

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: P1210634

Luminaire Tested: **ARCH3-180-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17314 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180.5
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



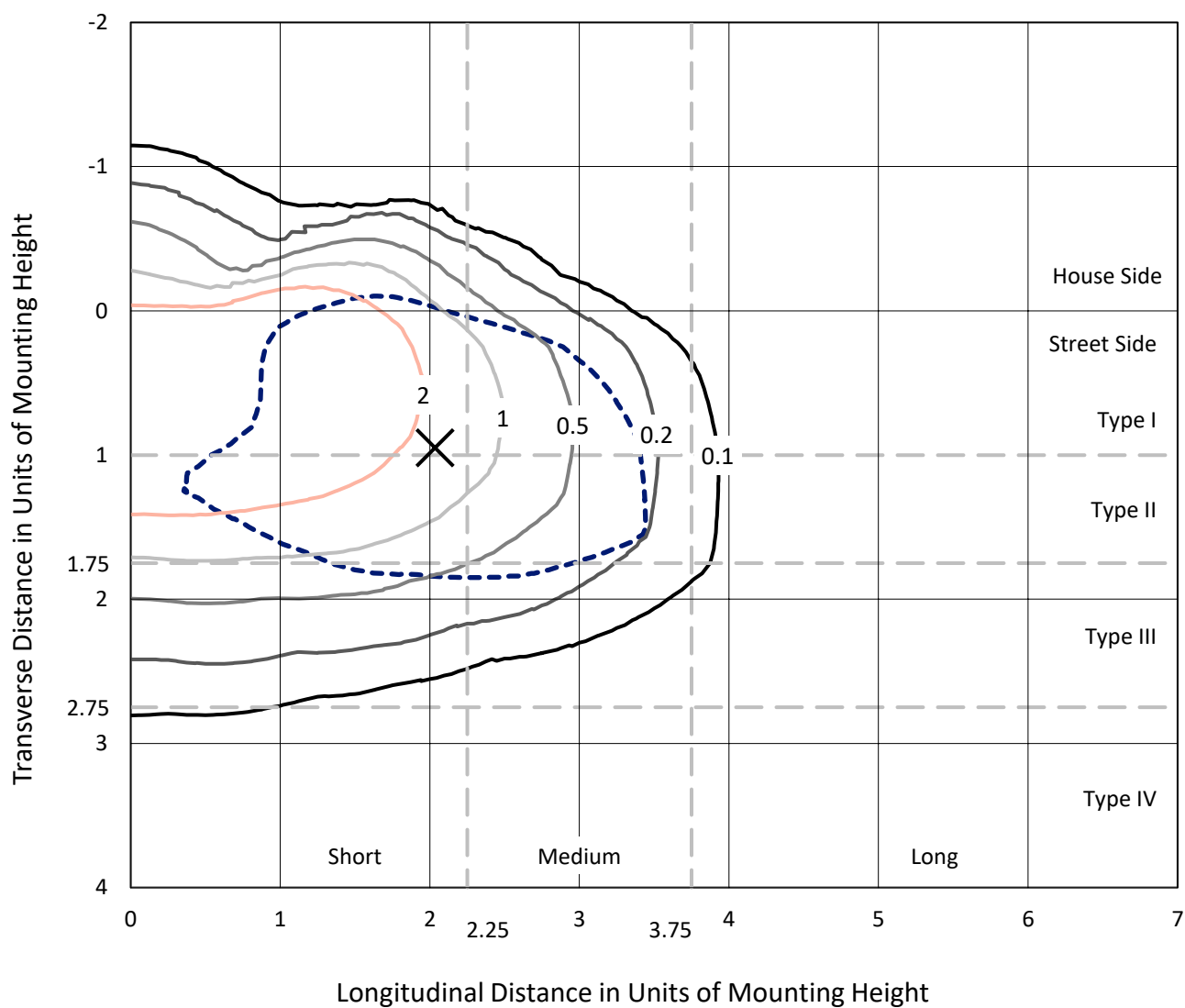
REPORT NUMBER: P1210634

CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

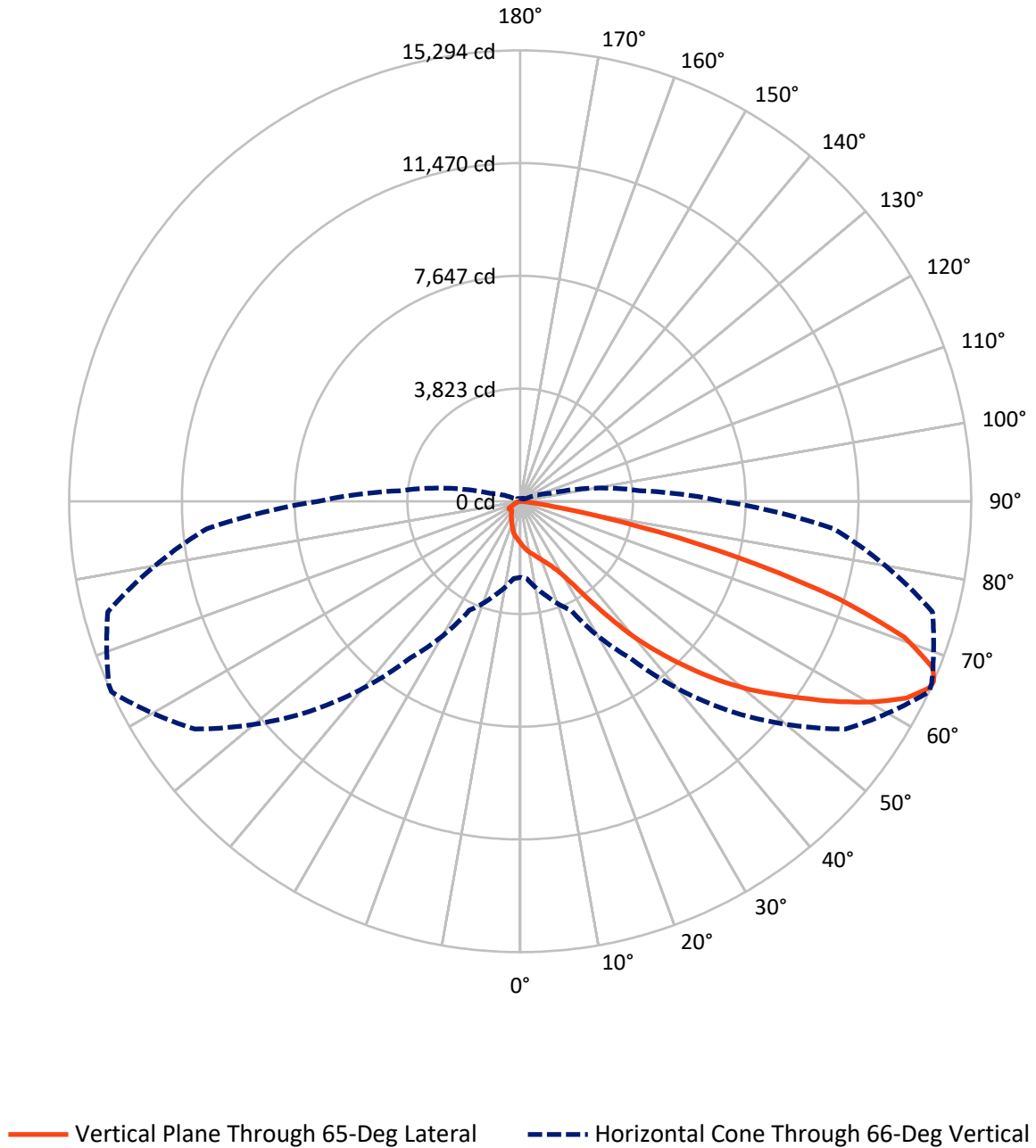
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

REPORT NUMBER: P1210634
CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210634

CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

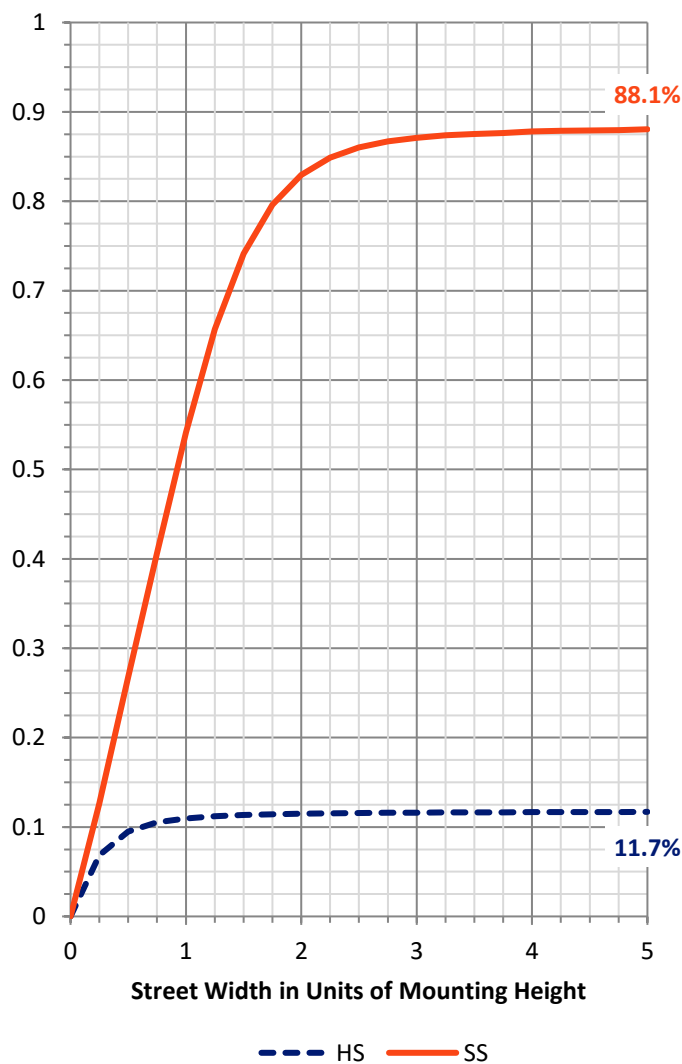
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.4	0.0	2043.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15270.6	0.0	15270.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	17314.0	0.0	17314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	0.8
10°-20°	395.9	2.3
20°-30°	724.6	4.2
30°-40°	1472.3	8.5
40°-50°	3109.1	18.0
50°-60°	4779.7	27.6
60°-70°	4811.1	27.8
70°-80°	1797.7	10.4
80°-90°	89.8	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°	17314.0	100.0
0°-180°	17314.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210634

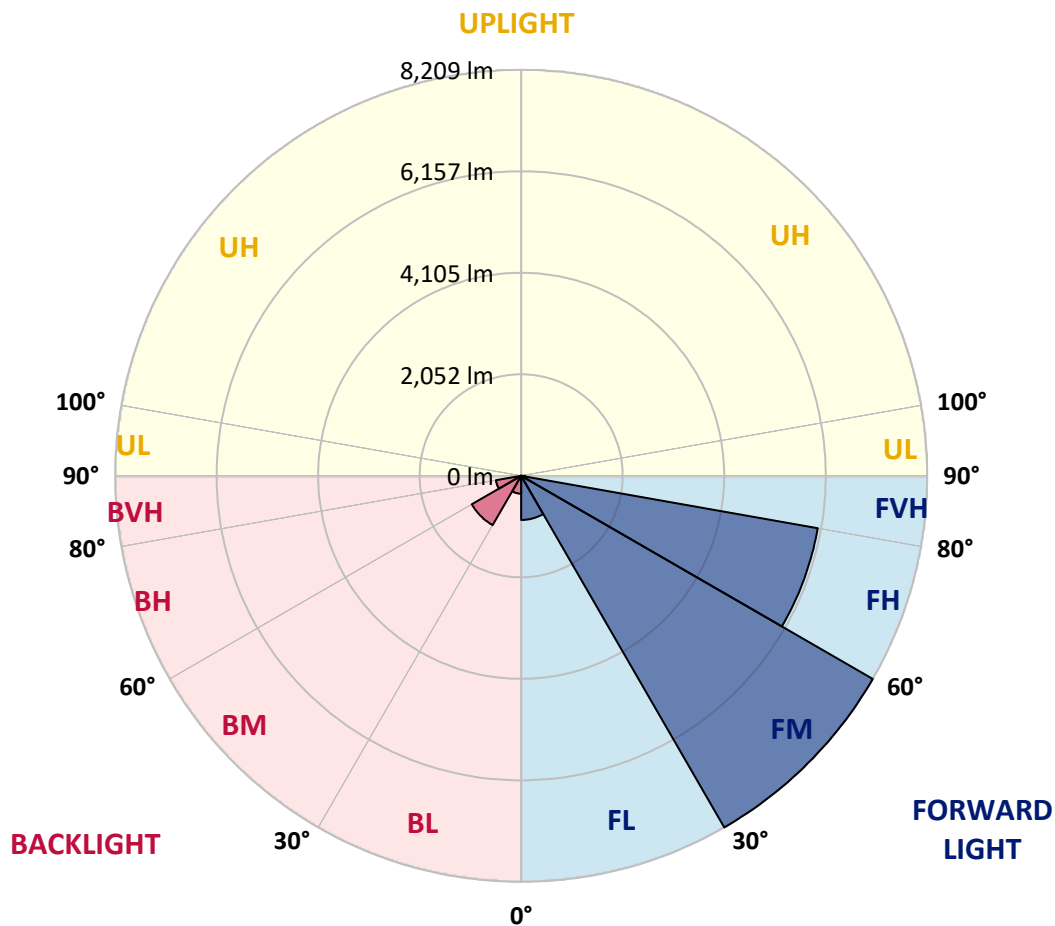
CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.5	5.2			
FM	(30°-60°)	8209.1	47.4			
FH	(60°-80°)	6089.7	35.2			G3/7500
FVH	(80°-90°)	79.2	0.5			G1/100
BL	(0°-30°)	361.7	2.1	B1/500		
BM	(30°-60°)	1152.1	6.7	B2/2500		
BH	(60°-80°)	519.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.6	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-G3

Type III Short



REPORT NUMBER: P1210634

CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1608.5	1611.7	1605.4	1592.8	1580.3	1564.5	1539.4	1498.6	1492.3	1464.0	1432.6
5°	1718.5	1724.8	1715.3	1712.2	1705.9	1683.9	1649.4	1589.7	1583.4	1526.8	1454.6
7.5°	1756.2	1765.6	1759.3	1759.3	1759.3	1749.9	1734.2	1680.8	1671.4	1599.1	1489.1
10°	1784.5	1790.7	1787.6	1800.2	1809.6	1803.3	1793.9	1762.5	1753.0	1680.8	1536.3
12.5°	1828.4	1831.6	1834.7	1841.0	1856.7	1863.0	1859.9	1831.6	1825.3	1775.0	1596.0
15°	1869.3	1869.3	1872.4	1900.7	1922.7	1935.3	1938.4	1916.4	1910.1	1869.3	1671.4
17.5°	1907.0	1910.1	1919.6	1951.0	1988.7	2013.8	2029.5	2020.1	2010.7	1979.2	1759.3
20°	1963.5	1969.8	1979.2	2023.2	2060.9	2101.8	2133.2	2130.0	2126.9	2104.9	1863.0
22.5°	2060.9	2067.2	2082.9	2123.8	2161.5	2211.7	2265.1	2262.0	2252.6	2236.9	1985.5
25°	2208.6	2208.6	2218.0	2252.6	2299.7	2359.4	2409.7	2419.1	2409.7	2400.2	2139.5
27.5°	2393.9	2397.1	2397.1	2434.8	2478.8	2554.2	2617.0	2626.4	2626.4	2617.0	2346.8
30°	2651.6	2642.1	2635.8	2667.3	2714.4	2824.3	2934.3	2953.2	2943.7	2959.4	2639.0
32.5°	3094.5	3078.8	3025.4	3031.7	3060.0	3210.8	3396.1	3462.1	3459.0	3487.2	3110.2
35°	3707.2	3675.7	3597.2	3531.2	3528.1	3691.4	3974.2	4222.4	4219.2	4316.6	3826.5
37.5°	4398.3	4439.2	4291.5	4178.4	4143.8	4272.7	4637.1	5174.3	5202.6	5372.2	4765.9
40°	5322.0	5347.1	5158.6	4998.4	4835.0	4882.1	5362.8	6198.5	6248.8	6437.3	5705.2
42.5°	6126.2	6151.4	6041.4	5846.6	5639.3	5551.3	6094.8	7128.4	7169.3	7430.0	6672.9
45°	6672.9	6691.7	6729.4	6748.3	6512.7	6330.4	6990.2	8083.5	8133.7	8435.3	7618.5
47.5°	7100.1	7115.9	7191.3	7379.8	7332.6	7188.1	7901.3	9076.2	9088.8	9425.0	8539.0
50°	7298.1	7335.8	7521.1	7810.2	8017.5	8058.3	8890.9	10015.6	10050.2	10370.6	9409.3
52.5°	7078.2	7090.7	7558.8	8102.3	8520.2	8934.9	9883.7	10885.8	10986.4	11225.1	10191.5
55°	6336.7	6427.8	7137.8	8092.9	8916.0	9767.4	10945.5	11825.2	11916.3	12067.1	10879.6
57.5°	5475.9	5576.4	6440.4	7687.6	9085.7	10537.1	11928.9	12824.2	12887.1	12927.9	11511.0
60°	4731.3	4825.6	5714.7	6911.6	8916.0	11080.6	12843.1	13817.0	13870.4	13760.5	11828.3
62.5°	3817.1	3911.4	4806.7	5884.3	8250.0	11190.6	13521.7	14699.8	14721.8	14423.3	11633.6
65°	2877.8	2940.6	3688.3	4612.0	7084.4	10606.2	13675.6	15249.6	15227.6	14615.0	11049.2
66°	2579.3	2632.7	3292.5	4077.9	6478.1	10072.2	13468.3	15293.6	15271.6	14473.6	10665.9
67.5°	2224.3	2240.0	2783.5	3336.4	5419.4	8938.0	12836.8	15092.5	15111.4	14084.0	9965.3
70°	1737.3	1734.2	2048.4	2321.7	3700.9	6358.7	10706.8	13826.4	13917.5	12613.8	8498.2
72.5°	1112.1	1074.4	1256.7	1420.0	2155.2	3691.4	7807.0	11269.1	11423.1	9908.8	6330.4
75°	662.9	625.2	669.2	710.0	1033.6	1775.0	4590.0	7668.8	7816.4	6352.4	3766.8
77.5°	496.4	480.7	483.8	449.3	458.7	666.0	2095.5	4052.7	4159.6	2601.3	1429.5
80°	380.1	339.3	317.3	333.0	301.6	263.9	779.1	1394.9	1460.9	615.8	298.5
82.5°	254.5	219.9	204.2	223.1	191.6	147.7	188.5	270.2	263.9	166.5	116.2
85°	131.9	113.1	113.1	113.1	97.4	72.3	81.7	110.0	110.0	88.0	69.1
87.5°	37.7	34.6	40.8	37.7	28.3	28.3	31.4	37.7	37.7	34.6	31.4
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: P1210634

CATALOG NUMBER: ARCH3-180-750-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1407.5	1394.9	1360.3	1335.2	1310.1	1288.1	1262.9	1256.7	1244.1	1247.2	1241.0
5°	1416.9	1382.3	1322.6	1266.1	1222.1	1184.4	1137.3	1118.4	1093.3	1083.9	1077.6
7.5°	1429.5	1379.2	1291.2	1212.7	1137.3	1061.9	986.5	942.5	914.2	901.7	892.2
10°	1457.7	1391.8	1275.5	1153.0	1024.2	917.4	842.0	810.5	791.7	788.6	785.4
12.5°	1495.4	1410.6	1259.8	1077.6	907.9	807.4	760.3	750.9	747.7	747.7	744.6
15°	1552.0	1442.0	1234.7	989.6	816.8	747.7	725.7	710.0	703.7	703.7	703.7
17.5°	1608.5	1479.7	1197.0	898.5	754.0	710.0	688.0	678.6	672.3	675.5	672.3
20°	1680.8	1523.7	1146.7	820.0	713.2	678.6	656.6	647.2	644.0	644.0	644.0
22.5°	1762.5	1574.0	1083.9	760.3	678.6	647.2	625.2	615.8	609.5	612.6	612.6
25°	1872.4	1636.8	1017.9	700.6	644.0	615.8	590.6	578.1	578.1	581.2	584.3
27.5°	2013.8	1712.2	951.9	662.9	612.6	584.3	556.1	543.5	546.6	552.9	552.9
30°	2221.2	1815.9	885.9	622.0	578.1	546.6	521.5	508.9	515.2	527.8	527.8
32.5°	2516.5	1985.5	829.4	574.9	527.8	493.2	468.1	458.7	474.4	499.5	499.5
35°	3044.3	2296.6	794.8	527.8	474.4	433.5	402.1	392.7	414.7	446.1	446.1
37.5°	3751.1	2796.1	807.4	487.0	430.4	383.3	348.7	336.2	351.9	380.1	389.6
40°	4539.7	3399.3	917.4	452.4	389.6	342.4	307.9	295.3	304.7	317.3	320.4
42.5°	5328.2	4040.2	1124.7	427.3	358.1	307.9	276.5	267.0	273.3	276.5	279.6
45°	6113.7	4674.8	1385.5	411.6	329.9	279.6	248.2	248.2	251.3	251.3	251.3
47.5°	6858.2	5293.7	1658.8	408.4	304.7	251.3	226.2	229.3	229.3	232.5	232.5
50°	7562.0	5846.6	1935.3	417.8	282.7	226.2	207.3	207.3	207.3	210.5	207.3
52.5°	8149.5	6330.4	2224.3	433.5	260.8	207.3	188.5	188.5	188.5	191.6	188.5
55°	8705.5	6770.3	2519.6	455.5	241.9	191.6	172.8	166.5	166.5	169.6	166.5
57.5°	9157.9	7062.4	2799.2	458.7	226.2	175.9	160.2	150.8	150.8	150.8	150.8
60°	9176.8	6892.8	2880.9	402.1	207.3	160.2	144.5	131.9	135.1	135.1	135.1
62.5°	8576.7	6000.6	2315.4	301.6	185.4	144.5	131.9	119.4	119.4	119.4	119.4
65°	7398.6	4668.5	1357.2	238.8	160.2	128.8	116.2	106.8	106.8	106.8	103.7
66°	6845.7	4093.6	1039.9	216.8	150.8	125.7	113.1	103.7	100.5	97.4	97.4
67.5°	5944.0	3235.9	650.3	191.6	138.2	116.2	103.7	94.2	91.1	88.0	88.0
70°	4476.9	2054.6	317.3	147.7	119.4	100.5	91.1	81.7	78.5	75.4	72.3
72.5°	3141.7	1203.3	166.5	113.1	97.4	88.0	78.5	69.1	66.0	62.8	62.8
75°	1775.0	581.2	110.0	81.7	78.5	72.3	66.0	56.5	53.4	53.4	53.4
77.5°	672.3	201.1	75.4	59.7	62.8	56.5	47.1	47.1	44.0	47.1	44.0
80°	175.9	88.0	47.1	44.0	47.1	40.8	34.6	37.7	37.7	37.7	37.7
82.5°	94.2	50.3	28.3	31.4	28.3	28.3	22.0	25.1	28.3	25.1	28.3
85°	66.0	25.1	15.7	15.7	12.6	12.6	9.4	12.6	15.7	12.6	12.6
87.5°	34.6	9.4	9.4	9.4	9.4	6.3	3.1	0.0	3.1	3.1	3.1
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)