

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: P836675

Luminaire Tested: **ARCH3-60-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7065 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

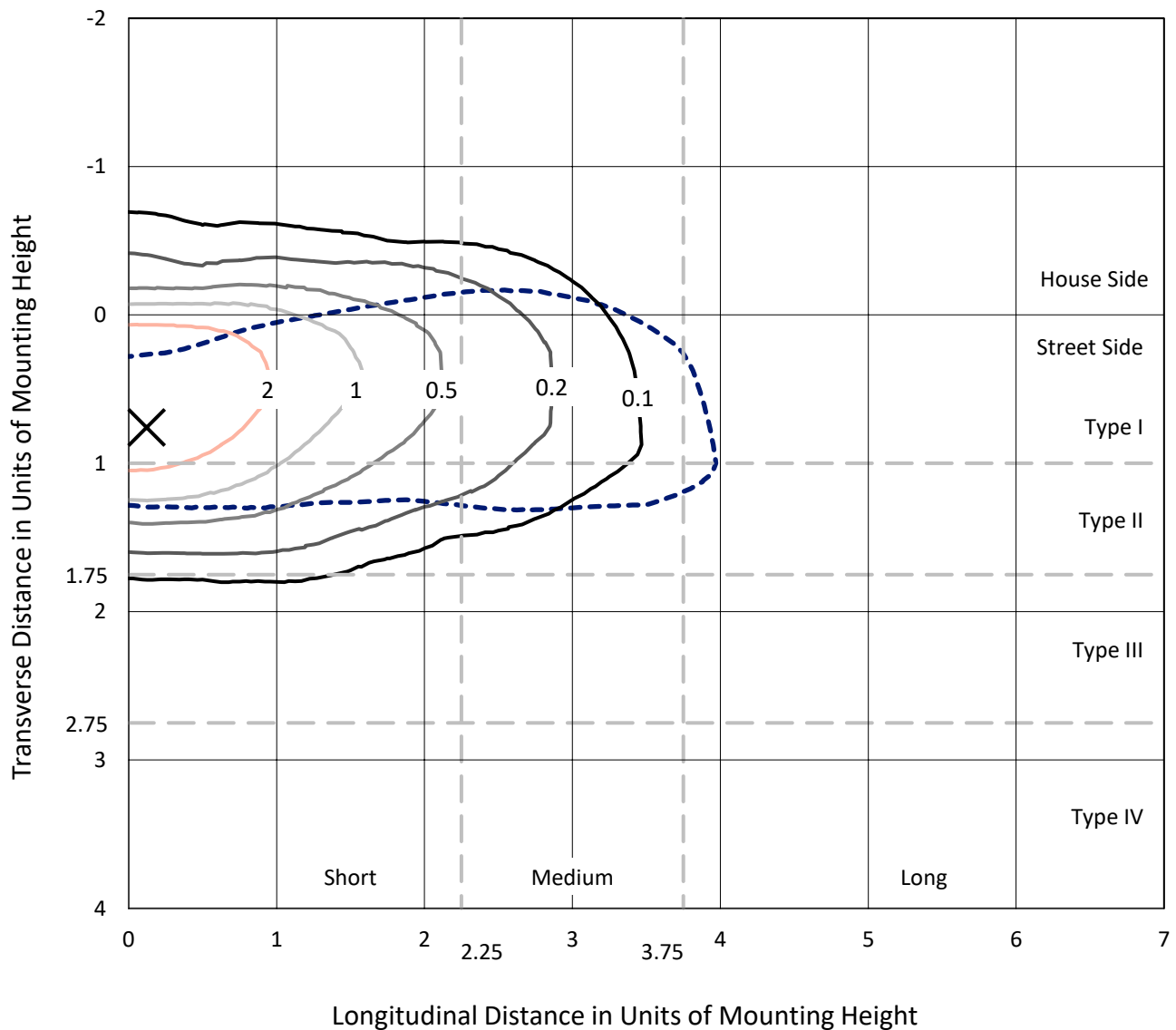


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Iso-Footcandle Lines of Horizontal Illumination

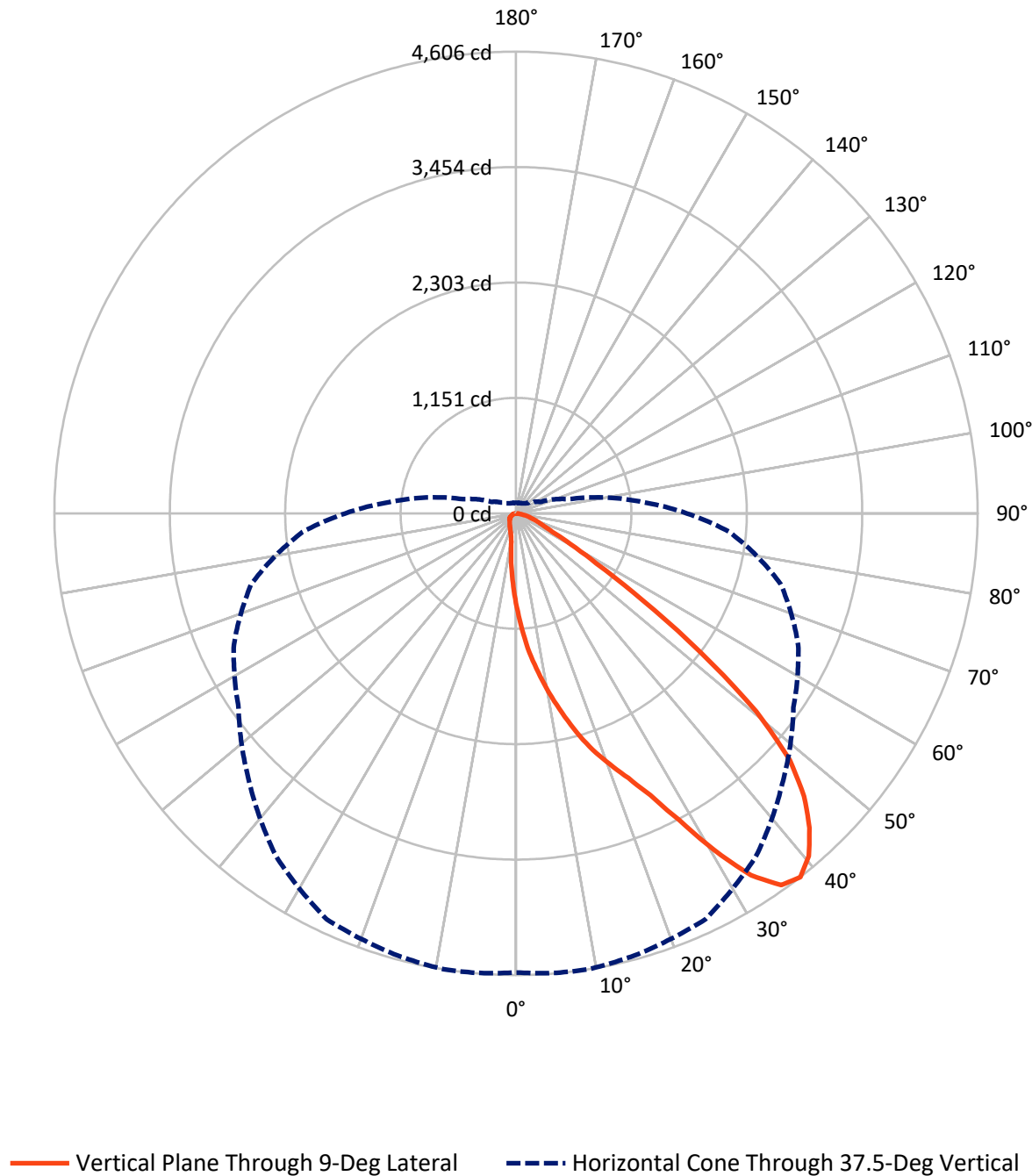
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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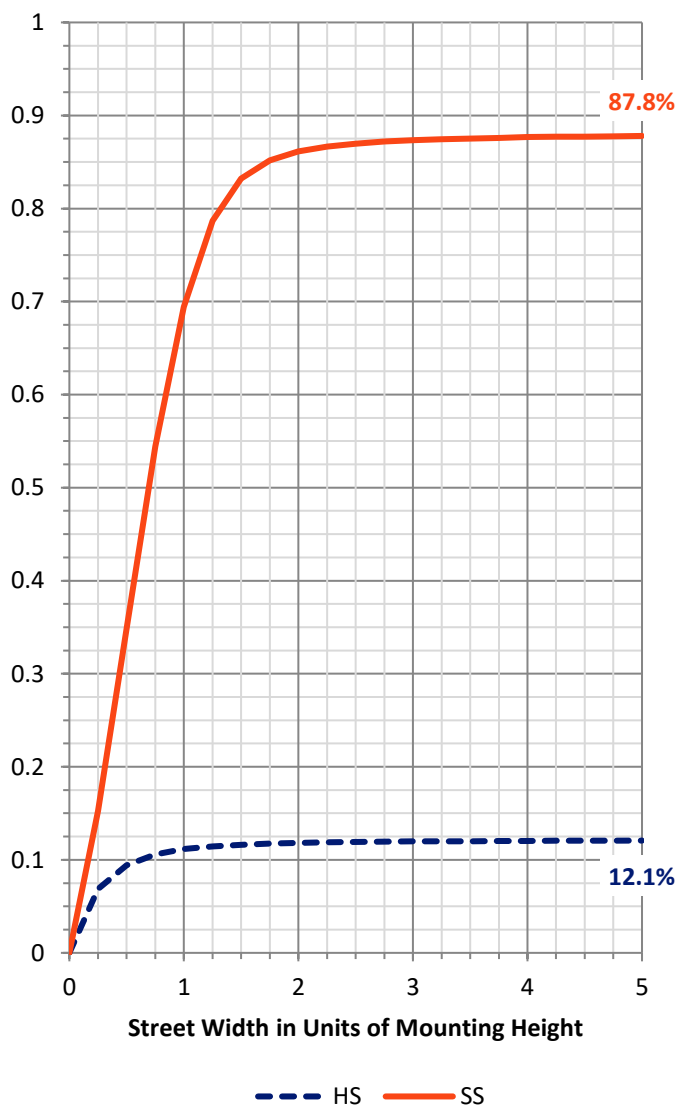
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	859.3	0.0	859.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6205.8	0.0	6205.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	7065.0	0.0	7065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	1.3
10°-20°	326.3	4.6
20°-30°	670.4	9.5
30°-40°	1185.0	16.8
40°-50°	1574.2	22.3
50°-60°	1493.0	21.1
60°-70°	1139.0	16.1
70°-80°	552.2	7.8
80°-90°	31.1	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°	7065.0	100.0
0°-180°	7065.0	100.0

Coefficient of Utilization



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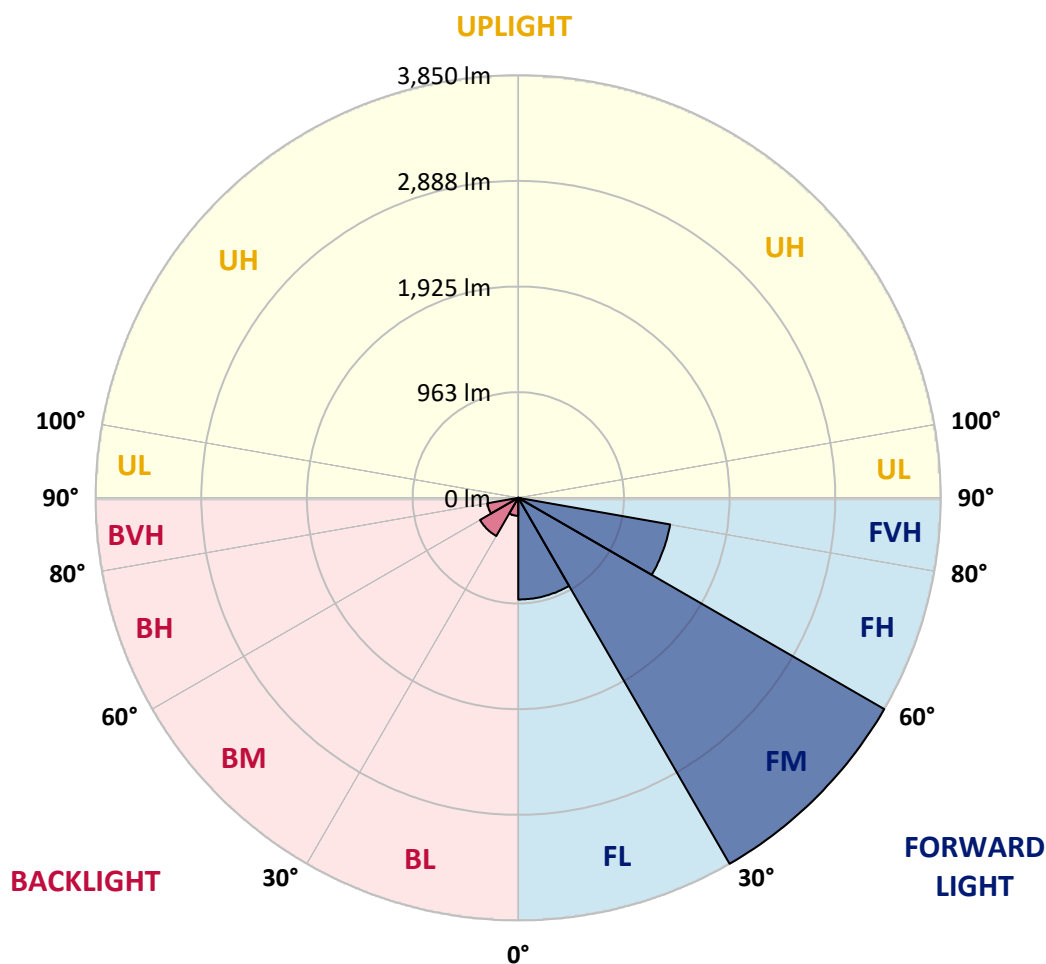
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	926.6	13.1			
FM	(30°-60°)	3850.1	54.5			
FH	(60°-80°)	1404.5	19.9			G1/1800
FVH	(80°-90°)	24.6	0.3			G1/100
BL	(0°-30°)	164.0	2.3	B1/500		
BM	(30°-60°)	402.1	5.7	B1/1000		
BH	(60°-80°)	286.7	4.1	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	1157.2	1136.9	1160.1	1157.2	1136.9	1123.9	1083.3	1070.2	1022.4	987.6	957.1
5°	1395.1	1374.8	1395.1	1389.3	1360.3	1328.4	1261.6	1218.1	1132.6	1057.2	989.0
7.5°	1592.3	1592.3	1601.0	1602.4	1567.6	1518.3	1435.7	1370.4	1250.0	1134.0	1025.3
10°	1805.5	1806.9	1825.8	1812.7	1766.3	1699.6	1595.2	1512.5	1367.5	1215.2	1060.1
12.5°	2033.1	2034.6	2040.4	2034.6	1979.5	1893.9	1767.8	1659.0	1492.2	1308.1	1107.9
15°	2260.8	2262.3	2269.5	2259.4	2198.5	2098.4	1954.8	1821.4	1624.2	1412.5	1165.9
17.5°	2474.0	2476.9	2482.7	2469.6	2405.8	2286.9	2140.4	1979.5	1764.9	1524.1	1231.2
20°	2665.4	2668.3	2672.7	2655.3	2591.4	2472.5	2314.5	2146.2	1908.4	1638.7	1302.2
22.5°	2858.3	2861.2	2868.4	2845.2	2774.2	2637.9	2482.7	2308.7	2060.7	1764.9	1384.9
25°	3104.8	3107.7	3113.5	3080.2	2983.0	2823.5	2659.6	2481.2	2226.0	1907.0	1486.4
27.5°	3465.9	3463.0	3463.0	3402.1	3235.3	3027.9	2838.0	2656.7	2404.4	2059.2	1598.1
30°	3912.6	3905.3	3900.9	3818.3	3580.5	3258.5	3020.7	2820.6	2575.5	2220.2	1718.4
32.5°	4312.8	4312.8	4304.1	4217.1	3964.8	3568.9	3215.0	2980.1	2740.8	2382.6	1843.2
35°	4549.2	4559.3	4555.0	4489.7	4305.5	3902.4	3477.5	3171.5	2914.8	2552.3	1992.5
37.5°	4581.1	4601.4	4605.7	4566.6	4469.4	4175.0	3769.0	3378.9	3106.3	2735.0	2137.5
40°	4452.0	4495.5	4495.5	4489.7	4454.9	4304.1	4014.1	3619.6	3303.5	2925.0	2284.0
42.5°	4253.3	4298.3	4292.5	4314.2	4305.5	4273.6	4151.8	3844.4	3500.7	3120.8	2417.4
45°	3993.8	4040.2	4028.6	4067.7	4085.1	4119.9	4137.3	4001.0	3695.0	3333.9	2566.8
47.5°	3577.6	3655.9	3673.3	3742.9	3815.4	3924.2	4006.8	4057.6	3876.3	3563.1	2729.2
50°	2962.7	3072.9	3107.7	3254.2	3452.8	3677.6	3811.0	3988.0	4003.9	3798.0	2904.7
52.5°	2121.6	2249.2	2302.9	2543.6	2952.5	3344.1	3584.8	3834.2	4053.2	4022.8	3094.7
55°	1371.9	1480.6	1532.8	1759.1	2302.9	2917.7	3318.0	3635.6	4025.7	4228.7	3312.2
57.5°	845.4	907.8	942.6	1136.9	1637.2	2371.0	2968.5	3452.8	3941.6	4407.1	3538.4
60°	569.9	606.2	623.6	714.9	1112.3	1772.1	2488.5	3261.4	3831.3	4527.4	3744.3
62.5°	378.5	390.1	407.5	464.1	733.8	1244.2	1911.3	2919.2	3748.7	4534.7	3896.6
65°	292.9	298.7	306.0	330.6	452.5	870.1	1344.3	2365.2	3625.4	4381.0	3944.5
67.5°	230.6	236.4	245.1	258.1	327.7	590.2	915.1	1732.9	3373.1	4140.2	3866.1
70°	181.3	185.6	191.4	203.0	255.2	427.8	604.7	1151.4	2864.1	3911.1	3619.6
72.5°	143.6	147.9	153.7	165.3	207.4	313.2	414.7	717.8	2208.6	3631.2	3145.4
75°	113.1	116.0	120.4	132.0	166.8	243.6	281.3	429.2	1500.9	3119.3	2450.8
77.5°	56.6	69.6	79.8	91.4	121.8	168.2	187.1	237.8	633.7	1601.0	1168.8
80°	33.4	40.6	43.5	50.8	79.8	101.5	101.5	95.7	200.1	614.9	477.1
82.5°	18.9	26.1	27.6	29.0	47.9	58.0	46.4	34.8	40.6	205.9	139.2
85°	5.8	8.7	10.2	11.6	16.0	17.4	16.0	14.5	11.6	20.3	13.1
87.5°	0.0	0.0	0.0	0.0	1.5	2.9	2.9	2.9	4.4	4.4	4.4
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°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	939.7	920.9	884.6	851.2	819.3	796.1	774.4	754.1	739.6	728.0	726.5
5°	952.8	915.1	845.4	780.2	720.7	671.4	629.4	596.0	571.4	554.0	552.5
7.5°	970.2	912.2	806.3	709.1	620.7	549.6	488.7	443.8	411.8	398.8	388.6
10°	984.7	909.3	767.1	638.1	522.1	432.1	359.6	314.7	291.5	282.8	278.4
12.5°	1009.3	912.2	733.8	572.8	436.5	330.6	275.5	250.9	240.7	233.5	232.0
15°	1045.6	925.2	701.9	509.0	349.5	266.8	234.9	219.0	208.8	207.4	205.9
17.5°	1081.8	936.8	672.9	443.8	290.0	232.0	210.3	197.2	190.0	188.5	188.5
20°	1123.9	951.3	641.0	381.4	248.0	208.8	191.4	181.3	172.6	171.1	171.1
22.5°	1173.2	971.6	610.5	326.3	220.4	191.4	176.9	165.3	158.1	156.6	156.6
25°	1239.9	1002.1	585.9	285.7	201.6	176.9	163.9	153.7	147.9	145.0	145.0
27.5°	1313.9	1044.1	568.5	261.0	188.5	165.3	152.3	143.6	137.8	134.9	134.9
30°	1396.5	1090.5	556.9	250.9	181.3	155.2	143.6	134.9	127.6	126.2	126.2
32.5°	1487.9	1144.2	549.6	252.3	179.8	147.9	134.9	126.2	120.4	117.5	117.5
35°	1589.4	1203.6	545.3	261.0	182.7	142.1	127.6	118.9	113.1	110.2	110.2
37.5°	1702.5	1273.2	545.3	269.7	190.0	140.7	120.4	111.7	107.3	104.4	104.4
40°	1808.4	1347.2	551.1	279.9	197.2	140.7	114.6	107.3	101.5	98.6	98.6
42.5°	1891.0	1389.3	555.4	290.0	201.6	139.2	108.8	101.5	97.2	94.3	94.3
45°	1985.3	1434.2	546.7	294.4	201.6	136.3	104.4	97.2	92.8	89.9	89.9
47.5°	2089.7	1489.3	545.3	297.3	197.2	130.5	100.1	92.8	89.9	87.0	87.0
50°	2195.6	1550.2	548.2	295.8	191.4	121.8	94.3	89.9	85.6	82.7	82.7
52.5°	2315.9	1614.0	554.0	292.9	178.4	111.7	89.9	85.6	81.2	78.3	76.9
55°	2449.3	1683.6	565.6	287.1	161.0	101.5	85.6	81.2	75.4	72.5	71.1
57.5°	2603.0	1769.2	578.6	275.5	142.1	92.8	81.2	75.4	66.7	62.4	60.9
60°	2749.5	1866.4	593.1	248.0	123.3	84.1	76.9	68.2	59.5	56.6	55.1
62.5°	2887.3	1962.1	600.4	198.7	104.4	76.9	72.5	62.4	53.7	50.8	49.3
65°	2975.7	2066.5	584.4	134.9	85.6	71.1	66.7	58.0	49.3	45.0	45.0
67.5°	2981.5	2115.8	529.3	88.5	69.6	63.8	60.9	52.2	43.5	40.6	39.2
70°	2835.1	2041.8	404.6	69.6	58.0	55.1	55.1	46.4	37.7	34.8	33.4
72.5°	2498.6	1808.4	258.1	56.6	49.3	46.4	46.4	39.2	33.4	29.0	27.6
75°	1972.2	1395.1	137.8	46.4	40.6	39.2	36.3	31.9	27.6	24.7	23.2
77.5°	906.4	614.9	63.8	33.4	30.5	30.5	27.6	23.2	21.8	18.9	18.9
80°	358.2	208.8	31.9	21.8	20.3	20.3	20.3	16.0	16.0	13.1	11.6
82.5°	98.6	43.5	16.0	13.1	13.1	13.1	11.6	10.2	10.2	8.7	8.7
85°	10.2	7.3	7.3	7.3	7.3	5.8	5.8	4.4	2.9	2.9	2.9
87.5°	4.4	4.4	4.4	4.4	4.4	2.9	1.5	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)