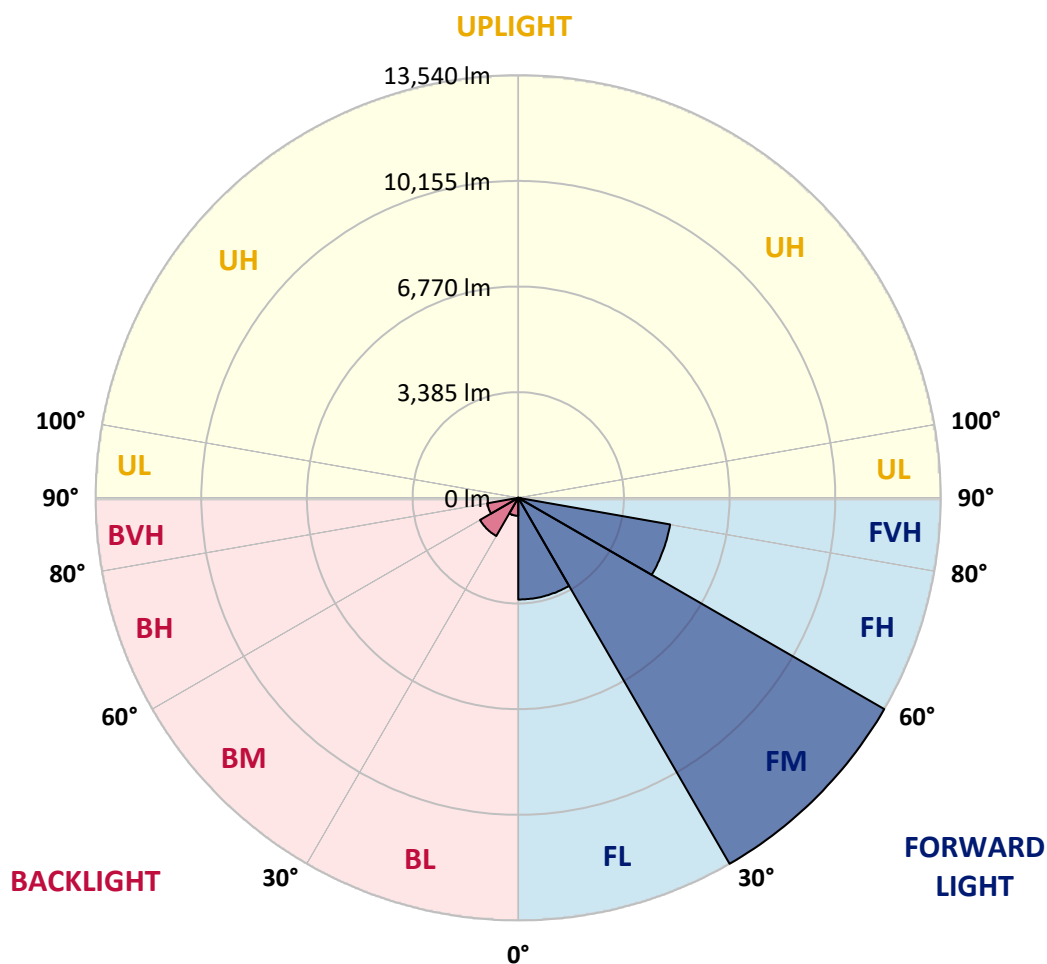
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3258.7	13.1			
FM	(30°-60°)	13540.4	54.5			
FH	(60°-80°)	4939.5	19.9			G2/5000
FVH	(80°-90°)	86.6	0.3			G1/100
BL	(0°-30°)	576.7	2.3	B2/1000		
BM	(30°-60°)	1414.0	5.7	B2/2500		
BH	(60°-80°)	1008.4	4.1	B3/2500		G3/2500
BVH	(80°-90°)	22.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	4069.9	3998.5	4080.1	4069.9	3998.5	3952.6	3809.8	3763.9	3595.6	3473.2	3366.1
5°	4906.3	4834.9	4906.3	4885.9	4783.9	4671.7	4437.1	4284.1	3983.2	3718.0	3478.3
7.5°	5599.9	5599.9	5630.5	5635.6	5513.2	5339.8	5049.1	4819.6	4396.3	3988.3	3605.8
10°	6349.6	6354.7	6421.0	6375.1	6211.9	5977.3	5610.1	5319.4	4809.4	4273.9	3728.2
12.5°	7150.4	7155.5	7175.9	7155.5	6961.7	6660.7	6217.0	5834.5	5248.0	4600.3	3896.5
15°	7951.1	7956.2	7981.7	7946.0	7731.8	7379.9	6875.0	6405.7	5712.1	4967.5	4100.5
17.5°	8700.8	8711.0	8731.4	8685.5	8461.1	8042.9	7527.8	6961.7	6206.8	5360.2	4330.0
20°	9374.0	9384.2	9399.5	9338.3	9113.9	8695.7	8139.8	7548.2	6711.7	5763.1	4579.9
22.5°	10052.3	10062.5	10088.0	10006.4	9756.5	9277.1	8731.4	8119.4	7247.3	6206.8	4870.6
25°	10919.3	10929.5	10949.9	10832.6	10490.9	9929.9	9353.6	8726.3	7828.7	6706.6	5227.6
27.5°	12189.3	12179.1	12179.1	11964.9	11378.4	10649.0	9980.9	9343.4	8456.0	7242.2	5620.3
30°	13760.1	13734.6	13719.3	13428.6	12592.2	11460.0	10623.5	9919.7	9057.8	7808.3	6043.6
32.5°	15167.7	15167.7	15137.1	14831.1	13943.7	12551.4	11307.0	10480.7	9639.2	8379.5	6482.2
35°	15999.1	16034.8	16019.5	15789.9	15142.2	13724.4	12230.1	11153.9	10251.2	8976.2	7007.6
37.5°	16111.3	16182.7	16198.0	16060.3	15718.5	14683.2	13255.2	11883.3	10924.4	9618.8	7517.6
40°	15657.3	15810.4	15810.4	15789.9	15667.5	15137.1	14117.1	12729.9	11618.1	10286.9	8032.7
42.5°	14958.6	15116.7	15096.3	15172.8	15142.2	15030.0	14601.6	13520.4	12311.7	10975.4	8501.9
45°	14045.7	14208.9	14168.1	14305.8	14367.0	14489.4	14550.6	14071.2	12995.1	11725.2	9027.2
47.5°	12582.0	12857.4	12918.6	13163.4	13418.4	13800.9	14091.6	14270.1	13632.6	12531.0	9598.4
50°	10419.5	10807.1	10929.5	11444.7	12143.4	12933.9	13403.1	14025.3	14081.4	13357.2	10215.5
52.5°	7461.5	7910.3	8099.0	8945.6	10383.8	11760.9	12607.5	13484.7	14254.8	14147.7	10883.6
55°	4824.7	5207.2	5390.8	6186.4	8099.0	10261.4	11669.1	12786.0	14157.9	14871.9	11648.7
57.5°	2973.4	3192.7	3315.1	3998.5	5758.0	8338.7	10439.9	12143.4	13862.1	15499.2	12444.3
60°	2004.3	2131.8	2193.0	2514.4	3911.8	6232.3	8751.8	11470.2	13474.5	15922.6	13168.5
62.5°	1331.1	1371.9	1433.1	1632.0	2580.7	4375.9	6721.9	10266.5	13183.8	15948.1	13704.0
65°	1030.2	1050.6	1076.1	1162.8	1591.2	3060.1	4727.8	8318.3	12750.3	15407.4	13872.3
67.5°	810.9	831.3	861.9	907.8	1152.6	2075.7	3218.2	6094.6	11862.9	14560.8	13596.9
70°	637.5	652.8	673.2	714.0	897.6	1504.5	2126.7	4049.5	10072.7	13755.0	12729.9
72.5°	504.9	520.2	540.6	581.4	729.3	1101.6	1458.6	2524.6	7767.5	12770.7	11062.1
75°	397.8	408.0	423.3	464.1	586.5	856.8	989.4	1509.6	5278.6	10970.3	8619.2
77.5°	198.9	244.8	280.5	321.3	428.4	591.6	657.9	836.4	2228.7	5630.5	4110.7
80°	117.3	142.8	153.0	178.5	280.5	357.0	357.0	336.6	703.8	2162.4	1677.9
82.5°	66.3	91.8	96.9	102.0	168.3	204.0	163.2	122.4	142.8	724.2	489.6
85°	20.4	30.6	35.7	40.8	56.1	61.2	56.1	51.0	40.8	71.4	45.9
87.5°	0.0	0.0	0.0	0.0	5.1	10.2	10.2	10.2	15.3	15.3	15.3
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°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3304.9	3238.6	3111.1	2993.8	2881.6	2800.0	2723.5	2652.1	2601.1	2560.3	2555.2
5°	3350.8	3218.2	2973.4	2743.9	2534.8	2361.4	2213.4	2096.1	2009.4	1948.2	1943.1
7.5°	3412.0	3208.0	2835.7	2494.0	2182.8	1932.9	1718.7	1560.6	1448.4	1402.5	1366.8
10°	3463.0	3197.8	2698.0	2244.0	1836.0	1519.8	1264.8	1106.7	1025.1	994.5	979.2
12.5°	3549.7	3208.0	2580.7	2014.5	1535.1	1162.8	969.0	882.3	846.6	821.1	816.0
15°	3677.2	3253.9	2468.5	1790.1	1229.1	938.4	826.2	770.1	734.4	729.3	724.2
17.5°	3804.7	3294.7	2366.5	1560.6	1020.0	816.0	739.5	693.6	668.1	663.0	663.0
20°	3952.6	3345.7	2254.2	1341.3	872.1	734.4	673.2	637.5	606.9	601.8	601.8
22.5°	4126.0	3417.1	2147.1	1147.5	775.2	673.2	622.2	581.4	555.9	550.8	550.8
25°	4360.6	3524.2	2060.4	1004.7	708.9	622.2	576.3	540.6	520.2	510.0	510.0
27.5°	4620.7	3672.1	1999.2	918.0	663.0	581.4	535.5	504.9	484.5	474.3	474.3
30°	4911.4	3835.3	1958.4	882.3	637.5	545.7	504.9	474.3	448.8	443.7	443.7
32.5°	5232.7	4024.0	1932.9	887.4	632.4	520.2	474.3	443.7	423.3	413.1	413.1
35°	5589.7	4233.1	1917.6	918.0	642.6	499.8	448.8	418.2	397.8	387.6	387.6
37.5°	5987.5	4477.9	1917.6	948.6	668.1	494.7	423.3	392.7	377.4	367.2	367.2
40°	6359.8	4738.0	1938.0	984.3	693.6	494.7	402.9	377.4	357.0	346.8	346.8
42.5°	6650.5	4885.9	1953.3	1020.0	708.9	489.6	382.5	357.0	341.7	331.5	331.5
45°	6982.1	5044.0	1922.7	1035.3	708.9	479.4	367.2	341.7	326.4	316.2	316.2
47.5°	7349.3	5237.8	1917.6	1045.5	693.6	459.0	351.9	326.4	316.2	306.0	306.0
50°	7721.6	5452.0	1927.8	1040.4	673.2	428.4	331.5	316.2	300.9	290.7	290.7
52.5°	8144.9	5676.4	1948.2	1030.2	627.3	392.7	316.2	300.9	285.6	275.4	270.3
55°	8614.1	5921.2	1989.0	1009.8	566.1	357.0	300.9	285.6	265.2	255.0	249.9
57.5°	9154.7	6222.1	2034.9	969.0	499.8	326.4	285.6	265.2	234.6	219.3	214.2
60°	9669.8	6563.8	2085.9	872.1	433.5	295.8	270.3	239.7	209.1	198.9	193.8
62.5°	10154.3	6900.5	2111.4	698.7	367.2	270.3	255.0	219.3	188.7	178.5	173.4
65°	10465.4	7267.7	2055.3	474.3	300.9	249.9	234.6	204.0	173.4	158.1	158.1
67.5°	10485.8	7441.1	1861.5	311.1	244.8	224.4	214.2	183.6	153.0	142.8	137.7
70°	9970.7	7181.0	1422.9	244.8	204.0	193.8	193.8	163.2	132.6	122.4	117.3
72.5°	8787.5	6359.8	907.8	198.9	173.4	163.2	163.2	137.7	117.3	102.0	96.9
75°	6936.2	4906.3	484.5	163.2	142.8	137.7	127.5	112.2	96.9	86.7	81.6
77.5°	3187.6	2162.4	224.4	117.3	107.1	107.1	96.9	81.6	76.5	66.3	66.3
80°	1259.7	734.4	112.2	76.5	71.4	71.4	71.4	56.1	56.1	45.9	40.8
82.5°	346.8	153.0	56.1	45.9	45.9	45.9	40.8	35.7	35.7	30.6	30.6
85°	35.7	25.5	25.5	25.5	25.5	20.4	20.4	15.3	10.2	10.2	10.2
87.5°	15.3	15.3	15.3	15.3	15.3	10.2	5.1	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)