

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: P285757

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C04-D-U-T2-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37166 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

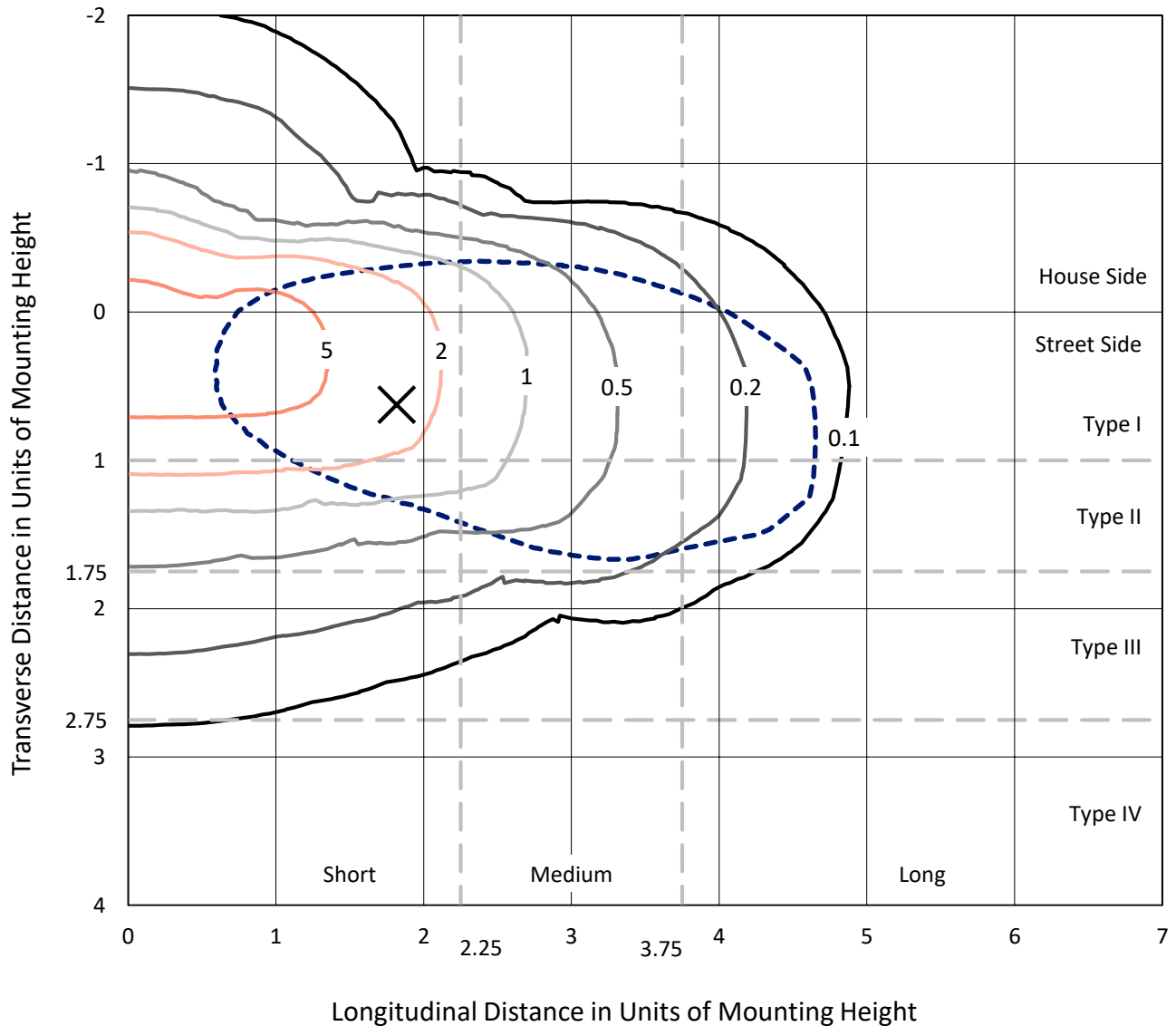
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285757
 CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050

Iso-Footcandle Lines of Horizontal Illumination

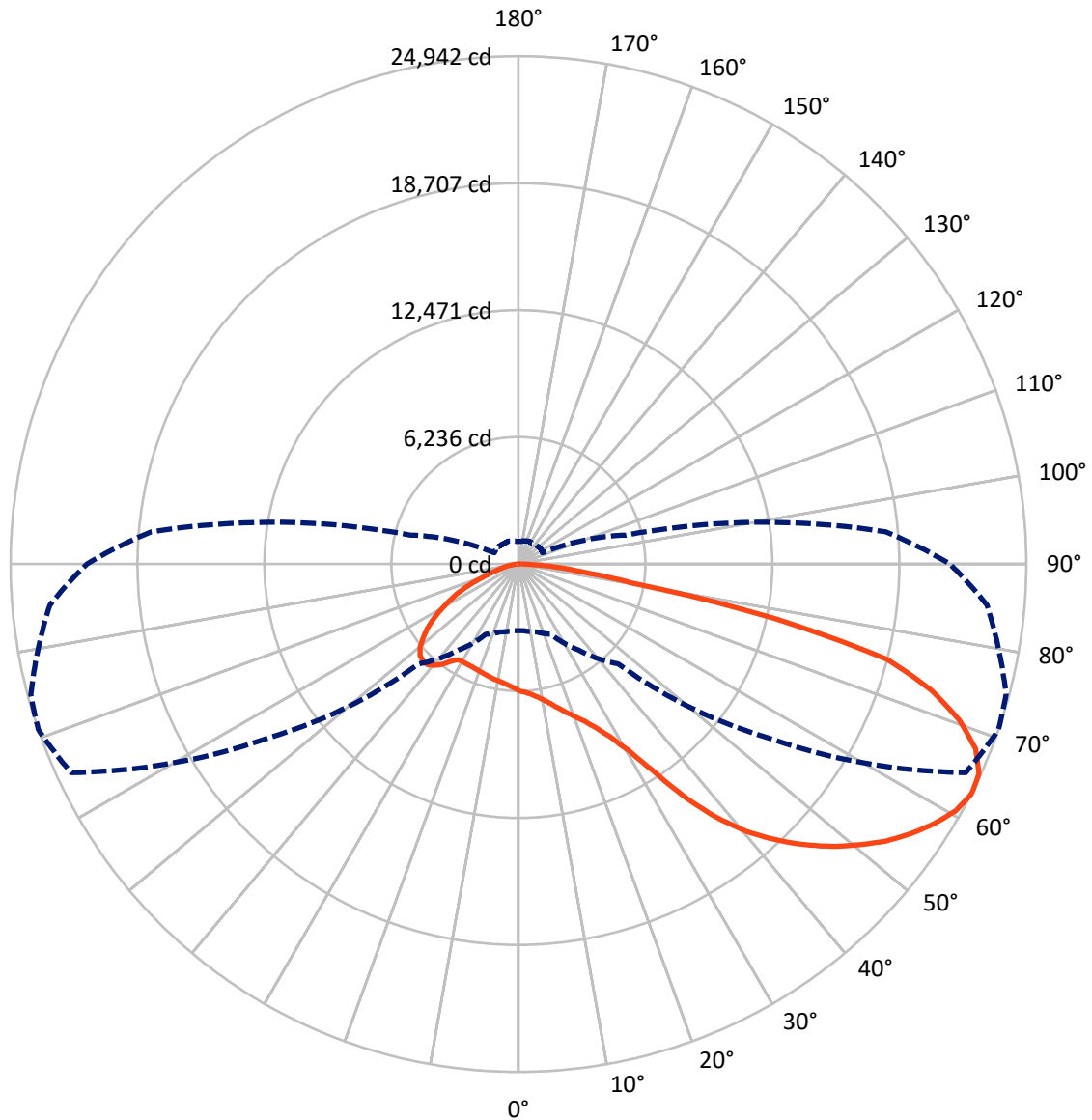
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285757
CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P285757

CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050

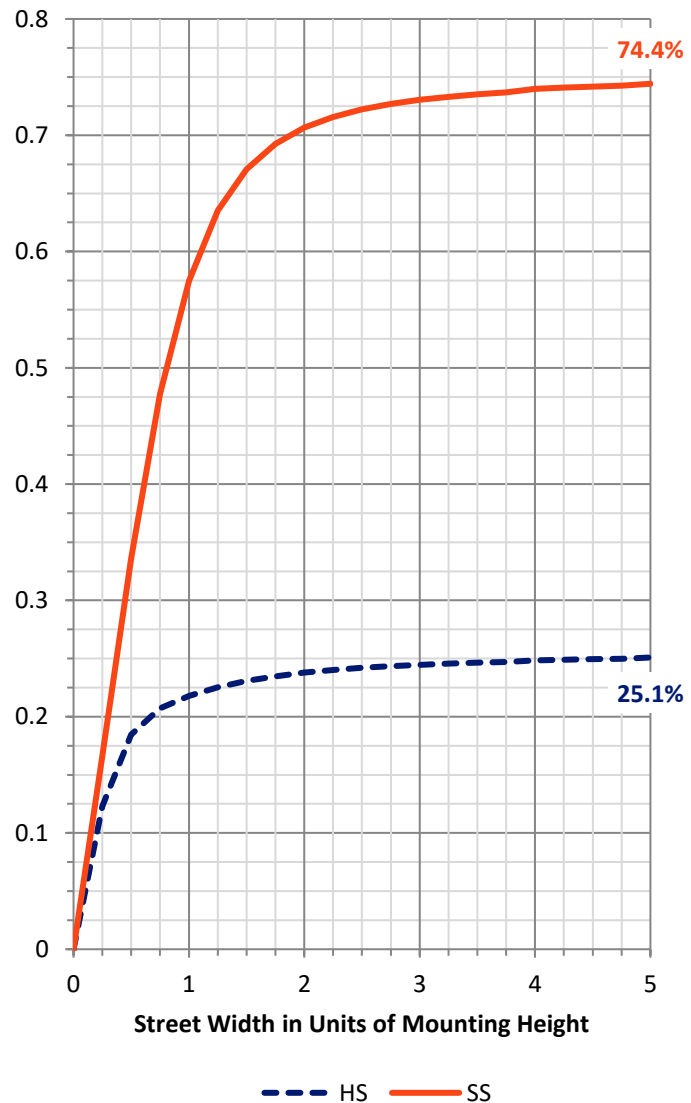
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9491.1	0.0	9491.1
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	27674.9	0.0	27674.9
	% Fixture	74.5	0.0	74.5
Total	Lumens	37166.0	0.0	37166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.3	1.6
10°-20°	1837.3	4.9
20°-30°	3114.6	8.4
30°-40°	4694.3	12.6
40°-50°	6449.0	17.4
50°-60°	7497.6	20.2
60°-70°	7398.0	19.9
70°-80°	4730.4	12.7
80°-90°	844.4	2.3
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°	37166.0	100.0
0°-180°	37166.0	100.0



REPORT NUMBER: P285757

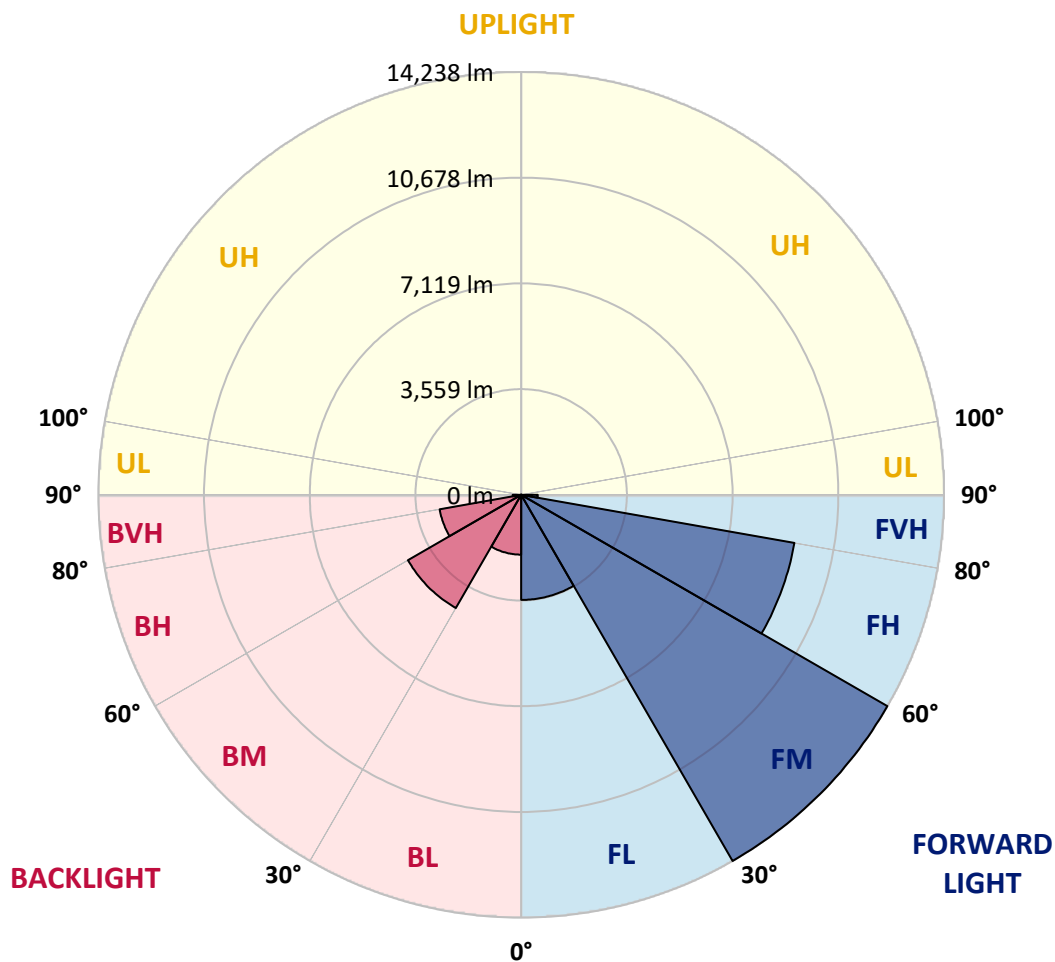
CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3537.3	9.5			
FM	(30°-60°)	14237.6	38.3			
FH	(60°-80°)	9341.9	25.1			G4/12000
FVH	(80°-90°)	558.0	1.5			G4/750
BL	(0°-30°)	2014.8	5.4	B3/2500		
BM	(30°-60°)	4403.3	11.8	B3/5000		
BH	(60°-80°)	2786.6	7.5	B4/5000		G4/5000
BVH	(80°-90°)	286.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9
2.5°	6642.7	6630.0	6614.4	6587.5	6556.4	6519.6	6481.4	6395.1	6305.9	6277.6	6216.8
5°	7007.8	6983.8	6964.0	6938.5	6879.0	6804.0	6703.6	6562.1	6423.4	6379.5	6253.6
7.5°	7330.5	7303.6	7268.2	7234.2	7169.2	7072.9	6937.1	6757.3	6590.4	6513.9	6308.7
10°	7617.8	7592.3	7573.9	7535.7	7483.3	7367.3	7205.9	6980.9	6787.1	6680.9	6396.5
12.5°	7936.2	7914.9	7876.7	7832.9	7763.5	7651.7	7490.4	7245.6	7039.0	6910.2	6530.9
15°	8260.2	8246.1	8178.2	8152.7	8074.8	7946.1	7803.1	7551.2	7340.4	7180.5	6723.4
17.5°	8547.5	8537.6	8495.1	8465.4	8401.7	8257.4	8110.2	7879.6	7664.5	7460.7	6937.1
20°	8731.5	8745.6	8737.1	8731.5	8727.2	8608.4	8462.6	8224.9	8008.3	7806.0	7166.3
22.5°	8902.7	8908.4	8931.0	8983.4	9058.4	9006.0	8848.9	8629.6	8408.8	8166.8	7463.5
25°	8956.5	8960.7	9048.5	9207.0	9417.8	9440.5	9311.7	9164.5	8923.9	8686.2	7871.1
27.5°	9000.4	9011.7	9122.1	9399.4	9770.2	9877.8	9831.1	9782.9	9613.1	9364.1	8418.7
30°	8987.6	8990.5	9173.0	9529.6	10050.4	10340.5	10411.3	10643.3	10600.9	10431.1	9335.7
32.5°	8754.1	8732.9	8997.5	9532.5	10269.7	10804.7	11131.6	11792.4	12042.9	12088.2	11169.8
35°	8278.6	8278.6	8674.9	9422.1	10428.2	11263.2	11952.4	13190.6	14035.5	14058.1	12913.2
37.5°	7882.4	7907.9	8352.2	9215.5	10501.8	11728.8	12893.4	14900.1	15791.7	15715.2	14369.4
40°	7487.6	7518.7	7974.4	8933.8	10458.0	12130.7	13806.2	16530.4	17271.9	17096.4	15610.5
42.5°	7050.3	7074.3	7501.7	8533.4	10306.5	12423.6	14786.9	17921.5	18511.6	18297.9	16742.6
45°	6613.0	6654.0	7039.0	7995.6	10010.8	12599.1	15627.5	19183.8	19662.1	19415.9	17772.9
47.5°	5969.1	6127.6	6576.2	7464.9	9474.4	12586.3	16373.3	20317.3	20723.5	20461.7	18701.2
50°	4660.1	4753.5	5742.7	6983.8	8766.9	12333.0	16962.0	21329.1	21677.3	21445.2	19639.5
52.5°	4232.7	4258.2	4578.0	6393.7	7982.9	11832.1	17397.9	22264.6	22604.2	22338.2	20488.6
55°	4013.4	4027.5	4184.6	5227.6	7317.7	10909.4	17596.0	23129.2	23385.4	23085.4	21207.4
57.5°	3714.8	3758.6	3978.0	4456.3	6637.1	9604.6	17339.8	23808.5	24064.6	23739.2	21895.2
60°	3494.0	3520.9	3709.1	4079.9	5848.8	8079.1	16454.0	24299.6	24644.8	24344.8	22533.4
62.5°	3276.1	3291.6	3450.1	3806.8	5171.0	6944.1	14799.6	24242.9	24942.0	24792.0	23099.5
63°	3230.8	3244.9	3403.4	3757.2	5070.5	6712.1	14451.5	24172.2	24942.0	24837.3	23170.3
65°	3029.8	3046.8	3203.9	3526.6	4650.2	6129.0	12897.7	23732.1	24852.9	24902.4	23270.7
67.5°	2731.2	2759.5	2889.7	3171.4	4019.0	5418.6	10592.4	23272.2	24213.2	24319.4	22714.6
70°	2378.9	2384.5	2541.6	2777.9	3387.9	4609.1	8165.4	21876.8	22963.6	23010.3	21414.1
72.5°	2003.9	2019.4	2160.9	2360.5	2810.5	3816.7	5837.5	19288.5	21217.4	21480.6	19236.1
75°	1749.1	1761.9	1880.7	2020.8	2333.6	3008.6	3904.4	14065.2	18705.5	18998.4	16639.3
77.5°	1464.7	1473.2	1597.7	1693.9	1896.3	2269.9	2695.9	7421.0	12883.5	14443.0	12999.6
80°	1043.0	1044.4	1168.9	1243.9	1374.1	1395.3	1713.7	3949.7	5669.1	7326.2	8591.4
82.5°	226.4	325.5	489.6	615.6	689.2	580.2	843.4	2163.8	3131.7	3738.8	4657.3
85°	97.6	134.4	259.0	284.4	189.6	209.4	342.5	1153.3	1790.2	2131.2	2397.3
87.5°	18.4	24.1	66.5	89.2	55.2	58.0	69.3	369.4	626.9	735.9	820.8
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: P285757

CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9	6230.9
2.5°	6180.0	6163.0	6106.4	6068.2	6044.1	6013.0	5973.4	5921.0	5905.4	5868.6	5898.3
5°	6184.2	6138.9	6020.1	5933.7	5855.9	5788.0	5708.7	5633.7	5605.4	5555.9	5575.7
7.5°	6204.0	6127.6	5943.6	5812.0	5696.0	5604.0	5493.6	5401.6	5369.1	5312.5	5322.4
10°	6256.4	6137.5	5884.2	5724.3	5564.4	5429.9	5301.2	5175.2	5118.6	5069.1	5093.1
12.5°	6348.4	6174.3	5857.3	5652.1	5439.8	5275.7	5087.5	4926.1	4846.9	4783.2	4804.4
15°	6487.1	6245.1	5826.2	5548.8	5292.7	5079.0	4848.3	4644.5	4555.4	4505.8	4529.9
17.5°	6628.6	6348.4	5807.8	5422.9	5115.8	4838.4	4616.2	4423.8	4261.0	4224.2	4238.4
20°	6795.6	6454.5	5821.9	5289.8	4907.7	4579.4	4316.2	4187.4	3976.6	3903.0	3907.2
22.5°	7016.3	6620.1	5834.7	5159.6	4660.1	4293.6	3986.5	3859.1	3656.7	3526.6	3532.2
25°	7333.3	6825.3	5864.4	5039.4	4416.7	3979.4	3624.2	3411.9	3286.0	3120.4	3121.8
27.5°	7767.8	7106.9	5923.8	4926.1	4157.7	3618.5	3184.1	2946.3	2836.0	2727.0	2712.8
30°	8509.3	7572.5	6011.6	4801.6	3850.6	3182.7	2719.9	2511.9	2418.5	2329.3	2319.4
32.5°	10074.5	8703.2	6133.3	4644.5	3519.5	2687.4	2309.5	2145.4	2013.8	1926.0	1938.8
35°	11680.7	10119.7	6648.4	4457.7	3145.9	2254.3	2001.0	1797.2	1628.8	1560.9	1565.2
37.5°	13056.2	11403.3	7422.5	4255.4	2732.7	1975.6	1691.1	1494.4	1360.0	1326.0	1368.5
40°	14201.0	12457.6	8043.7	4041.7	2298.2	1740.6	1378.4	1270.8	1184.5	1174.6	1212.8
42.5°	15283.6	13410.0	8565.9	3795.4	1893.5	1437.8	1144.9	1170.3	1157.6	1156.2	1161.8
45°	16267.2	14293.0	8857.4	3428.9	1607.6	1177.4	1081.2	1177.4	1198.6	1195.8	1180.2
47.5°	17162.9	15099.7	9055.5	2898.2	1361.4	1103.8	1116.6	1181.7	1221.3	1228.4	1211.4
50°	18092.7	15887.9	9086.7	2255.8	1263.7	1161.8	1147.7	1139.2	1211.4	1210.0	1211.4
52.5°	18923.4	16564.3	8747.0	1753.4	1314.7	1222.7	1173.2	1123.6	1164.7	1166.1	1137.8
55°	19548.9	17119.1	8165.4	1536.9	1357.1	1273.6	1246.7	1147.7	1122.2	1105.2	1115.1
57.5°	20194.2	17614.4	7375.8	1439.2	1369.9	1285.0	1311.8	1153.3	1115.1	1037.3	1031.6
60°	20815.5	18014.9	6440.4	1374.1	1354.3	1279.3	1270.8	1197.2	1123.6	1007.6	968.0
62.5°	21193.3	18102.6	5483.7	1310.4	1324.6	1270.8	1225.5	1229.8	1178.8	1115.1	1106.6
63°	21237.2	18072.9	5301.2	1294.9	1317.5	1269.4	1225.5	1232.6	1178.8	1140.6	1142.0
65°	21182.0	17727.6	4585.1	1228.4	1292.0	1246.7	1207.1	1171.7	1084.0	1108.1	1136.4
67.5°	20562.1	16598.3	3525.1	1120.8	1235.4	1210.0	1151.9	1064.2	984.9	969.4	986.4
70°	18888.0	14748.7	2497.7	955.2	1133.5	1163.3	1137.8	1006.2	926.9	912.8	946.7
72.5°	16564.3	12805.7	1715.2	764.2	949.6	1082.6	1075.5	969.4	898.6	857.6	874.6
75°	13943.5	10329.2	1198.6	643.9	731.6	975.0	1020.3	938.2	884.5	846.3	840.6
77.5°	10735.3	7801.7	942.5	550.5	604.3	789.7	938.2	931.2	997.7	1177.4	1137.8
80°	7313.5	5187.9	679.3	413.2	481.2	553.3	808.1	960.9	1262.3	741.5	727.4
82.5°	4251.1	3048.2	424.5	274.5	287.3	376.4	506.6	1014.7	844.8	334.0	421.7
85°	2053.4	1327.4	212.3	189.6	131.6	141.5	234.9	945.3	598.6	148.6	29.7
87.5°	655.2	322.7	22.6	17.0	19.8	28.3	111.8	577.4	352.4	127.4	18.4
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)