

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: P842054

Luminaire Tested: **ARCH4-260-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842054
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: ARCH4-260-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA 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: 27605 lumens
Efficiency: N/A
Efficacy: 106.5 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): 259.2
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

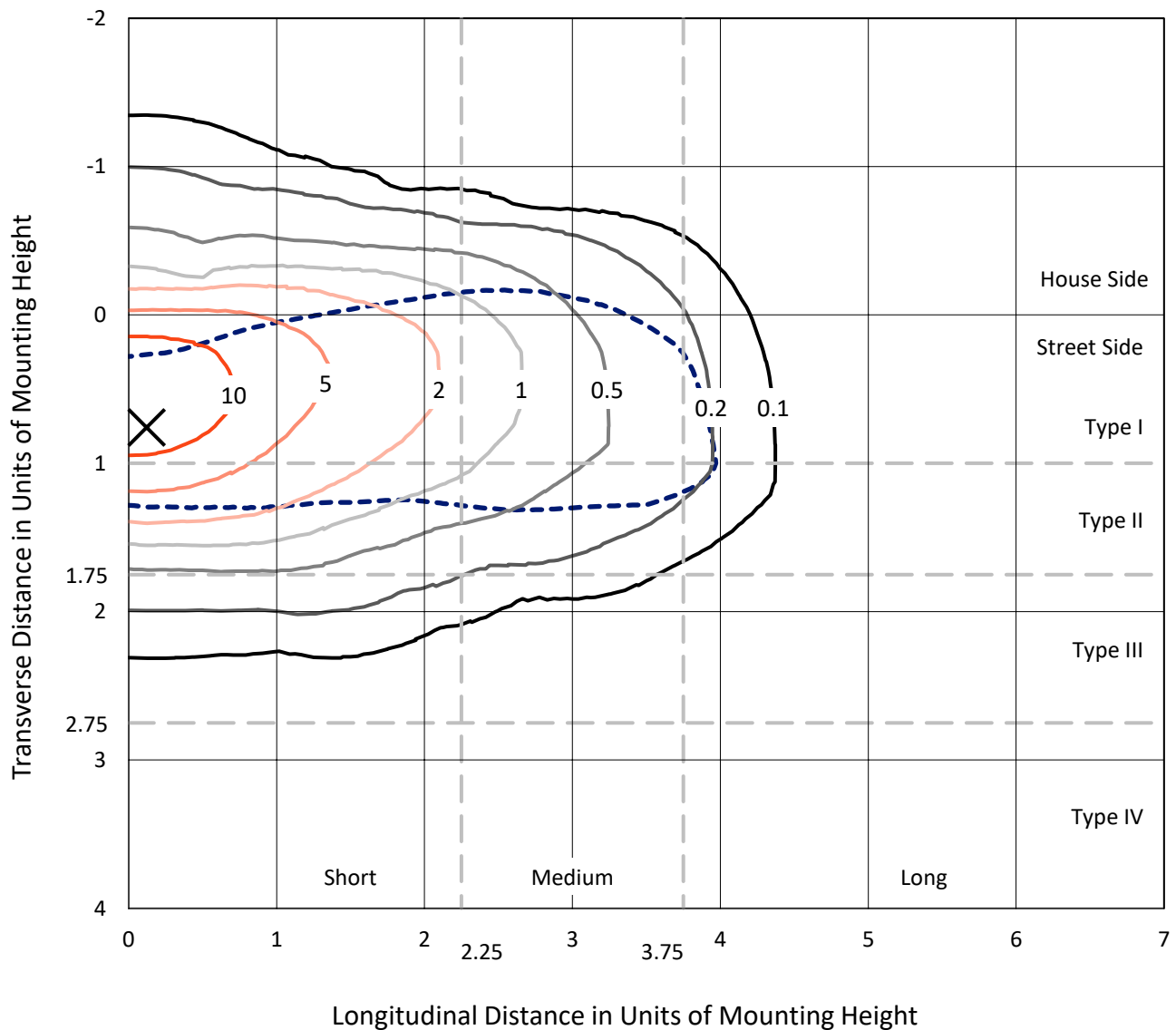


REPORT NUMBER: P842054

CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

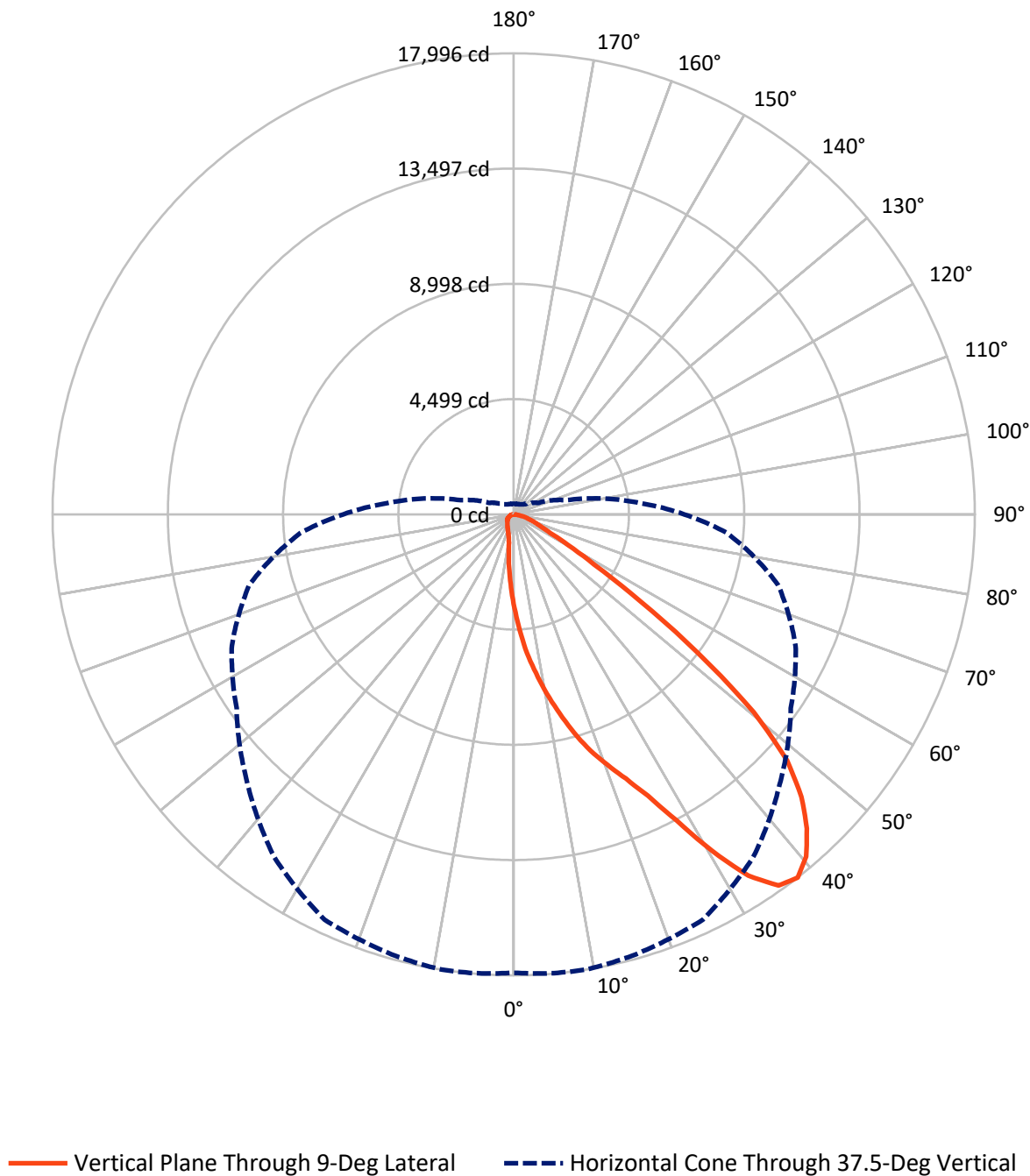


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc

Type II - Short - N/A

REPORT NUMBER: P842054
CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842054

CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

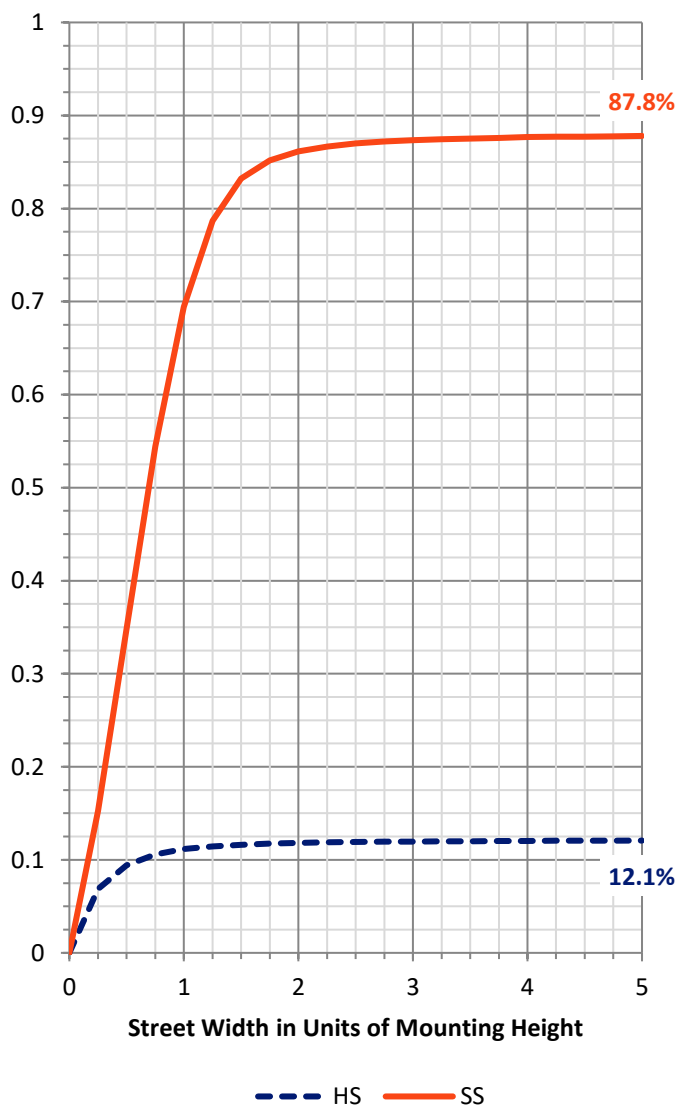
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.3	0.0	3357.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	24247.7	0.0	24247.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	27605.0	0.0	27605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.3
10°-20°	1274.8	4.6
20°-30°	2619.5	9.5
30°-40°	4630.1	16.8
40°-50°	6150.7	22.3
50°-60°	5833.5	21.1
60°-70°	4450.5	16.1
70°-80°	2157.6	7.8
80°-90°	121.4	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°	27605.0	100.0
0°-180°	27605.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842054

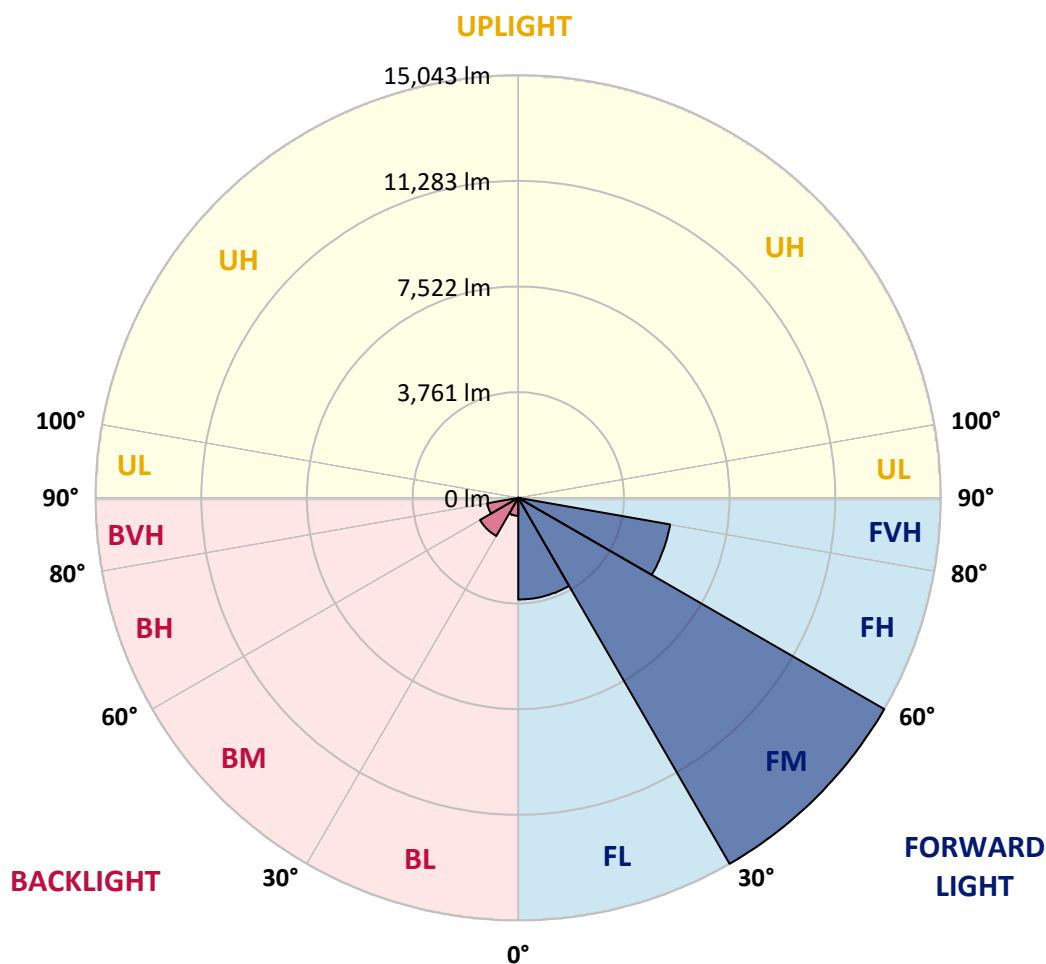
CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3620.4	13.1			
FM	(30°-60°)	15043.4	54.5			
FH	(60°-80°)	5487.8	19.9			G3/7500
FVH	(80°-90°)	96.2	0.3			G1/100
BL	(0°-30°)	640.7	2.3	B2/1000		
BM	(30°-60°)	1571.0	5.7	B2/2500		
BH	(60°-80°)	1120.3	4.1	B3/2500		G3/2500
BVH	(80°-90°)	25.3	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: P842054

CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0
2.5°	4521.6	4442.3	4533.0	4521.6	4442.3	4391.3	4232.7	4181.7	3994.7	3858.7	3739.7
5°	5450.9	5371.6	5450.9	5428.2	5314.9	5190.3	4929.6	4759.6	4425.3	4130.7	3864.4
7.5°	6221.5	6221.5	6255.5	6261.2	6125.2	5932.5	5609.6	5354.6	4884.3	4431.0	4006.0
10°	7054.4	7060.1	7133.8	7082.8	6901.5	6640.8	6232.8	5909.9	5343.2	4748.3	4142.0
12.5°	7944.0	7949.7	7972.4	7949.7	7734.4	7400.1	6907.1	6482.2	5830.5	5110.9	4329.0
15°	8833.6	8839.3	8867.6	8828.0	8590.0	8199.0	7638.1	7116.8	6346.2	5518.9	4555.6
17.5°	9666.6	9677.9	9700.6	9649.6	9400.3	8935.6	8363.3	7734.4	6895.8	5955.2	4810.6
20°	10414.5	10425.8	10442.8	10374.9	10125.5	9660.9	9043.3	8386.0	7456.7	6402.8	5088.3
22.5°	11168.1	11179.5	11207.8	11117.1	10839.5	10306.9	9700.6	9020.6	8051.7	6895.8	5411.2
25°	12131.4	12142.7	12165.4	12035.1	11655.4	11032.1	10391.9	9694.9	8697.7	7451.1	5807.9
27.5°	13542.3	13530.9	13530.9	13293.0	12641.3	11831.1	11088.8	10380.5	9394.6	8046.0	6244.2
30°	15287.5	15259.1	15242.1	14919.2	13989.9	12732.0	11802.7	11020.8	10063.2	8675.0	6714.5
32.5°	16851.3	16851.3	16817.3	16477.4	15491.5	13944.6	12562.0	11644.1	10709.2	9309.6	7201.8
35°	17774.9	17814.6	17797.6	17542.6	16823.0	15247.8	13587.6	12392.0	11389.1	9972.6	7785.4
37.5°	17899.6	17978.9	17995.9	17842.9	17463.3	16313.1	14726.5	13202.3	12137.0	10686.5	8352.0
40°	17395.3	17565.3	17565.3	17542.6	17406.6	16817.3	15684.1	14142.9	12907.7	11428.8	8924.3
42.5°	16619.0	16794.7	16772.0	16857.0	16823.0	16698.4	16222.4	15021.2	13678.3	12193.7	9445.6
45°	15604.8	15786.1	15740.8	15893.8	15961.7	16097.7	16165.7	15633.1	14437.5	13026.6	10029.2
47.5°	13978.6	14284.5	14352.5	14624.5	14907.8	15332.8	15655.8	15854.1	15145.8	13921.9	10663.8
50°	11576.1	12006.7	12142.7	12715.0	13491.3	14369.5	14890.8	15582.1	15644.4	14839.8	11349.4
52.5°	8289.7	8788.3	8998.0	9938.6	11536.4	13066.3	14006.9	14981.5	15837.1	15718.1	12091.7
55°	5360.2	5785.2	5989.2	6873.1	8998.0	11400.4	12964.3	14205.2	15729.4	16522.7	12941.7
57.5°	3303.4	3547.1	3683.0	4442.3	6397.2	9264.3	11598.8	13491.3	15400.8	17219.6	13825.6
60°	2226.8	2368.5	2436.5	2793.4	4346.0	6924.1	9723.2	12743.3	14970.2	17689.9	14630.2
62.5°	1478.9	1524.2	1592.2	1813.2	2867.1	4861.6	7468.1	11406.1	14647.2	17718.3	15225.1
65°	1144.6	1167.2	1195.6	1291.9	1767.9	3399.7	5252.6	9241.6	14165.6	17117.7	15412.1
67.5°	900.9	923.6	957.6	1008.6	1280.6	2306.2	3575.4	6771.1	13179.6	16177.1	15106.1
70°	708.3	725.3	747.9	793.3	997.3	1671.5	2362.8	4499.0	11190.8	15281.8	14142.9
72.5°	561.0	578.0	600.6	645.9	810.3	1223.9	1620.5	2804.8	8629.7	14188.2	12290.0
75°	442.0	453.3	470.3	515.6	651.6	951.9	1099.2	1677.2	5864.5	12188.0	9575.9
77.5°	221.0	272.0	311.6	357.0	476.0	657.3	730.9	929.3	2476.1	6255.5	4567.0
80°	130.3	158.7	170.0	198.3	311.6	396.6	396.6	374.0	781.9	2402.5	1864.2
82.5°	73.7	102.0	107.7	113.3	187.0	226.6	181.3	136.0	158.7	804.6	544.0
85°	22.7	34.0	39.7	45.3	62.3	68.0	62.3	56.7	45.3	79.3	51.0
87.5°	0.0	0.0	0.0	0.0	5.7	11.3	11.3	11.3	17.0	17.0	17.0
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: P842054

CATALOG NUMBER: ARCH4-260-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0
2.5°	3671.7	3598.1	3456.4	3326.1	3201.4	3110.8	3025.8	2946.4	2889.8	2844.4	2838.8
5°	3722.7	3575.4	3303.4	3048.4	2816.1	2623.5	2459.1	2328.8	2232.5	2164.5	2158.8
7.5°	3790.7	3564.1	3150.4	2770.8	2425.1	2147.5	1909.5	1733.9	1609.2	1558.2	1518.5
10°	3847.4	3552.7	2997.4	2493.1	2039.8	1688.5	1405.2	1229.6	1138.9	1104.9	1087.9
12.5°	3943.7	3564.1	2867.1	2238.2	1705.5	1291.9	1076.6	980.3	940.6	912.3	906.6
15°	4085.3	3615.0	2742.5	1988.8	1365.6	1042.6	917.9	855.6	815.9	810.3	804.6
17.5°	4227.0	3660.4	2629.1	1733.9	1133.2	906.6	821.6	770.6	742.3	736.6	736.6
20°	4391.3	3717.0	2504.5	1490.2	968.9	815.9	747.9	708.3	674.3	668.6	668.6
22.5°	4584.0	3796.4	2385.5	1274.9	861.3	747.9	691.3	645.9	617.6	612.0	612.0
25°	4844.6	3915.4	2289.2	1116.2	787.6	691.3	640.3	600.6	578.0	566.6	566.6
27.5°	5133.6	4079.7	2221.2	1019.9	736.6	645.9	595.0	561.0	538.3	527.0	527.0
30°	5456.6	4261.0	2175.8	980.3	708.3	606.3	561.0	527.0	498.6	493.0	493.0
32.5°	5813.5	4470.6	2147.5	985.9	702.6	578.0	527.0	493.0	470.3	459.0	459.0
35°	6210.2	4703.0	2130.5	1019.9	713.9	555.3	498.6	464.6	442.0	430.6	430.6
37.5°	6652.1	4974.9	2130.5	1053.9	742.3	549.6	470.3	436.3	419.3	408.0	408.0
40°	7065.8	5263.9	2153.2	1093.6	770.6	549.6	447.6	419.3	396.6	385.3	385.3
42.5°	7388.8	5428.2	2170.2	1133.2	787.6	544.0	425.0	396.6	379.6	368.3	368.3
45°	7757.1	5603.9	2136.2	1150.2	787.6	532.6	408.0	379.6	362.6	351.3	351.3
47.5°	8165.0	5819.2	2130.5	1161.6	770.6	510.0	391.0	362.6	351.3	340.0	340.0
50°	8578.7	6057.2	2141.8	1155.9	747.9	476.0	368.3	351.3	334.3	323.0	323.0
52.5°	9049.0	6306.5	2164.5	1144.6	696.9	436.3	351.3	334.3	317.3	306.0	300.3
55°	9570.2	6578.5	2209.8	1121.9	629.0	396.6	334.3	317.3	294.6	283.3	277.6
57.5°	10170.9	6912.8	2260.8	1076.6	555.3	362.6	317.3	294.6	260.6	243.6	238.0
60°	10743.2	7292.4	2317.5	968.9	481.6	328.6	300.3	266.3	232.3	221.0	215.3
62.5°	11281.4	7666.4	2345.8	776.3	408.0	300.3	283.3	243.6	209.7	198.3	192.7
65°	11627.1	8074.4	2283.5	527.0	334.3	277.6	260.6	226.6	192.7	175.7	175.7
67.5°	11649.8	8267.0	2068.2	345.6	272.0	249.3	238.0	204.0	170.0	158.7	153.0
70°	11077.5	7978.0	1580.9	272.0	226.6	215.3	215.3	181.3	147.3	136.0	130.3
72.5°	9762.9	7065.8	1008.6	221.0	192.7	181.3	181.3	153.0	130.3	113.3	107.7
75°	7706.1	5450.9	538.3	181.3	158.7	153.0	141.7	124.7	107.7	96.3	90.7
77.5°	3541.4	2402.5	249.3	130.3	119.0	119.0	107.7	90.7	85.0	73.7	73.7
80°	1399.6	815.9	124.7	85.0	79.3	79.3	79.3	62.3	62.3	51.0	45.3
82.5°	385.3	170.0	62.3	51.0	51.0	51.0	45.3	39.7	39.7	34.0	34.0
85°	39.7	28.3	28.3	28.3	28.3	22.7	22.7	17.0	11.3	11.3	11.3
87.5°	17.0	17.0	17.0	17.0	17.0	11.3	5.7	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)