

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: P841795

Luminaire Tested: **ARCH4-230-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841795
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: ARCH4-230-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA 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: 21207 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 231.2
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



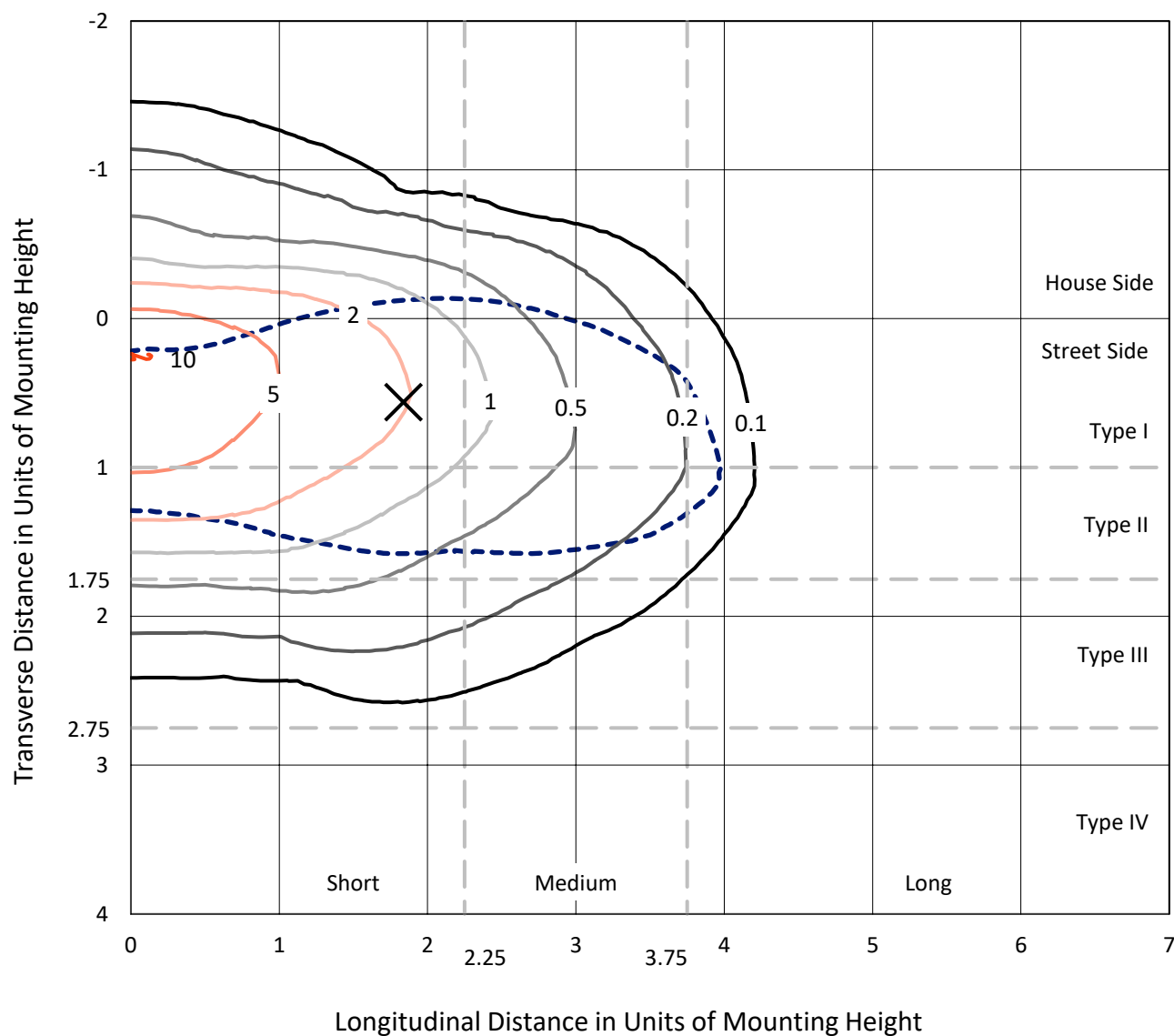
REPORT NUMBER: P841795

CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

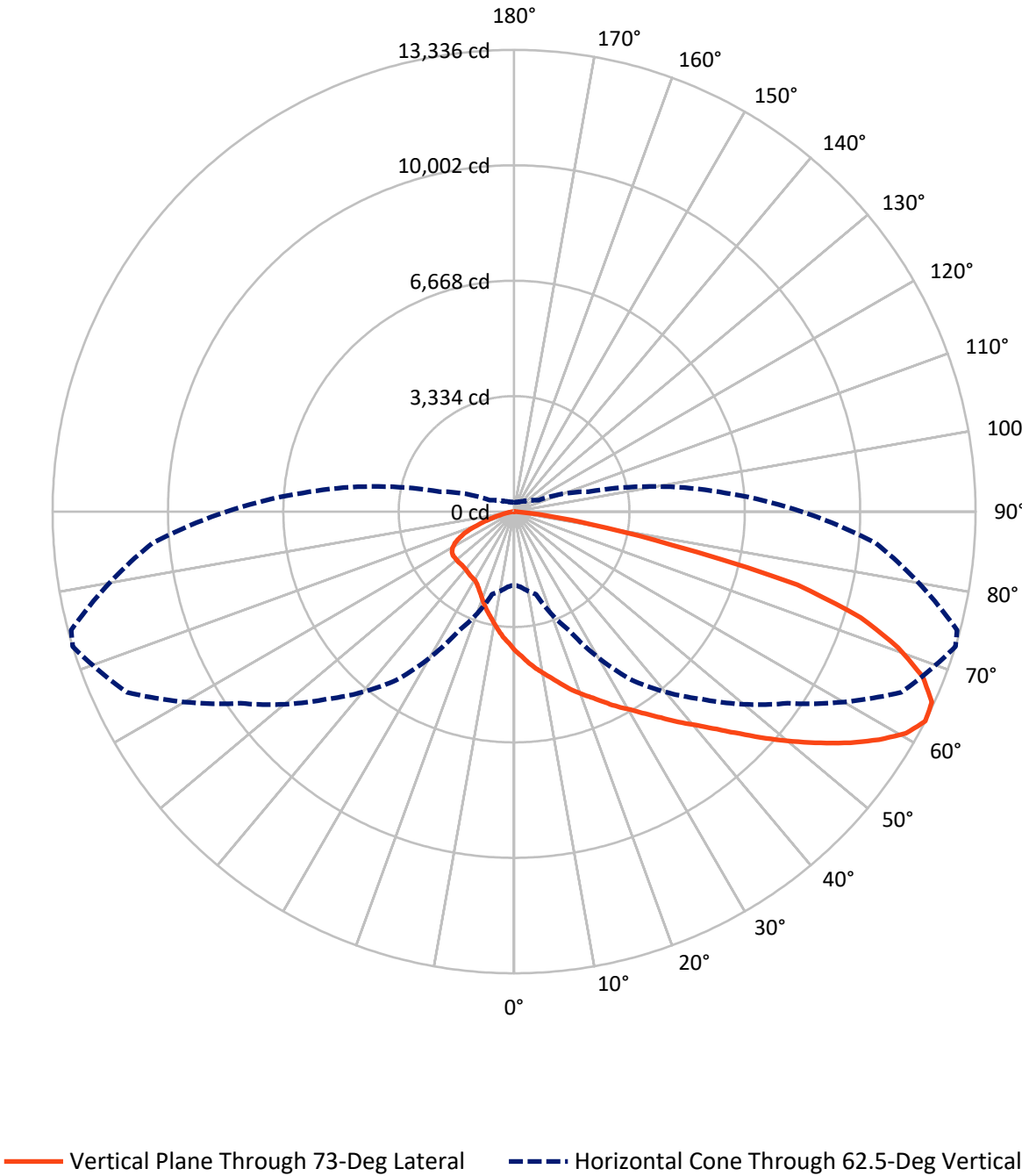


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type II - Short - N/A

REPORT NUMBER: P841795
CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841795

CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

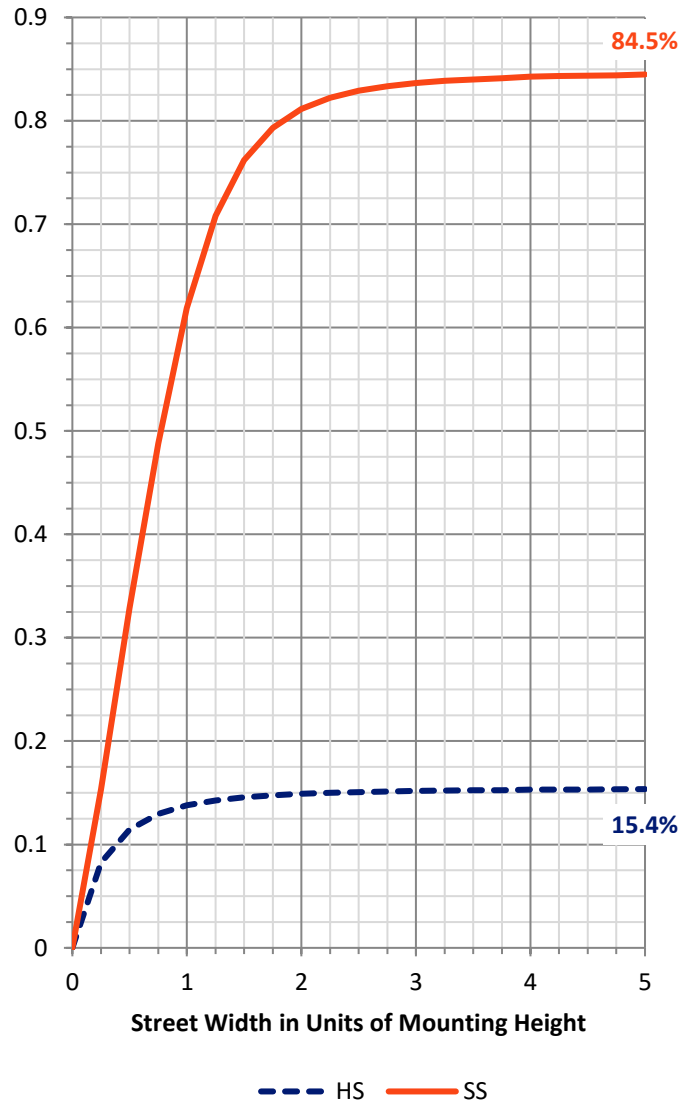
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.4	0.0	3287.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17919.6	0.0	17919.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	21207.0	0.0	21207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	1.8
10°-20°	1170.6	5.5
20°-30°	1948.5	9.2
30°-40°	2940.0	13.9
40°-50°	4109.3	19.4
50°-60°	4539.0	21.4
60°-70°	3954.1	18.6
70°-80°	1997.4	9.4
80°-90°	160.3	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°	21207.0	100.0
0°-180°	21207.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841795

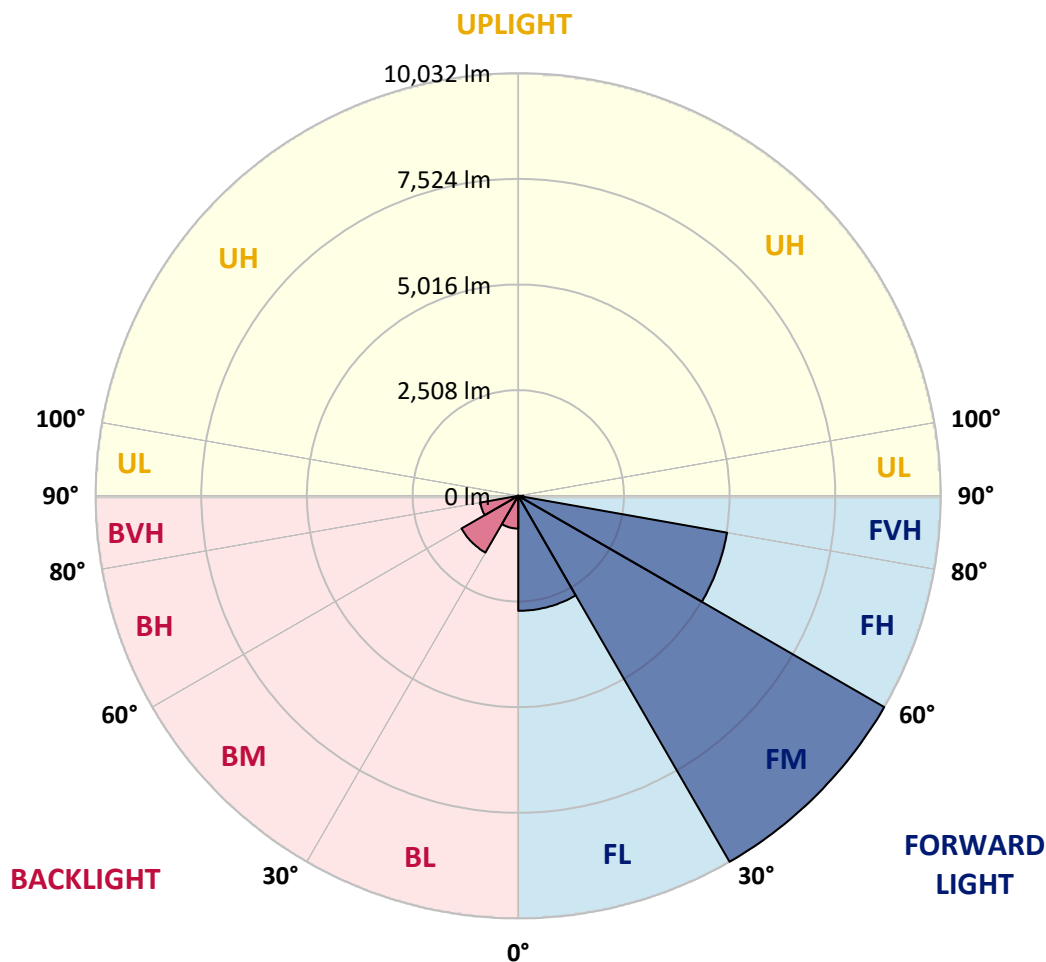
CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2730.0	12.9			
FM	(30°-60°)	10031.7	47.3			
FH	(60°-80°)	5033.9	23.7			G3/7500
FVH	(80°-90°)	124.1	0.6			G2/225
BL	(0°-30°)	777.0	3.7	B2/1000		
BM	(30°-60°)	1556.6	7.3	B2/2500		
BH	(60°-80°)	917.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P841795

CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6
2.5°	4570.1	4620.9	4593.2	4611.7	4519.3	4459.2	4389.9	4255.9	4181.9	4172.7	4084.9
5°	5240.1	5295.6	5249.4	5235.5	5073.8	4935.2	4778.0	4542.4	4385.3	4357.5	4163.5
7.5°	5910.2	5961.0	5905.6	5864.0	5646.8	5401.9	5170.8	4824.3	4579.3	4533.1	4228.2
10°	6381.5	6427.7	6386.1	6344.5	6118.1	5868.6	5540.5	5087.6	4754.9	4681.0	4269.7
12.5°	6737.3	6765.0	6746.6	6709.6	6497.0	6229.0	5914.8	5383.4	4953.6	4861.2	4334.4
15°	7028.4	7074.6	7051.5	7023.8	6820.5	6552.5	6252.1	5693.0	5184.7	5069.2	4431.5
17.5°	7222.5	7254.9	7259.5	7259.5	7079.3	6815.9	6524.8	5974.9	5415.7	5267.9	4523.9
20°	7310.3	7347.3	7370.4	7407.4	7259.5	7033.1	6737.3	6215.2	5632.9	5466.6	4611.7
22.5°	7351.9	7384.3	7444.3	7527.5	7407.4	7217.9	6945.3	6437.0	5850.1	5674.5	4713.4
25°	7384.3	7425.8	7513.6	7670.7	7587.6	7425.8	7190.2	6691.1	6108.9	5928.7	4861.2
27.5°	7472.0	7522.9	7606.1	7795.5	7693.9	7615.3	7448.9	6963.7	6381.5	6196.7	5041.4
30°	7777.0	7818.6	7814.0	7934.1	7809.4	7786.3	7670.7	7227.1	6644.9	6460.1	5254.0
32.5°	8331.5	8373.1	8271.5	8225.3	7952.6	7957.2	7911.0	7509.0	6959.1	6769.7	5498.9
35°	8927.6	8973.9	8839.8	8761.3	8303.8	8169.8	8192.9	7860.2	7310.3	7120.9	5803.9
37.5°	9459.0	9514.5	9399.0	9283.5	8821.4	8511.8	8507.1	8253.0	7712.3	7518.3	6141.2
40°	9750.2	9814.9	9884.2	9819.5	9334.3	8992.3	8844.5	8655.0	8109.7	7911.0	6506.3
42.5°	9888.8	10069.0	10193.8	10152.2	9754.8	9408.2	9232.6	9075.5	8594.9	8400.9	6940.6
45°	9500.6	9505.3	9768.7	9995.1	9921.1	9690.1	9657.7	9546.8	9149.4	8964.6	7430.5
47.5°	9015.4	8978.5	9163.3	9565.3	9773.3	9833.3	10022.8	10069.0	9782.5	9597.7	7929.5
50°	7851.0	7874.1	8474.8	9052.4	9459.0	9847.2	10281.6	10605.0	10434.1	10258.5	8456.3
52.5°	6386.1	6441.6	7130.1	8400.9	9043.2	9708.6	10434.1	11141.1	11099.5	10933.1	8983.1
55°	5120.0	5207.8	5937.9	7314.9	8511.8	9399.0	10498.8	11630.9	11788.0	11635.5	9500.6
57.5°	3913.9	4006.3	4620.9	6034.9	7832.5	8895.3	10452.5	12060.6	12430.3	12333.3	9976.6
60°	2948.2	3040.6	3433.4	4893.6	6982.2	8331.5	10221.5	12342.5	13007.9	12906.3	10323.2
62.5°	2111.8	2185.7	2476.8	3807.6	5947.1	7661.5	9653.1	12347.1	13336.0	13252.8	10489.5
65°	1520.3	1520.3	1756.0	2717.1	4976.7	6857.5	8793.6	11778.8	13266.7	13243.6	10374.0
67.5°	1095.2	1104.4	1293.9	1899.2	3969.4	5882.4	7680.0	10766.8	12730.7	12846.2	9958.1
70°	776.3	799.4	887.2	1326.2	2999.0	4644.0	6487.8	9440.6	11764.9	11968.2	9154.1
72.5°	600.7	614.6	674.7	924.2	2190.3	3451.8	5170.8	7961.9	10475.7	10706.7	8058.9
75°	462.1	476.0	522.2	679.3	1571.1	2421.4	3673.6	6178.2	8447.1	8858.3	6473.9
77.5°	337.3	355.8	388.2	494.4	914.9	1538.8	2227.3	3474.9	4662.5	4856.6	3391.8
80°	157.1	180.2	226.4	318.8	494.4	725.5	790.2	1340.1	2241.2	2342.8	1839.1
82.5°	87.8	110.9	129.4	194.1	249.5	258.8	268.0	337.3	845.6	933.4	771.7
85°	41.6	55.5	60.1	83.2	83.2	73.9	87.8	64.7	138.6	166.4	161.7
87.5°	0.0	4.6	9.2	23.1	18.5	13.9	13.9	13.9	13.9	18.5	13.9
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: P841795

CATALOG NUMBER: ARCH4-230-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6	4015.6
2.5°	4043.3	3983.2	3844.6	3724.5	3645.9	3576.6	3484.2	3442.6	3368.7	3382.5	3340.9
5°	4066.4	3955.5	3710.6	3484.2	3317.8	3170.0	3008.2	2915.8	2814.1	2804.9	2772.6
7.5°	4080.3	3909.3	3558.1	3239.3	2985.1	2758.7	2541.5	2421.4	2296.6	2268.9	2241.2
10°	4066.4	3840.0	3401.0	2985.1	2647.8	2365.9	2121.0	1968.5	1839.1	1806.8	1779.1
12.5°	4080.3	3803.0	3253.1	2749.5	2347.4	2028.6	1751.3	1594.2	1474.1	1441.7	1423.2
15°	4112.6	3779.9	3128.4	2536.9	2079.4	1723.6	1451.0	1317.0	1219.9	1187.6	1178.3
17.5°	4140.4	3756.8	2994.4	2329.0	1811.4	1455.6	1219.9	1109.0	1025.8	993.5	984.3
20°	4177.3	3724.5	2860.4	2130.2	1575.7	1243.0	1035.1	938.0	873.4	850.3	845.6
22.5°	4209.7	3701.4	2735.6	1931.5	1358.6	1072.1	896.5	817.9	771.7	748.6	748.6
25°	4292.8	3710.6	2629.3	1746.7	1196.8	938.0	790.2	730.1	693.1	679.3	679.3
27.5°	4389.9	3747.6	2546.1	1589.6	1058.2	836.4	716.2	665.4	646.9	628.4	633.1
30°	4528.5	3821.5	2490.7	1460.2	956.5	757.8	656.2	619.2	600.7	596.1	596.1
32.5°	4704.1	3941.7	2486.1	1377.0	882.6	697.8	614.6	582.2	573.0	568.4	568.4
35°	4912.1	4047.9	2458.3	1340.1	836.4	656.2	582.2	559.1	554.5	554.5	554.5
37.5°	5161.6	4223.5	2439.9	1289.2	813.3	633.1	559.1	540.6	540.6	540.6	540.6
40°	5420.4	4366.8	2412.1	1243.0	804.0	619.2	545.3	522.2	522.2	522.2	522.2
42.5°	5730.0	4574.7	2402.9	1219.9	790.2	610.0	526.8	499.1	503.7	503.7	508.3
45°	6104.3	4810.4	2398.3	1196.8	785.6	600.7	508.3	476.0	480.6	476.0	476.0
47.5°	6483.2	5083.0	2412.1	1183.0	780.9	591.5	494.4	452.9	452.9	448.2	448.2
50°	6880.6	5332.6	2421.4	1169.1	771.7	573.0	471.3	434.4	425.1	415.9	420.5
52.5°	7254.9	5563.6	2426.0	1146.0	744.0	545.3	452.9	411.3	397.4	383.5	388.2
55°	7629.2	5785.4	2435.2	1118.3	707.0	517.5	429.7	388.2	369.7	351.2	351.2
57.5°	7966.5	5979.5	2412.1	1049.0	665.4	489.8	406.6	360.4	332.7	314.2	314.2
60°	8197.5	6118.1	2342.8	947.3	610.0	457.5	383.5	332.7	300.4	286.5	286.5
62.5°	8308.4	6141.2	2218.0	780.9	540.6	425.1	355.8	305.0	277.3	268.0	268.0
65°	8202.2	6039.6	2024.0	586.9	466.7	388.2	328.1	281.9	254.2	231.0	231.0
67.5°	7832.5	5753.1	1756.0	443.6	397.4	351.2	300.4	258.8	226.4	207.9	207.9
70°	7088.5	5157.0	1358.6	355.8	337.3	305.0	272.6	231.0	203.3	180.2	180.2
72.5°	6113.5	4371.4	956.5	286.5	286.5	258.8	231.0	203.3	175.6	157.1	157.1
75°	4690.2	3234.7	642.3	231.0	235.7	217.2	189.5	166.4	147.9	134.0	134.0
77.5°	2560.0	1598.8	392.8	171.0	175.6	166.4	147.9	134.0	124.8	110.9	110.9
80°	1243.0	702.4	226.4	120.1	124.8	120.1	110.9	97.0	97.0	87.8	87.8
82.5°	522.2	263.4	120.1	83.2	83.2	73.9	69.3	69.3	69.3	64.7	64.7
85°	129.4	50.8	50.8	46.2	46.2	46.2	41.6	41.6	41.6	32.3	37.0
87.5°	18.5	18.5	18.5	18.5	18.5	18.5	13.9	4.6	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)