

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: P842081

Luminaire Tested: **ARCH4-270-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842081
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: ARCH4-270-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA 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: 23390 lumens
Efficiency: N/A
Efficacy: 87.0 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): 269
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



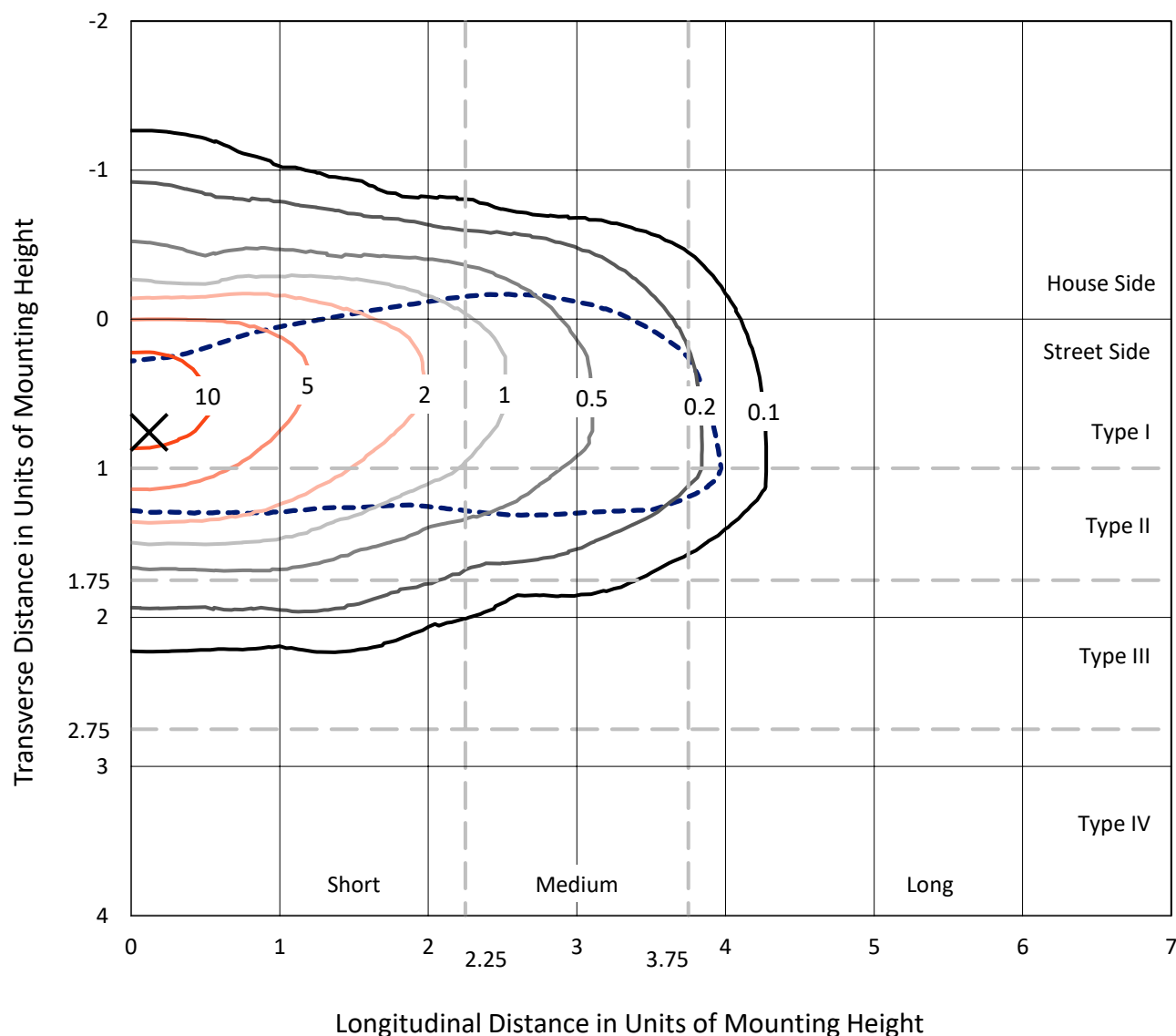
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

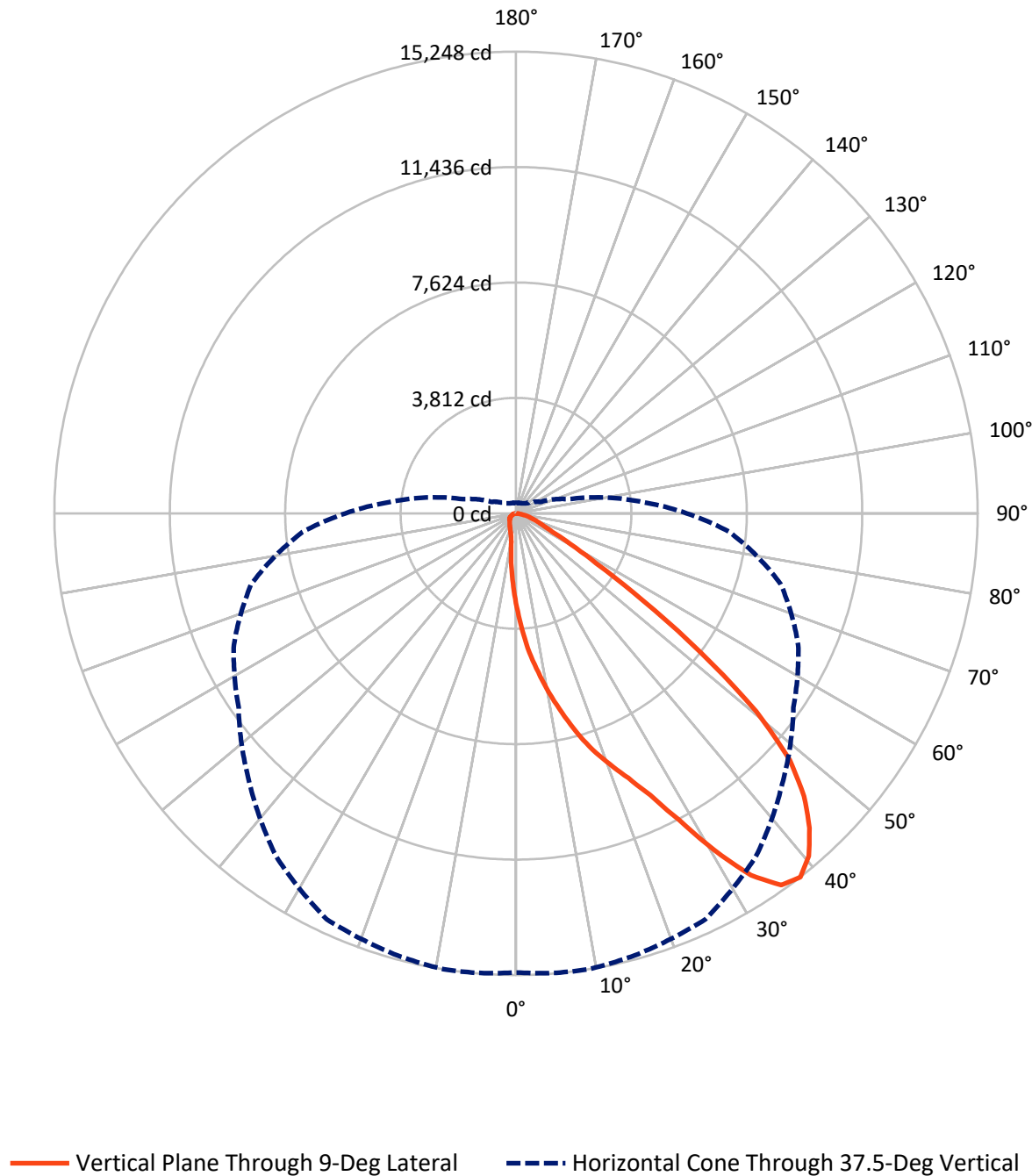


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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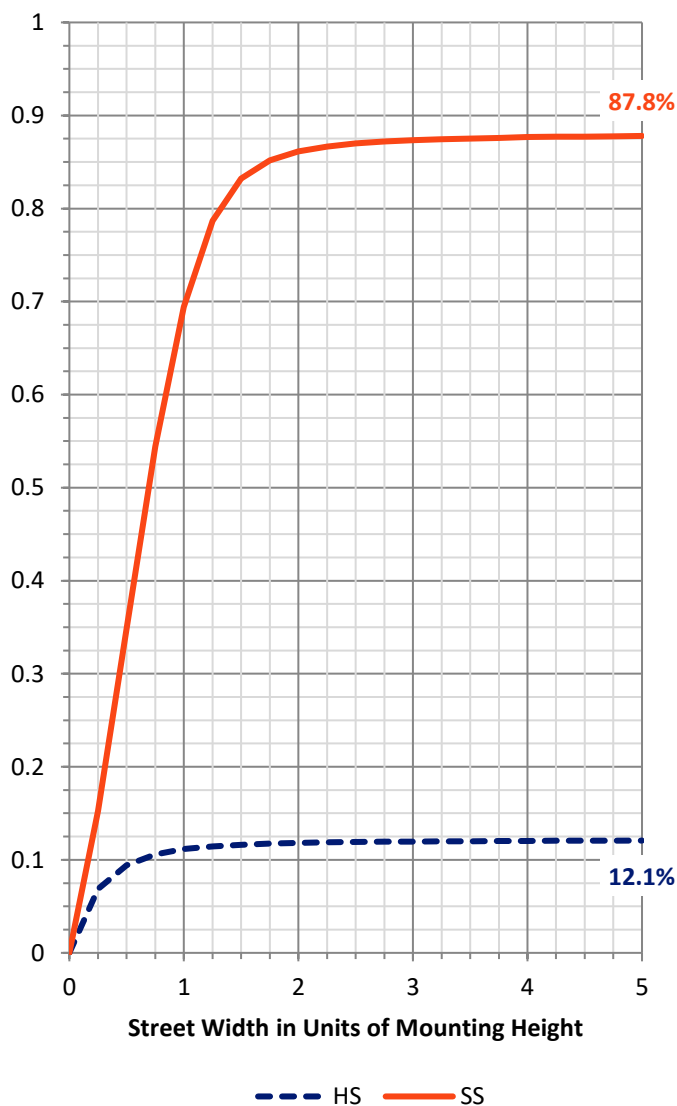
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2844.6	0.0	2844.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20545.3	0.0	20545.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	23390.0	0.0	23390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	1.3
10°-20°	1080.2	4.6
20°-30°	2219.5	9.5
30°-40°	3923.1	16.8
40°-50°	5211.6	22.3
50°-60°	4942.8	21.1
60°-70°	3771.0	16.1
70°-80°	1828.1	7.8
80°-90°	102.9	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°	23390.0	100.0
0°-180°	23390.0	100.0

Coefficient of Utilization



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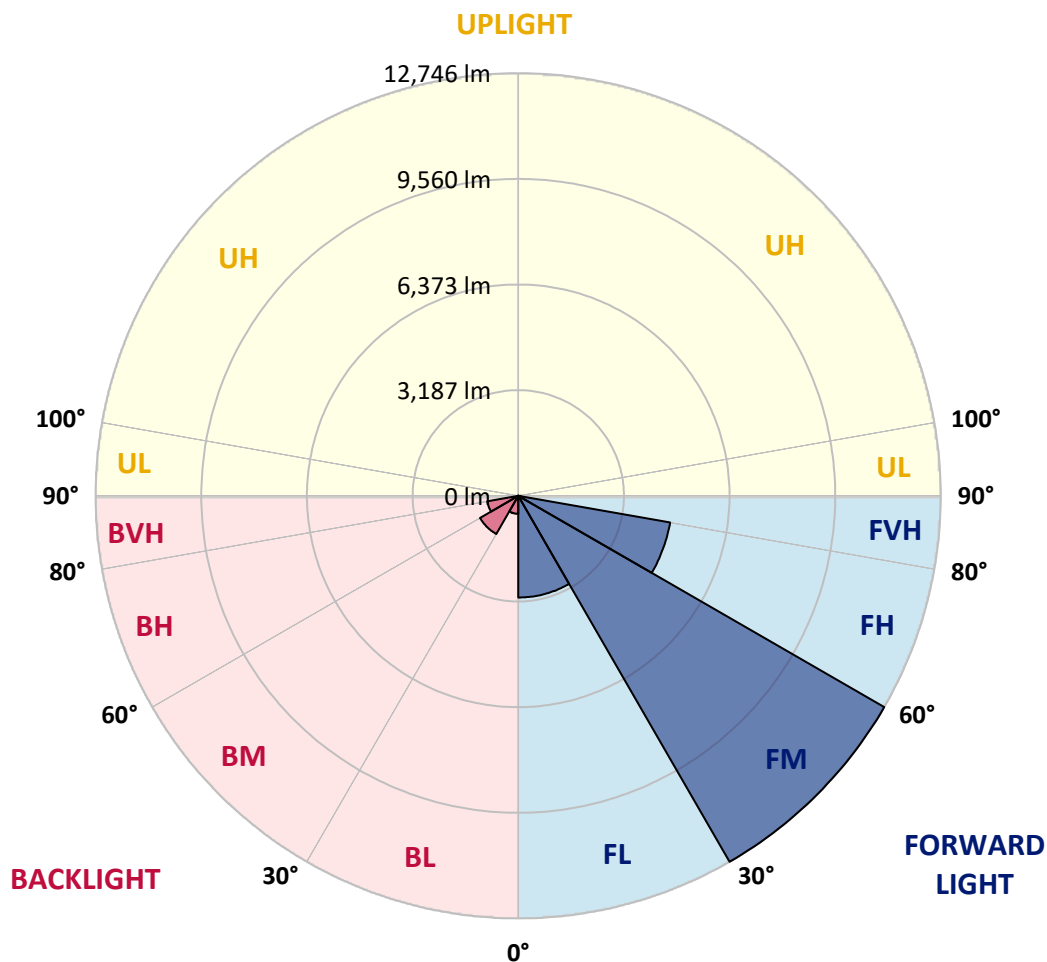
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3067.6	13.1			
FM	(30°-60°)	12746.4	54.5			
FH	(60°-80°)	4649.9	19.9			G2/5000
FVH	(80°-90°)	81.5	0.3			G1/100
BL	(0°-30°)	542.9	2.3	B2/1000		
BM	(30°-60°)	1331.1	5.7	B2/2500		
BH	(60°-80°)	949.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	21.4	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°	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9
2.5°	3831.2	3764.0	3840.8	3831.2	3764.0	3720.8	3586.4	3543.2	3384.7	3269.5	3168.7
5°	4618.6	4551.4	4618.6	4599.4	4503.4	4397.8	4176.9	4032.9	3749.6	3500.0	3274.3
7.5°	5271.6	5271.6	5300.4	5305.2	5189.9	5026.7	4753.0	4537.0	4138.5	3754.4	3394.3
10°	5977.3	5982.1	6044.5	6001.3	5847.7	5626.8	5281.2	5007.5	4527.4	4023.3	3509.6
12.5°	6731.1	6735.9	6755.1	6735.9	6553.4	6270.2	5852.5	5492.4	4940.3	4330.5	3668.0
15°	7484.8	7489.6	7513.6	7480.0	7278.4	6947.1	6471.8	6030.1	5377.2	4676.2	3860.0
17.5°	8190.6	8200.2	8219.4	8176.2	7964.9	7571.3	7086.3	6553.4	5842.9	5045.9	4076.1
20°	8824.3	8833.9	8848.3	8790.7	8579.5	8185.8	7662.5	7105.6	6318.2	5425.2	4311.3
22.5°	9462.9	9472.5	9496.5	9419.7	9184.4	8733.1	8219.4	7643.3	6822.3	5842.9	4585.0
25°	10279.0	10288.6	10307.9	10197.4	9875.8	9347.6	8805.1	8214.6	7369.6	6313.4	4921.1
27.5°	11474.5	11464.9	11464.9	11263.3	10711.1	10024.6	9395.7	8795.5	7960.1	6817.5	5290.8
30°	12953.2	12929.2	12914.8	12641.2	11853.8	10788.0	10000.6	9338.0	8526.7	7350.4	5689.2
32.5°	14278.3	14278.3	14249.5	13961.4	13126.1	11815.4	10643.9	9866.2	9074.0	7888.1	6102.1
35°	15060.9	15094.5	15080.1	14864.0	14254.3	12919.6	11512.9	10499.9	9650.1	8449.8	6596.6
37.5°	15166.5	15233.7	15248.1	15118.5	14796.8	13822.2	12477.9	11186.4	10283.8	9054.8	7076.7
40°	14739.2	14883.2	14883.2	14864.0	14748.8	14249.5	13289.3	11983.4	10936.8	9683.7	7561.7
42.5°	14081.5	14230.3	14211.1	14283.1	14254.3	14148.7	13745.4	12727.6	11589.7	10331.9	8003.3
45°	13222.1	13375.7	13337.3	13466.9	13524.6	13639.8	13697.4	13246.1	12233.1	11037.6	8497.9
47.5°	11844.2	12103.4	12161.1	12391.5	12631.6	12991.6	13265.3	13433.3	12833.2	11796.2	9035.6
50°	9808.5	10173.4	10288.6	10773.6	11431.3	12175.5	12617.2	13202.9	13255.7	12573.9	9616.5
52.5°	7023.9	7446.4	7624.1	8421.0	9774.9	11071.2	11868.2	12694.0	13418.9	13318.1	10245.4
55°	4541.8	4901.9	5074.7	5823.7	7624.1	9659.7	10984.8	12036.2	13327.7	13999.9	10965.6
57.5°	2799.0	3005.5	3120.7	3764.0	5420.4	7849.7	9827.7	11431.3	13049.2	14590.4	11714.6
60°	1886.8	2006.8	2064.5	2366.9	3682.4	5866.9	8238.6	10797.6	12684.4	14988.9	12396.3
62.5°	1253.1	1291.5	1349.1	1536.3	2429.3	4119.3	6327.8	9664.5	12410.7	15012.9	12900.4
65°	969.8	989.0	1013.0	1094.6	1497.9	2880.6	4450.6	7830.5	12002.6	14504.0	13058.9
67.5°	763.4	782.6	811.4	854.6	1085.0	1954.0	3029.5	5737.3	11167.2	13707.0	12799.6
70°	600.1	614.5	633.7	672.1	845.0	1416.3	2002.0	3812.0	9482.1	12948.4	11983.4
72.5°	475.3	489.7	508.9	547.3	686.5	1037.0	1373.1	2376.5	7312.0	12021.8	10413.5
75°	374.5	384.1	398.5	436.9	552.1	806.6	931.4	1421.1	4969.1	10327.1	8113.8
77.5°	187.2	230.5	264.1	302.5	403.3	556.9	619.3	787.4	2098.1	5300.4	3869.6
80°	110.4	134.4	144.0	168.0	264.1	336.1	336.1	316.9	662.5	2035.6	1579.5
82.5°	62.4	86.4	91.2	96.0	158.4	192.0	153.6	115.2	134.4	681.7	460.9
85°	19.2	28.8	33.6	38.4	52.8	57.6	52.8	48.0	38.4	67.2	43.2
87.5°	0.0	0.0	0.0	0.0	4.8	9.6	9.6	9.6	14.4	14.4	14.4
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°	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9
2.5°	3111.1	3048.7	2928.6	2818.2	2712.6	2635.8	2563.8	2496.5	2448.5	2410.1	2405.3
5°	3154.3	3029.5	2799.0	2583.0	2386.1	2222.9	2083.7	1973.2	1891.6	1834.0	1829.2
7.5°	3211.9	3019.9	2669.4	2347.7	2054.8	1819.6	1618.0	1469.1	1363.5	1320.3	1286.7
10°	3259.9	3010.3	2539.8	2112.5	1728.4	1430.7	1190.7	1041.8	965.0	936.2	921.8
12.5°	3341.5	3019.9	2429.3	1896.4	1445.1	1094.6	912.2	830.6	797.0	773.0	768.2
15°	3461.6	3063.1	2323.7	1685.2	1157.1	883.4	777.8	725.0	691.4	686.5	681.7
17.5°	3581.6	3101.5	2227.7	1469.1	960.2	768.2	696.2	652.9	628.9	624.1	624.1
20°	3720.8	3149.5	2122.1	1262.7	821.0	691.4	633.7	600.1	571.3	566.5	566.5
22.5°	3884.0	3216.7	2021.2	1080.2	729.8	633.7	585.7	547.3	523.3	518.5	518.5
25°	4104.9	3317.5	1939.6	945.8	667.3	585.7	542.5	508.9	489.7	480.1	480.1
27.5°	4349.7	3456.8	1882.0	864.2	624.1	547.3	504.1	475.3	456.1	446.5	446.5
30°	4623.4	3610.4	1843.6	830.6	600.1	513.7	475.3	446.5	422.5	417.7	417.7
32.5°	4925.9	3788.0	1819.6	835.4	595.3	489.7	446.5	417.7	398.5	388.9	388.9
35°	5261.9	3984.9	1805.2	864.2	604.9	470.5	422.5	393.7	374.5	364.9	364.9
37.5°	5636.4	4215.3	1805.2	893.0	628.9	465.7	398.5	369.7	355.3	345.7	345.7
40°	5986.9	4460.2	1824.4	926.6	652.9	465.7	379.3	355.3	336.1	326.5	326.5
42.5°	6260.6	4599.4	1838.8	960.2	667.3	460.9	360.1	336.1	321.7	312.1	312.1
45°	6572.6	4748.2	1810.0	974.6	667.3	451.3	345.7	321.7	307.3	297.7	297.7
47.5°	6918.3	4930.7	1805.2	984.2	652.9	432.1	331.3	307.3	297.7	288.1	288.1
50°	7268.8	5132.3	1814.8	979.4	633.7	403.3	312.1	297.7	283.3	273.7	273.7
52.5°	7667.3	5343.6	1834.0	969.8	590.5	369.7	297.7	283.3	268.9	259.3	254.5
55°	8109.0	5574.0	1872.4	950.6	532.9	336.1	283.3	268.9	249.7	240.1	235.3
57.5°	8617.9	5857.3	1915.6	912.2	470.5	307.3	268.9	249.7	220.8	206.4	201.6
60°	9102.8	6178.9	1963.6	821.0	408.1	278.5	254.5	225.6	196.8	187.2	182.4
62.5°	9558.9	6495.8	1987.6	657.7	345.7	254.5	240.1	206.4	177.6	168.0	163.2
65°	9851.8	6841.5	1934.8	446.5	283.3	235.3	220.8	192.0	163.2	148.8	148.8
67.5°	9871.0	7004.7	1752.4	292.9	230.5	211.2	201.6	172.8	144.0	134.4	129.6
70°	9386.0	6759.9	1339.5	230.5	192.0	182.4	182.4	153.6	124.8	115.2	110.4
72.5°	8272.2	5986.9	854.6	187.2	163.2	153.6	153.6	129.6	110.4	96.0	91.2
75°	6529.4	4618.6	456.1	153.6	134.4	129.6	120.0	105.6	91.2	81.6	76.8
77.5°	3000.7	2035.6	211.2	110.4	100.8	100.8	91.2	76.8	72.0	62.4	62.4
80°	1185.9	691.4	105.6	72.0	67.2	67.2	67.2	52.8	52.8	43.2	38.4
82.5°	326.5	144.0	52.8	43.2	43.2	43.2	38.4	33.6	33.6	28.8	28.8
85°	33.6	24.0	24.0	24.0	24.0	19.2	19.2	14.4	9.6	9.6	9.6
87.5°	14.4	14.4	14.4	14.4	14.4	9.6	4.8	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)