

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: P1210203

Luminaire Tested: **ARCH2-50-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

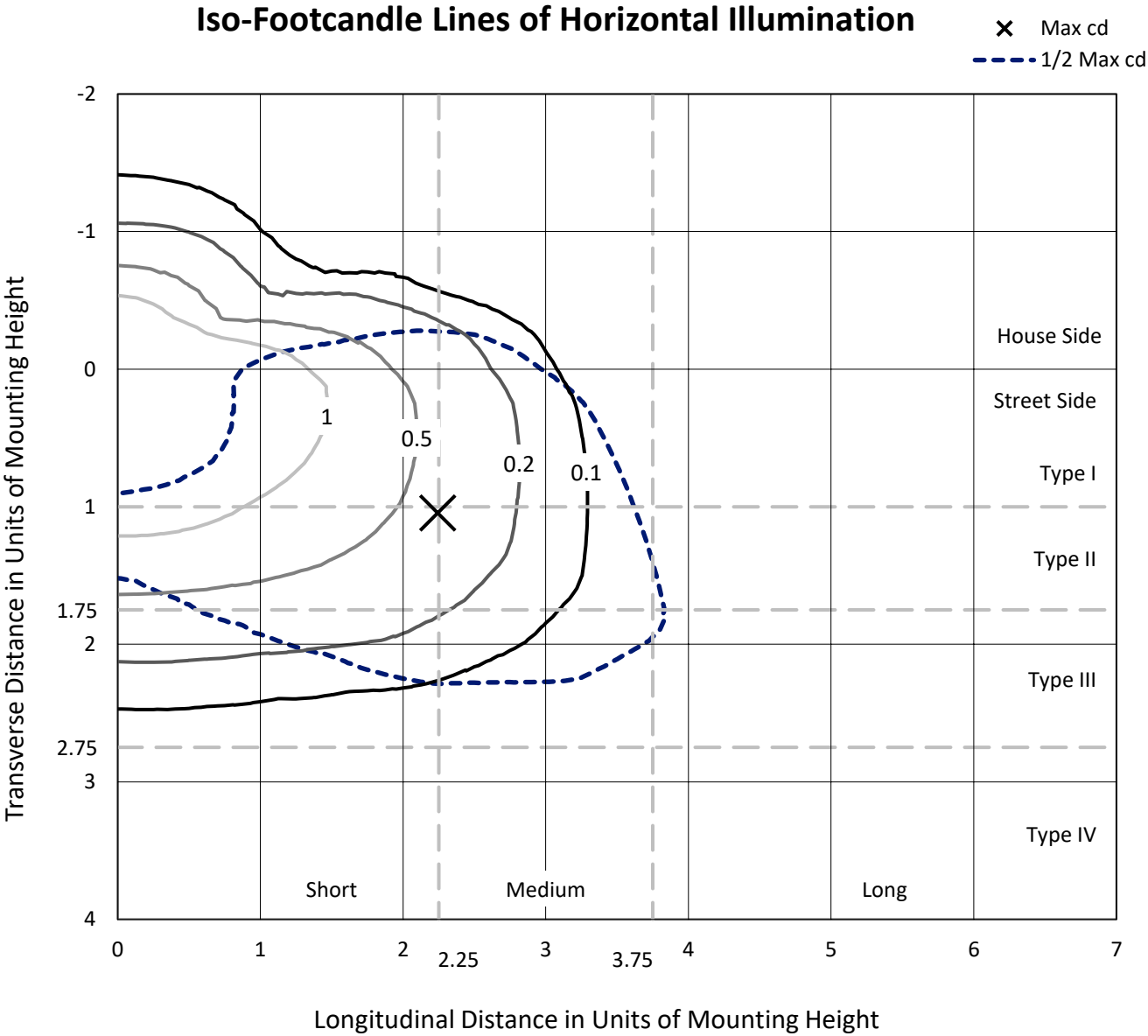
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7520 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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



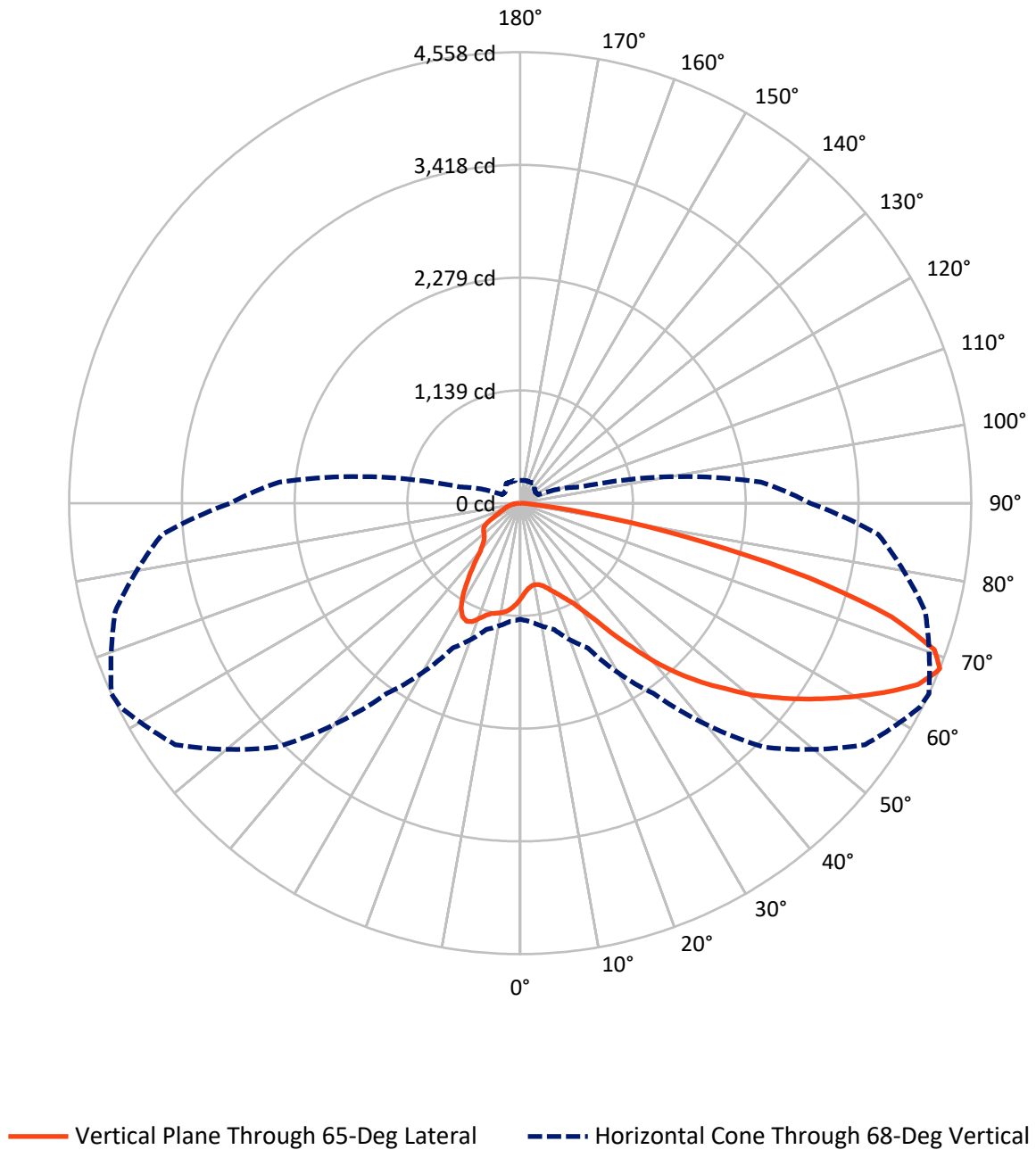
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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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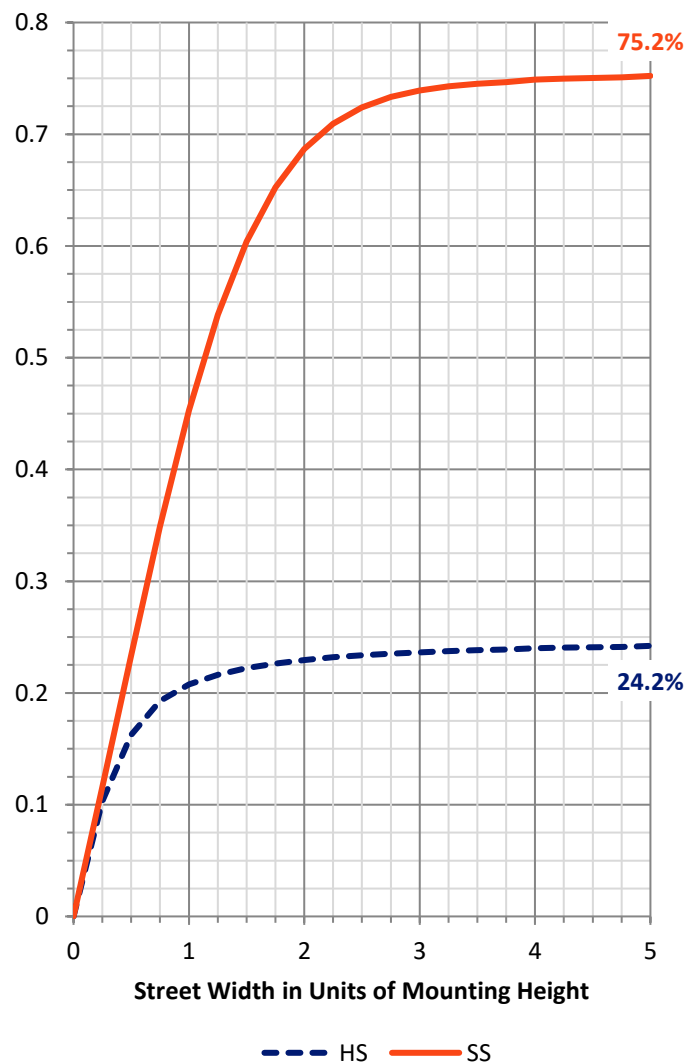
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.7	0.0	1843.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5676.3	0.0	5676.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	7520.0	0.0	7520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.2
10°-20°	299.0	4.0
20°-30°	541.2	7.2
30°-40°	851.4	11.3
40°-50°	1268.0	16.9
50°-60°	1663.4	22.1
60°-70°	1819.1	24.2
70°-80°	900.1	12.0
80°-90°	85.9	1.1
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°	7520.0	100.0
0°-180°	7520.0	100.0

Coefficient of Utilization



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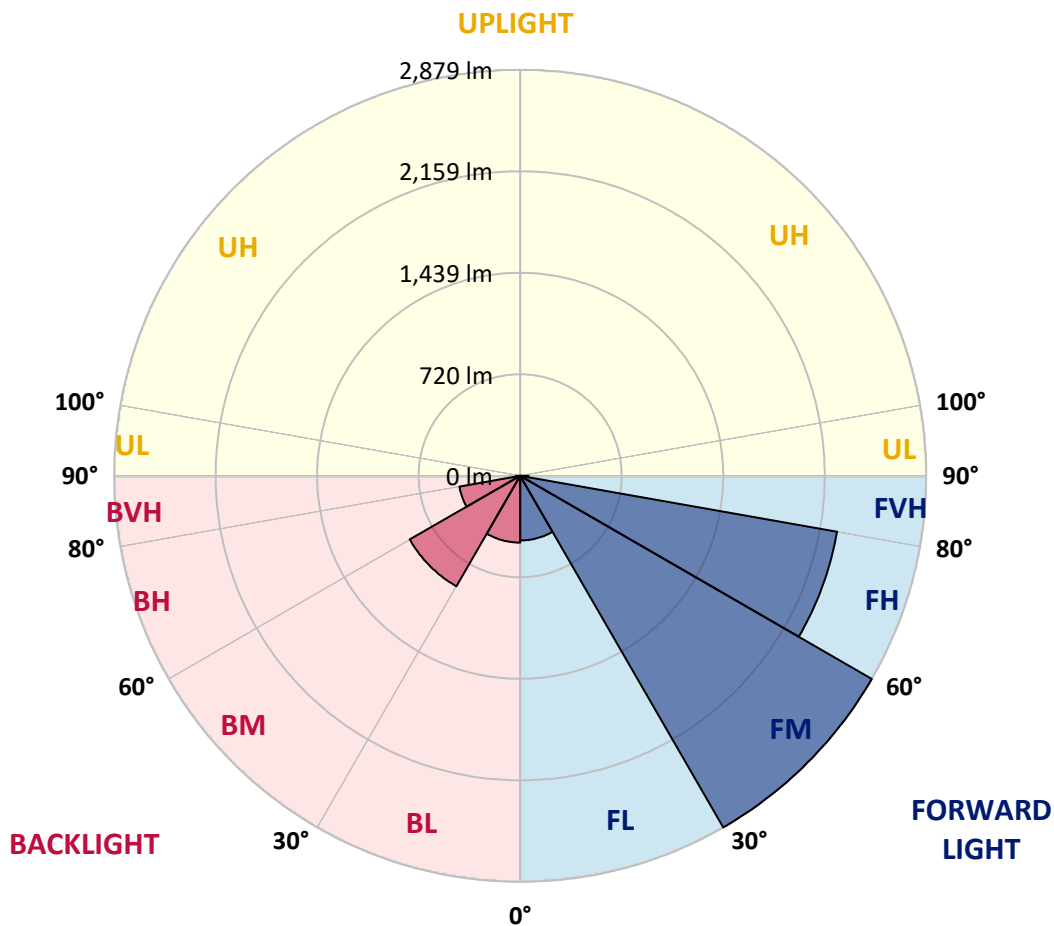
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.4	6.1			
FM	(30°-60°)	2878.6	38.3			
FH	(60°-80°)	2281.6	30.3			G2/5000
FVH	(80°-90°)	57.7	0.8			G1/100
BL	(0°-30°)	473.7	6.3	B1/500		
BM	(30°-60°)	904.3	12.0	B1/1000		
BH	(60°-80°)	437.6	5.8	B1/500		G1/500
BVH	(80°-90°)	28.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	838.8	836.8	841.7	846.5	857.2	869.8	887.3	901.8	903.8	930.9	952.2
5°	789.3	786.4	791.3	797.1	801.9	817.5	835.9	857.2	865.9	905.7	951.3
7.5°	794.2	793.2	795.1	793.2	793.2	800.0	812.6	833.9	843.6	891.1	956.1
10°	822.3	824.2	825.2	819.4	813.6	810.7	814.5	829.1	835.9	892.1	977.4
12.5°	868.8	871.8	872.7	862.1	854.3	841.7	834.9	840.7	845.6	901.8	1007.5
15°	931.9	933.8	927.0	920.2	900.8	885.3	868.8	864.0	865.9	922.2	1041.4
17.5°	1005.6	1002.7	1002.7	986.2	961.0	936.7	909.6	905.7	905.7	955.1	1089.9
20°	1086.1	1089.0	1080.2	1057.9	1032.7	994.9	967.8	950.3	952.2	993.0	1149.1
22.5°	1202.4	1207.3	1184.0	1152.0	1113.2	1069.6	1030.8	1002.7	1003.6	1042.4	1210.2
25°	1327.5	1329.4	1314.9	1272.2	1219.9	1157.8	1106.4	1070.5	1069.6	1097.7	1288.7
27.5°	1455.5	1464.2	1435.1	1394.4	1345.9	1268.4	1200.5	1152.0	1144.2	1182.1	1386.7
30°	1587.4	1598.1	1569.9	1530.2	1470.1	1404.1	1323.6	1267.4	1262.5	1313.0	1517.6
32.5°	1720.2	1723.1	1700.8	1667.9	1613.6	1551.5	1486.5	1424.5	1419.6	1502.1	1687.3
35°	1828.8	1837.6	1822.1	1814.3	1774.5	1717.3	1654.3	1618.4	1631.0	1736.7	1907.4
37.5°	1959.7	1968.5	1951.0	1949.1	1936.5	1887.0	1843.4	1846.3	1858.9	2002.4	2139.1
40°	2148.8	2158.5	2113.9	2094.5	2094.5	2046.0	2031.5	2100.4	2116.8	2264.2	2380.6
42.5°	2308.8	2324.4	2298.2	2285.6	2247.7	2213.8	2231.3	2328.2	2356.4	2514.4	2591.0
45°	2386.4	2398.0	2429.1	2465.9	2429.1	2369.9	2435.9	2545.4	2585.2	2745.2	2801.4
47.5°	2428.1	2438.8	2474.7	2573.6	2598.8	2549.3	2642.4	2779.1	2806.3	2974.0	3002.2
50°	2433.9	2467.9	2514.4	2613.3	2728.7	2735.5	2849.9	3016.7	3048.7	3199.0	3178.6
52.5°	2386.4	2400.0	2496.0	2662.8	2790.8	2907.1	3075.9	3244.6	3267.9	3410.4	3334.8
55°	2308.8	2328.2	2424.2	2651.1	2850.9	3070.0	3305.7	3468.6	3494.8	3616.0	3479.3
57.5°	2239.0	2248.7	2351.5	2617.2	2911.0	3233.0	3510.3	3702.3	3719.7	3796.3	3585.9
60°	2161.4	2172.1	2274.9	2544.5	2955.6	3356.1	3723.6	3937.9	3953.4	3986.4	3710.0
62.5°	1960.7	1988.8	2117.8	2424.2	2944.0	3496.7	3951.5	4170.6	4190.0	4154.2	3808.0
65°	1592.2	1632.0	1790.1	2151.7	2835.4	3587.9	4137.7	4384.9	4417.9	4280.2	3834.2
67.5°	1236.4	1264.5	1391.5	1707.6	2454.3	3542.3	4257.9	4532.3	4542.0	4259.9	3688.7
68°	1172.4	1200.5	1321.7	1614.5	2348.6	3488.0	4255.0	4536.2	4557.6	4237.6	3632.5
70°	897.0	929.0	1044.4	1279.0	1892.8	3142.8	4077.6	4443.1	4440.2	3968.0	3283.4
72.5°	560.5	578.9	658.4	806.8	1251.9	2391.3	3460.8	3918.5	3926.3	3234.9	2518.3
75°	355.9	355.9	352.0	390.8	641.9	1362.4	2572.6	3016.7	3022.5	2265.2	1587.4
77.5°	309.3	300.6	258.9	219.2	256.0	529.5	1522.4	1948.1	1916.1	1219.9	753.5
80°	260.8	246.3	212.4	176.5	164.8	165.8	584.7	989.1	946.4	439.3	250.2
82.5°	188.1	175.5	160.0	138.7	127.0	98.9	122.2	286.1	279.3	127.0	81.5
85°	101.8	92.1	90.2	91.2	76.6	61.1	51.4	63.0	63.0	55.3	46.5
87.5°	35.9	26.2	31.0	34.9	30.1	25.2	20.4	24.2	25.2	24.2	22.3
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°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	964.8	974.5	997.8	1018.2	1032.7	1045.3	1052.1	1055.0	1061.8	1062.8	1060.8
5°	972.6	997.8	1032.7	1062.8	1079.3	1086.1	1088.0	1089.0	1086.1	1088.0	1086.1
7.5°	993.0	1025.0	1074.4	1100.6	1103.5	1092.8	1093.8	1089.9	1093.8	1097.7	1097.7
10°	1024.0	1064.7	1111.3	1121.0	1108.4	1102.5	1114.2	1137.4	1145.2	1155.9	1155.9
12.5°	1064.7	1113.2	1146.2	1137.4	1125.8	1145.2	1179.1	1202.4	1210.2	1214.1	1211.1
15°	1111.3	1163.6	1180.1	1151.0	1172.4	1214.1	1225.7	1212.1	1192.7	1184.0	1188.8
17.5°	1170.4	1214.1	1204.4	1185.0	1233.4	1239.3	1201.4	1157.8	1126.8	1115.1	1122.9
20°	1232.5	1270.3	1225.7	1234.4	1264.5	1202.4	1130.7	1074.4	1047.3	1042.4	1050.2
22.5°	1298.4	1322.7	1247.0	1291.6	1247.0	1121.0	1034.7	1005.6	998.8	1006.5	1013.3
25°	1373.1	1370.2	1283.9	1309.1	1182.1	1021.1	969.7	967.8	967.8	972.6	982.3
27.5°	1457.4	1411.9	1320.7	1285.8	1069.6	938.7	929.0	929.9	927.0	928.0	932.8
30°	1555.4	1468.1	1361.4	1209.2	943.5	876.6	872.7	869.8	863.0	861.1	863.0
32.5°	1678.5	1527.3	1403.1	1083.1	833.0	812.6	810.7	795.1	778.7	776.7	783.5
35°	1834.7	1634.9	1424.5	925.1	741.8	740.8	734.1	709.8	688.5	688.5	683.6
37.5°	2013.1	1773.6	1433.2	770.9	666.2	671.0	651.6	620.6	604.1	594.4	597.3
40°	2195.4	1931.6	1432.2	636.1	600.2	601.2	586.7	548.8	508.1	483.9	489.7
42.5°	2370.9	2075.1	1407.0	564.4	546.9	544.0	532.4	481.0	447.0	427.6	428.6
45°	2511.5	2223.5	1368.2	521.7	498.4	503.3	477.1	446.1	415.0	397.6	396.6
47.5°	2652.1	2336.0	1306.2	495.5	462.5	453.8	443.1	421.8	398.5	379.1	380.1
50°	2780.1	2432.0	1248.0	478.1	429.6	407.3	409.2	396.6	376.2	358.8	357.8
52.5°	2870.3	2495.0	1216.0	468.4	389.8	365.6	372.4	365.6	346.2	333.6	332.6
55°	2960.5	2543.5	1226.7	455.8	346.2	326.8	338.4	336.5	325.8	321.9	322.9
57.5°	3033.2	2580.3	1264.5	432.5	304.5	292.8	312.2	306.4	298.7	299.6	299.6
60°	3104.0	2627.9	1309.1	379.1	268.6	269.6	288.0	277.3	272.5	281.2	282.2
62.5°	3177.7	2679.3	1272.2	301.6	237.6	244.4	265.7	257.0	258.9	271.5	275.4
65°	3169.0	2674.4	1036.6	247.3	210.4	224.0	256.0	253.1	254.1	258.9	260.8
67.5°	2990.5	2503.7	712.7	210.4	191.0	207.5	248.2	236.6	237.6	234.7	235.6
68°	2930.4	2443.6	628.4	204.6	187.2	203.6	244.4	233.7	234.7	231.8	230.8
70°	2602.7	2092.6	397.6	180.4	173.6	193.0	225.0	221.1	220.1	218.2	218.2
72.5°	1984.0	1544.7	209.5	156.1	158.1	176.5	200.7	208.5	203.6	204.6	210.4
75°	1313.9	929.0	145.5	133.8	138.7	151.3	178.4	193.9	189.1	192.0	189.1
77.5°	695.3	500.4	116.4	113.5	113.5	122.2	147.4	171.6	171.6	169.7	166.8
80°	227.9	176.5	93.1	89.2	91.2	96.0	118.3	140.6	143.5	139.6	137.7
82.5°	76.6	81.5	69.8	65.0	66.9	70.8	89.2	107.6	108.6	100.8	98.9
85°	47.5	54.3	43.6	42.7	42.7	43.6	54.3	59.2	54.3	48.5	50.4
87.5°	22.3	27.2	20.4	17.5	14.5	12.6	9.7	3.9	3.9	1.9	1.9
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)