

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: P1210502

Luminaire Tested: **ARCH3-140-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14792 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 142.5
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

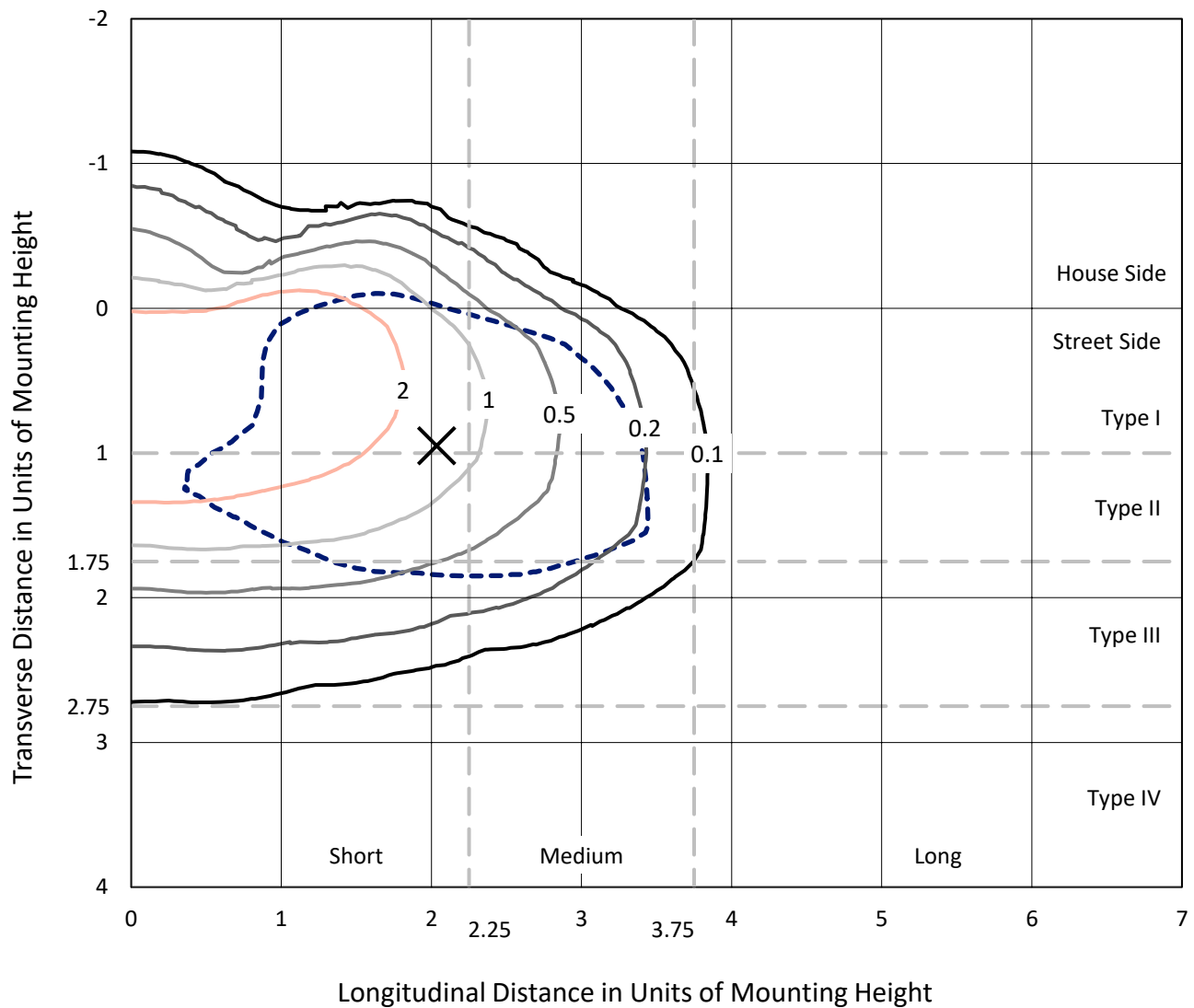


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Iso-Footcandle Lines of Horizontal Illumination

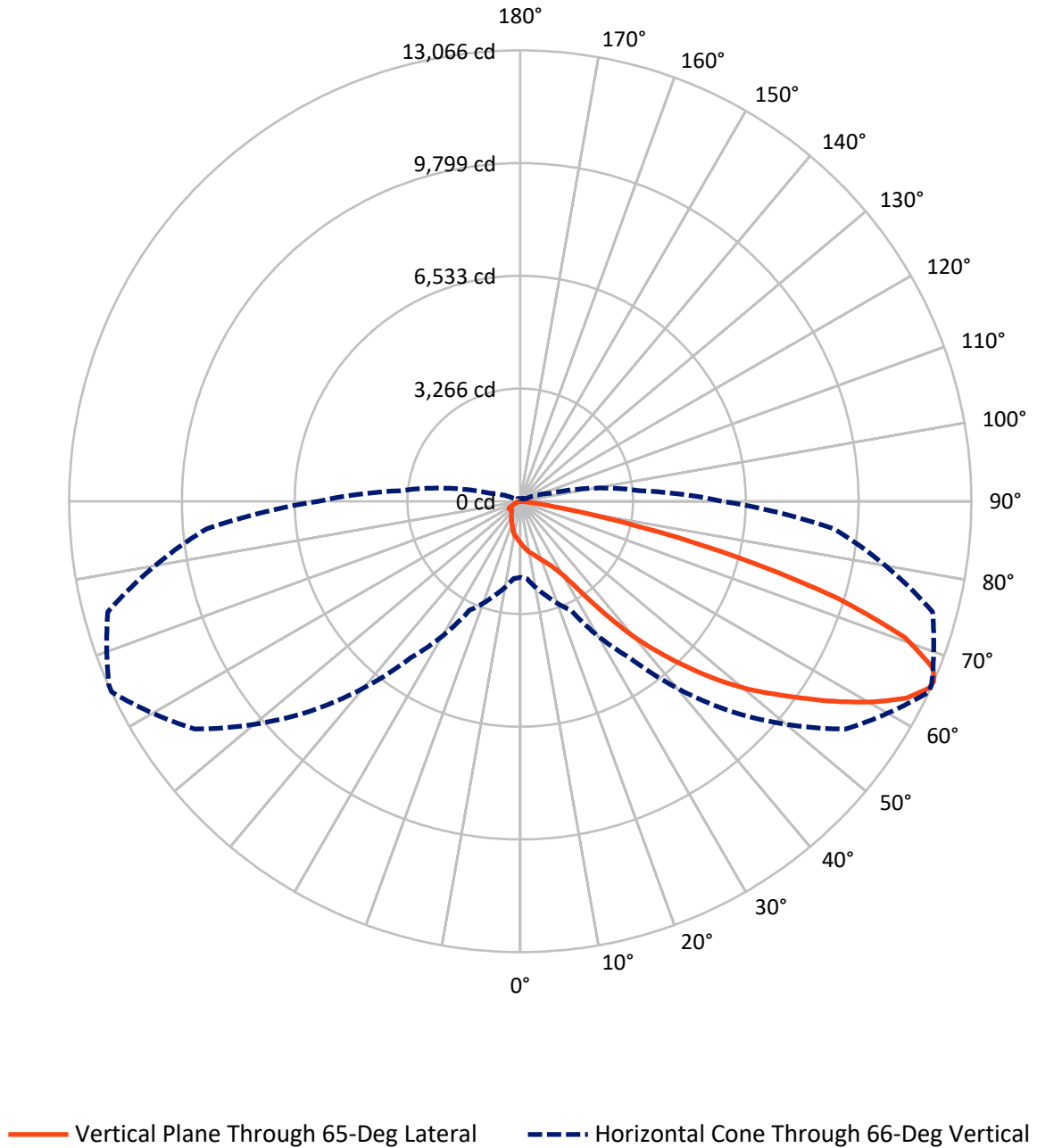
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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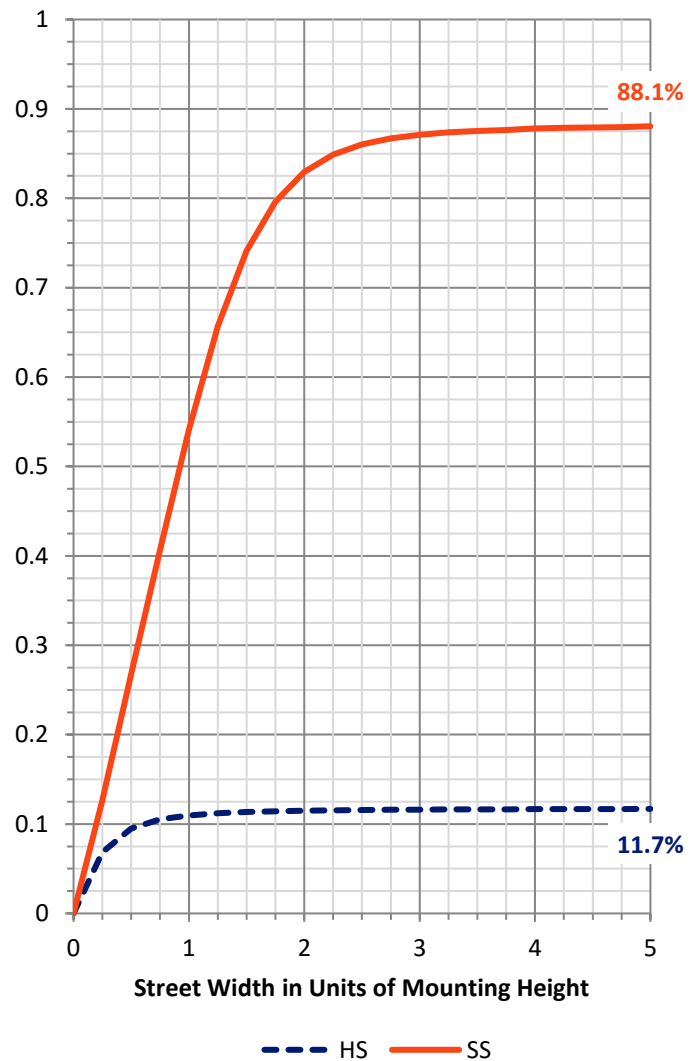
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.8	0.0	1745.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13046.2	0.0	13046.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	14792.0	0.0	14792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	0.8
10°-20°	338.2	2.3
20°-30°	619.0	4.2
30°-40°	1257.9	8.5
40°-50°	2656.2	18.0
50°-60°	4083.5	27.6
60°-70°	4110.3	27.8
70°-80°	1535.8	10.4
80°-90°	76.7	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°	14792.0	100.0
0°-180°	14792.0	100.0

Coefficient of Utilization



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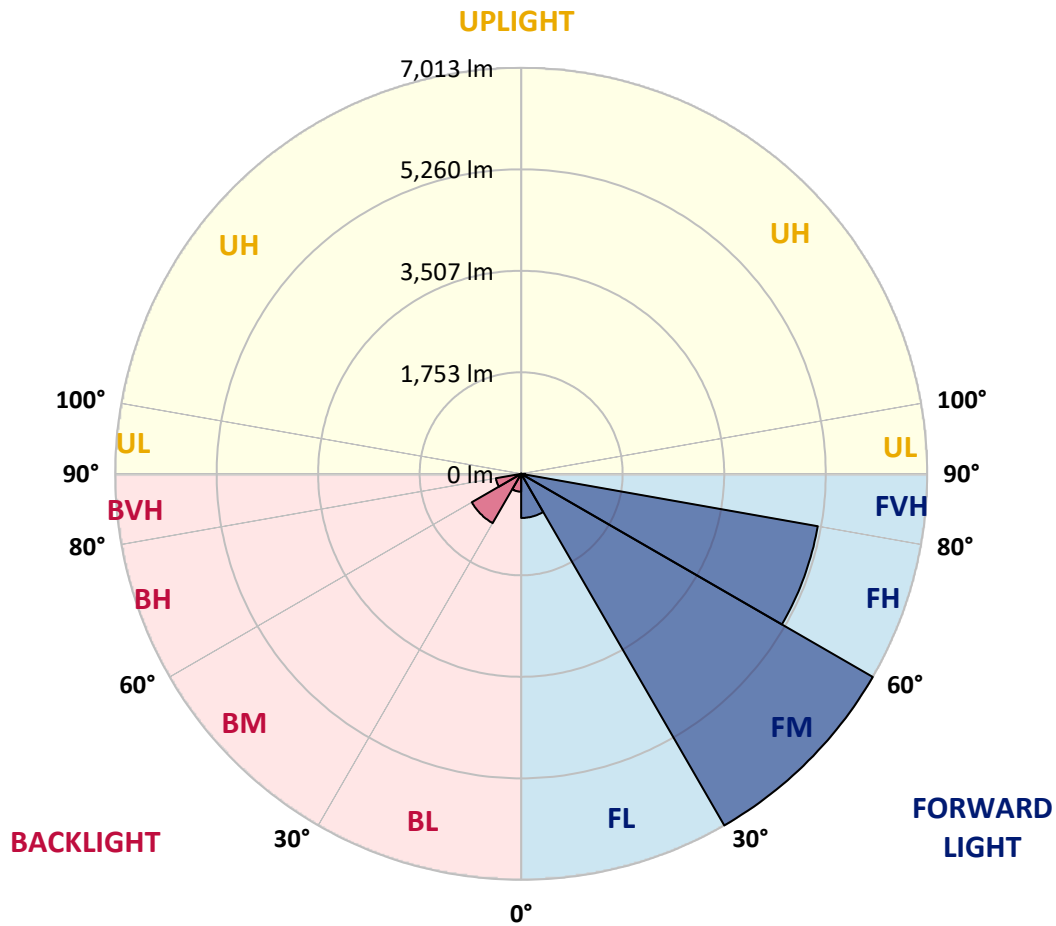
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.5	5.2			
FM	(30°-60°)	7013.3	47.4			
FH	(60°-80°)	5202.7	35.2			G3/7500
FVH	(80°-90°)	67.7	0.5			G1/100
BL	(0°-30°)	309.0	2.1	B1/500		
BM	(30°-60°)	984.3	6.7	B1/1000		
BH	(60°-80°)	443.5	3.0	B1/500		G1/500
BVH	(80°-90°)	9.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1374.2	1376.9	1371.5	1360.8	1350.1	1336.6	1315.2	1280.3	1274.9	1250.8	1223.9
5°	1468.2	1473.5	1465.5	1462.8	1457.4	1438.6	1409.1	1358.1	1352.8	1304.4	1242.7
7.5°	1500.4	1508.4	1503.1	1503.1	1503.1	1495.0	1481.6	1436.0	1427.9	1366.2	1272.2
10°	1524.5	1529.9	1527.2	1538.0	1546.0	1540.6	1532.6	1505.7	1497.7	1436.0	1312.5
12.5°	1562.1	1564.8	1567.5	1572.8	1586.3	1591.6	1588.9	1564.8	1559.4	1516.5	1363.5
15°	1597.0	1597.0	1599.7	1623.8	1642.6	1653.4	1656.0	1637.3	1631.9	1597.0	1427.9
17.5°	1629.2	1631.9	1639.9	1666.8	1699.0	1720.5	1733.9	1725.8	1717.8	1690.9	1503.1
20°	1677.5	1682.9	1690.9	1728.5	1760.7	1795.6	1822.5	1819.8	1817.1	1798.3	1591.6
22.5°	1760.7	1766.1	1779.5	1814.4	1846.6	1889.6	1935.2	1932.5	1924.5	1911.0	1696.3
25°	1886.9	1886.9	1894.9	1924.5	1964.7	2015.7	2058.7	2066.7	2058.7	2050.6	1827.8
27.5°	2045.2	2047.9	2047.9	2080.1	2117.7	2182.1	2235.8	2243.9	2243.9	2235.8	2005.0
30°	2265.3	2257.3	2251.9	2278.7	2319.0	2412.9	2506.9	2523.0	2514.9	2528.4	2254.6
32.5°	2643.8	2630.4	2584.7	2590.1	2614.3	2743.1	2901.4	2957.8	2955.1	2979.3	2657.2
35°	3167.2	3140.3	3073.2	3016.9	3014.2	3153.7	3395.3	3607.3	3604.7	3687.9	3269.2
37.5°	3757.6	3792.5	3666.4	3569.8	3540.2	3650.3	3961.6	4420.6	4444.8	4589.7	4071.7
40°	4546.8	4568.2	4407.2	4270.3	4130.7	4171.0	4581.6	5295.6	5338.5	5499.6	4874.2
42.5°	5233.9	5255.3	5161.4	4995.0	4817.8	4742.7	5207.0	6090.1	6125.0	6347.7	5700.9
45°	5700.9	5717.0	5749.2	5765.3	5564.0	5408.3	5972.0	6906.0	6949.0	7206.6	6508.8
47.5°	6065.9	6079.3	6143.8	6304.8	6264.5	6141.1	6750.3	7754.2	7764.9	8052.1	7295.2
50°	6235.0	6267.2	6425.6	6672.5	6849.7	6884.6	7595.8	8556.7	8586.2	8860.0	8038.7
52.5°	6047.1	6057.9	6457.8	6922.1	7279.1	7633.4	8444.0	9300.2	9386.1	9590.1	8707.0
55°	5413.7	5491.5	6098.1	6914.1	7617.3	8344.7	9351.2	10102.7	10180.5	10309.4	9294.8
57.5°	4678.3	4764.2	5502.3	6567.8	7762.2	9002.3	10191.3	10956.2	11009.9	11044.8	9834.3
60°	4042.2	4122.7	4882.3	5904.9	7617.3	9466.6	10972.3	11804.4	11850.0	11756.1	10105.4
62.5°	3261.1	3341.6	4106.6	5027.2	7048.3	9560.5	11552.1	12558.6	12577.4	12322.4	9939.0
65°	2458.6	2512.3	3151.1	3940.2	6052.5	9061.3	11683.6	13028.3	13009.5	12486.1	9439.8
66°	2203.6	2249.2	2812.9	3483.9	5534.5	8605.0	11506.5	13065.9	13047.1	12365.4	9112.3
67.5°	1900.3	1913.7	2378.1	2850.4	4630.0	7636.1	10967.0	12894.1	12910.2	12032.5	8513.8
70°	1484.3	1481.6	1750.0	1983.5	3161.8	5432.5	9147.2	11812.4	11890.3	10776.4	7260.3
72.5°	950.1	917.9	1073.6	1213.2	1841.2	3153.7	6669.8	9627.6	9759.2	8465.4	5408.3
75°	566.3	534.1	571.7	606.6	883.0	1516.5	3921.4	6551.7	6677.9	5427.1	3218.2
77.5°	424.1	410.7	413.3	383.8	391.9	569.0	1790.3	3462.4	3553.7	2222.4	1221.2
80°	324.8	289.9	271.1	284.5	257.7	225.5	665.6	1191.7	1248.1	526.1	255.0
82.5°	217.4	187.9	174.5	190.6	163.7	126.1	161.0	230.8	225.5	142.3	99.3
85°	112.7	96.6	96.6	96.6	83.2	61.7	69.8	93.9	93.9	75.2	59.0
87.5°	32.2	29.5	34.9	32.2	24.2	24.2	26.8	32.2	32.2	29.5	26.8
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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1202.4	1191.7	1162.2	1140.7	1119.2	1100.5	1079.0	1073.6	1062.9	1065.6	1060.2
5°	1210.5	1181.0	1130.0	1081.7	1044.1	1011.9	971.6	955.5	934.0	926.0	920.6
7.5°	1221.2	1178.3	1103.1	1036.0	971.6	907.2	842.8	805.2	781.1	770.3	762.3
10°	1245.4	1189.0	1089.7	985.0	875.0	783.7	719.3	692.5	676.4	673.7	671.0
12.5°	1277.6	1205.1	1076.3	920.6	775.7	689.8	649.5	641.5	638.8	638.8	636.1
15°	1325.9	1232.0	1054.8	845.5	697.8	638.8	620.0	606.6	601.2	601.2	601.2
17.5°	1374.2	1264.2	1022.6	767.6	644.2	606.6	587.8	579.8	574.4	577.1	574.4
20°	1436.0	1301.8	979.7	700.5	609.3	579.8	561.0	552.9	550.2	550.2	550.2
22.5°	1505.7	1344.7	926.0	649.5	579.8	552.9	534.1	526.1	520.7	523.4	523.4
25°	1599.7	1398.4	869.6	598.5	550.2	526.1	504.6	493.9	493.9	496.5	499.2
27.5°	1720.5	1462.8	813.3	566.3	523.4	499.2	475.1	464.3	467.0	472.4	472.4
30°	1897.6	1551.4	756.9	531.4	493.9	467.0	445.5	434.8	440.2	450.9	450.9
32.5°	2149.9	1696.3	708.6	491.2	450.9	421.4	399.9	391.9	405.3	426.8	426.8
35°	2600.8	1962.0	679.1	450.9	405.3	370.4	343.6	335.5	354.3	381.1	381.1
37.5°	3204.7	2388.8	689.8	416.0	367.7	327.5	297.9	287.2	300.6	324.8	332.8
40°	3878.4	2904.1	783.7	386.5	332.8	292.6	263.0	252.3	260.4	271.1	273.8
42.5°	4552.1	3451.7	960.9	365.0	306.0	263.0	236.2	228.1	233.5	236.2	238.9
45°	5223.1	3993.8	1183.7	351.6	281.8	238.9	212.0	212.0	214.7	214.7	214.7
47.5°	5859.2	4522.6	1417.2	348.9	260.4	214.7	193.3	195.9	195.9	198.6	198.6
50°	6460.5	4995.0	1653.4	357.0	241.6	193.3	177.1	177.1	177.1	179.8	177.1
52.5°	6962.4	5408.3	1900.3	370.4	222.8	177.1	161.0	161.0	161.0	163.7	161.0
55°	7437.5	5784.1	2152.6	389.2	206.7	163.7	147.6	142.3	142.3	144.9	142.3
57.5°	7824.0	6033.7	2391.5	391.9	193.3	150.3	136.9	128.8	128.8	128.8	128.8
60°	7840.1	5888.8	2461.3	343.6	177.1	136.9	123.5	112.7	115.4	115.4	115.4
62.5°	7327.4	5126.5	1978.1	257.7	158.4	123.5	112.7	102.0	102.0	102.0	102.0
65°	6320.9	3988.5	1159.5	204.0	136.9	110.0	99.3	91.3	91.3	91.3	88.6
66°	5848.5	3497.3	888.4	185.2	128.8	107.4	96.6	88.6	85.9	83.2	83.2
67.5°	5078.2	2764.6	555.6	163.7	118.1	99.3	88.6	80.5	77.8	75.2	75.2
70°	3824.8	1755.4	271.1	126.1	102.0	85.9	77.8	69.8	67.1	64.4	61.7
72.5°	2684.0	1028.0	142.3	96.6	83.2	75.2	67.1	59.0	56.4	53.7	53.7
75°	1516.5	496.5	93.9	69.8	67.1	61.7	56.4	48.3	45.6	45.6	45.6
77.5°	574.4	171.8	64.4	51.0	53.7	48.3	40.3	40.3	37.6	40.3	37.6
80°	150.3	75.2	40.3	37.6	40.3	34.9	29.5	32.2	32.2	32.2	32.2
82.5°	80.5	42.9	24.2	26.8	24.2	24.2	18.8	21.5	24.2	21.5	24.2
85°	56.4	21.5	13.4	13.4	10.7	10.7	8.1	10.7	13.4	10.7	10.7
87.5°	29.5	8.1	8.1	8.1	8.1	5.4	2.7	0.0	2.7	2.7	2.7
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)