

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: P1210264

Luminaire Tested: **ARCH2-70-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

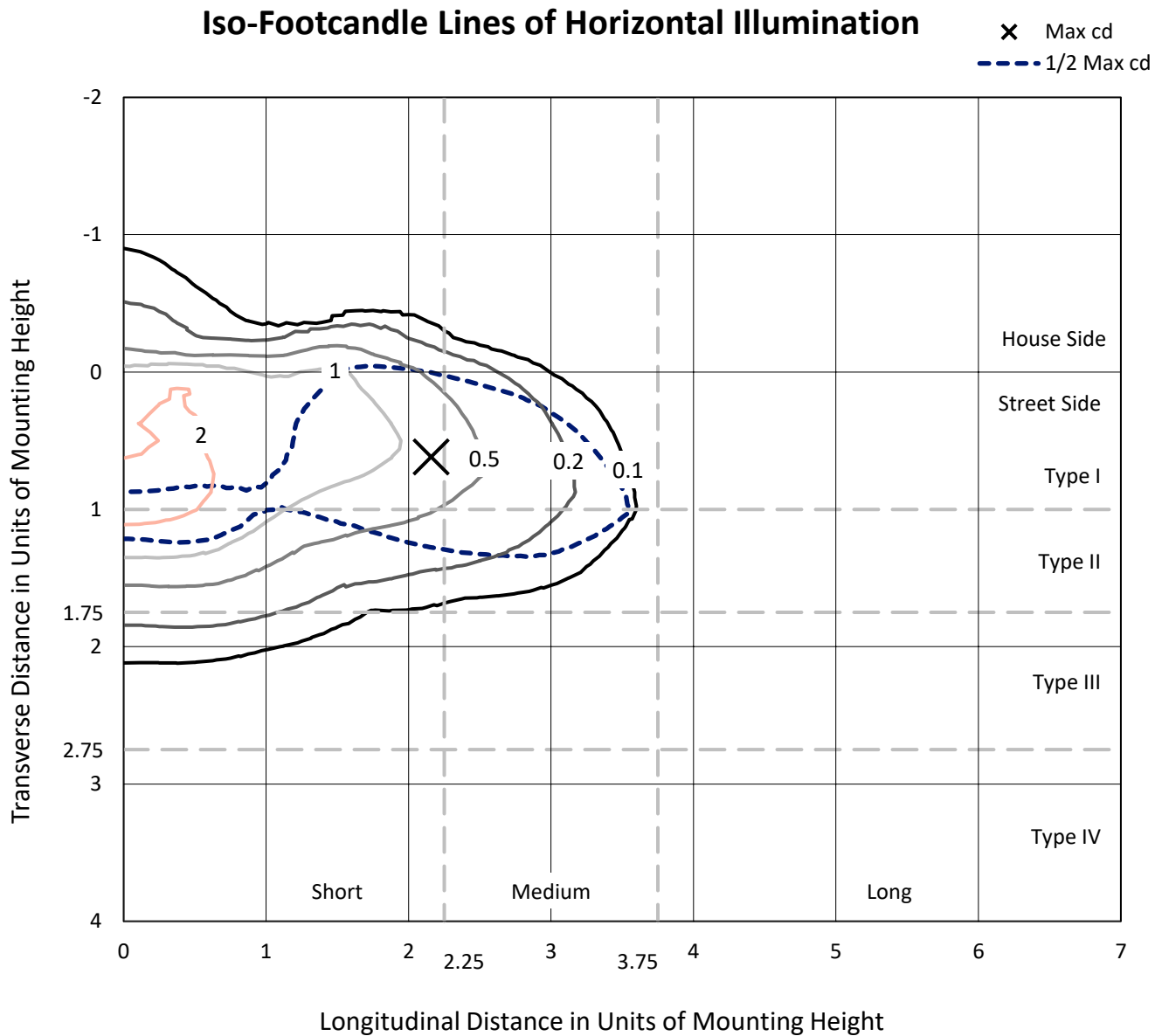
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7032 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.6
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



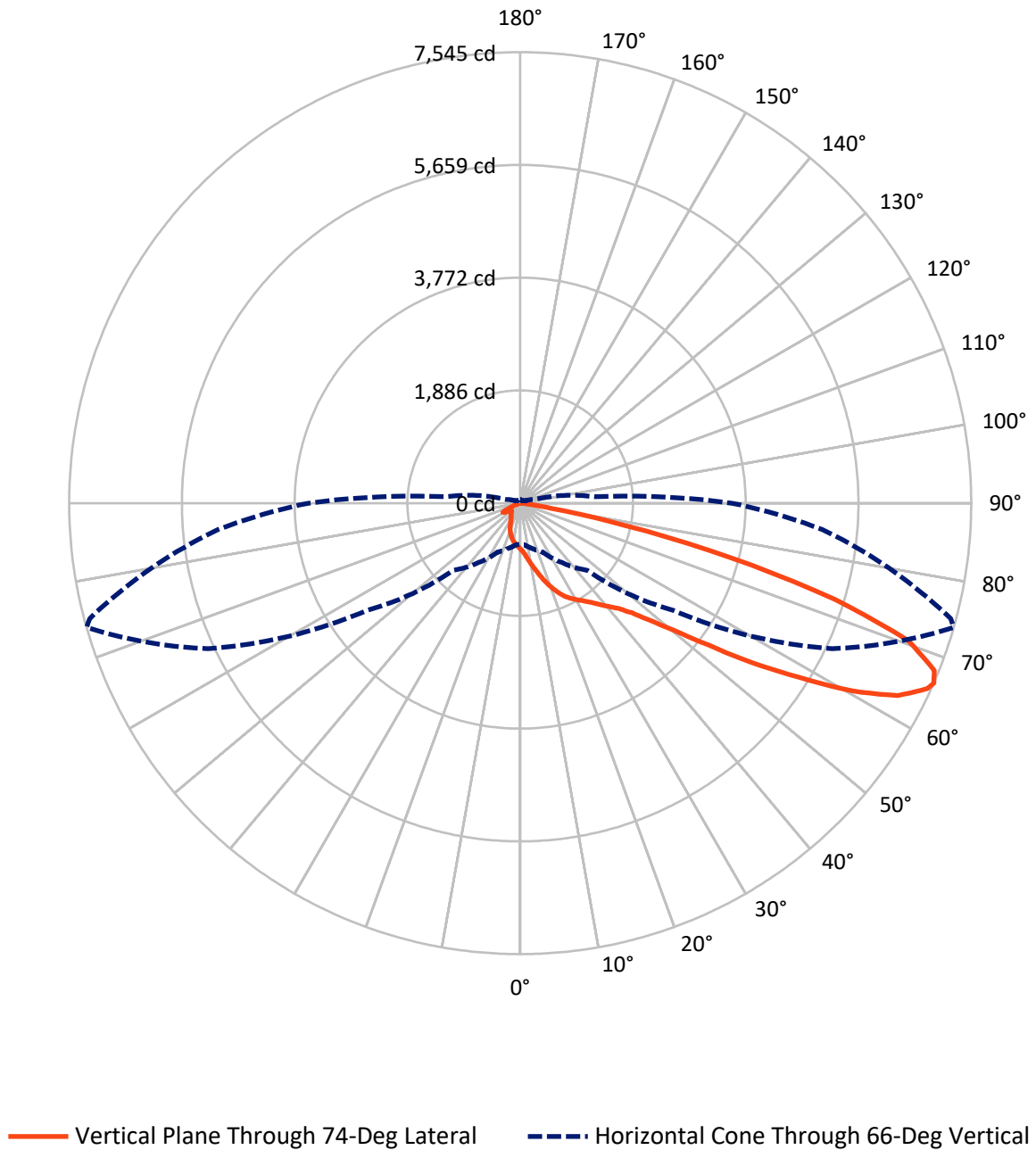
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Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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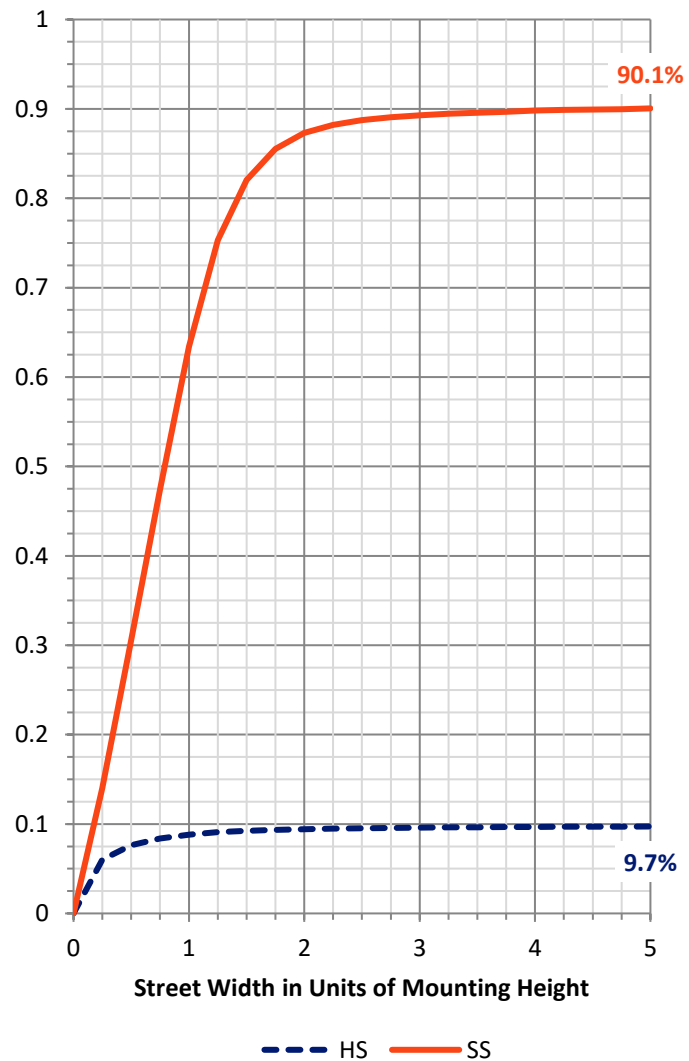
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.4	0.0	689.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6342.6	0.0	6342.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	7032.0	0.0	7032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.1
10°-20°	240.2	3.4
20°-30°	458.4	6.5
30°-40°	803.4	11.4
40°-50°	1377.7	19.6
50°-60°	1791.8	25.5
60°-70°	1622.0	23.1
70°-80°	625.9	8.9
80°-90°	37.7	0.5
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°	7032.0	100.0
0°-180°	7032.0	100.0

Coefficient of Utilization



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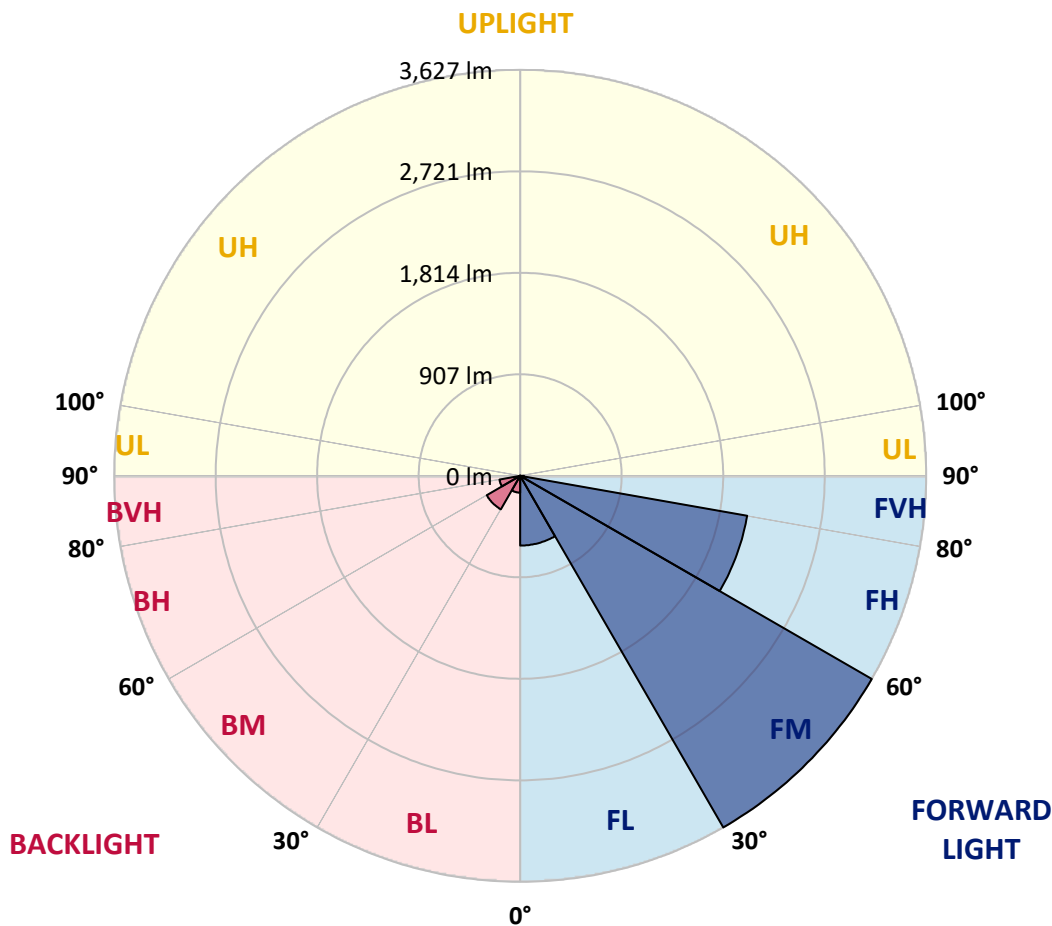
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.1	8.9			
FM	(30°-60°)	3627.5	51.6			
FH	(60°-80°)	2059.4	29.3			G2/5000
FVH	(80°-90°)	32.6	0.5			G1/100
BL	(0°-30°)	150.4	2.1	B1/500		
BM	(30°-60°)	345.5	4.9	B1/1000		
BH	(60°-80°)	188.5	2.7	B1/500		G1/500
BVH	(80°-90°)	5.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	921.6	914.1	900.2	898.9	887.5	873.7	849.7	824.4	806.7	804.2	782.8
5°	1103.4	1099.6	1085.8	1076.9	1055.5	1022.6	967.1	911.5	864.8	859.8	811.8
7.5°	1151.4	1153.9	1156.5	1165.3	1157.7	1142.6	1100.9	1022.6	949.4	938.0	854.7
10°	1159.0	1156.5	1156.5	1167.8	1189.3	1210.7	1205.7	1138.8	1044.1	1030.2	914.1
12.5°	1241.0	1244.8	1236.0	1230.9	1227.2	1238.5	1276.4	1247.4	1143.8	1132.5	986.0
15°	1347.1	1345.8	1333.2	1333.2	1321.8	1302.9	1326.9	1348.4	1263.8	1249.9	1068.1
17.5°	1424.1	1429.2	1427.9	1435.5	1431.7	1406.4	1393.8	1438.0	1387.5	1369.8	1161.5
20°	1486.0	1499.9	1504.9	1528.9	1540.3	1522.6	1489.8	1517.5	1506.2	1489.8	1256.2
22.5°	1551.6	1563.0	1571.8	1613.5	1645.0	1641.3	1599.6	1593.3	1621.1	1605.9	1349.6
25°	1617.3	1622.3	1648.8	1699.3	1749.8	1762.5	1719.5	1670.3	1724.6	1710.7	1432.9
27.5°	1689.2	1691.8	1723.3	1785.2	1855.9	1882.4	1848.3	1757.4	1804.1	1804.1	1508.7
30°	1820.5	1845.8	1858.4	1914.0	1975.8	2012.4	1972.0	1849.6	1874.8	1886.2	1588.2
32.5°	2103.3	2107.1	2103.3	2127.3	2139.9	2161.4	2114.7	1953.1	1946.8	1959.4	1666.5
35°	2535.1	2520.0	2479.6	2444.2	2371.0	2330.6	2270.0	2085.7	2035.2	2052.8	1743.5
37.5°	3059.1	3037.6	2945.4	2836.9	2680.3	2518.7	2442.9	2247.3	2147.5	2170.2	1826.8
40°	3559.0	3545.1	3435.3	3301.5	3033.8	2757.3	2597.0	2383.6	2272.5	2281.3	1911.4
42.5°	3970.6	3968.1	3875.9	3735.8	3392.4	3014.9	2778.8	2517.4	2403.8	2417.7	1999.8
45°	4282.4	4258.4	4190.3	4089.3	3739.5	3282.5	2998.5	2720.7	2614.6	2631.1	2132.4
47.5°	4282.4	4286.2	4330.4	4320.3	3981.9	3533.8	3238.3	2977.0	2926.5	2941.6	2350.8
50°	3934.0	3969.3	4166.3	4331.7	4108.2	3729.4	3497.1	3297.7	3349.4	3372.2	2732.1
52.5°	3244.6	3304.0	3646.1	4023.6	4014.8	3827.9	3764.8	3705.5	3937.8	3978.2	3295.1
55°	2465.7	2504.8	2950.5	3446.6	3608.2	3747.1	3998.4	4223.1	4716.7	4707.9	3867.1
57.5°	1842.0	1878.6	2262.4	2812.9	3026.2	3397.4	4118.3	4815.2	5489.4	5523.5	4403.6
60°	1354.7	1382.4	1709.4	2161.4	2469.5	2862.1	4070.3	5398.5	6379.4	6340.3	4877.1
62.5°	1002.4	1017.6	1253.7	1547.8	1956.9	2331.8	3768.6	5797.4	7090.2	7010.7	5140.9
65°	775.2	780.2	902.7	1059.2	1422.8	1813.0	3319.1	5858.0	7482.9	7398.3	5135.9
66°	690.6	694.4	784.0	905.2	1210.7	1587.0	3122.2	5760.8	7544.7	7455.1	5072.7
67.5°	579.5	577.0	630.0	709.5	909.0	1224.6	2772.5	5476.8	7471.5	7426.1	4870.7
70°	429.3	430.5	457.0	476.0	531.5	678.0	2002.3	4750.8	6885.7	6883.2	4316.5
72.5°	318.2	321.9	342.1	345.9	332.0	367.4	1153.9	3778.7	5508.3	5509.6	3227.0
75°	238.6	244.9	251.2	253.8	241.1	232.3	521.4	2542.7	3623.4	3596.9	1826.8
77.5°	181.8	184.3	189.4	185.6	183.1	160.3	217.2	1239.8	1789.0	1629.9	592.1
80°	132.6	132.6	137.6	132.6	131.3	114.9	118.7	397.7	525.2	436.8	127.5
82.5°	83.3	82.1	85.9	84.6	82.1	73.2	69.4	111.1	121.2	108.6	61.9
85°	46.7	45.5	44.2	42.9	39.1	32.8	37.9	41.7	55.6	56.8	44.2
87.5°	16.4	16.4	15.2	13.9	11.4	11.4	13.9	13.9	20.2	20.2	22.7
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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	772.7	758.8	738.6	712.1	693.1	674.2	654.0	642.6	626.2	622.4	627.5
5°	786.5	761.3	710.8	655.2	607.3	564.3	523.9	500.0	476.0	467.1	470.9
7.5°	815.6	772.7	686.8	597.2	517.6	453.2	405.3	377.5	356.0	347.2	349.7
10°	858.5	792.9	664.1	531.5	429.3	361.1	320.7	303.0	290.4	285.3	286.6
12.5°	910.3	821.9	635.0	465.9	353.5	294.2	275.2	271.4	268.9	266.4	267.7
15°	968.3	847.1	601.0	401.5	294.2	261.3	255.0	253.8	252.5	252.5	252.5
17.5°	1028.9	869.9	563.1	340.9	256.3	241.1	237.4	237.4	237.4	238.6	238.6
20°	1085.8	887.5	518.9	286.6	234.8	222.2	219.7	219.7	220.9	222.2	222.2
22.5°	1141.3	895.1	467.1	248.7	217.2	205.8	202.0	202.0	202.0	203.3	203.3
25°	1189.3	895.1	415.4	224.7	202.0	190.6	185.6	184.3	185.6	185.6	185.6
27.5°	1229.7	891.3	364.9	208.3	186.9	175.5	170.4	169.2	171.7	173.0	173.0
30°	1272.6	886.3	324.5	193.2	174.2	162.9	157.8	157.8	161.6	166.7	166.7
32.5°	1314.3	890.1	292.9	180.5	161.6	152.8	147.7	149.0	156.6	164.1	164.1
35°	1358.5	897.6	274.0	171.7	152.8	143.9	140.1	143.9	151.5	159.1	159.1
37.5°	1402.6	906.5	262.6	164.1	145.2	136.4	133.8	138.9	147.7	155.3	156.6
40°	1449.4	914.1	250.0	156.6	140.1	130.0	128.8	133.8	145.2	152.8	154.0
42.5°	1507.4	929.2	234.8	150.2	135.1	122.5	123.7	127.5	138.9	150.2	151.5
45°	1621.1	977.2	219.7	143.9	128.8	118.7	116.2	118.7	131.3	143.9	146.5
47.5°	1834.4	1085.8	203.3	137.6	122.5	116.2	106.1	108.6	119.9	133.8	135.1
50°	2243.5	1316.8	194.4	131.3	117.4	107.3	96.0	96.0	104.8	117.4	117.4
52.5°	2881.0	1730.9	199.5	126.3	111.1	98.5	87.1	85.9	90.9	99.7	99.7
55°	3569.1	2185.4	218.4	121.2	103.5	93.4	80.8	74.5	78.3	83.3	83.3
57.5°	4114.5	2413.9	270.2	118.7	94.7	89.6	73.2	64.4	68.2	73.2	73.2
60°	4354.4	2280.1	328.3	121.2	88.4	83.3	65.7	56.8	63.1	68.2	69.4
62.5°	4160.0	1877.3	352.2	114.9	79.5	74.5	64.4	53.0	60.6	64.4	65.7
65°	3739.5	1426.6	275.2	99.7	73.2	64.4	58.1	50.5	56.8	60.6	60.6
66°	3540.1	1243.6	234.8	92.2	70.7	60.6	55.6	50.5	55.6	58.1	59.3
67.5°	3230.8	981.0	174.2	80.8	65.7	55.6	51.8	48.0	53.0	55.6	55.6
70°	2526.3	584.5	104.8	63.1	56.8	49.2	46.7	44.2	48.0	49.2	49.2
72.5°	1581.9	277.8	66.9	46.7	48.0	46.7	39.1	41.7	42.9	44.2	44.2
75°	766.3	109.8	45.5	34.1	39.1	44.2	31.6	36.6	37.9	40.4	39.1
77.5°	213.4	53.0	29.0	25.3	34.1	34.1	24.0	29.0	34.1	42.9	39.1
80°	61.9	34.1	18.9	18.9	24.0	24.0	16.4	20.2	22.7	25.3	26.5
82.5°	42.9	22.7	12.6	13.9	13.9	15.2	10.1	10.1	12.6	12.6	13.9
85°	34.1	10.1	7.6	8.8	6.3	7.6	5.1	5.1	6.3	5.1	5.1
87.5°	13.9	5.1	5.1	5.1	3.8	3.8	2.5	1.3	1.3	1.3	1.3
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)