

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: P1210981

Luminaire Tested: **ARCH4-130-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22419 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132
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

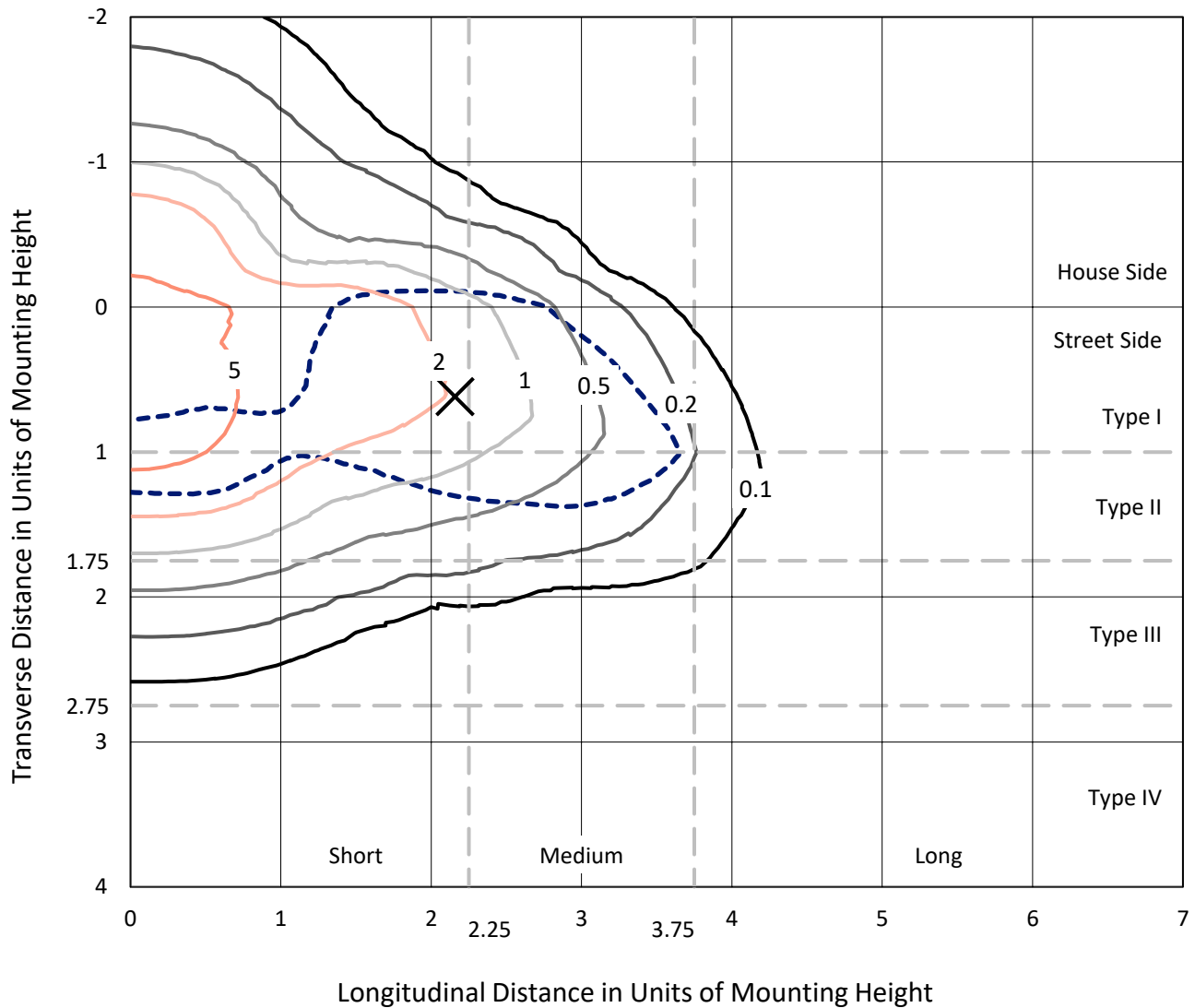


REPORT NUMBER: P1210981

CATALOG NUMBER: ARCH4-130-740-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

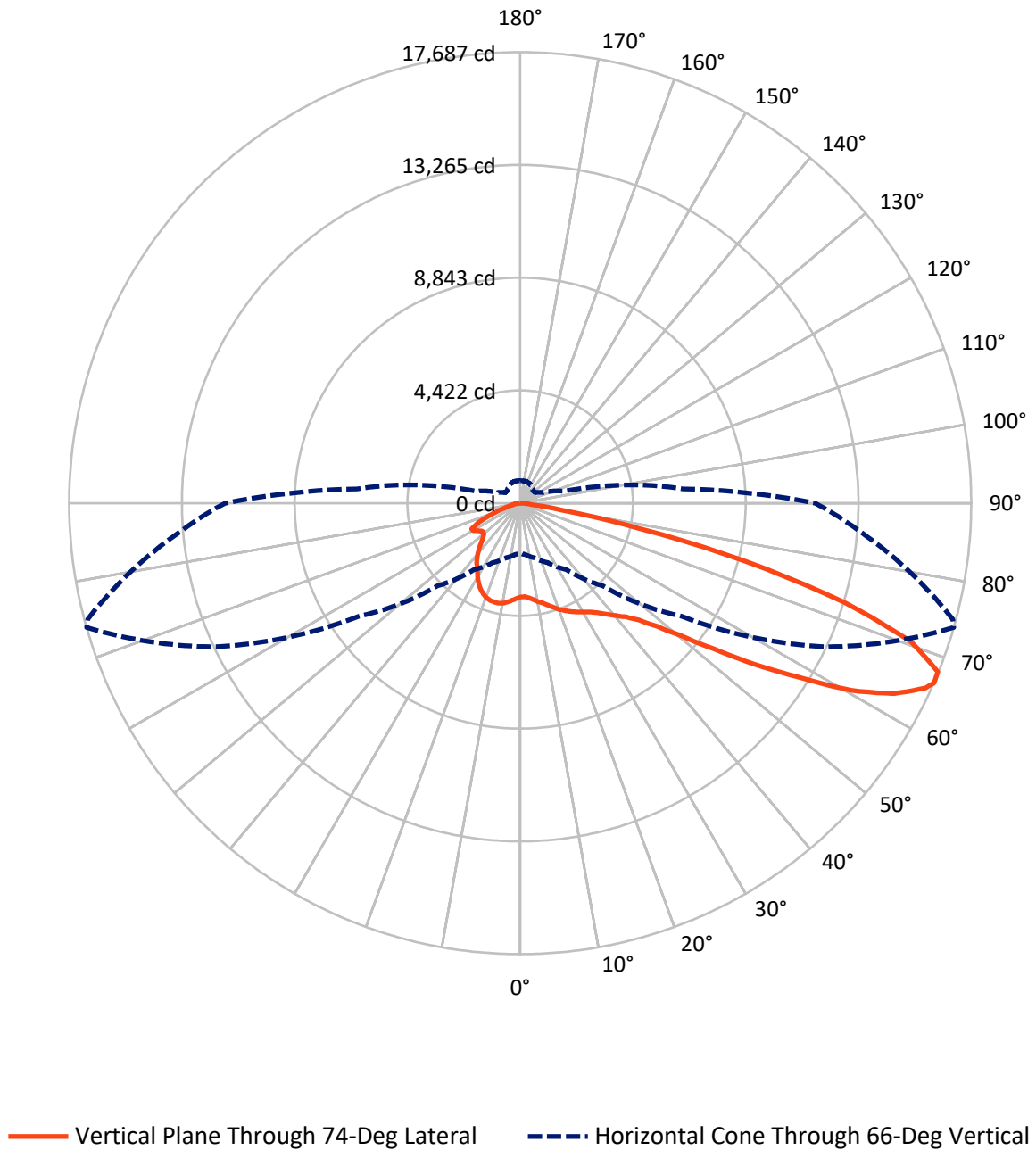
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

REPORT NUMBER: P1210981
CATALOG NUMBER: ARCH4-130-740-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210981

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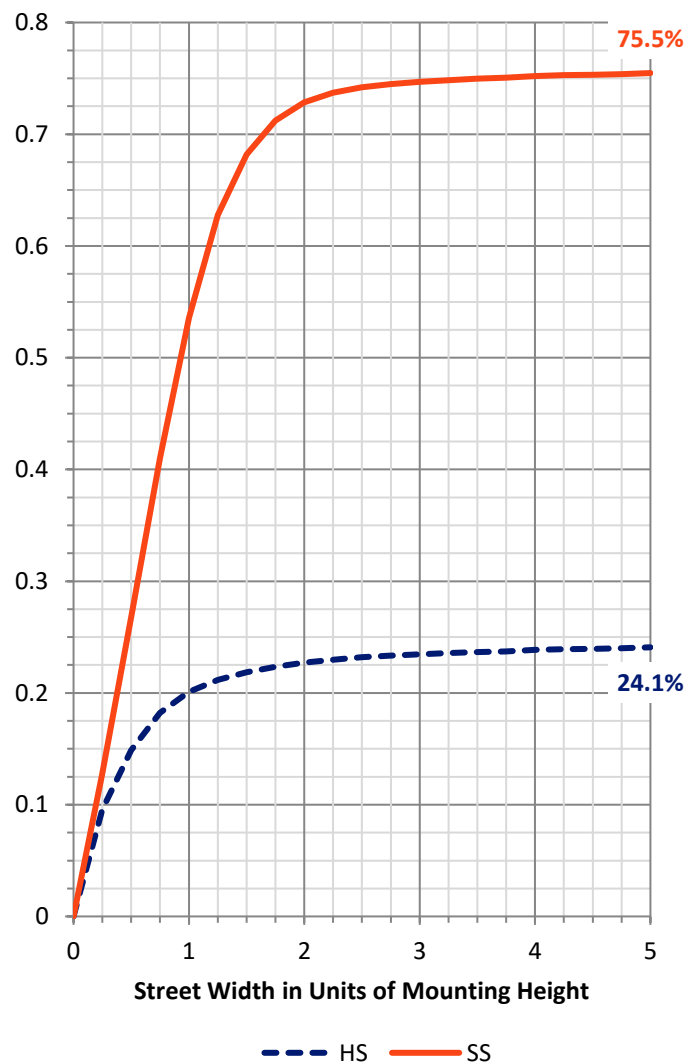
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5459.6	0.0	5459.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16959.4	0.0	16959.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	22419.0	0.0	22419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	1.6
10°-20°	1078.1	4.8
20°-30°	2023.1	9.0
30°-40°	3112.0	13.9
40°-50°	4185.9	18.7
50°-60°	4950.3	22.1
60°-70°	4579.3	20.4
70°-80°	1926.5	8.6
80°-90°	213.2	1.0
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°	22419.0	100.0
0°-180°	22419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210981

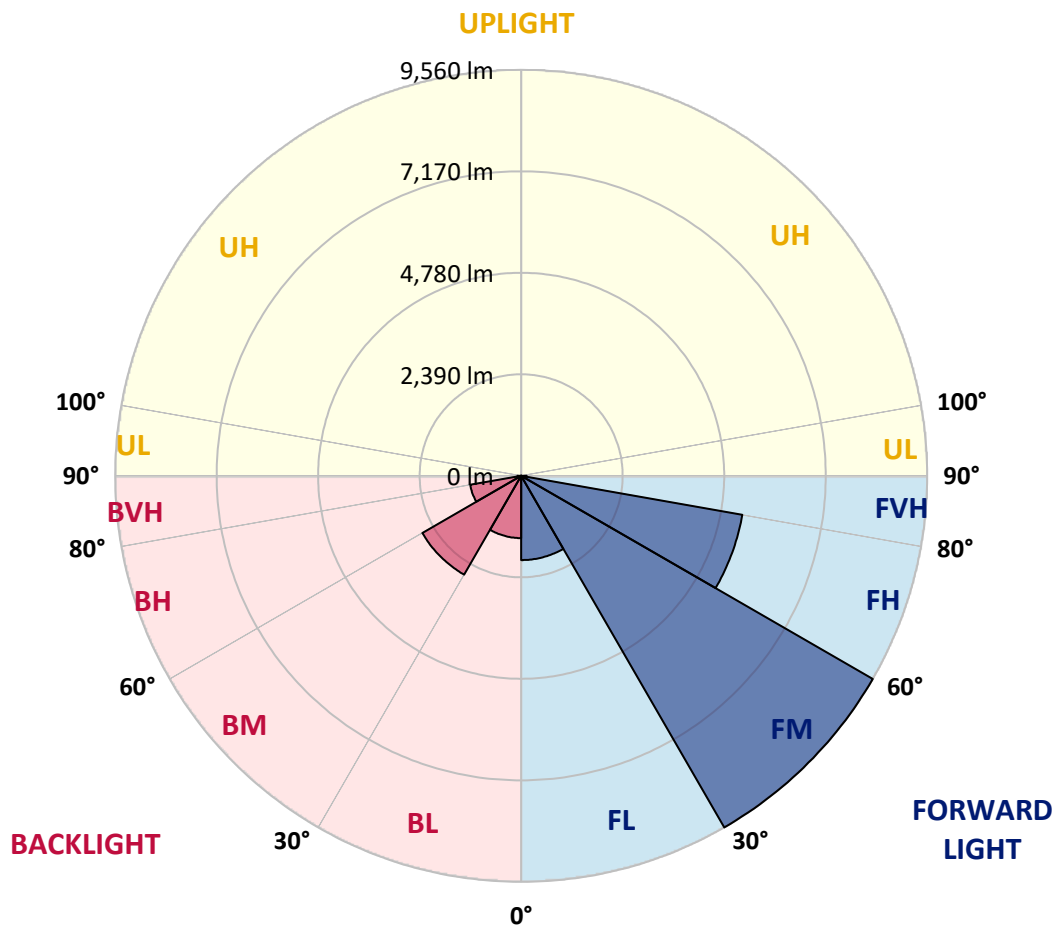
CATALOG NUMBER: ARCH4-130-740-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1984.4	8.9			
FM	(30°-60°)	9560.4	42.6			
FH	(60°-80°)	5287.0	23.6			G3/7500
FVH	(80°-90°)	127.5	0.6			G2/225
BL	(0°-30°)	1467.4	6.5	B3/2500		
BM	(30°-60°)	2687.8	12.0	B3/5000		
BH	(60°-80°)	1218.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	85.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P1210981

CATALOG NUMBER: ARCH4-130-740-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2
2.5°	3663.7	3657.9	3669.4	3686.8	3695.4	3681.0	3675.2	3672.3	3672.3	3663.7	3678.1
5°	3490.6	3487.7	3513.7	3545.4	3606.0	3649.3	3707.0	3741.6	3730.0	3712.7	3724.3
7.5°	3265.6	3259.8	3291.5	3352.1	3435.8	3531.0	3672.3	3782.0	3825.2	3819.5	3816.6
10°	3352.1	3346.4	3343.5	3326.2	3355.0	3447.3	3594.4	3787.7	3934.9	3937.7	3940.6
12.5°	3652.1	3666.6	3652.1	3597.3	3533.9	3499.2	3585.8	3802.2	4027.2	4044.5	4116.6
15°	4061.8	4047.4	4018.5	3955.0	3857.0	3753.1	3689.6	3868.5	4159.9	4174.3	4333.0
17.5°	4422.4	4433.9	4416.6	4356.0	4240.6	4105.1	3911.8	3983.9	4301.2	4341.6	4563.7
20°	4814.7	4860.9	4837.8	4762.8	4667.6	4465.7	4223.3	4151.2	4457.0	4485.8	4803.2
22.5°	5267.6	5316.7	5273.4	5201.3	5123.4	4875.3	4563.7	4356.0	4586.8	4647.4	5034.0
25°	5810.0	5856.1	5815.7	5703.2	5605.1	5302.2	4930.1	4586.8	4713.7	4780.1	5221.5
27.5°	6239.8	6274.4	6311.9	6245.6	6095.6	5781.1	5310.9	4826.2	4840.7	4909.9	5394.6
30°	6623.5	6710.0	6741.7	6750.4	6623.5	6271.5	5700.3	5074.3	4950.3	5022.4	5567.6
32.5°	7148.5	7278.3	7226.4	7278.3	7203.3	6733.1	6104.2	5331.1	5091.7	5158.0	5732.1
35°	7915.9	8019.7	7884.1	7843.7	7722.6	7200.4	6493.7	5596.5	5279.2	5351.3	5887.9
37.5°	8740.9	8859.2	8663.0	8501.5	8270.7	7662.0	6828.3	5945.5	5538.8	5596.5	6032.1
40°	9462.1	9560.2	9390.0	9176.5	8789.9	8068.8	7116.8	6190.8	5798.4	5870.5	6199.4
42.5°	10128.5	10192.0	10001.6	9796.7	9280.4	8435.1	7428.3	6450.4	6101.3	6170.6	6335.0
45°	10803.5	10852.6	10587.2	10295.8	9690.0	8769.8	7771.6	6813.9	6545.6	6637.9	6554.2
47.5°	10924.7	10939.1	10893.0	10696.8	10013.1	9090.0	8195.7	7301.4	7223.5	7324.5	6932.1
50°	10085.2	10215.0	10500.6	10693.9	10142.9	9358.3	8619.7	7999.5	8158.2	8288.0	7716.8
52.5°	8455.3	8579.4	9240.0	9972.7	9831.4	9418.8	9075.5	8885.1	9476.5	9632.3	8784.2
55°	6736.0	6845.6	7543.7	8599.6	8824.6	9141.9	9563.1	10016.0	11158.4	11262.2	9955.4
57.5°	5547.4	5608.0	6107.1	7122.5	7483.1	8256.3	9825.6	11360.3	12869.0	13027.7	10973.7
60°	4549.3	4615.7	4987.8	5824.4	6303.3	6989.8	9617.9	12687.3	14911.5	14911.5	12280.5
62.5°	3424.2	3481.9	3828.1	4483.0	5287.8	5916.7	8954.4	13567.2	16451.9	16382.7	13226.8
65°	2351.1	2397.3	2648.2	3083.8	3807.9	5042.6	8048.6	13578.7	17473.2	17380.8	13630.6
66°	1973.2	2013.6	2227.1	2579.0	3187.7	4575.3	7728.3	13333.5	17686.6	17556.8	13460.4
67.5°	1557.8	1586.6	1728.0	1935.7	2336.7	3704.1	7223.5	12638.3	17666.4	17588.6	13027.7
70°	1113.5	1133.7	1237.6	1280.8	1381.8	2143.4	5737.8	11068.9	16250.0	16273.1	11325.7
72.5°	862.6	894.3	957.7	966.4	943.3	1139.5	3481.9	9234.2	13293.1	13284.4	8406.3
75°	695.2	712.5	744.3	761.6	755.8	735.6	1474.1	6888.9	9150.5	9257.3	4708.0
77.5°	548.1	545.2	574.1	597.2	614.5	577.0	675.0	4038.7	4797.4	4661.8	1768.4
80°	403.9	403.9	444.3	452.9	478.9	484.6	450.0	1557.8	1647.2	1497.2	458.7
82.5°	265.4	265.4	308.7	314.4	340.4	377.9	326.0	467.3	455.8	432.7	207.7
85°	144.2	138.5	152.9	173.1	187.5	222.1	196.2	233.7	239.4	236.6	138.5
87.5°	28.8	26.0	40.4	46.2	51.9	69.2	63.5	95.2	132.7	129.8	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210981

CATALOG NUMBER: ARCH4-130-740-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2	3675.2
2.5°	3698.3	3695.4	3727.1	3764.6	3807.9	3833.9	3845.4	3865.6	3851.2	3857.0	3874.3
5°	3753.1	3761.8	3807.9	3857.0	3877.2	3862.7	3831.0	3819.5	3793.5	3787.7	3782.0
7.5°	3833.9	3848.3	3894.5	3906.0	3845.4	3744.5	3672.3	3631.9	3588.7	3577.1	3571.4
10°	3966.6	3975.2	3986.8	3868.5	3718.5	3582.9	3493.5	3456.0	3427.1	3404.0	3409.8
12.5°	4133.9	4128.1	4038.7	3793.5	3580.0	3441.6	3381.0	3357.9	3337.7	3323.3	3320.4
15°	4344.5	4304.1	4047.4	3689.6	3450.2	3334.8	3291.5	3282.9	3259.8	3259.8	3256.9
17.5°	4558.0	4454.1	4041.6	3580.0	3326.2	3262.7	3236.7	3231.0	3225.2	3222.3	3231.0
20°	4771.4	4586.8	3995.4	3444.4	3239.6	3202.1	3196.3	3199.2	3193.5	3202.1	3196.3
22.5°	4958.9	4673.4	3908.9	3300.2	3179.0	3176.2	3161.7	3167.5	3187.7	3190.6	3199.2
25°	5103.2	4705.1	3782.0	3167.5	3135.8	3130.0	3147.3	3170.4	3187.7	3190.6	3205.0
27.5°	5221.5	4687.8	3623.3	3063.6	3060.8	3092.5	3144.4	3153.1	3156.0	3156.0	3144.4
30°	5310.9	4650.3	3421.4	2948.3	2962.7	3040.6	3089.6	3089.6	3066.5	3060.8	3078.1
32.5°	5331.1	4601.2	3202.1	2830.0	2853.1	2945.4	3005.9	2985.8	2959.8	2959.8	2971.3
35°	5348.4	4534.9	3026.1	2668.4	2703.0	2812.7	2870.4	2830.0	2801.1	2792.5	2789.6
37.5°	5342.6	4508.9	2867.5	2463.6	2509.8	2616.5	2654.0	2616.5	2573.2	2553.0	2579.0
40°	5348.4	4491.6	2668.4	2238.6	2284.8	2348.2	2397.3	2368.4	2328.0	2276.1	2302.1
42.5°	5383.0	4514.7	2449.2	2019.4	2019.4	2054.0	2137.6	2117.4	2019.4	1999.2	2022.2
45°	5567.6	4638.7	2229.9	1800.1	1768.4	1791.5	1878.0	1791.5	1730.9	1730.9	1751.1
47.5°	6014.8	4869.5	2036.7	1606.8	1531.8	1578.0	1601.1	1520.3	1474.1	1462.6	1482.8
50°	6926.4	5331.1	1921.3	1448.2	1355.9	1390.5	1376.0	1373.2	1327.0	1332.8	1344.3
52.5°	8311.1	6231.1	1886.7	1370.3	1254.9	1263.5	1249.1	1254.9	1246.2	1275.1	1283.7
55°	9819.8	7180.2	1929.9	1381.8	1185.6	1125.1	1130.8	1159.7	1194.3	1240.5	1249.1
57.5°	10947.8	7656.2	2042.4	1459.7	1099.1	1006.8	1021.2	1076.0	1142.4	1179.9	1200.1
60°	11787.2	7598.5	2206.9	1479.9	995.3	900.1	926.0	1006.8	1064.5	1096.2	1116.4
62.5°	12061.3	7237.9	2247.2	1332.8	859.7	799.1	862.6	946.2	972.2	1006.8	1021.2
65°	11836.3	6727.3	1953.0	1081.8	755.8	724.1	816.4	879.9	914.5	931.8	934.7
66°	11570.9	6421.5	1794.3	983.7	718.3	701.0	799.1	851.0	885.6	882.7	885.6
67.5°	10988.2	5781.1	1537.6	845.2	663.5	666.4	770.2	804.9	816.4	807.7	807.7
70°	9006.3	4070.4	1102.0	640.4	582.7	623.1	692.3	701.0	727.0	715.4	715.4
72.5°	5553.2	1999.2	738.5	490.4	519.3	582.7	579.8	608.7	669.3	686.6	698.1
75°	2729.0	810.6	487.5	415.4	464.5	487.5	481.8	553.9	640.4	715.4	741.4
77.5°	1035.6	403.9	340.4	363.5	375.0	366.4	383.7	502.0	640.4	776.0	802.0
80°	320.2	279.8	268.3	300.0	282.7	268.3	288.5	415.4	542.3	588.5	588.5
82.5°	193.3	219.2	207.7	204.8	190.4	193.3	207.7	297.1	418.3	438.5	438.5
85°	135.6	144.2	118.3	112.5	109.6	106.7	106.7	173.1	248.1	245.2	253.9
87.5°	51.9	57.7	43.3	43.3	40.4	28.8	23.1	28.8	28.8	20.2	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

(END OF REPORT)