

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: P800148

Luminaire Tested: **ARCH2-80-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7366 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.3
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

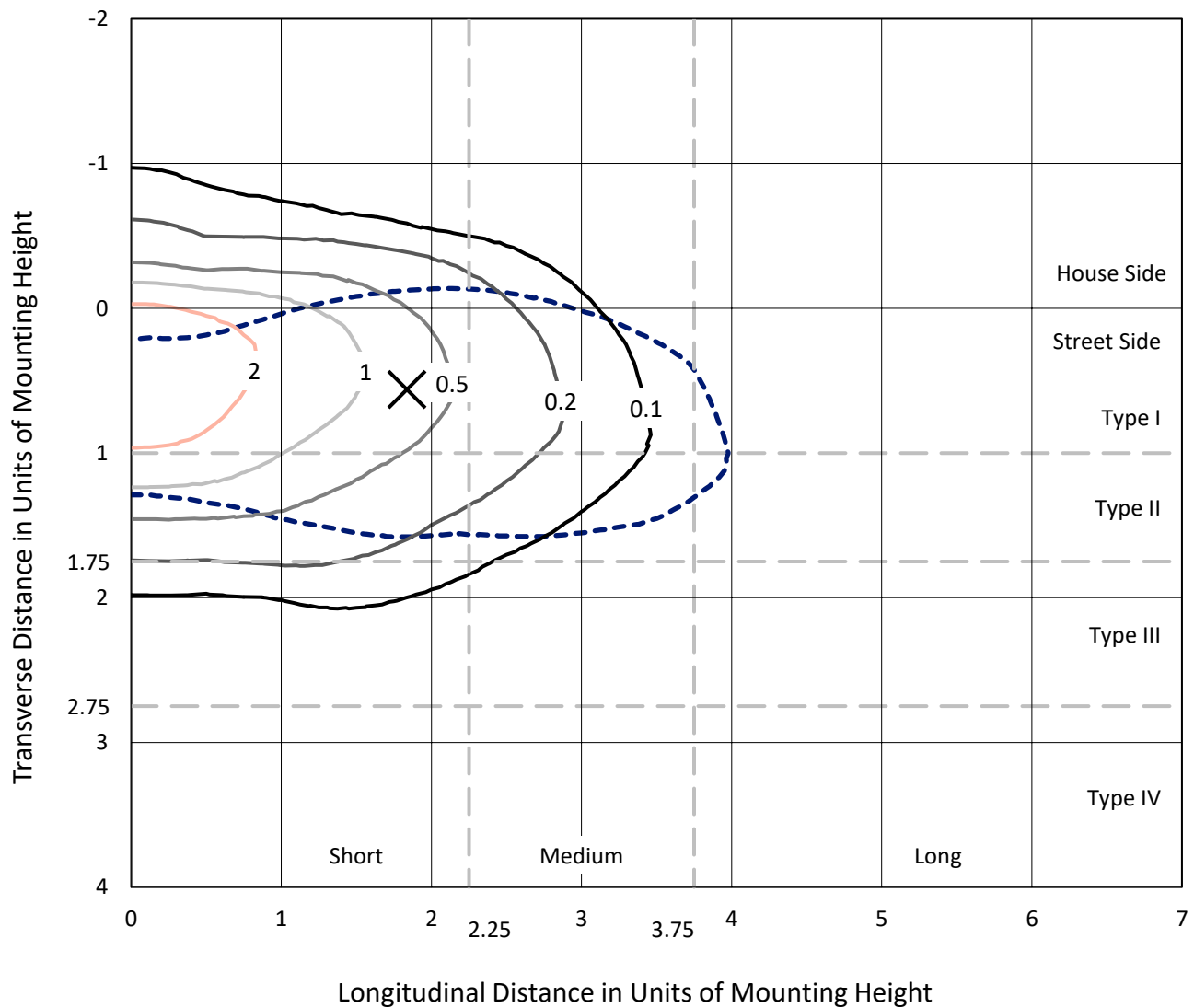


REPORT NUMBER: P800148

CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS

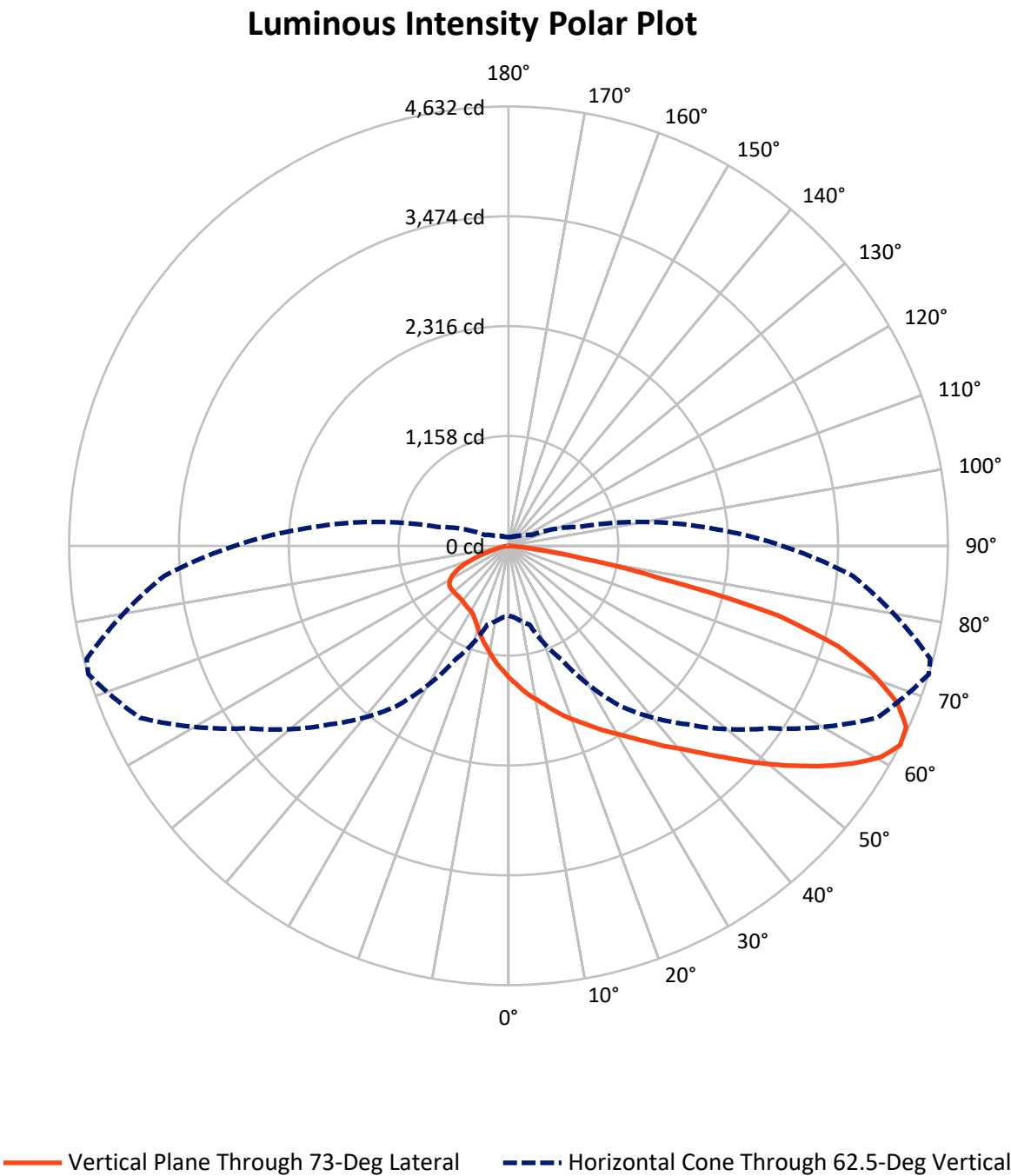
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

REPORT NUMBER: P800148
CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS



REPORT NUMBER: P800148

CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS

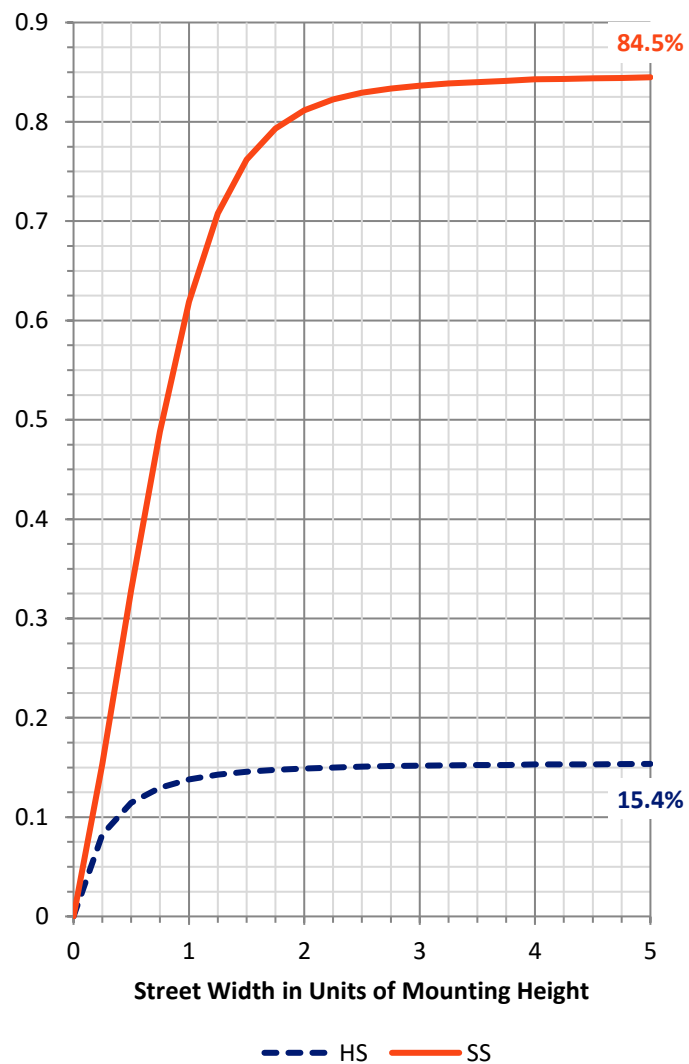
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.8	0.0	1141.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6224.2	0.0	6224.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	7366.0	0.0	7366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.8
10°-20°	406.6	5.5
20°-30°	676.8	9.2
30°-40°	1021.2	13.9
40°-50°	1427.3	19.4
50°-60°	1576.6	21.4
60°-70°	1373.4	18.6
70°-80°	693.8	9.4
80°-90°	55.7	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°	7366.0	100.0
0°-180°	7366.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800148

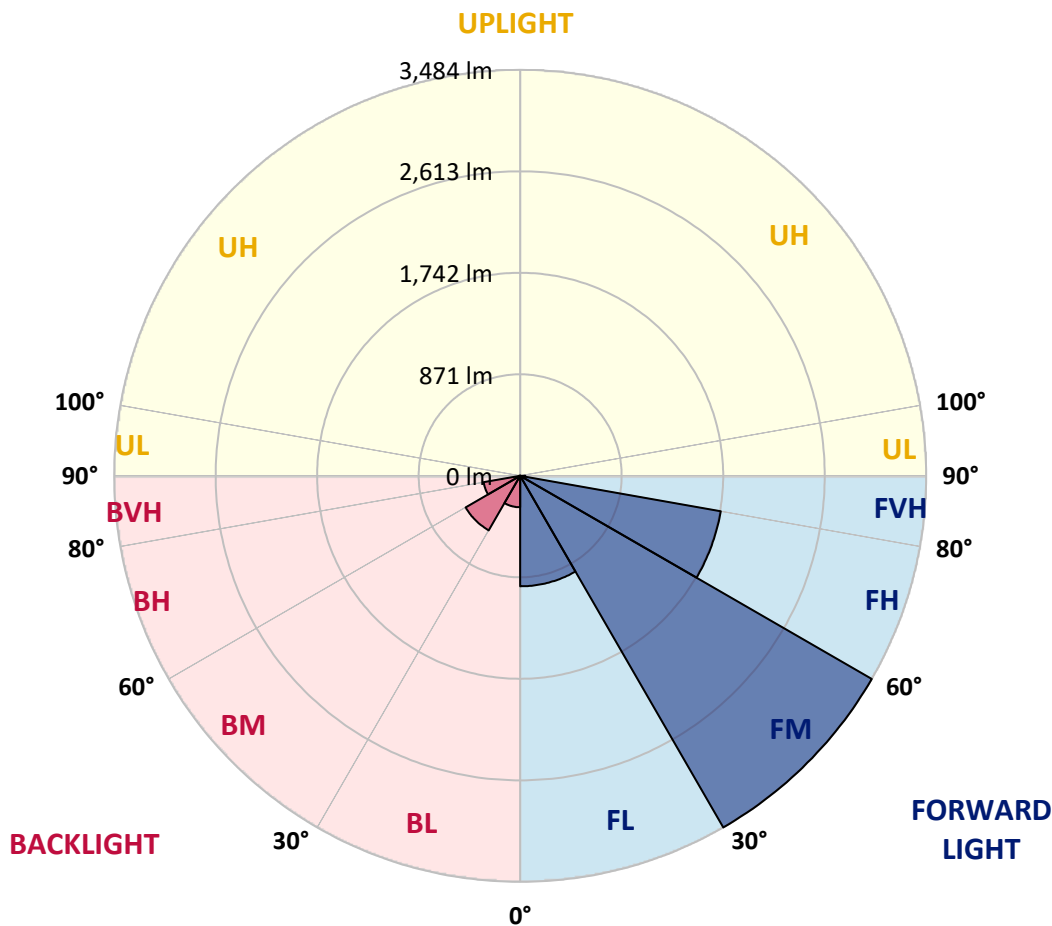
CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.2	12.9			
FM	(30°-60°)	3484.4	47.3			
FH	(60°-80°)	1748.5	23.7			G1/1800
FVH	(80°-90°)	43.1	0.6			G1/100
BL	(0°-30°)	269.9	3.7	B1/500		
BM	(30°-60°)	540.7	7.3	B1/1000		
BH	(60°-80°)	318.7	4.3	B1/500		G1/500
BVH	(80°-90°)	12.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P800148

CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1587.4	1605.0	1595.4	1601.8	1569.7	1548.9	1524.8	1478.2	1452.5	1449.3	1418.8
5°	1820.1	1839.4	1823.3	1818.5	1762.3	1714.2	1659.6	1577.7	1523.2	1513.5	1446.1
7.5°	2052.8	2070.5	2051.2	2036.8	1961.3	1876.3	1796.0	1675.6	1590.6	1574.5	1468.6
10°	2216.5	2232.6	2218.1	2203.7	2125.1	2038.4	1924.4	1767.1	1651.6	1625.9	1483.0
12.5°	2340.1	2349.8	2343.3	2330.5	2256.7	2163.6	2054.4	1869.9	1720.6	1688.5	1505.5
15°	2441.2	2457.3	2449.3	2439.6	2369.0	2275.9	2171.6	1977.4	1800.8	1760.7	1539.2
17.5°	2508.7	2519.9	2521.5	2521.5	2458.9	2367.4	2266.3	2075.3	1881.1	1829.7	1571.3
20°	2539.2	2552.0	2560.0	2572.9	2521.5	2442.8	2340.1	2158.8	1956.5	1898.7	1601.8
22.5°	2553.6	2564.8	2585.7	2614.6	2572.9	2507.1	2412.4	2235.8	2032.0	1971.0	1637.1
25°	2564.8	2579.3	2609.8	2664.3	2635.5	2579.3	2497.4	2324.1	2121.8	2059.2	1688.5
27.5°	2595.3	2613.0	2641.9	2707.7	2672.4	2645.1	2587.3	2418.8	2216.5	2152.3	1751.1
30°	2701.3	2715.7	2714.1	2755.8	2712.5	2704.5	2664.3	2510.3	2308.0	2243.8	1824.9
32.5°	2893.9	2908.3	2873.0	2856.9	2762.2	2763.9	2747.8	2608.2	2417.2	2351.4	1910.0
35°	3100.9	3117.0	3070.4	3043.1	2884.2	2837.7	2845.7	2730.1	2539.2	2473.3	2015.9
37.5°	3285.5	3304.7	3264.6	3224.5	3064.0	2956.5	2954.9	2866.6	2678.8	2611.4	2133.1
40°	3386.6	3409.1	3433.2	3410.7	3242.2	3123.4	3072.0	3006.2	2816.8	2747.8	2259.9
42.5°	3434.8	3497.4	3540.7	3526.2	3388.2	3267.8	3206.8	3152.3	2985.3	2917.9	2410.7
45°	3299.9	3301.5	3393.0	3471.7	3446.0	3365.7	3354.5	3316.0	3178.0	3113.8	2580.9
47.5°	3131.4	3118.6	3182.8	3322.4	3394.6	3415.5	3481.3	3497.4	3397.8	3333.6	2754.2
50°	2726.9	2735.0	2943.6	3144.2	3285.5	3420.3	3571.2	3683.5	3624.1	3563.2	2937.2
52.5°	2218.1	2237.4	2476.6	2917.9	3141.0	3372.2	3624.1	3869.7	3855.3	3797.5	3120.2
55°	1778.4	1808.9	2062.5	2540.8	2956.5	3264.6	3646.6	4039.9	4094.4	4041.5	3299.9
57.5°	1359.5	1391.6	1605.0	2096.2	2720.5	3089.7	3630.6	4189.1	4317.5	4283.8	3465.3
60°	1024.0	1056.1	1192.5	1699.7	2425.2	2893.9	3550.3	4287.0	4518.1	4482.8	3585.6
62.5°	733.5	759.2	860.3	1322.5	2065.7	2661.1	3352.9	4288.6	4632.1	4603.2	3643.4
65°	528.1	528.1	609.9	943.8	1728.6	2381.9	3054.4	4091.2	4608.0	4600.0	3603.3
67.5°	380.4	383.6	449.4	659.7	1378.7	2043.2	2667.6	3739.7	4421.8	4462.0	3458.8
70°	269.6	277.7	308.2	460.6	1041.7	1613.1	2253.5	3279.1	4086.4	4157.0	3179.6
72.5°	208.7	213.5	234.3	321.0	760.8	1199.0	1796.0	2765.5	3638.6	3718.8	2799.2
75°	160.5	165.3	181.4	235.9	545.7	841.0	1276.0	2145.9	2934.0	3076.8	2248.6
77.5°	117.2	123.6	134.8	171.7	317.8	534.5	773.6	1207.0	1619.5	1686.9	1178.1
80°	54.6	62.6	78.6	110.7	171.7	252.0	274.5	465.5	778.4	813.7	638.8
82.5°	30.5	38.5	44.9	67.4	86.7	89.9	93.1	117.2	293.7	324.2	268.0
85°	14.4	19.3	20.9	28.9	28.9	25.7	30.5	22.5	48.2	57.8	56.2
87.5°	0.0	1.6	3.2	8.0	6.4	4.8	4.8	4.8	4.8	6.4	4.8
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: P800148

CATALOG NUMBER: ARCH2-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1404.4	1383.5	1335.4	1293.7	1266.4	1242.3	1210.2	1195.7	1170.1	1174.9	1160.4
5°	1412.4	1373.9	1288.8	1210.2	1152.4	1101.0	1044.9	1012.8	977.5	974.3	963.0
7.5°	1417.2	1357.9	1235.9	1125.1	1036.8	958.2	882.8	841.0	797.7	788.1	778.4
10°	1412.4	1333.8	1181.3	1036.8	919.7	821.8	736.7	683.7	638.8	627.6	617.9
12.5°	1417.2	1320.9	1129.9	955.0	815.4	704.6	608.3	553.7	512.0	500.8	494.3
15°	1428.5	1312.9	1086.6	881.2	722.3	598.7	504.0	457.4	423.7	412.5	409.3
17.5°	1438.1	1304.9	1040.1	808.9	629.2	505.6	423.7	385.2	356.3	345.1	341.9
20°	1450.9	1293.7	993.5	739.9	547.3	431.8	359.5	325.8	303.3	295.3	293.7
22.5°	1462.2	1285.6	950.2	670.9	471.9	372.4	311.4	284.1	268.0	260.0	260.0
25°	1491.1	1288.8	913.3	606.7	415.7	325.8	274.5	253.6	240.8	235.9	235.9
27.5°	1524.8	1301.7	884.4	552.1	367.6	290.5	248.8	231.1	224.7	218.3	219.9
30°	1572.9	1327.4	865.1	507.2	332.2	263.2	227.9	215.1	208.7	207.0	207.0
32.5°	1633.9	1369.1	863.5	478.3	306.6	242.4	213.5	202.2	199.0	197.4	197.4
35°	1706.1	1406.0	853.9	465.5	290.5	227.9	202.2	194.2	192.6	192.6	192.6
37.5°	1792.8	1467.0	847.5	447.8	282.5	219.9	194.2	187.8	187.8	187.8	187.8
40°	1882.7	1516.7	837.8	431.8	279.3	215.1	189.4	181.4	181.4	181.4	181.4
42.5°	1990.2	1589.0	834.6	423.7	274.5	211.9	183.0	173.3	174.9	174.9	176.6
45°	2120.2	1670.8	833.0	415.7	272.9	208.7	176.6	165.3	166.9	165.3	165.3
47.5°	2251.9	1765.5	837.8	410.9	271.2	205.4	171.7	157.3	157.3	155.7	155.7
50°	2389.9	1852.2	841.0	406.1	268.0	199.0	163.7	150.9	147.7	144.5	146.1
52.5°	2519.9	1932.5	842.6	398.0	258.4	189.4	157.3	142.8	138.0	133.2	134.8
55°	2649.9	2009.5	845.8	388.4	245.6	179.8	149.3	134.8	128.4	122.0	122.0
57.5°	2767.1	2076.9	837.8	364.3	231.1	170.1	141.2	125.2	115.6	109.1	109.1
60°	2847.3	2125.1	813.7	329.0	211.9	158.9	133.2	115.6	104.3	99.5	99.5
62.5°	2885.8	2133.1	770.4	271.2	187.8	147.7	123.6	105.9	96.3	93.1	93.1
65°	2848.9	2097.8	703.0	203.8	162.1	134.8	114.0	97.9	88.3	80.3	80.3
67.5°	2720.5	1998.3	609.9	154.1	138.0	122.0	104.3	89.9	78.6	72.2	72.2
70°	2462.1	1791.2	471.9	123.6	117.2	105.9	94.7	80.3	70.6	62.6	62.6
72.5°	2123.4	1518.4	332.2	99.5	99.5	89.9	80.3	70.6	61.0	54.6	54.6
75°	1629.1	1123.5	223.1	80.3	81.9	75.4	65.8	57.8	51.4	46.5	46.5
77.5°	889.2	555.3	136.4	59.4	61.0	57.8	51.4	46.5	43.3	38.5	38.5
80°	431.8	244.0	78.6	41.7	43.3	41.7	38.5	33.7	33.7	30.5	30.5
82.5°	181.4	91.5	41.7	28.9	28.9	25.7	24.1	24.1	24.1	22.5	22.5
85°	44.9	17.7	17.7	16.1	16.1	16.1	14.4	14.4	14.4	11.2	12.8
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	4.8	1.6	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)