

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: P265692

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-220-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15637.9 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 222
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: 28.75 FT

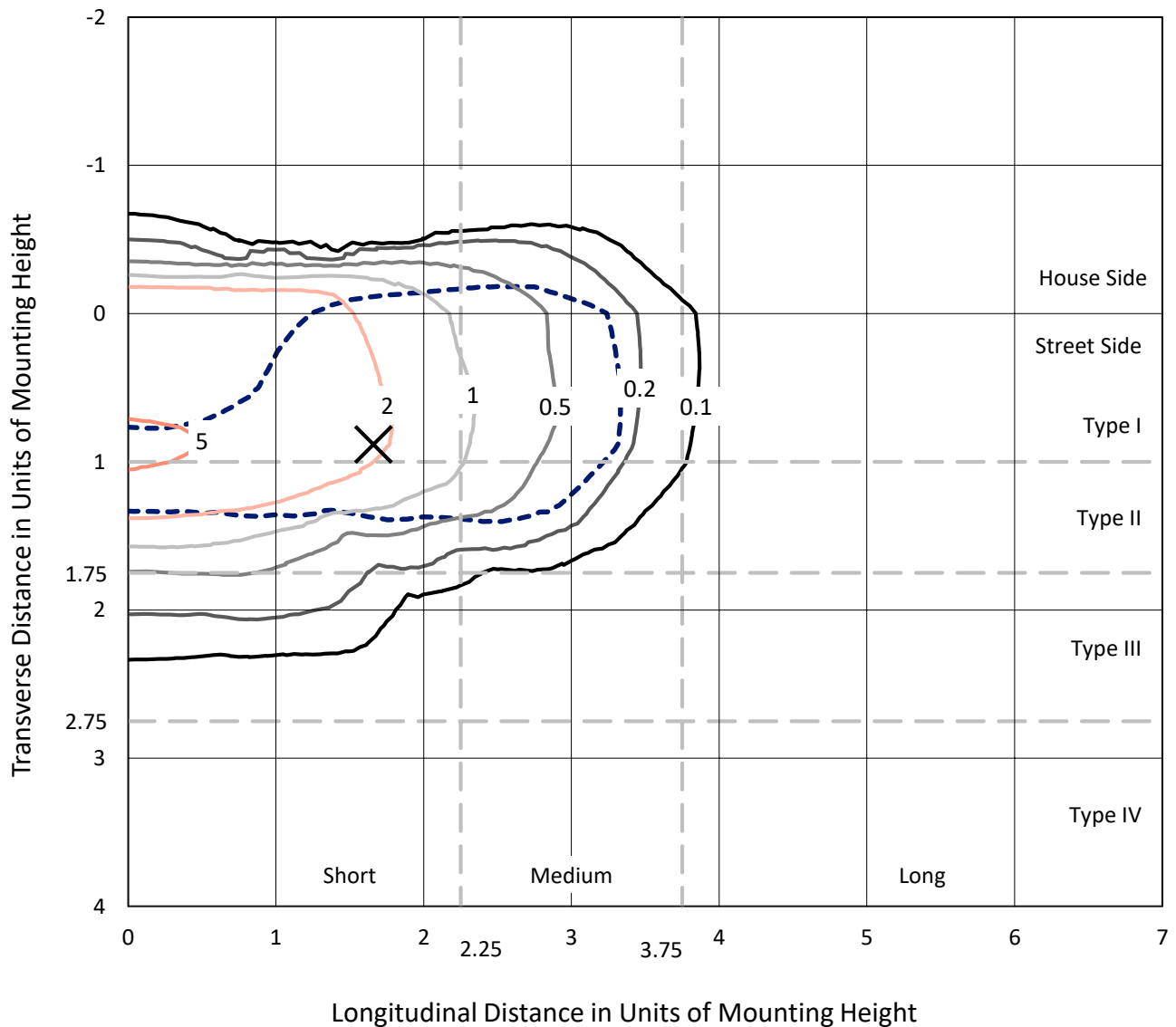


REPORT NUMBER: P265692

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T2U-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

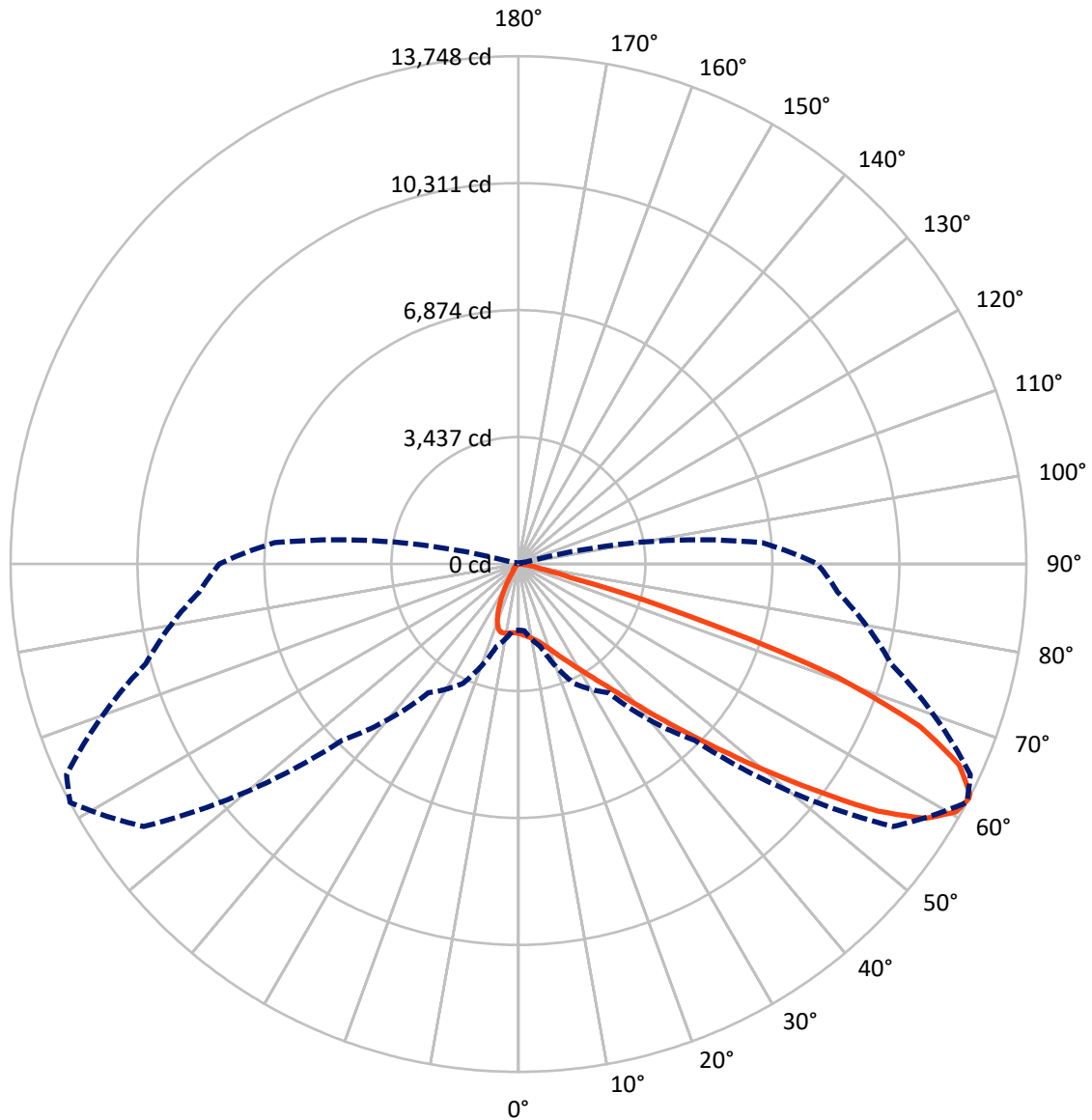


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P265692

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T2U-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P265692

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T2U-7027-HSS

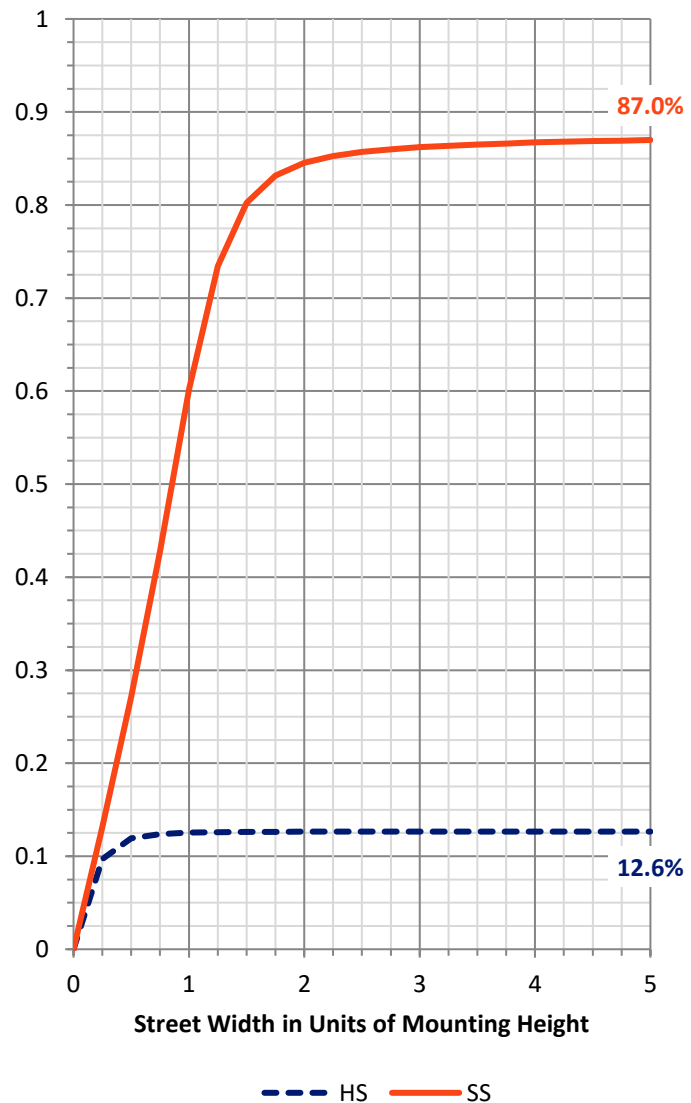
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1999.5	0.0	1999.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13638.4	0.0	13638.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	15637.9	0.0	15637.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.2
10°-20°	506.3	3.2
20°-30°	850.2	5.4
30°-40°	1629.8	10.4
40°-50°	3328.9	21.3
50°-60°	4405.3	28.2
60°-70°	3422.2	21.9
70°-80°	1235.2	7.9
80°-90°	78.7	0.5
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°	15637.9	100.0
0°-180°	15637.9	100.0

Coefficient of Utilization



REPORT NUMBER: P265692

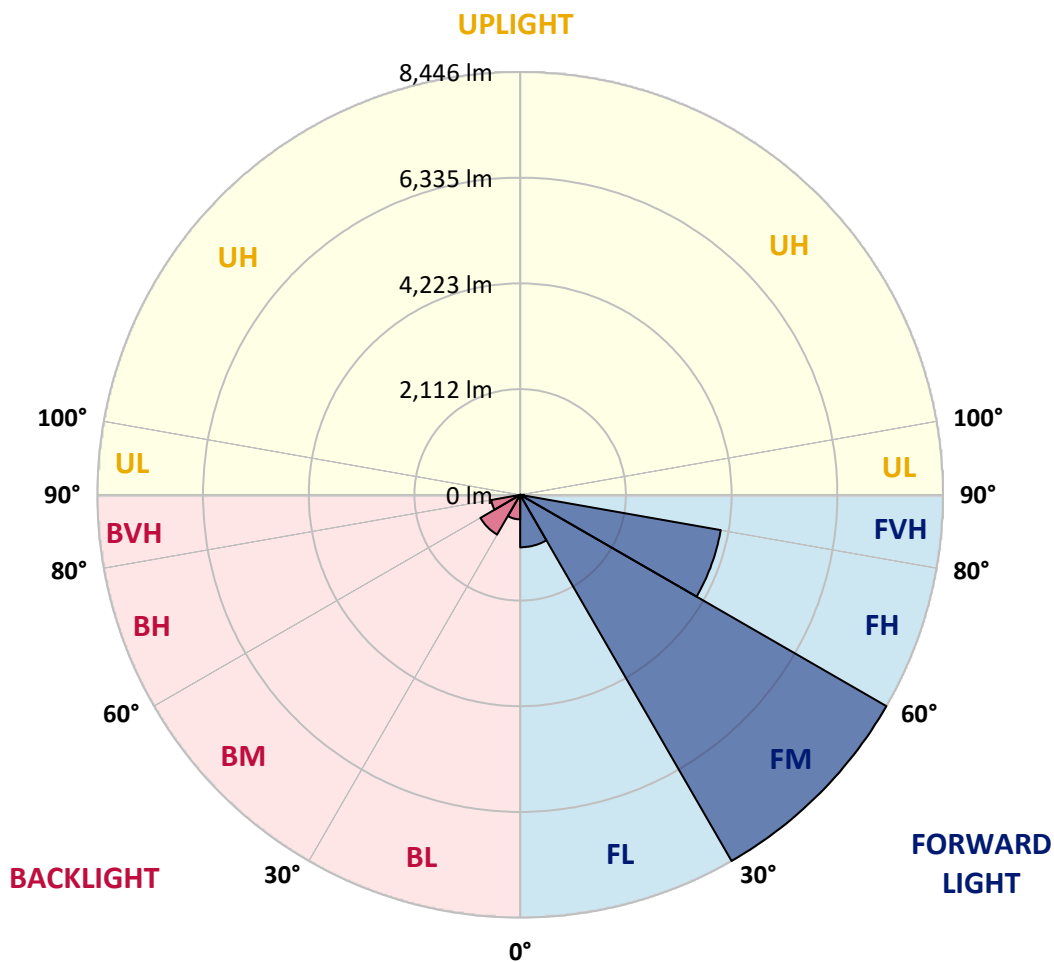
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.4	6.7			
FM (30°-60°)	8446.1	54.0			
FH (60°-80°)	4068.6	26.0			G2/5000
FVH (80°-90°)	75.3	0.5			G1/100
BL (0°-30°)	489.4	3.1	B1/500		
BM (30°-60°)	917.9	5.9	B1/1000		
BH (60°-80°)	588.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P265692

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7
2.5°	1933.8	1929.9	1926.1	1922.3	1922.3	1918.4	1914.6	1906.8	1899.1	1891.6	1887.7
5°	1968.4	1964.6	1960.7	1964.6	1960.7	1960.7	1956.9	1949.1	1941.4	1929.9	1918.4
7.5°	1995.2	1991.5	1987.6	1991.5	1995.2	1999.1	2003.0	1995.2	1991.5	1976.0	1964.6
10°	2029.9	2026.0	2022.3	2029.9	2029.9	2049.2	2052.9	2049.2	2045.4	2033.8	2014.4
12.5°	2079.8	2083.7	2083.7	2091.4	2099.1	2122.2	2129.8	2118.4	2118.4	2102.9	2079.8
15°	2172.1	2172.1	2172.1	2179.7	2183.7	2214.4	2222.0	2210.5	2218.3	2191.3	2168.2
17.5°	2260.6	2264.4	2272.2	2287.4	2287.4	2314.4	2329.8	2329.8	2345.1	2310.5	2279.8
20°	2349.0	2352.8	2364.3	2399.0	2399.0	2433.6	2460.5	2472.0	2487.3	2452.8	2399.0
22.5°	2445.0	2445.0	2464.3	2518.0	2506.6	2575.8	2625.7	2645.0	2660.4	2614.2	2529.6
25°	2591.3	2575.8	2591.3	2641.1	2633.6	2729.6	2821.8	2841.1	2860.4	2806.5	2679.6
27.5°	2868.0	2844.9	2791.2	2794.9	2794.9	2906.5	3037.1	3064.1	3075.5	3029.4	2871.8
30°	3421.6	3421.6	3221.7	3087.1	2998.7	3098.7	3283.1	3329.3	3344.7	3275.5	3067.9
32.5°	4386.6	4386.6	4017.5	3675.3	3340.8	3340.8	3552.3	3636.9	3652.2	3571.5	3329.3
35°	5616.8	5609.0	5055.5	4586.4	3932.9	3686.9	3867.6	4009.8	4055.9	3948.3	3667.6
37.5°	6923.9	6873.9	6278.1	5739.8	4844.0	4240.4	4294.3	4482.6	4524.9	4436.5	4106.0
40°	7984.9	7927.4	7446.8	6997.0	6020.4	5124.7	4909.3	5082.4	5132.3	5009.4	4628.7
42.5°	8946.1	8803.8	8473.3	8150.3	7373.6	6654.9	5728.3	5797.5	5851.3	5720.5	5216.9
45°	9642.0	9422.9	9253.7	9153.6	8742.3	8334.8	6789.3	6651.0	6670.2	6508.7	5858.9
47.5°	9661.2	9507.4	9522.8	9784.2	9953.4	9937.9	8169.5	7677.5	7604.4	7335.3	6543.3
50°	8738.5	8826.9	9107.6	9853.4	10768.4	11322.0	9811.1	8892.3	8673.1	8188.7	7223.8
52.5°	7200.8	7339.2	7865.7	9122.9	10887.5	12233.1	11514.2	10280.2	9888.1	9034.6	7746.7
55°	5639.9	5647.6	6201.1	7481.4	10091.7	12398.4	12875.1	11806.5	11206.6	9676.5	8092.7
57.5°	3879.2	4090.5	4794.1	5655.2	8296.3	11575.6	13386.5	12990.5	12217.8	10072.5	8334.8
60°	2541.1	2552.8	3371.6	4367.3	5647.6	9419.0	13075.1	13617.1	13036.7	10307.1	8500.1
62°	1791.5	1810.8	2318.3	3567.7	4255.8	6750.9	12386.9	13747.8	13497.9	10445.4	8673.1
62.5°	1660.8	1676.1	2102.9	3367.7	3998.3	6055.0	12140.9	13717.1	13567.1	10491.6	8734.7
65°	1218.7	1218.7	1376.4	2314.4	2929.6	3271.6	10287.7	13105.8	13474.8	10860.7	8965.4
67.5°	942.0	949.6	1003.3	1426.2	2210.5	1983.7	6566.4	11729.4	12513.7	11406.6	9096.1
70°	811.2	807.3	845.8	945.7	1595.5	1318.6	2891.0	9153.6	10480.0	11268.2	8976.9
72.5°	599.8	603.7	692.1	830.5	1111.1	857.3	1307.2	4859.4	6797.0	8819.2	7692.7
75°	384.5	388.2	488.3	653.5	799.6	561.4	753.5	1449.3	2783.4	4890.2	4705.6
77.5°	257.5	265.3	319.1	457.4	699.7	349.8	472.9	607.4	838.1	1833.8	1687.7
80°	173.1	173.1	203.7	307.6	442.1	292.2	253.7	403.7	434.4	568.9	284.6
82.5°	115.3	115.3	134.6	203.7	288.4	261.4	153.8	219.1	253.7	284.6	99.9
85°	69.2	69.2	92.3	126.9	188.4	146.1	99.9	123.0	130.8	180.6	53.8
87.5°	42.3	38.4	61.5	88.5	99.9	88.5	65.3	65.3	69.2	99.9	26.9
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: P265692

CATALOG NUMBER: ARCH-L-AF72-220-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7
2.5°	1880.0	1876.1	1872.2	1864.6	1853.1	1845.4	1837.7	1829.9	1822.3	1822.3	1833.8
5°	1914.6	1903.0	1887.7	1872.2	1849.3	1833.8	1822.3	1806.9	1799.2	1799.2	1803.1
7.5°	1956.9	1945.3	1918.4	1891.6	1856.8	1829.9	1803.1	1768.5	1741.5	1730.0	1741.5
10°	2003.0	1987.6	1949.1	1906.8	1868.5	1799.2	1710.8	1603.1	1510.9	1468.5	1487.9
12.5°	2060.6	2041.4	1995.2	1937.6	1849.3	1680.0	1461.0	1211.0	1053.4	980.3	995.7
15°	2145.2	2118.4	2052.9	1964.6	1768.5	1403.2	1045.6	757.5	611.2	549.8	557.5
17.5°	2245.1	2210.5	2122.2	1956.9	1560.8	1011.1	622.9	442.1	380.6	365.3	365.3
20°	2352.8	2306.7	2191.3	1899.1	1245.6	634.4	388.2	338.3	315.2	303.6	303.6
22.5°	2464.3	2402.7	2249.0	1764.6	888.1	396.1	319.1	284.6	257.5	246.0	246.0
25°	2598.8	2518.0	2306.7	1530.2	565.2	319.1	272.9	238.4	211.5	196.1	200.0
27.5°	2756.4	2652.7	2356.7	1238.0	365.3	276.8	226.8	192.2	169.2	161.4	161.4
30°	2921.7	2798.8	2368.2	926.5	296.0	238.4	188.4	157.7	142.2	134.6	134.6
32.5°	3148.6	2987.1	2333.5	615.1	249.9	200.0	157.7	130.8	119.1	115.3	115.3
35°	3448.6	3233.2	2252.9	380.6	211.5	165.3	130.8	115.3	103.8	99.9	99.9
37.5°	3829.0	3575.3	2110.6	261.4	180.6	134.6	111.5	99.9	92.3	88.5	88.5
40°	4336.6	3990.6	1926.1	226.8	153.8	115.3	96.1	88.5	80.8	80.8	80.8
42.5°	4874.8	4494.2	1687.7	200.0	130.8	99.9	84.6	76.8	73.0	69.2	69.2
45°	5463.0	5009.4	1391.7	176.8	111.5	88.5	76.8	65.3	61.5	61.5	61.5
47.5°	6047.4	5539.8	1068.8	153.8	96.1	76.8	65.3	57.8	53.8	49.9	49.9
50°	6647.1	6020.4	784.3	134.6	84.6	69.2	57.8	49.9	42.3	38.4	38.4
52.5°	7081.5	6308.7	572.8	115.3	73.0	57.8	46.2	38.4	30.7	26.9	26.9
55°	7400.6	6485.7	419.1	96.1	65.3	49.9	38.4	30.7	23.0	23.0	19.3
57.5°	7650.5	6570.3	315.2	84.6	57.8	42.3	30.7	23.0	19.3	15.5	15.5
60°	7842.7	6574.1	234.5	69.2	49.9	34.7	23.0	15.5	11.6	11.6	11.6
62°	8096.5	6624.0	192.2	57.8	46.2	30.7	19.3	11.6	7.6	3.9	3.9
62.5°	8169.5	6643.2	184.5	57.8	42.3	26.9	15.5	11.6	7.6	3.9	3.9
65°	8507.8	6677.9	142.2	46.2	34.7	23.0	11.6	7.6	0.0	0.0	0.0
67.5°	8815.3	6624.0	103.8	34.7	26.9	15.5	11.6	3.9	0.0	0.0	0.0
70°	8784.6	6255.0	73.0	23.0	19.3	11.6	7.6	0.0	0.0	0.0	0.0
72.5°	7239.1	4682.5	49.9	19.3	11.6	7.6	3.9	0.0	0.0	0.0	0.0
75°	4371.2	2049.2	34.7	11.6	11.6	7.6	3.9	0.0	0.0	0.0	0.0
77.5°	1434.0	742.0	23.0	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0
80°	234.5	123.0	11.6	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0
82.5°	73.0	30.7	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	26.9	11.6	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	7.6	7.6	7.6	3.9	3.9	0.0	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)