

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: P841973

Luminaire Tested: **ARCH4-250-740-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26847 lumens
Efficiency: N/A
Efficacy: 107.6 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

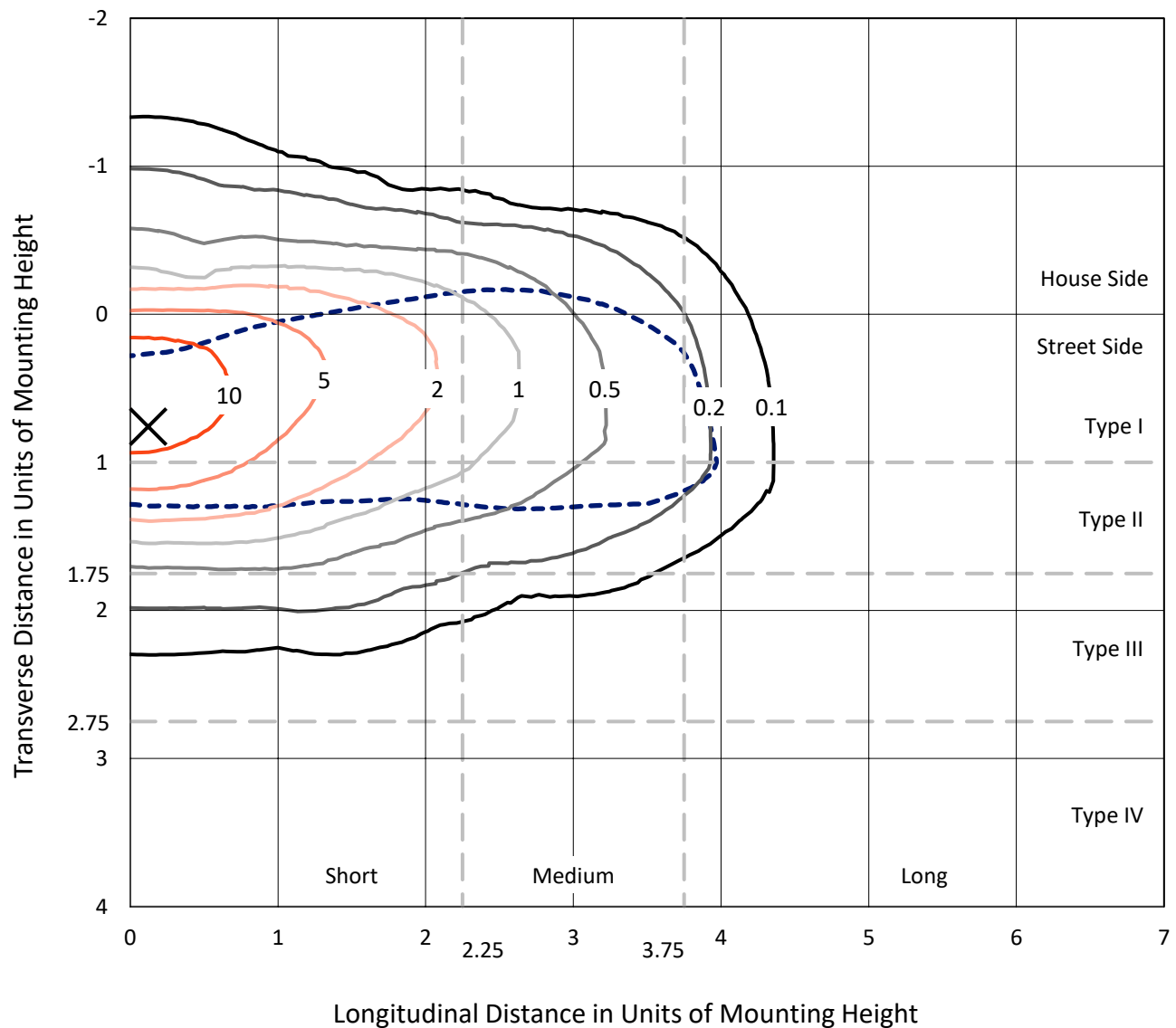
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841973
CATALOG NUMBER: ARCH4-250-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

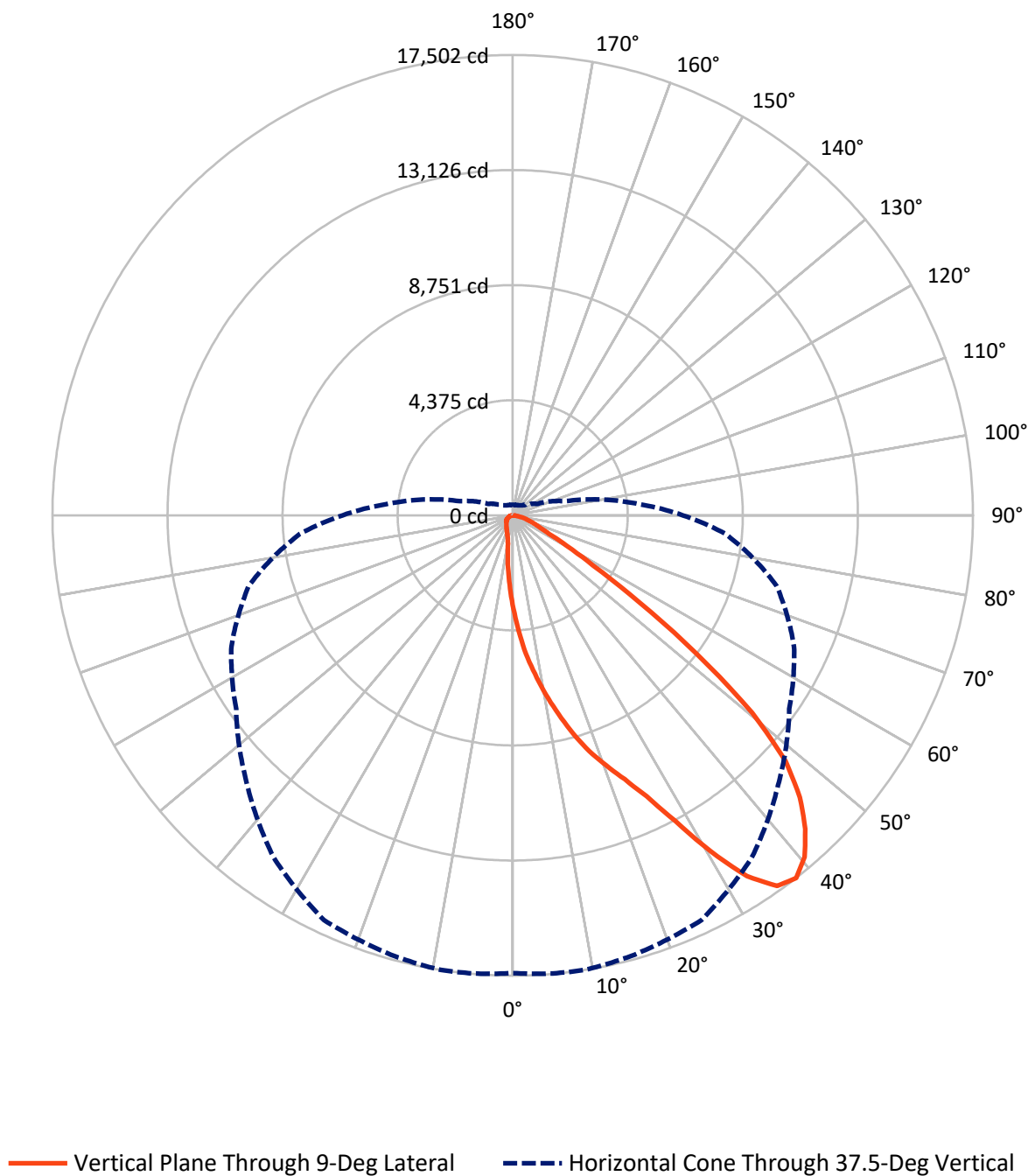
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
Type II - Short - N/A

REPORT NUMBER: P841973
CATALOG NUMBER: ARCH4-250-740-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841973

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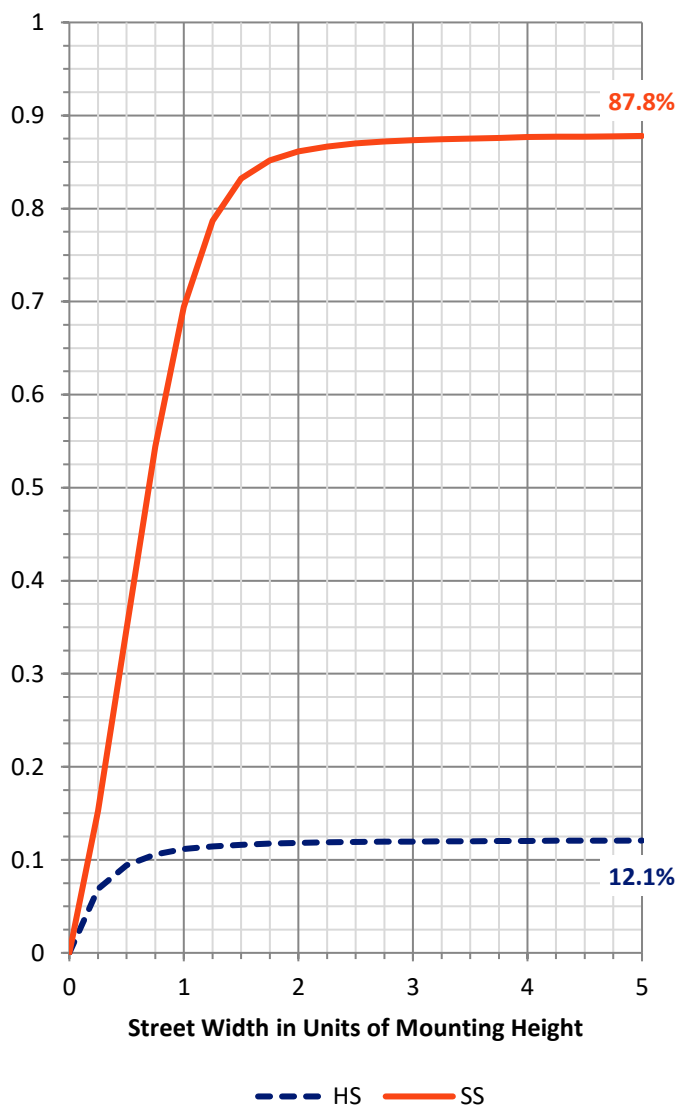
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.1	0.0	3265.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23581.9	0.0	23581.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	26847.0	0.0	26847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	1.3
10°-20°	1239.8	4.6
20°-30°	2547.5	9.5
30°-40°	4503.0	16.8
40°-50°	5981.8	22.3
50°-60°	5673.4	21.1
60°-70°	4328.3	16.1
70°-80°	2098.3	7.8
80°-90°	118.1	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°	26847.0	100.0
0°-180°	26847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841973

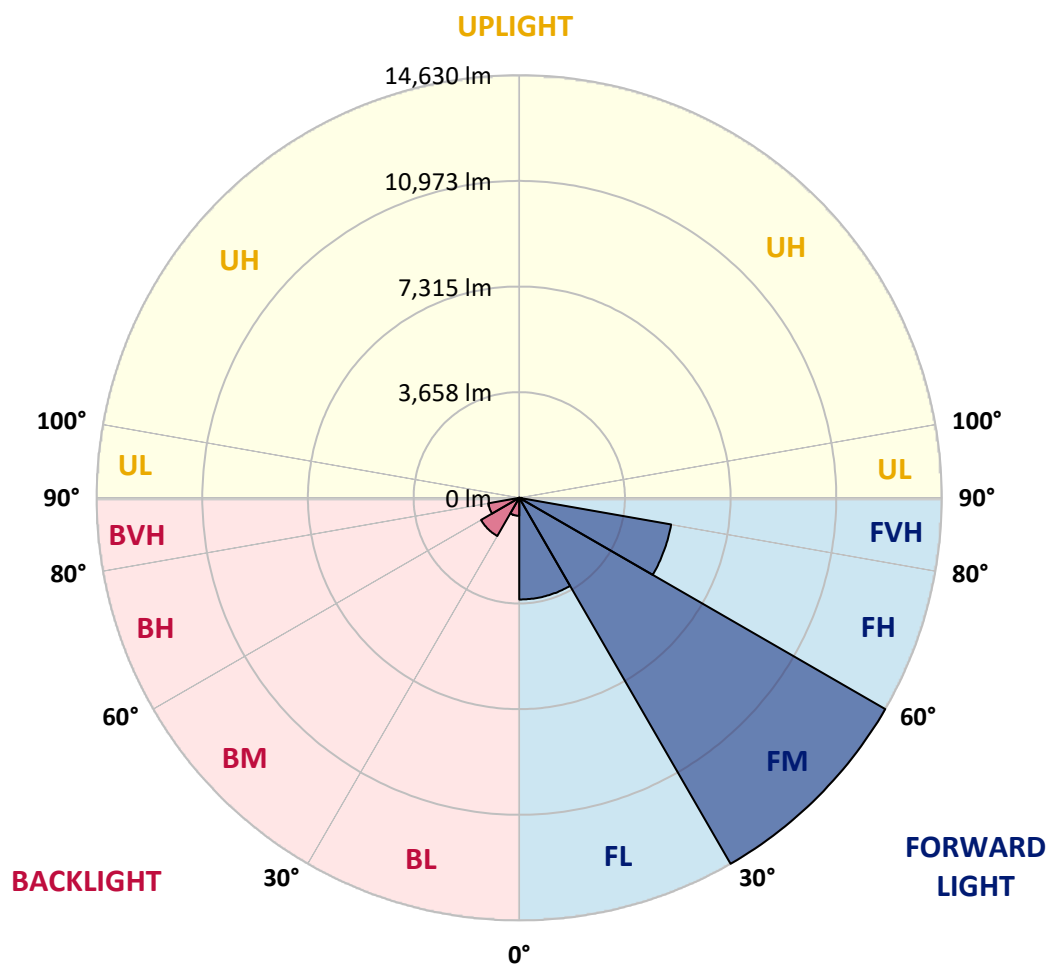
CATALOG NUMBER: ARCH4-250-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3521.0	13.1			
FM	(30°-60°)	14630.3	54.5			
FH	(60°-80°)	5337.1	19.9			G3/7500
FVH	(80°-90°)	93.5	0.3			G1/100
BL	(0°-30°)	623.1	2.3	B2/1000		
BM	(30°-60°)	1527.8	5.7	B2/2500		
BH	(60°-80°)	1089.5	4.1	B3/2500		G3/2500
BVH	(80°-90°)	24.6	0.1			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: P841973

CATALOG NUMBER: ARCH4-250-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8
2.5°	4397.5	4320.3	4408.5	4397.5	4320.3	4270.7	4116.4	4066.8	3885.0	3752.7	3637.0
5°	5301.2	5224.1	5301.2	5279.2	5169.0	5047.7	4794.3	4628.9	4303.8	4017.3	3758.3
7.5°	6050.7	6050.7	6083.7	6089.3	5957.0	5769.6	5455.5	5207.5	4750.2	4309.3	3896.0
10°	6860.7	6866.3	6937.9	6888.3	6712.0	6458.5	6061.7	5747.6	5196.5	4617.9	4028.3
12.5°	7725.9	7731.4	7753.5	7731.4	7522.0	7196.9	6717.5	6304.2	5670.4	4970.6	4210.1
15°	8591.1	8596.6	8624.1	8585.6	8354.1	7973.9	7428.3	6921.4	6171.9	5367.4	4430.6
17.5°	9401.1	9412.2	9434.2	9384.6	9142.1	8690.3	8133.7	7522.0	6706.4	5791.7	4678.5
20°	10128.5	10139.6	10156.1	10090.0	9847.5	9395.6	8795.0	8155.7	7252.0	6227.0	4948.5
22.5°	10861.5	10872.5	10900.0	10811.9	10541.8	10023.8	9434.2	8772.9	7830.6	6706.4	5262.7
25°	11798.3	11809.3	11831.3	11704.6	11335.4	10729.2	10106.5	9428.7	8458.8	7246.5	5648.4
27.5°	13170.4	13159.4	13159.4	12927.9	12294.2	11506.2	10784.3	10095.5	9136.6	7825.1	6072.7
30°	14867.7	14840.1	14823.6	14509.5	13605.8	12382.4	11478.7	10718.2	9786.9	8436.8	6530.1
32.5°	16388.6	16388.6	16355.6	16024.9	15066.1	13561.7	12217.1	11324.4	10415.1	9054.0	7004.0
35°	17286.9	17325.4	17308.9	17060.9	16361.1	14829.1	13214.5	12051.8	11076.4	9698.7	7571.6
37.5°	17408.1	17485.2	17501.8	17353.0	16983.8	15865.1	14322.1	12839.8	11803.8	10393.1	8122.7
40°	16917.6	17083.0	17083.0	17060.9	16928.7	16355.6	15253.4	13754.5	12553.2	11114.9	8679.2
42.5°	16162.7	16333.5	16311.5	16394.1	16361.1	16239.8	15776.9	14608.7	13302.7	11858.9	9186.2
45°	15176.3	15352.6	15308.5	15457.3	15523.5	15655.7	15721.8	15203.8	14041.1	12668.9	9753.8
47.5°	13594.7	13892.3	13958.4	14222.9	14498.5	14911.8	15225.9	15418.8	14729.9	13539.6	10371.0
50°	11258.2	11677.0	11809.3	12365.9	13120.8	13975.0	14481.9	15154.2	15214.9	14432.4	11037.8
52.5°	8062.1	8547.0	8750.9	9665.7	11219.7	12707.5	13622.3	14570.1	15402.2	15286.5	11759.7
55°	5213.1	5626.4	5824.7	6684.4	8750.9	11087.4	12608.3	13815.2	15297.5	16069.0	12586.3
57.5°	3212.7	3449.7	3581.9	4320.3	6221.5	9009.9	11280.3	13120.8	14977.9	16746.8	13445.9
60°	2165.7	2303.4	2369.6	2716.7	4226.7	6734.0	9456.2	12393.4	14559.1	17204.2	14228.5
62.5°	1438.3	1482.4	1548.5	1763.4	2788.4	4728.1	7263.0	11092.9	14245.0	17231.8	14807.1
65°	1113.1	1135.2	1162.7	1256.4	1719.3	3306.4	5108.4	8987.8	13776.6	16647.6	14988.9
67.5°	876.2	898.2	931.3	980.9	1245.4	2242.8	3477.2	6585.2	12817.7	15732.9	14691.4
70°	688.8	705.4	727.4	771.5	969.9	1625.6	2297.9	4375.4	10883.5	14862.2	13754.5
72.5°	545.6	562.1	584.1	628.2	788.0	1190.3	1576.0	2727.8	8392.7	13798.6	11952.6
75°	429.8	440.9	457.4	501.5	633.7	925.8	1069.1	1631.1	5703.5	11853.4	9313.0
77.5°	214.9	264.5	303.1	347.2	462.9	639.2	710.9	903.7	2408.1	6083.7	4441.6
80°	126.7	154.3	165.3	192.9	303.1	385.7	385.7	363.7	760.5	2336.5	1813.0
82.5°	71.6	99.2	104.7	110.2	181.9	220.4	176.3	132.3	154.3	782.5	529.0
85°	22.0	33.1	38.6	44.1	60.6	66.1	60.6	55.1	44.1	77.1	49.6
87.5°	0.0	0.0	0.0	0.0	5.5	11.0	11.0	11.0	16.5	16.5	16.5
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: P841973

CATALOG NUMBER: ARCH4-250-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8	3548.8
2.5°	3570.9	3499.3	3361.5	3234.7	3113.5	3025.3	2942.7	2865.5	2810.4	2766.3	2760.8
5°	3620.5	3477.2	3212.7	2964.7	2738.8	2551.4	2391.6	2264.9	2171.2	2105.1	2099.6
7.5°	3686.6	3466.2	3063.9	2694.7	2358.6	2088.5	1857.1	1686.3	1565.0	1515.4	1476.9
10°	3741.7	3455.2	2915.1	2424.7	1983.8	1642.2	1366.6	1195.8	1107.6	1074.6	1058.0
12.5°	3835.4	3466.2	2788.4	2176.7	1658.7	1256.4	1047.0	953.3	914.8	887.2	881.7
15°	3973.2	3515.8	2667.1	1934.2	1328.1	1014.0	892.7	832.1	793.5	788.0	782.5
17.5°	4110.9	3559.9	2556.9	1686.3	1102.1	881.7	799.0	749.4	721.9	716.4	716.4
20°	4270.7	3615.0	2435.7	1449.3	942.3	793.5	727.4	688.8	655.8	650.3	650.3
22.5°	4458.1	3692.1	2320.0	1239.9	837.6	727.4	672.3	628.2	600.7	595.1	595.1
25°	4711.6	3807.8	2226.3	1085.6	766.0	672.3	622.7	584.1	562.1	551.1	551.1
27.5°	4992.6	3967.7	2160.2	991.9	716.4	628.2	578.6	545.6	523.5	512.5	512.5
30°	5306.7	4144.0	2116.1	953.3	688.8	589.6	545.6	512.5	484.9	479.4	479.4
32.5°	5653.9	4347.9	2088.5	958.9	683.3	562.1	512.5	479.4	457.4	446.4	446.4
35°	6039.7	4573.8	2072.0	991.9	694.3	540.0	484.9	451.9	429.8	418.8	418.8
37.5°	6469.5	4838.3	2072.0	1025.0	721.9	534.5	457.4	424.3	407.8	396.8	396.8
40°	6871.8	5119.4	2094.0	1063.6	749.4	534.5	435.3	407.8	385.7	374.7	374.7
42.5°	7185.9	5279.2	2110.6	1102.1	766.0	529.0	413.3	385.7	369.2	358.2	358.2
45°	7544.1	5450.0	2077.5	1118.7	766.0	518.0	396.8	369.2	352.7	341.7	341.7
47.5°	7940.8	5659.4	2072.0	1129.7	749.4	496.0	380.2	352.7	341.7	330.6	330.6
50°	8343.1	5890.9	2083.0	1124.2	727.4	462.9	358.2	341.7	325.1	314.1	314.1
52.5°	8800.5	6133.3	2105.1	1113.1	677.8	424.3	341.7	325.1	308.6	297.6	292.1
55°	9307.5	6397.8	2149.1	1091.1	611.7	385.7	325.1	308.6	286.6	275.5	270.0
57.5°	9891.6	6723.0	2198.7	1047.0	540.0	352.7	308.6	286.6	253.5	237.0	231.4
60°	10448.2	7092.2	2253.8	942.3	468.4	319.6	292.1	259.0	225.9	214.9	209.4
62.5°	10971.7	7455.9	2281.4	755.0	396.8	292.1	275.5	237.0	203.9	192.9	187.4
65°	11307.8	7852.7	2220.8	512.5	325.1	270.0	253.5	220.4	187.4	170.8	170.8
67.5°	11329.9	8040.0	2011.4	336.1	264.5	242.5	231.4	198.4	165.3	154.3	148.8
70°	10773.3	7759.0	1537.5	264.5	220.4	209.4	209.4	176.3	143.3	132.3	126.7
72.5°	9494.8	6871.8	980.9	214.9	187.4	176.3	176.3	148.8	126.7	110.2	104.7
75°	7494.5	5301.2	523.5	176.3	154.3	148.8	137.8	121.2	104.7	93.7	88.2
77.5°	3444.1	2336.5	242.5	126.7	115.7	115.7	104.7	88.2	82.7	71.6	71.6
80°	1361.1	793.5	121.2	82.7	77.1	77.1	77.1	60.6	60.6	49.6	44.1
82.5°	374.7	165.3	60.6	49.6	49.6	49.6	44.1	38.6	38.6	33.1	33.1
85°	38.6	27.6	27.6	27.6	27.6	22.0	22.0	16.5	11.0	11.0	11.0
87.5°	16.5	16.5	16.5	16.5	16.5	11.0	5.5	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)