

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: P842056

Luminaire Tested: **ARCH4-260-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27758 lumens
Efficiency: N/A
Efficacy: 107.1 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

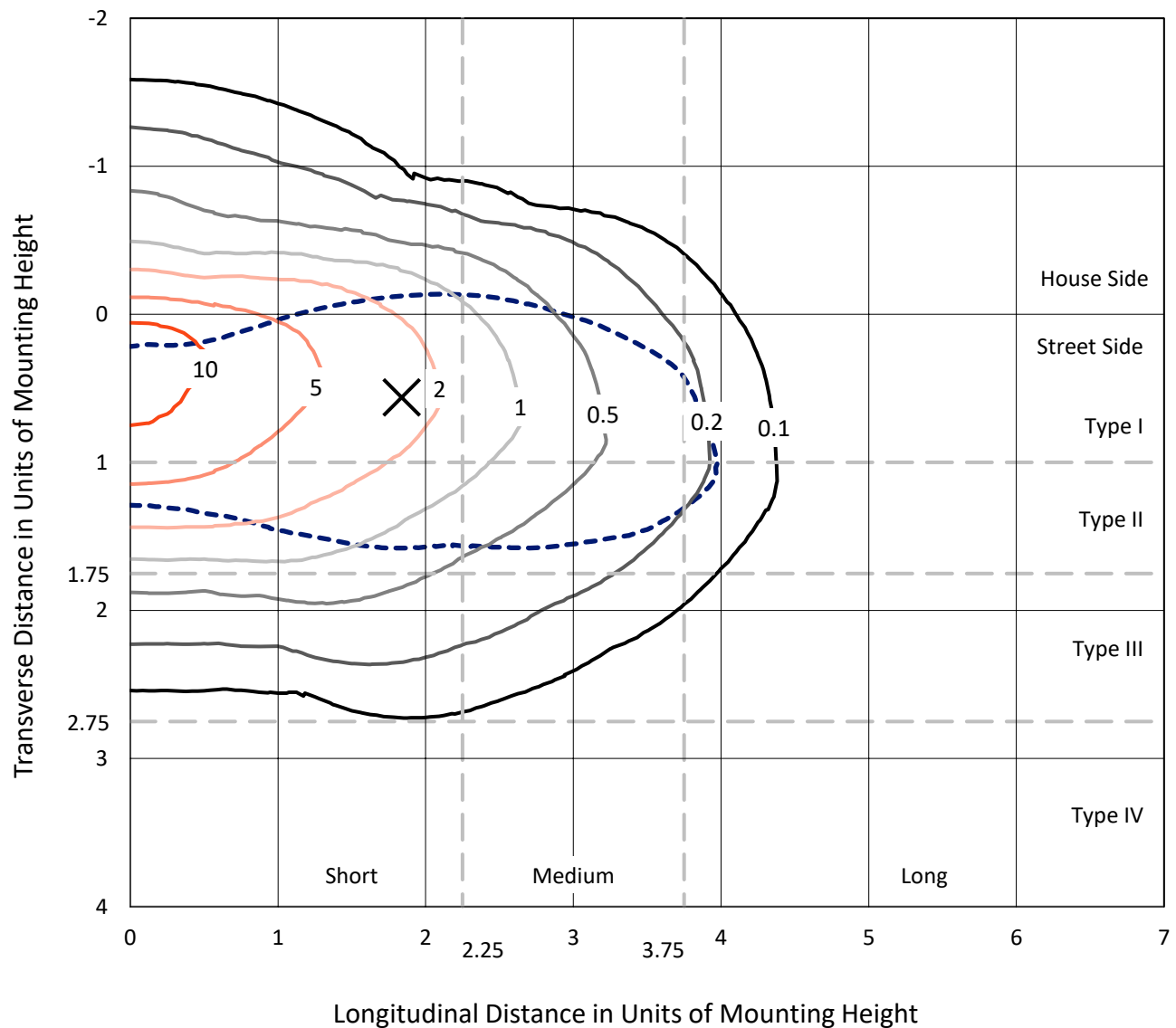


REPORT NUMBER: P842056

CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

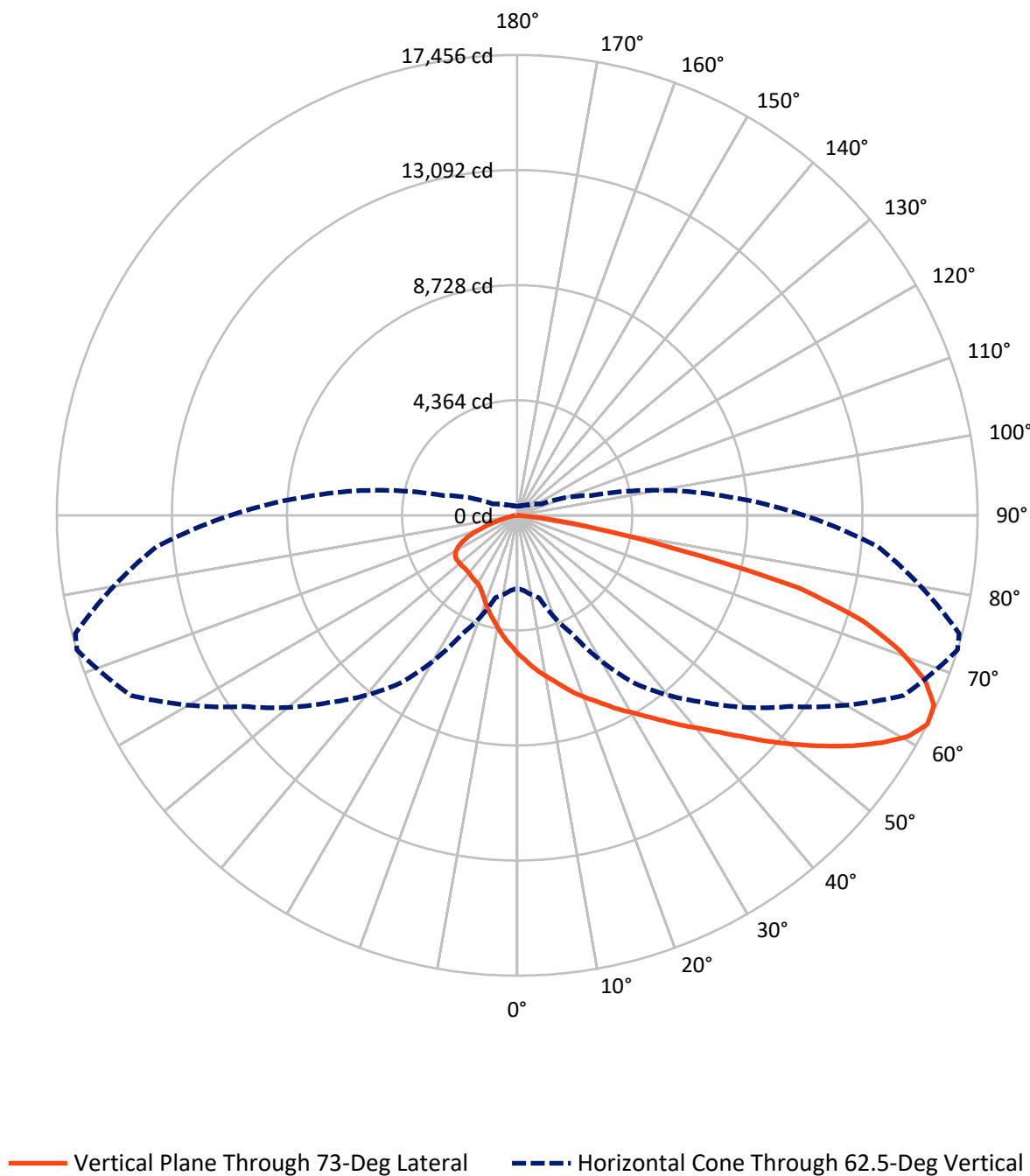
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type II - Short - N/A

REPORT NUMBER: P842056
CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842056

CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

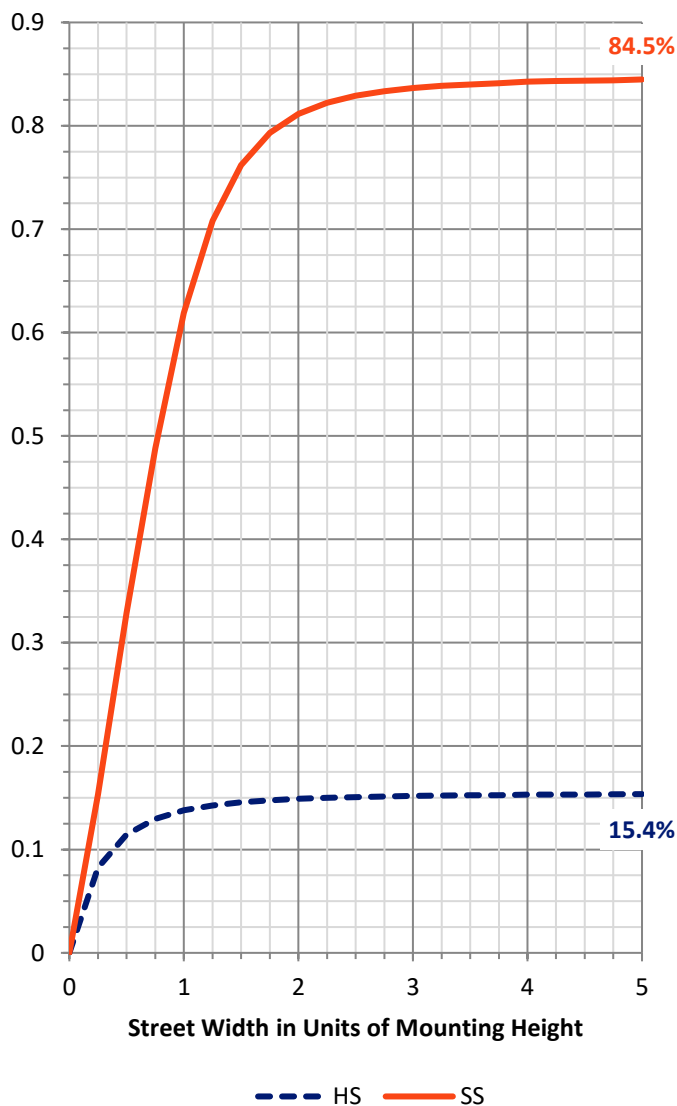
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4302.9	0.0	4302.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	23455.1	0.0	23455.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	27758.0	0.0	27758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.8	1.8
10°-20°	1532.2	5.5
20°-30°	2550.4	9.2
30°-40°	3848.1	13.9
40°-50°	5378.7	19.4
50°-60°	5941.1	21.4
60°-70°	5175.5	18.6
70°-80°	2614.4	9.4
80°-90°	209.8	0.8
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°	27758.0	100.0
0°-180°	27758.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842056

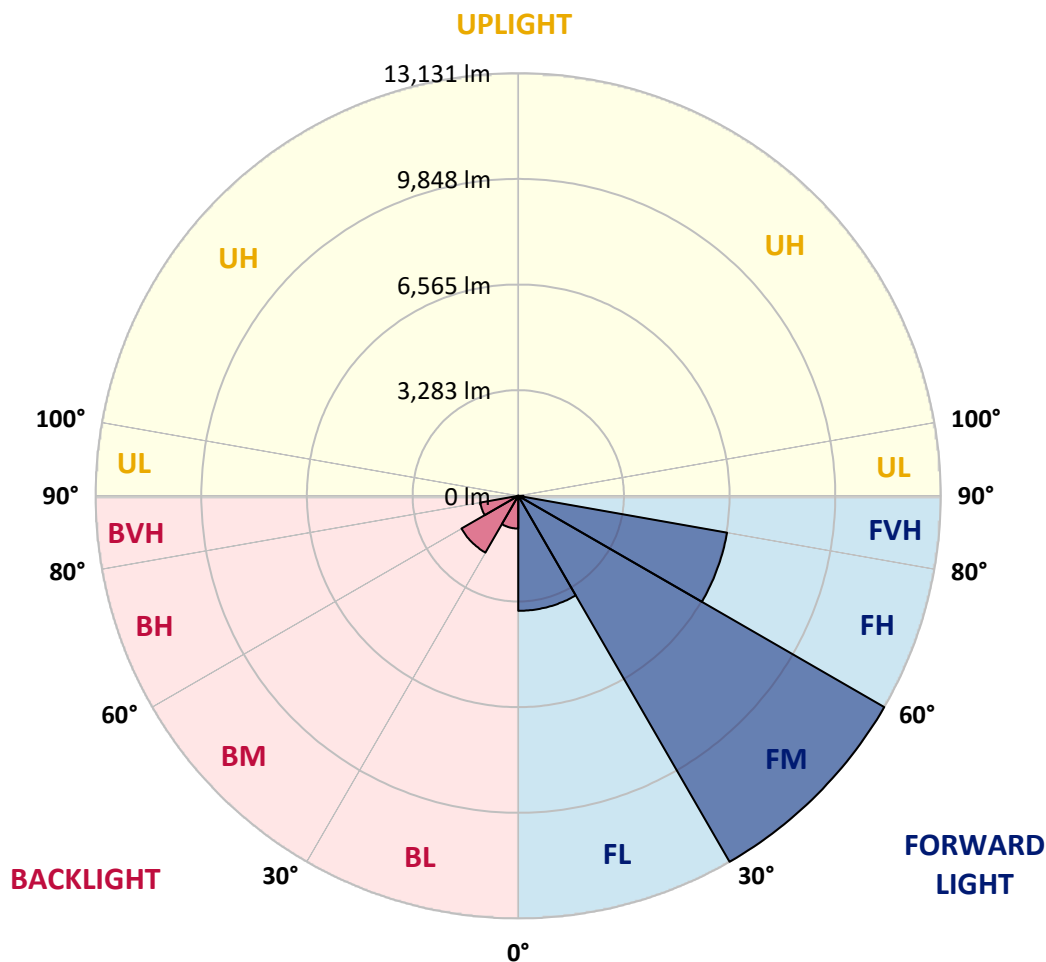
CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3573.3	12.9			
FM	(30°-60°)	13130.6	47.3			
FH	(60°-80°)	6588.8	23.7			G3/7500
FVH	(80°-90°)	162.4	0.6			G2/225
BL	(0°-30°)	1017.0	3.7	B3/2500		
BM	(30°-60°)	2037.4	7.3	B2/2500		
BH	(60°-80°)	1201.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	47.4	0.2			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: P842056

CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0
2.5°	5981.8	6048.4	6012.1	6036.3	5915.3	5836.7	5746.0	5570.6	5473.8	5461.7	5346.8
5°	6858.9	6931.4	6871.0	6852.8	6641.1	6459.7	6254.0	5945.6	5739.9	5703.6	5449.6
7.5°	7735.9	7802.4	7729.8	7675.4	7391.1	7070.5	6768.1	6314.5	5993.9	5933.5	5534.3
10°	8352.8	8413.3	8358.9	8304.4	8008.0	7681.4	7252.0	6659.3	6223.8	6127.0	5588.7
12.5°	8818.5	8854.8	8830.6	8782.2	8504.0	8153.2	7741.9	7046.4	6483.9	6362.9	5673.4
15°	9199.6	9260.1	9229.8	9193.5	8927.4	8576.6	8183.4	7451.6	6786.3	6635.1	5800.4
17.5°	9453.6	9495.9	9502.0	9502.0	9266.1	8921.4	8540.3	7820.5	7088.7	6895.1	5921.4
20°	9568.5	9616.9	9647.2	9695.5	9502.0	9205.6	8818.5	8135.1	7373.0	7155.2	6036.3
22.5°	9623.0	9665.3	9743.9	9852.8	9695.5	9447.6	9090.7	8425.4	7657.2	7427.4	6169.3
25°	9665.3	9719.7	9834.7	10040.3	9931.4	9719.7	9411.3	8758.0	7995.9	7760.1	6362.9
27.5°	9780.2	9846.8	9955.6	10203.6	10070.5	9967.7	9750.0	9114.9	8352.8	8110.9	6598.8
30°	10179.4	10233.8	10227.8	10385.1	10221.8	10191.5	10040.3	9459.7	8697.6	8455.6	6877.0
32.5°	10905.2	10959.7	10826.6	10766.1	10409.2	10415.3	10354.8	9828.6	9108.8	8860.9	7197.6
35°	11685.5	11745.9	11570.5	11467.7	10868.9	10693.5	10723.8	10288.3	9568.5	9320.5	7596.8
37.5°	12381.0	12453.6	12302.4	12151.2	11546.3	11141.1	11135.1	10802.4	10094.7	9840.7	8038.3
40°	12762.1	12846.7	12937.5	12852.8	12217.7	11770.1	11576.6	11328.6	10614.9	10354.8	8516.1
42.5°	12943.5	13179.4	13342.7	13288.3	12768.1	12314.5	12084.6	11879.0	11250.0	10995.9	9084.7
45°	12435.5	12441.5	12786.3	13082.6	12985.9	12683.4	12641.1	12495.9	11975.8	11733.8	9725.8
47.5°	11800.4	11752.0	11993.9	12520.1	12792.3	12870.9	13118.9	13179.4	12804.4	12562.5	10379.0
50°	10276.2	10306.4	11092.7	11848.8	12381.0	12889.1	13457.6	13881.0	13657.2	13427.4	11068.5
52.5°	8358.9	8431.4	9332.6	10995.9	11836.7	12707.6	13657.2	14582.6	14528.2	14310.5	11758.0
55°	6701.6	6816.5	7772.2	9574.6	11141.1	12302.4	13741.9	15223.8	15429.4	15229.8	12435.5
57.5°	5123.0	5243.9	6048.4	7899.2	10252.0	11643.1	13681.4	15786.3	16270.1	16143.1	13058.4
60°	3858.9	3979.8	4493.9	6405.2	9139.1	10905.2	13379.0	16155.2	17026.2	16893.1	13512.1
62.5°	2764.1	2860.9	3241.9	4983.9	7784.3	10028.2	12635.1	16161.3	17455.6	17346.7	13729.8
65°	1989.9	1989.9	2298.4	3556.4	6514.1	8975.8	11510.1	15417.3	17364.9	17334.6	13578.6
67.5°	1433.5	1445.6	1693.5	2485.9	5195.6	7699.6	10052.4	14092.7	16663.3	16814.5	13034.2
70°	1016.1	1046.4	1161.3	1735.9	3925.4	6078.6	8491.9	12356.8	15399.2	15665.3	11981.8
72.5°	786.3	804.4	883.1	1209.7	2866.9	4518.1	6768.1	10421.3	13711.7	14014.1	10548.4
75°	604.8	623.0	683.5	889.1	2056.4	3169.3	4808.5	8086.7	11056.4	11594.7	8473.8
77.5°	441.5	465.7	508.1	647.2	1197.6	2014.1	2915.3	4548.4	6102.8	6356.8	4439.5
80°	205.6	235.9	296.4	417.3	647.2	949.6	1034.3	1754.0	2933.5	3066.5	2407.3
82.5°	114.9	145.2	169.4	254.0	326.6	338.7	350.8	441.5	1106.9	1221.8	1010.1
85°	54.4	72.6	78.6	108.9	108.9	96.8	114.9	84.7	181.5	217.7	211.7
87.5°	0.0	6.0	12.1	30.2	24.2	18.1	18.1	18.1	18.1	24.2	18.1
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: P842056

CATALOG NUMBER: ARCH4-260-750-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0
2.5°	5292.3	5213.7	5032.2	4875.0	4772.2	4681.4	4560.5	4506.0	4409.3	4427.4	4373.0
5°	5322.6	5177.4	4856.8	4560.5	4342.7	4149.2	3937.5	3816.5	3683.5	3671.4	3629.0
7.5°	5340.7	5116.9	4657.2	4239.9	3907.2	3610.9	3326.6	3169.3	3006.0	2969.8	2933.5
10°	5322.6	5026.2	4451.6	3907.2	3465.7	3096.8	2776.2	2576.6	2407.3	2364.9	2328.6
12.5°	5340.7	4977.8	4258.1	3598.8	3072.6	2655.2	2292.3	2086.7	1929.4	1887.1	1862.9
15°	5383.1	4947.6	4094.7	3320.6	2721.8	2256.0	1899.2	1723.8	1596.8	1554.4	1542.3
17.5°	5419.3	4917.3	3919.3	3048.4	2371.0	1905.2	1596.8	1451.6	1342.7	1300.4	1288.3
20°	5467.7	4875.0	3743.9	2788.3	2062.5	1627.0	1354.8	1227.8	1143.1	1112.9	1106.9
22.5°	5510.1	4844.7	3580.6	2528.2	1778.2	1403.2	1173.4	1070.6	1010.1	979.8	979.8
25°	5618.9	4856.8	3441.5	2286.3	1566.5	1227.8	1034.3	955.6	907.3	889.1	889.1
27.5°	5746.0	4905.2	3332.7	2080.6	1385.1	1094.8	937.5	871.0	846.8	822.6	828.6
30°	5927.4	5002.0	3260.1	1911.3	1252.0	991.9	858.9	810.5	786.3	780.2	780.2
32.5°	6157.2	5159.3	3254.0	1802.4	1155.2	913.3	804.4	762.1	750.0	743.9	743.9
35°	6429.4	5298.4	3217.7	1754.0	1094.8	858.9	762.1	731.9	725.8	725.8	725.8
37.5°	6756.0	5528.2	3193.5	1687.5	1064.5	828.6	731.9	707.7	707.7	707.7	707.7
40°	7094.7	5715.7	3157.3	1627.0	1052.4	810.5	713.7	683.5	683.5	683.5	683.5
42.5°	7500.0	5987.9	3145.2	1596.8	1034.3	798.4	689.5	653.2	659.3	659.3	665.3
45°	7989.9	6296.4	3139.1	1566.5	1028.2	786.3	665.3	623.0	629.0	623.0	623.0
47.5°	8485.9	6653.2	3157.3	1548.4	1022.2	774.2	647.2	592.7	592.7	586.7	586.7
50°	9006.0	6979.8	3169.3	1530.2	1010.1	750.0	616.9	568.5	556.5	544.4	550.4
52.5°	9495.9	7282.2	3175.4	1500.0	973.8	713.7	592.7	538.3	520.2	502.0	508.1
55°	9985.9	7572.6	3187.5	1463.7	925.4	677.4	562.5	508.1	483.9	459.7	459.7
57.5°	10427.4	7826.6	3157.3	1373.0	871.0	641.1	532.3	471.8	435.5	411.3	411.3
60°	10729.8	8008.0	3066.5	1239.9	798.4	598.8	502.0	435.5	393.1	375.0	375.0
62.5°	10875.0	8038.3	2903.2	1022.2	707.7	556.5	465.7	399.2	362.9	350.8	350.8
65°	10735.9	7905.2	2649.2	768.1	610.9	508.1	429.4	369.0	332.7	302.4	302.4
67.5°	10252.0	7530.2	2298.4	580.6	520.2	459.7	393.1	338.7	296.4	272.2	272.2
70°	9278.2	6750.0	1778.2	465.7	441.5	399.2	356.9	302.4	266.1	235.9	235.9
72.5°	8002.0	5721.8	1252.0	375.0	375.0	338.7	302.4	266.1	229.8	205.6	205.6
75°	6139.1	4233.9	840.7	302.4	308.5	284.3	248.0	217.7	193.5	175.4	175.4
77.5°	3350.8	2092.7	514.1	223.8	229.8	217.7	193.5	175.4	163.3	145.2	145.2
80°	1627.0	919.4	296.4	157.3	163.3	157.3	145.2	127.0	127.0	114.9	114.9
82.5°	683.5	344.8	157.3	108.9	108.9	96.8	90.7	90.7	90.7	84.7	84.7
85°	169.4	66.5	66.5	60.5	60.5	60.5	54.4	54.4	54.4	42.3	48.4
87.5°	24.2	24.2	24.2	24.2	24.2	24.2	18.1	6.0	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)