

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: P842058

Luminaire Tested: **ARCH4-260-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26902 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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



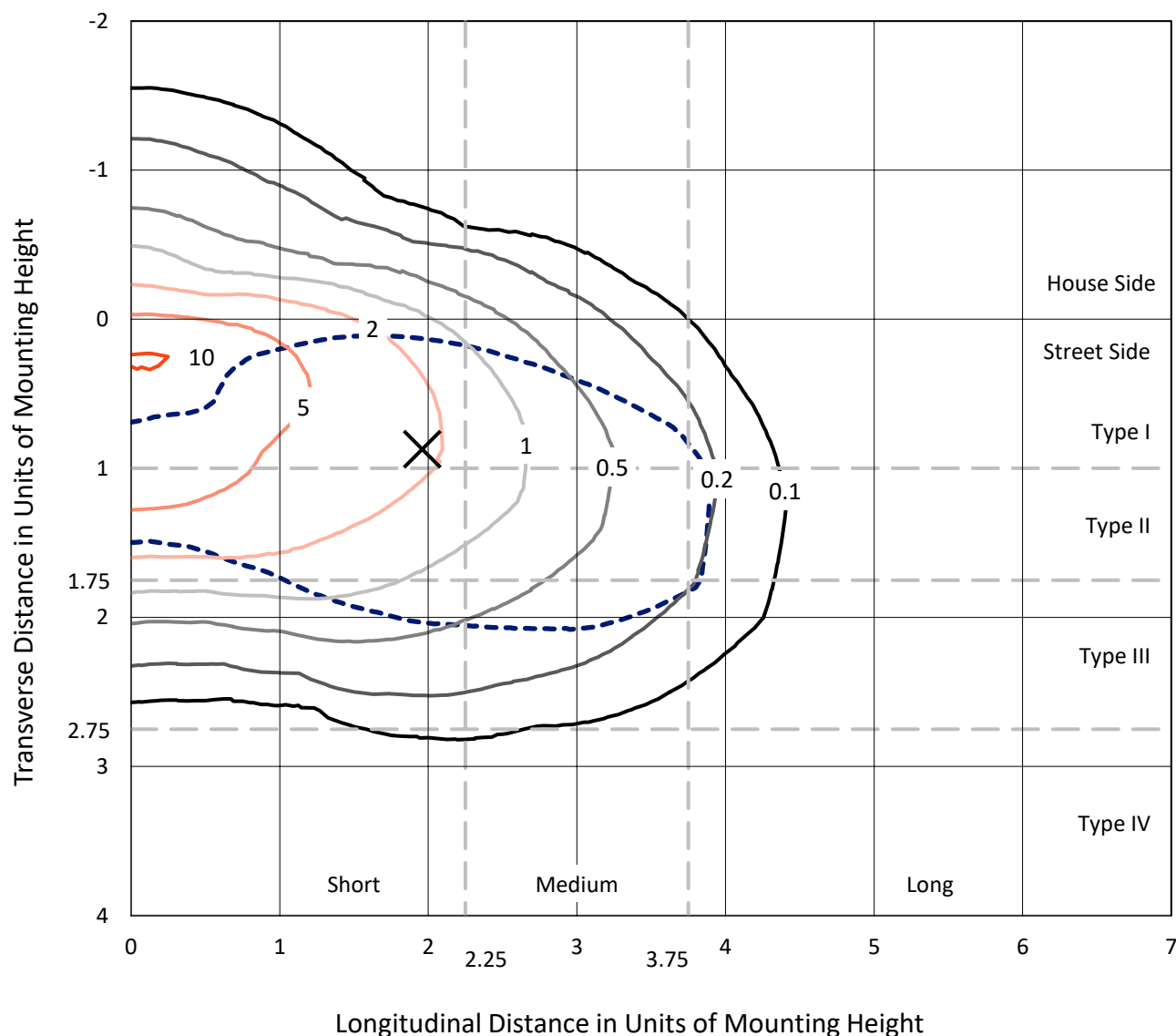
REPORT NUMBER: P842058

CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

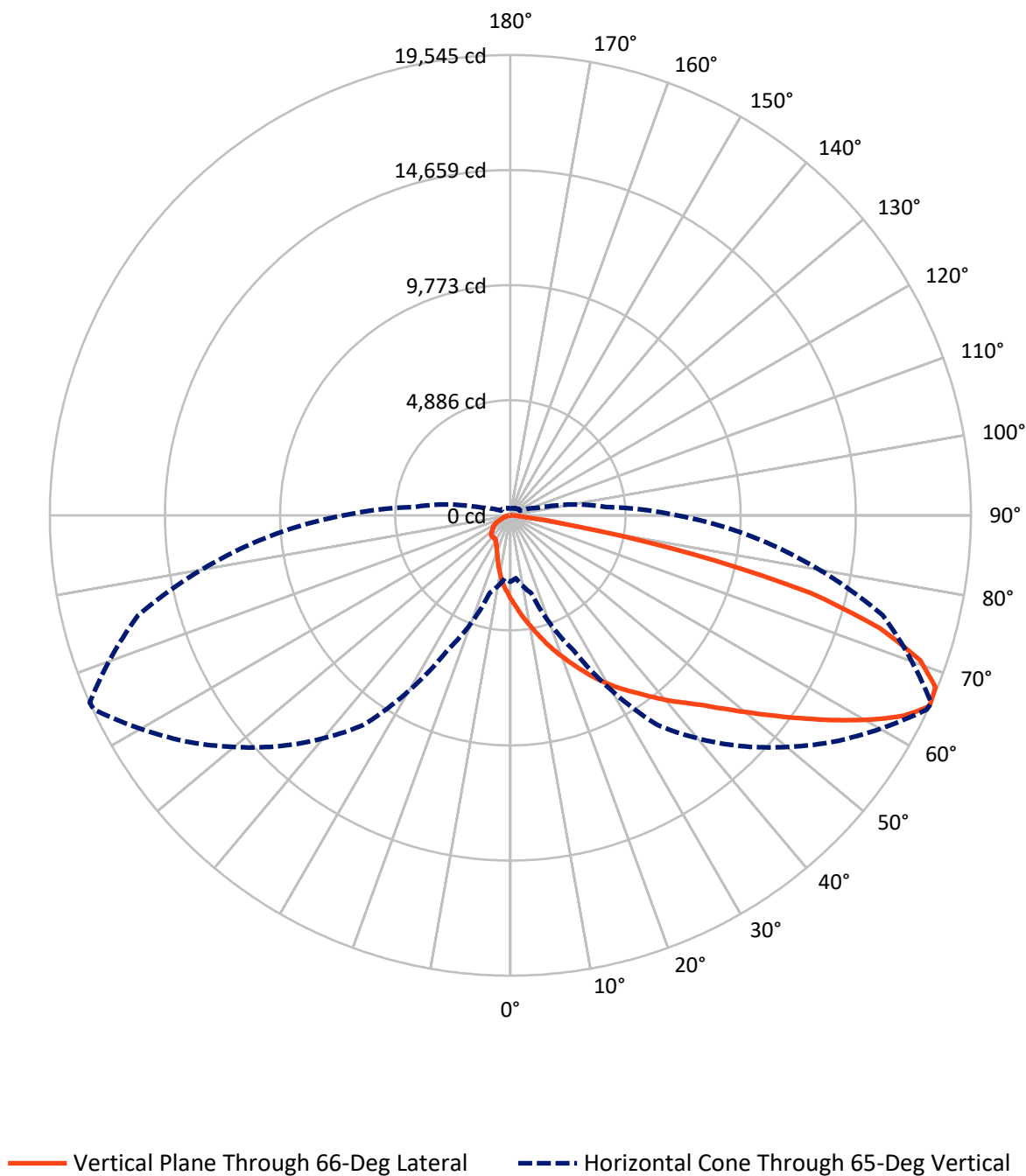


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type III - Short - N/A

REPORT NUMBER: P842058
CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842058

CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

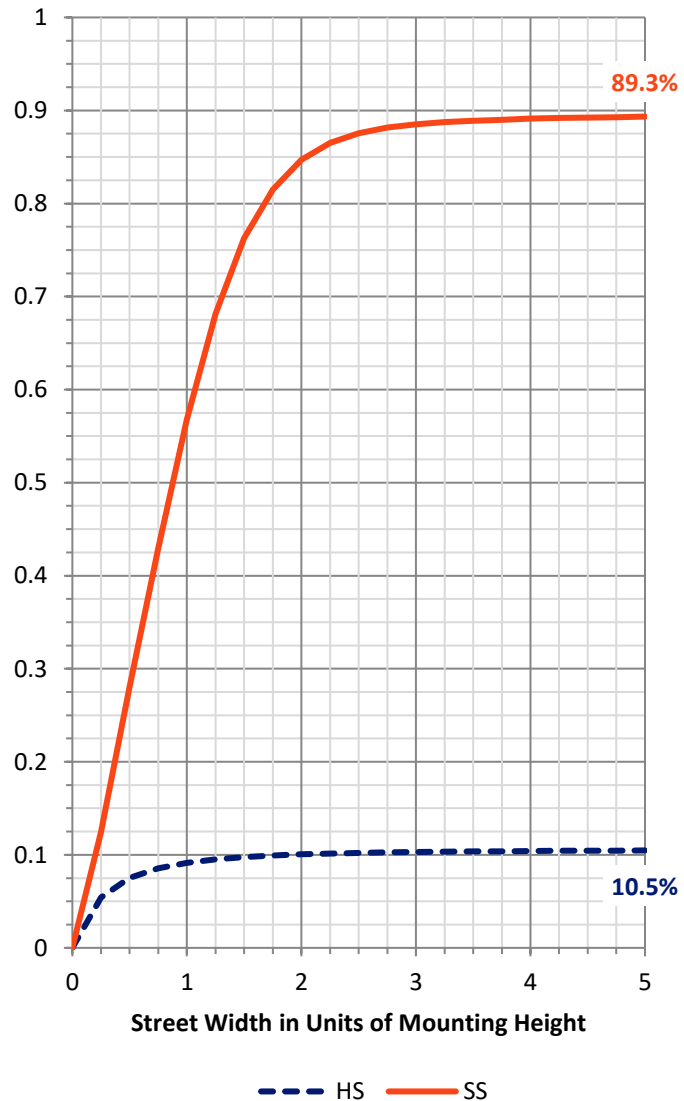
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.5	0.0	2845.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	24056.5	0.0	24056.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	26902.0	0.0	26902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	1.3
10°-20°	1145.3	4.3
20°-30°	2072.3	7.7
30°-40°	3240.5	12.0
40°-50°	4915.8	18.3
50°-60°	6245.6	23.2
60°-70°	5835.9	21.7
70°-80°	2900.4	10.8
80°-90°	194.9	0.7
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°	26902.0	100.0
0°-180°	26902.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842058

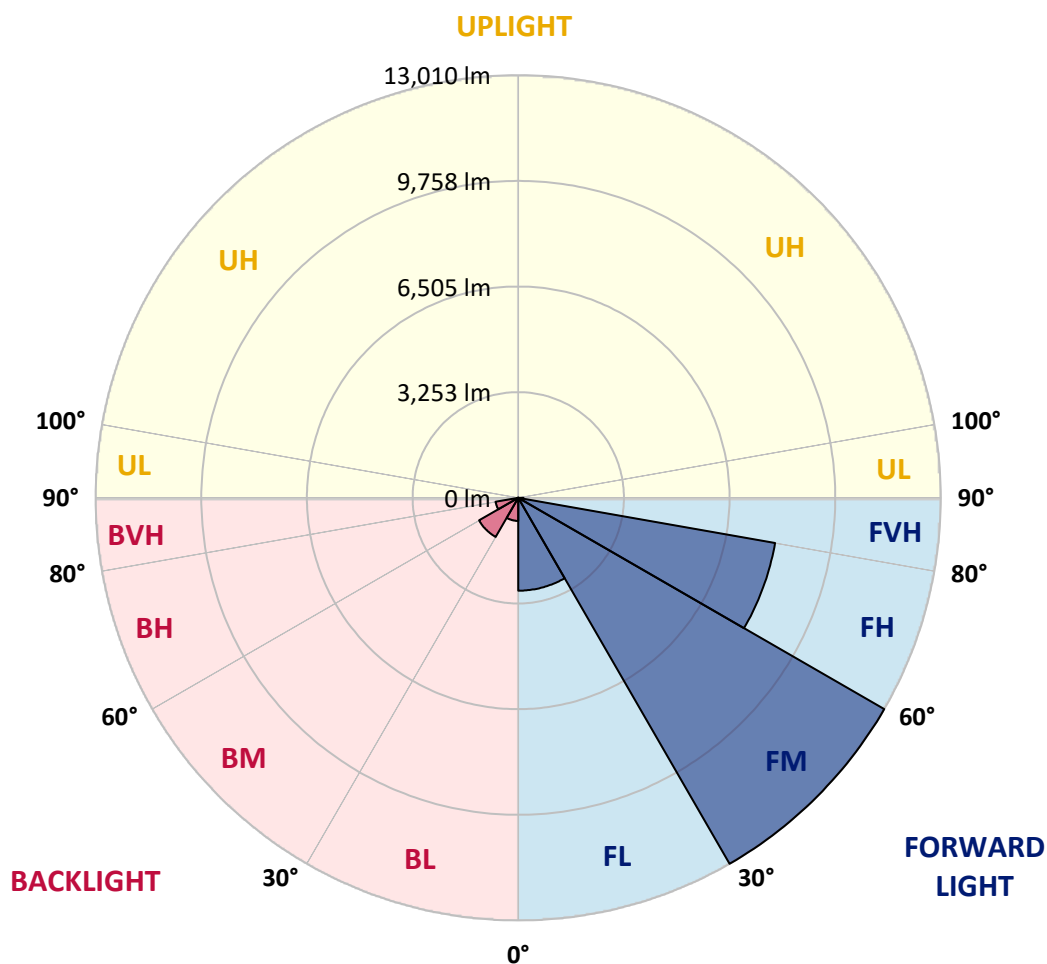
CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2858.3	10.6			
FM	(30°-60°)	13010.1	48.4			
FH	(60°-80°)	8027.7	29.8			G4/12000
FVH	(80°-90°)	160.4	0.6			G2/225
BL	(0°-30°)	710.7	2.6	B2/1000		
BM	(30°-60°)	1391.7	5.2	B2/2500		
BH	(60°-80°)	708.6	2.6	B2/1000		G2/1000
BVH	(80°-90°)	34.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



REPORT NUMBER: P842058

CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	4158.4	4192.3	4209.2	4214.8	4085.1	4028.6	3972.2	3842.5	3814.2	3740.9	3645.0
5°	4891.9	4937.1	4925.8	4903.2	4745.2	4564.7	4418.0	4175.3	4135.9	3960.9	3746.5
7.5°	5614.2	5653.6	5642.4	5557.7	5382.8	5128.9	4886.3	4530.8	4474.4	4192.3	3848.1
10°	6217.9	6251.7	6246.1	6161.5	5952.7	5642.4	5349.0	4875.0	4807.3	4406.7	3932.7
12.5°	6714.4	6759.6	6753.9	6697.5	6511.3	6172.7	5839.8	5270.0	5185.3	4666.2	4051.2
15°	7103.7	7160.2	7160.2	7137.6	7007.8	6725.7	6347.7	5704.4	5602.9	4965.3	4197.9
17.5°	7340.7	7385.9	7425.4	7464.8	7374.6	7160.2	6816.0	6138.9	6031.7	5258.7	4350.3
20°	7464.8	7510.0	7538.2	7622.8	7639.8	7532.6	7261.7	6567.7	6454.9	5591.6	4525.2
22.5°	7668.0	7707.5	7713.1	7786.5	7820.3	7848.5	7679.3	6990.9	6900.6	5958.3	4722.7
25°	8006.5	8051.7	8034.7	8068.6	8074.2	8108.1	8091.2	7476.1	7385.9	6375.9	4959.6
27.5°	8441.0	8497.4	8486.1	8452.3	8401.5	8373.3	8446.6	7967.0	7882.4	6793.4	5202.3
30°	8909.3	8977.0	8960.1	8892.4	8756.9	8638.5	8740.0	8429.7	8350.7	7222.2	5473.1
32.5°	9383.3	9462.2	9456.6	9343.8	9112.4	8909.3	9061.6	8864.2	8807.7	7684.9	5766.5
35°	9693.6	9795.1	9783.9	9716.2	9417.1	9242.2	9428.4	9309.9	9270.4	8249.1	6189.7
37.5°	10195.8	10303.0	10207.0	10037.8	9693.6	9603.3	9829.0	9812.1	9783.9	8847.2	6635.4
40°	11414.5	11572.5	11318.6	10624.6	10060.3	9981.3	10303.0	10370.7	10342.5	9439.7	7036.0
42.5°	12689.7	12926.7	12531.7	11572.5	10726.1	10438.4	10822.1	10918.0	10884.1	9947.5	7397.1
45°	13462.7	13564.2	13169.3	12424.5	11905.4	10991.3	11375.0	11533.0	11504.8	10556.9	7859.8
47.5°	14094.6	14055.1	13603.7	13101.6	13197.5	11770.0	12001.3	12311.6	12289.1	11228.3	8367.6
50°	14230.0	14139.8	13959.2	13643.2	13897.1	12559.9	12661.5	13197.5	13174.9	11973.1	8881.1
52.5°	13276.5	13158.0	13648.9	13914.1	13829.4	13135.4	13389.3	14168.0	14156.7	12780.0	9372.0
55°	10895.4	10799.5	12119.8	13490.9	13756.1	13541.7	14196.2	15178.0	15240.0	13637.6	9817.7
57.5°	8570.8	8469.2	9766.9	12430.1	13485.3	13914.1	15138.5	16334.6	16413.6	14568.6	10240.9
60°	6832.9	6680.6	7673.6	10760.0	12977.4	14201.8	16046.9	17604.2	17615.5	15420.6	10500.4
62.5°	4643.7	4474.4	5574.7	8644.1	12125.4	14247.0	16746.5	18698.8	18743.9	16058.2	10545.6
65°	2821.2	2680.1	3424.9	6313.8	10867.2	13863.3	16757.8	19505.7	19545.2	16351.6	10274.7
67.5°	1636.3	1579.9	1957.9	3932.7	8779.5	12830.7	16052.5	19381.5	19454.9	16227.4	9659.7
70°	953.6	947.9	1089.0	1946.6	6195.3	10782.6	14478.3	18337.7	18444.9	15578.6	8717.5
72.5°	699.7	710.9	767.4	1043.8	3588.5	7763.9	12260.9	16238.7	16402.4	14309.0	7374.6
75°	553.0	558.6	609.4	710.9	1884.5	4389.8	9185.8	13033.9	13163.6	12046.4	5760.9
77.5°	411.9	423.2	462.7	502.2	874.6	2014.3	5168.4	8029.1	7814.7	6612.9	2781.7
80°	299.0	327.3	344.2	361.1	462.7	778.6	1551.7	2798.6	2776.0	2888.9	1314.7
82.5°	191.8	214.4	231.3	242.6	276.5	372.4	462.7	626.3	677.1	1122.8	524.7
85°	84.6	95.9	107.2	129.8	118.5	129.8	191.8	124.1	107.2	169.3	95.9
87.5°	0.0	0.0	16.9	28.2	22.6	11.3	33.9	22.6	16.9	16.9	16.9
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: P842058

CATALOG NUMBER: ARCH4-260-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	3594.2	3532.1	3402.3	3278.2	3204.9	3108.9	3024.3	2945.3	2939.7	2917.1	2877.6
5°	3639.3	3520.8	3278.2	3046.9	2872.0	2685.8	2527.8	2403.6	2358.5	2324.7	2279.5
7.5°	3684.5	3498.3	3137.2	2798.6	2522.1	2262.6	2076.4	1907.1	1856.3	1811.2	1783.0
10°	3701.4	3458.8	2973.5	2522.1	2161.0	1884.5	1687.1	1562.9	1517.8	1495.2	1478.3
12.5°	3752.2	3436.2	2821.2	2262.6	1845.1	1591.1	1450.1	1376.7	1359.8	1342.9	1326.0
15°	3819.9	3436.2	2668.8	2008.7	1596.8	1393.7	1309.0	1258.2	1247.0	1241.3	1230.0
17.5°	3893.2	3436.2	2522.1	1794.3	1416.2	1263.9	1201.8	1173.6	1168.0	1162.3	1156.7
20°	3994.8	3441.8	2364.2	1608.1	1286.5	1168.0	1117.2	1083.3	1077.7	1072.0	1072.0
22.5°	4096.4	3453.1	2211.8	1467.0	1201.8	1094.6	1032.6	998.7	987.4	987.4	987.4
25°	4226.1	3487.0	2070.7	1348.5	1128.5	1026.9	947.9	919.7	914.1	914.1	908.4
27.5°	4378.5	3526.5	1946.6	1258.2	1055.1	947.9	868.9	840.7	829.4	829.4	823.8
30°	4542.1	3566.0	1845.1	1190.5	981.8	868.9	795.6	761.7	750.4	756.1	750.4
32.5°	4722.7	3622.4	1766.1	1145.4	914.1	801.2	733.5	694.0	688.4	688.4	682.7
35°	5027.3	3780.4	1754.8	1122.8	857.6	750.4	682.7	643.2	637.6	637.6	631.9
37.5°	5354.6	3960.9	1805.6	1111.5	812.5	705.3	643.2	603.7	598.1	598.1	598.1
40°	5631.1	4096.4	1862.0	1111.5	784.3	665.8	609.4	575.5	575.5	575.5	575.5
42.5°	5817.3	4107.6	1850.7	1111.5	761.7	637.6	586.8	553.0	553.0	558.6	553.0
45°	6093.8	4164.1	1805.6	1094.6	744.8	615.0	564.2	536.0	530.4	536.0	536.0
47.5°	6421.0	4265.6	1760.4	1026.9	739.1	592.4	547.3	513.5	507.8	513.5	507.8
50°	6731.3	4355.9	1737.8	936.6	727.9	569.9	524.7	490.9	485.2	490.9	485.2
52.5°	6990.9	4395.4	1698.4	874.6	699.7	547.3	502.2	468.3	457.0	462.7	462.7
55°	7199.7	4384.1	1641.9	823.8	648.9	524.7	474.0	445.7	428.8	428.8	423.2
57.5°	7391.5	4389.8	1591.1	773.0	592.4	490.9	451.4	417.5	395.0	389.3	383.7
60°	7464.8	4361.5	1500.9	705.3	536.0	462.7	423.2	383.7	361.1	355.5	349.8
62.5°	7363.3	4260.0	1382.4	586.8	485.2	428.8	395.0	355.5	332.9	327.3	321.6
65°	7075.5	4068.1	1201.8	462.7	440.1	389.3	361.1	332.9	304.7	293.4	287.8
67.5°	6584.6	3791.7	976.1	372.4	389.3	355.5	338.5	304.7	270.8	259.5	253.9
70°	5885.0	3424.9	733.5	316.0	344.2	316.0	304.7	270.8	242.6	231.3	225.7
72.5°	4903.2	2832.5	513.5	270.8	299.0	276.5	265.2	242.6	214.4	197.5	197.5
75°	3707.0	2031.3	338.5	231.3	248.3	237.0	220.1	203.1	186.2	174.9	169.3
77.5°	1596.8	789.9	208.8	174.9	203.1	197.5	174.9	163.6	158.0	146.7	146.7
80°	688.4	321.6	129.8	129.8	146.7	141.1	135.4	124.1	124.1	118.5	112.8
82.5°	253.9	129.8	79.0	95.9	107.2	95.9	95.9	95.9	95.9	90.3	90.3
85°	62.1	39.5	39.5	56.4	62.1	56.4	62.1	56.4	56.4	56.4	50.8
87.5°	16.9	16.9	22.6	22.6	22.6	22.6	22.6	16.9	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)