

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: P1211094

Luminaire Tested: **ARCH4-170-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211094
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: ARCH4-170-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16399 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 169.8
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



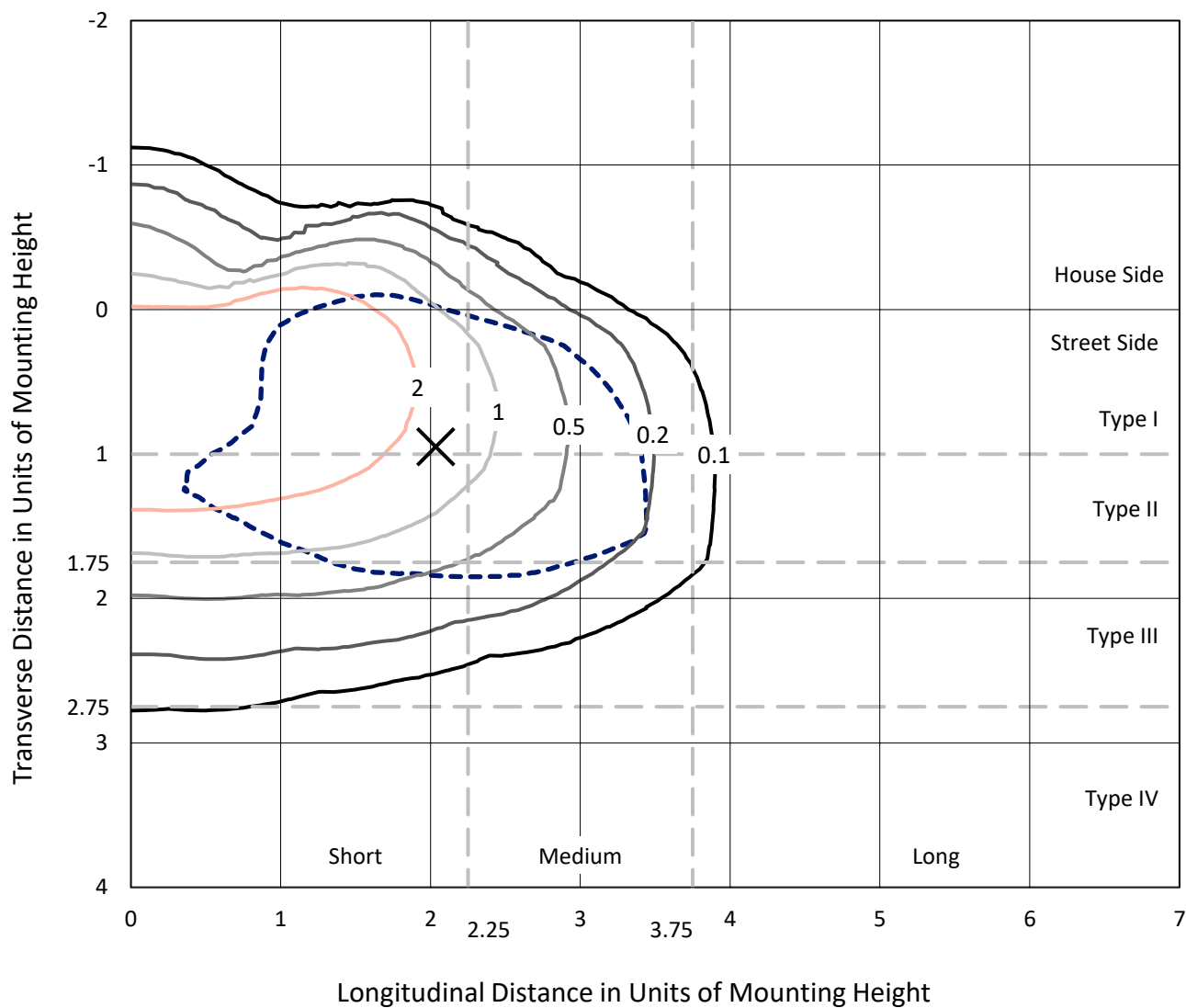
REPORT NUMBER: P1211094

CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

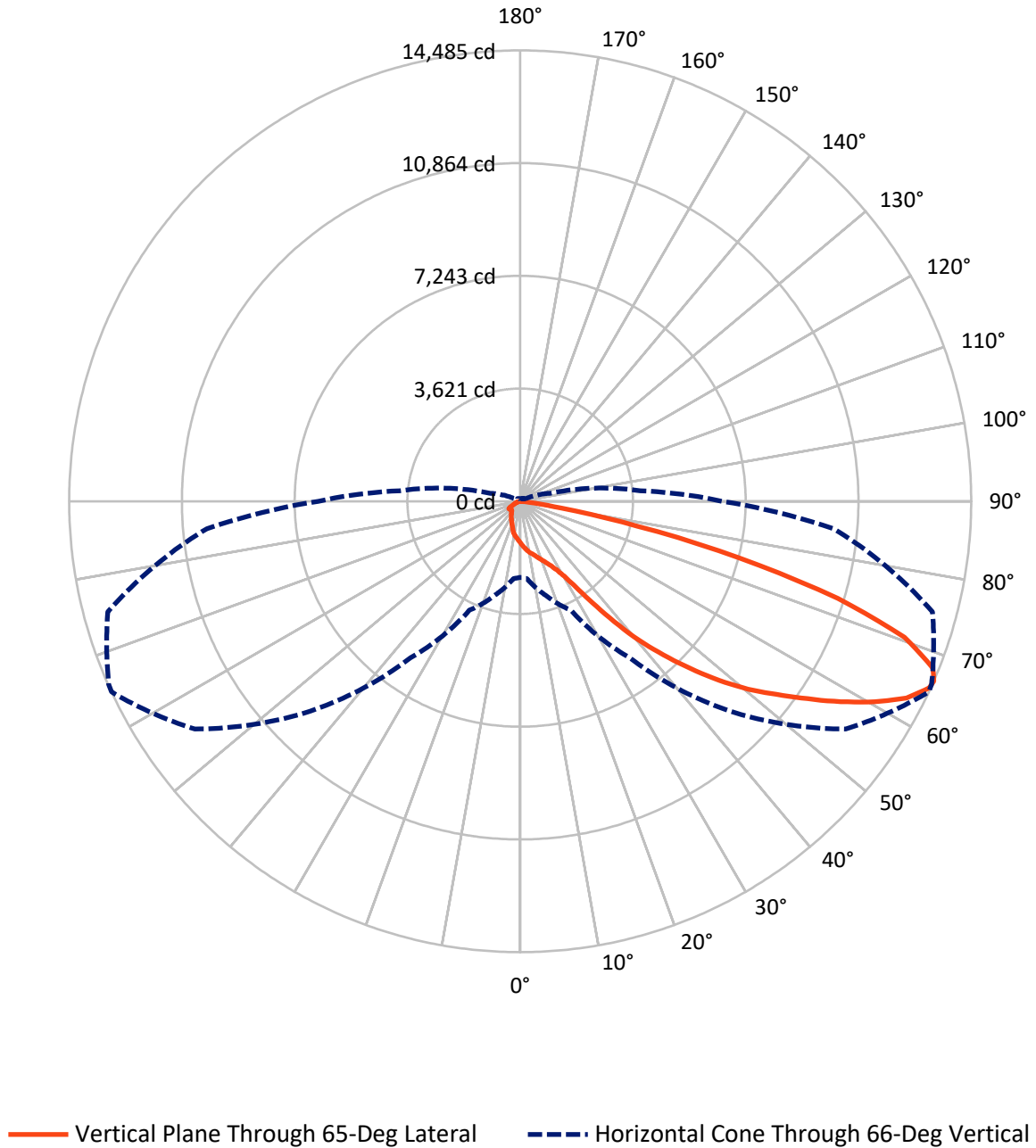
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P1211094
CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211094

CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

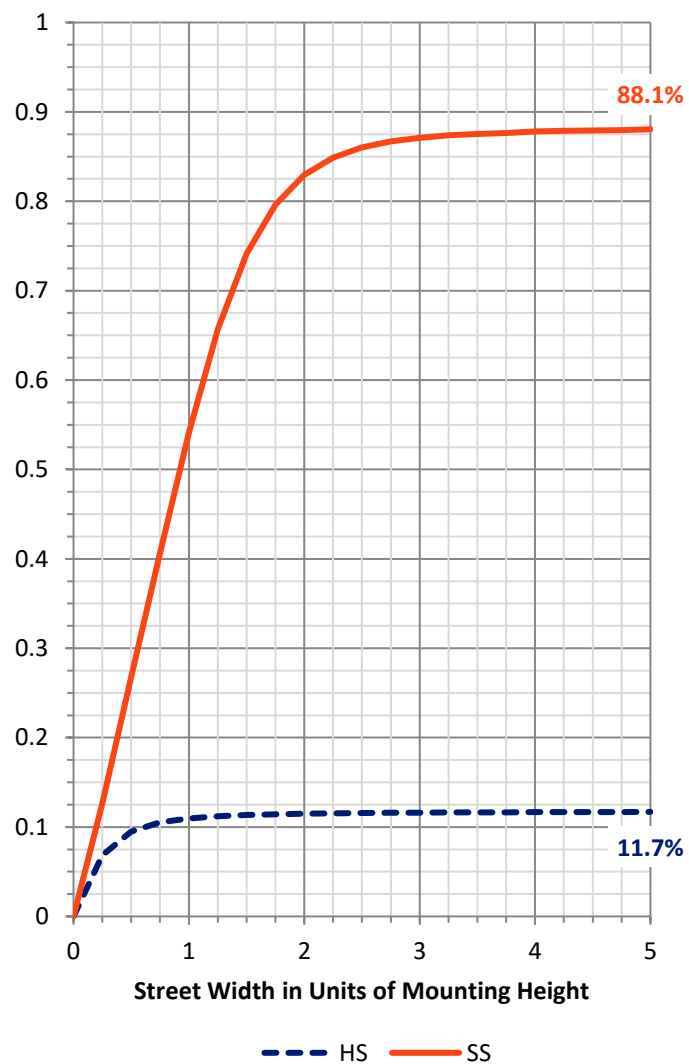
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1935.4	0.0	1935.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14463.6	0.0	14463.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	16399.0	0.0	16399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	0.8
10°-20°	375.0	2.3
20°-30°	686.3	4.2
30°-40°	1394.5	8.5
40°-50°	2944.8	18.0
50°-60°	4527.1	27.6
60°-70°	4556.9	27.8
70°-80°	1702.7	10.4
80°-90°	85.1	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°	16399.0	100.0
0°-180°	16399.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211094

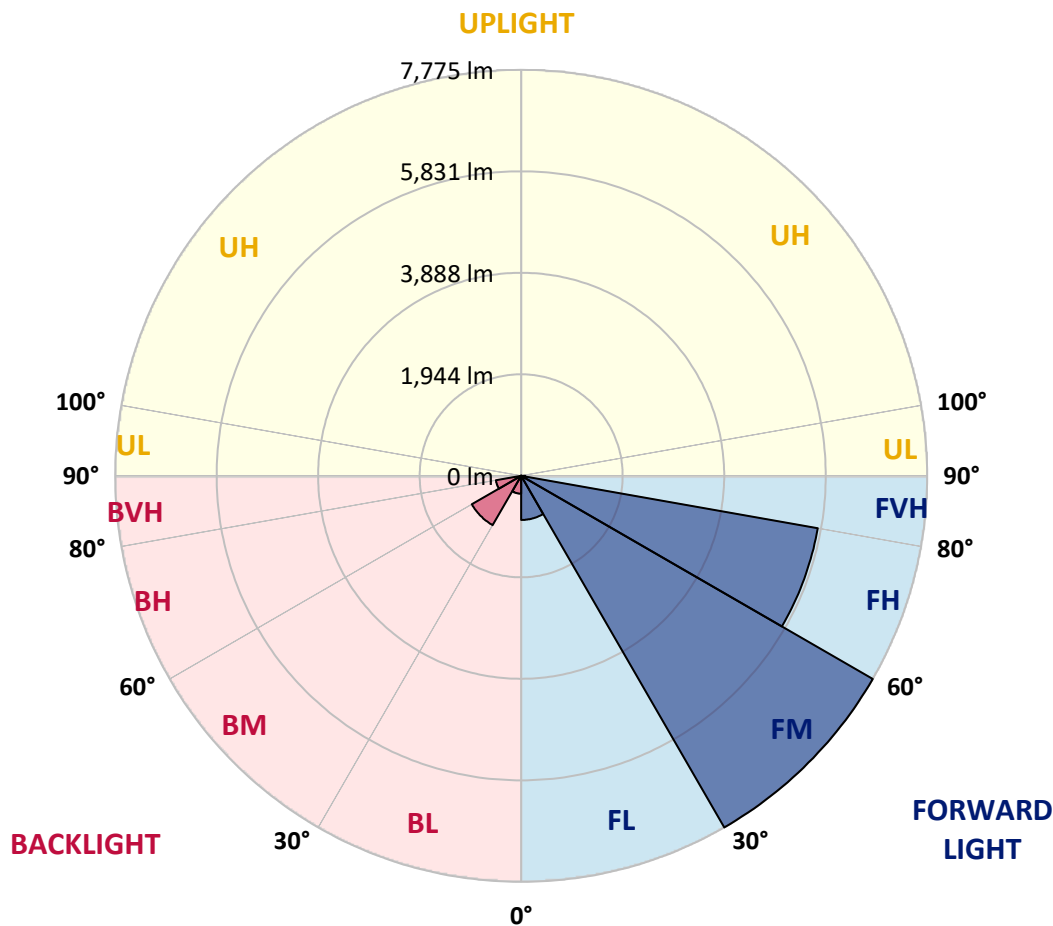
CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	845.3	5.2			
FM	(30°-60°)	7775.3	47.4			
FH	(60°-80°)	5767.9	35.2			G3/7500
FVH	(80°-90°)	75.1	0.5			G1/100
BL	(0°-30°)	342.6	2.1	B1/500		
BM	(30°-60°)	1091.2	6.7	B2/2500		
BH	(60°-80°)	491.7	3.0	B1/500		G1/500
BVH	(80°-90°)	10.0	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: P1211094

CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1523.5	1526.5	1520.5	1508.6	1496.7	1481.9	1458.1	1419.4	1413.4	1386.6	1356.9
5°	1627.7	1633.6	1624.7	1621.7	1615.8	1594.9	1562.2	1505.7	1499.7	1446.2	1377.7
7.5°	1663.4	1672.3	1666.4	1666.4	1666.4	1657.4	1642.5	1592.0	1583.0	1514.6	1410.4
10°	1690.2	1696.1	1693.1	1705.0	1714.0	1708.0	1699.1	1669.3	1660.4	1592.0	1455.1
12.5°	1731.8	1734.8	1737.8	1743.7	1758.6	1764.5	1761.6	1734.8	1728.8	1681.2	1511.6
15°	1770.5	1770.5	1773.5	1800.3	1821.1	1833.0	1836.0	1815.1	1809.2	1770.5	1583.0
17.5°	1806.2	1809.2	1818.1	1847.9	1883.6	1907.4	1922.3	1913.3	1904.4	1874.6	1666.4
20°	1859.8	1865.7	1874.6	1916.3	1952.0	1990.7	2020.5	2017.5	2014.5	1993.7	1764.5
22.5°	1952.0	1958.0	1972.8	2011.5	2047.2	2094.8	2145.4	2142.5	2133.5	2118.6	1880.6
25°	2091.9	2091.9	2100.8	2133.5	2178.2	2234.7	2282.3	2291.2	2282.3	2273.4	2026.4
27.5°	2267.4	2270.4	2270.4	2306.1	2347.8	2419.2	2478.7	2487.6	2487.6	2478.7	2222.8
30°	2511.4	2502.5	2496.6	2526.3	2570.9	2675.1	2779.2	2797.1	2788.2	2803.0	2499.5
32.5°	2931.0	2916.1	2865.5	2871.5	2898.3	3041.1	3216.7	3279.1	3276.2	3302.9	2945.9
35°	3511.2	3481.5	3407.1	3344.6	3341.6	3496.4	3764.2	3999.2	3996.3	4088.5	3624.3
37.5°	4165.9	4204.6	4064.7	3957.6	3924.9	4046.9	4392.0	4900.9	4927.6	5088.3	4514.0
40°	5040.7	5064.5	4886.0	4734.2	4579.5	4624.1	5079.4	5870.9	5918.5	6097.1	5403.7
42.5°	5802.5	5826.3	5722.1	5537.6	5341.3	5257.9	5772.7	6751.7	6790.4	7037.4	6320.2
45°	6320.2	6338.1	6373.8	6391.6	6168.5	5995.9	6620.8	7656.3	7703.9	7989.6	7215.9
47.5°	6724.9	6739.8	6811.2	6989.8	6945.1	6808.2	7483.7	8596.6	8608.5	8926.9	8087.8
50°	6912.4	6948.1	7123.7	7397.4	7593.8	7632.5	8421.0	9486.3	9519.0	9822.5	8912.0
52.5°	6704.1	6716.0	7159.4	7674.1	8069.9	8462.7	9361.3	10310.6	10405.8	10631.9	9652.9
55°	6001.8	6088.1	6760.6	7665.2	8444.8	9251.2	10367.1	11200.3	11286.6	11429.4	10304.6
57.5°	5186.5	5281.7	6100.0	7281.4	8605.5	9980.3	11298.5	12146.5	12206.0	12244.7	10902.7
60°	4481.3	4570.6	5412.7	6546.4	8444.8	10495.0	12164.4	13086.8	13137.4	13033.3	11203.2
62.5°	3615.4	3704.7	4552.7	5573.4	7814.0	10599.2	12807.1	13923.0	13943.8	13661.1	11018.8
65°	2725.7	2785.2	3493.4	4368.2	6710.0	10045.7	12952.9	14443.7	14422.9	13842.6	10465.3
66°	2443.0	2493.6	3118.5	3862.4	6135.7	9539.9	12756.5	14485.4	14464.5	13708.7	10102.3
67.5°	2106.7	2121.6	2636.4	3160.1	5133.0	8465.7	12158.4	14294.9	14312.8	13339.7	9438.7
70°	1645.5	1642.5	1940.1	2199.0	3505.3	6022.7	10140.9	13095.7	13182.0	11947.1	8049.1
72.5°	1053.4	1017.7	1190.3	1345.0	2041.3	3496.4	7394.4	10673.6	10819.4	9385.1	5995.9
75°	627.9	592.2	633.8	672.5	979.0	1681.2	4347.4	7263.5	7403.4	6016.7	3567.8
77.5°	470.1	455.3	458.2	425.5	434.4	630.8	1984.7	3838.6	3939.7	2463.8	1353.9
80°	360.1	321.4	300.5	315.4	285.7	250.0	738.0	1321.2	1383.7	583.2	282.7
82.5°	241.0	208.3	193.4	211.3	181.5	139.9	178.5	255.9	250.0	157.7	110.1
85°	125.0	107.1	107.1	107.1	92.2	68.4	77.4	104.1	104.1	83.3	65.5
87.5°	35.7	32.7	38.7	35.7	26.8	26.8	29.8	35.7	35.7	32.7	29.8
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: P1211094

CATALOG NUMBER: ARCH4-170-722-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1333.1	1321.2	1288.4	1264.6	1240.8	1220.0	1196.2	1190.3	1178.3	1181.3	1175.4
5°	1342.0	1309.3	1252.7	1199.2	1157.5	1121.8	1077.2	1059.3	1035.5	1026.6	1020.6
7.5°	1353.9	1306.3	1223.0	1148.6	1077.2	1005.8	934.3	892.7	865.9	854.0	845.1
10°	1380.7	1318.2	1208.1	1092.1	970.1	868.9	797.5	767.7	749.9	746.9	743.9
12.5°	1416.4	1336.1	1193.2	1020.6	860.0	764.7	720.1	711.2	708.2	708.2	705.2
15°	1470.0	1365.8	1169.4	937.3	773.7	708.2	687.4	672.5	666.5	666.5	666.5
17.5°	1523.5	1401.5	1133.7	851.0	714.2	672.5	651.7	642.7	636.8	639.8	636.8
20°	1592.0	1443.2	1086.1	776.6	675.5	642.7	621.9	613.0	610.0	610.0	610.0
22.5°	1669.3	1490.8	1026.6	720.1	642.7	613.0	592.2	583.2	577.3	580.2	580.2
25°	1773.5	1550.3	964.1	663.6	610.0	583.2	559.4	547.5	547.5	550.5	553.5
27.5°	1907.4	1621.7	901.6	627.9	580.2	553.5	526.7	514.8	517.8	523.7	523.7
30°	2103.8	1719.9	839.1	589.2	547.5	517.8	494.0	482.1	488.0	499.9	499.9
32.5°	2383.5	1880.6	785.6	544.5	499.9	467.2	443.4	434.4	449.3	473.1	473.1
35°	2883.4	2175.2	752.8	499.9	449.3	410.6	380.9	372.0	392.8	422.5	422.5
37.5°	3552.9	2648.3	764.7	461.2	407.7	363.0	330.3	318.4	333.3	360.1	369.0
40°	4299.8	3219.6	868.9	428.5	369.0	324.3	291.6	279.7	288.6	300.5	303.5
42.5°	5046.7	3826.7	1065.3	404.7	339.2	291.6	261.9	252.9	258.9	261.9	264.8
45°	5790.6	4427.7	1312.3	389.8	312.4	264.8	235.1	235.1	238.1	238.1	238.1
47.5°	6495.8	5013.9	1571.1	386.8	288.6	238.1	214.2	217.2	217.2	220.2	220.2
50°	7162.3	5537.6	1833.0	395.8	267.8	214.2	196.4	196.4	196.4	199.4	196.4
52.5°	7718.8	5995.9	2106.7	410.6	247.0	196.4	178.5	178.5	178.5	181.5	178.5
55°	8245.5	6412.5	2386.5	431.5	229.1	181.5	163.7	157.7	157.7	160.7	157.7
57.5°	8674.0	6689.2	2651.3	434.4	214.2	166.6	151.8	142.8	142.8	142.8	142.8
60°	8691.8	6528.5	2728.7	380.9	196.4	151.8	136.9	125.0	128.0	128.0	128.0
62.5°	8123.5	5683.5	2193.0	285.7	175.6	136.9	125.0	113.1	113.1	113.1	113.1
65°	7007.6	4421.8	1285.5	226.1	151.8	122.0	110.1	101.2	101.2	101.2	98.2
66°	6483.9	3877.2	984.9	205.3	142.8	119.0	107.1	98.2	95.2	92.2	92.2
67.5°	5629.9	3064.9	616.0	181.5	130.9	110.1	98.2	89.3	86.3	83.3	83.3
70°	4240.3	1946.1	300.5	139.9	113.1	95.2	86.3	77.4	74.4	71.4	68.4
72.5°	2975.6	1139.7	157.7	107.1	92.2	83.3	74.4	65.5	62.5	59.5	59.5
75°	1681.2	550.5	104.1	77.4	74.4	68.4	62.5	53.6	50.6	50.6	50.6
77.5°	636.8	190.4	71.4	56.5	59.5	53.6	44.6	44.6	41.7	44.6	41.7
80°	166.6	83.3	44.6	41.7	44.6	38.7	32.7	35.7	35.7	35.7	35.7
82.5°	89.3	47.6	26.8	29.8	26.8	26.8	20.8	23.8	26.8	23.8	26.8
85°	62.5	23.8	14.9	14.9	11.9	11.9	8.9	11.9	14.9	11.9	11.9
87.5°	32.7	8.9	8.9	8.9	8.9	6.0	3.0	0.0	3.0	3.0	3.0
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)