

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: P285796

Luminaire Tested: **USSL-XL-C049-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T3-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33519.3 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 217
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

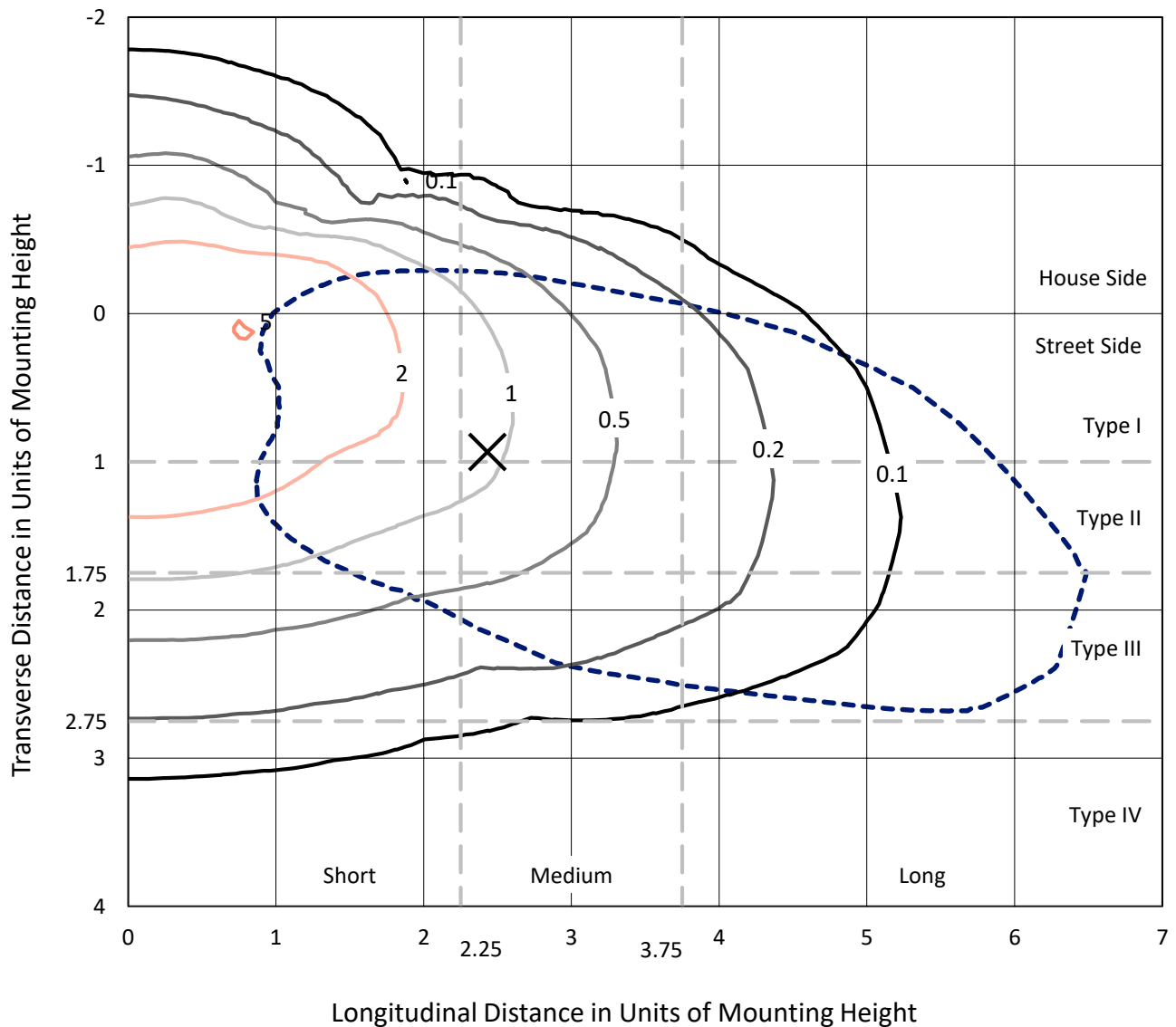


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

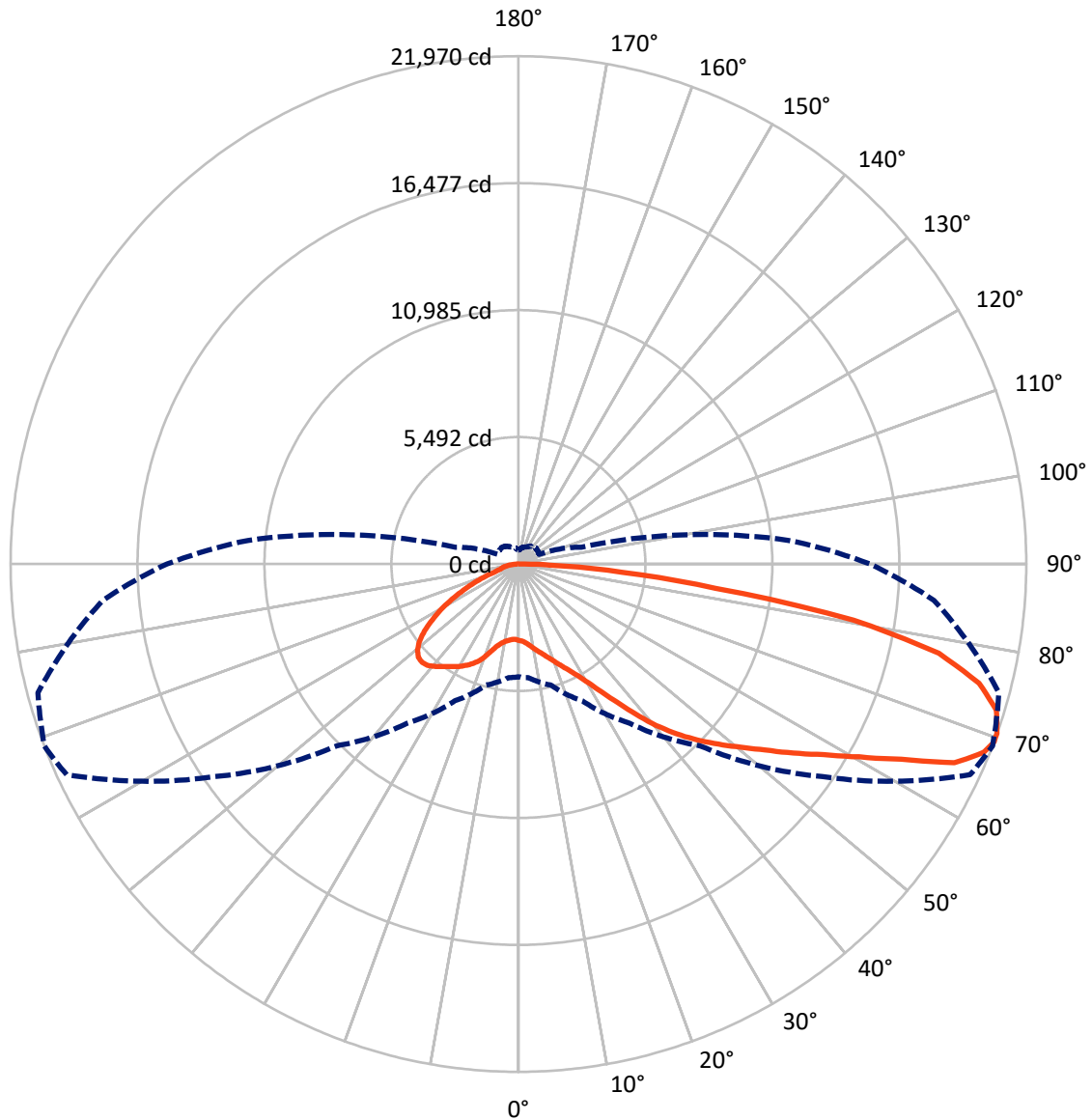


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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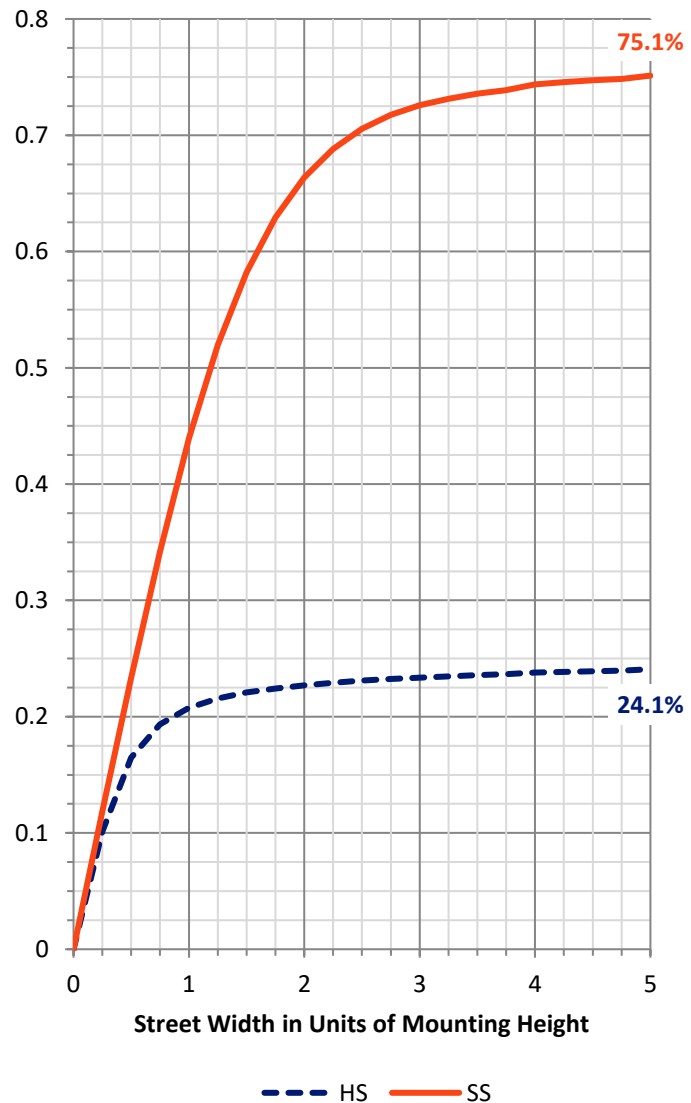
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8240.8	0.0	8240.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	25278.5	0.0	25278.5
	% Fixture	75.4	0.0	75.4
Total	Lumens	33519.3	0.0	33519.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.8	1.0
10°-20°	1061.7	3.2
20°-30°	1988.4	5.9
30°-40°	3378.4	10.1
40°-50°	5184.4	15.5
50°-60°	6773.6	20.2
60°-70°	7713.1	23.0
70°-80°	5823.2	17.4
80°-90°	1270.8	3.8
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°	33519.3	100.0
0°-180°	33519.3	100.0



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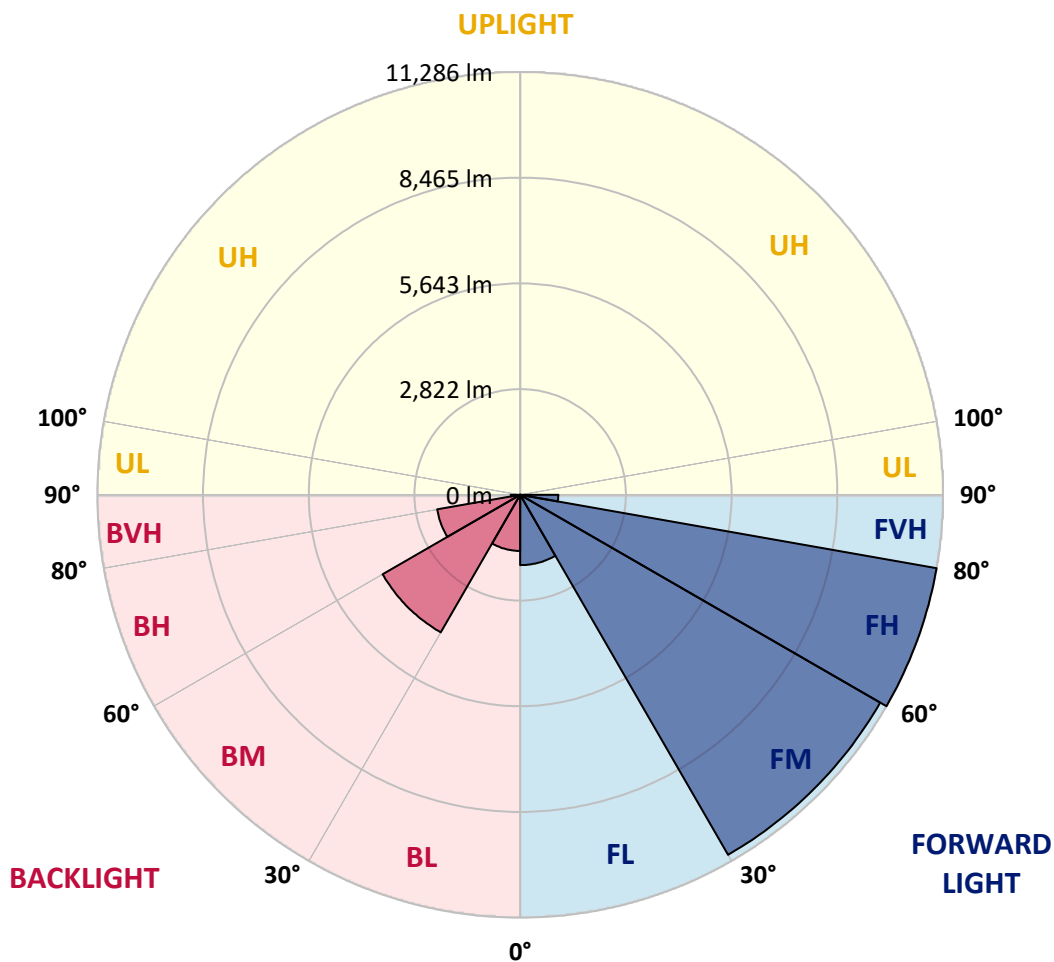
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1877.4	5.6			
FM	(30°-60°)	11096.2	33.1			
FH	(60°-80°)	11286.1	33.7			G4/12000
FVH	(80°-90°)	1018.9	3.0			G5
BL	(0°-30°)	1498.4	4.5	B3/2500		
BM	(30°-60°)	4240.3	12.7	B3/5000		
BH	(60°-80°)	2250.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	252.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0
2.5°	3432.8	3443.0	3441.7	3436.6	3434.1	3419.9	3402.0	3378.9	3340.4	3322.4	3299.3
5°	3579.1	3586.7	3588.1	3579.1	3568.8	3547.0	3509.8	3473.8	3431.4	3405.8	3360.8
7.5°	3703.5	3710.0	3721.5	3713.8	3708.7	3690.7	3654.7	3612.5	3557.2	3521.3	3458.5
10°	3803.7	3808.8	3817.8	3830.6	3855.0	3839.6	3797.2	3767.7	3717.6	3662.5	3584.2
12.5°	3875.5	3871.6	3897.3	3920.4	3970.5	3987.1	3957.6	3935.8	3887.1	3830.6	3738.2
15°	3908.8	3907.5	3952.5	4010.2	4084.6	4111.6	4111.6	4087.2	4060.3	4016.6	3919.1
17.5°	3980.7	3985.9	4015.3	4089.8	4169.3	4232.2	4292.6	4295.1	4274.6	4245.1	4143.7
20°	4091.1	4100.0	4115.5	4174.5	4263.0	4373.4	4486.3	4527.4	4517.1	4505.5	4426.0
22.5°	4229.6	4233.6	4229.6	4281.0	4399.0	4547.9	4710.9	4778.9	4785.3	4786.6	4746.9
25°	4451.7	4434.9	4392.6	4438.9	4576.1	4748.1	4947.0	5060.0	5089.4	5116.5	5211.3
27.5°	4857.2	4818.7	4739.1	4723.8	4802.0	4990.6	5237.1	5425.6	5468.0	5542.4	5795.2
30°	5511.7	5460.3	5385.9	5158.7	5127.9	5289.6	5602.7	5872.3	5957.0	6182.8	6474.1
32.5°	6175.1	6141.7	6058.3	5840.2	5609.2	5669.5	5977.5	6398.4	6580.6	7037.4	7307.0
35°	6744.9	6728.2	6680.8	6574.2	6306.0	6136.6	6404.8	6989.9	7330.1	8043.6	8286.1
37.5°	7294.1	7286.4	7288.9	7143.9	7031.1	6787.2	6895.0	7680.4	8238.6	9097.1	9260.1
40°	7774.0	7777.9	7817.7	7750.9	7731.8	7580.3	7472.5	8417.0	9181.8	10139.1	10177.6
42.5°	8168.0	8171.8	8356.7	8256.6	8376.0	8342.6	8187.3	9104.9	10049.3	10982.3	10977.1
45°	8427.3	8433.6	8615.9	8696.7	8949.6	9059.9	8944.4	9810.6	10859.0	11762.5	11661.1
47.5°	8619.7	8614.5	8718.5	9044.4	9475.7	9693.8	9736.1	10612.7	11644.4	12485.0	12309.1
50°	8723.7	8735.3	8934.1	9369.2	10005.7	10309.8	10542.1	11559.7	12450.3	13181.8	12934.1
52.5°	8789.1	8846.9	9138.1	9655.4	10484.3	10960.4	11251.7	12609.4	13358.9	13905.6	13596.3
55°	8835.3	8940.6	9228.0	9805.5	10782.0	11487.8	11917.7	13692.5	14431.7	14725.5	14322.6
57.5°	8505.5	8606.9	9074.0	9828.6	11016.9	11921.5	12627.4	14836.0	15550.6	15736.8	15041.3
60°	7942.1	8002.5	8604.4	9647.6	10965.5	12315.5	13559.1	16192.3	16940.5	16954.6	15798.3
62.5°	7362.2	7386.5	7994.8	9175.3	10734.6	12445.1	14490.7	18000.5	18588.2	18408.6	16603.0
65°	6592.2	6619.1	7246.6	8399.0	10176.3	12301.4	15252.9	19906.1	20728.7	20248.8	17401.1
67.5°	5586.1	5645.1	6227.8	7295.4	9183.1	11745.8	15799.6	21218.9	21723.2	21310.0	17953.0
69°	4881.6	4936.7	5425.6	6531.8	8409.2	11119.5	16029.3	21565.4	21969.6	21519.1	18045.3
70°	4374.6	4417.0	4875.1	5960.8	7803.6	10584.4	16079.4	21659.1	21956.8	21526.9	17995.3
72.5°	3118.3	3154.3	3403.2	4170.6	5914.6	8866.2	15834.3	21405.0	21623.1	21003.3	17339.5
75°	2306.0	2334.3	2483.1	2755.2	3443.0	6273.9	14307.2	20348.8	20581.1	19858.6	15972.9
77.5°	1673.4	1696.5	1840.2	2105.8	2422.8	2954.0	9918.4	18364.9	18593.3	18013.3	13750.3
80°	1142.1	1166.5	1296.2	1520.6	1770.9	1966.0	4870.0	13441.0	14699.9	14417.6	9799.1
82.5°	214.3	263.1	557.0	789.2	995.8	1065.1	1841.5	7390.4	8587.6	8759.6	5110.0
85°	142.5	154.0	340.0	331.1	324.6	476.1	721.2	3543.1	4482.4	4644.2	2206.0
87.5°	70.6	74.4	101.3	139.9	178.4	214.3	237.4	934.2	1350.0	1447.5	412.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0	3307.0
2.5°	3290.4	3283.9	3264.6	3257.0	3251.8	3249.2	3218.5	3213.3	3197.9	3187.6	3178.6
5°	3339.1	3328.8	3283.9	3267.2	3241.5	3219.8	3168.4	3146.6	3131.2	3110.7	3101.7
7.5°	3425.1	3407.0	3339.1	3308.3	3263.3	3226.1	3155.5	3122.1	3092.7	3064.5	3059.3
10°	3541.9	3508.5	3414.8	3367.3	3301.9	3258.2	3176.1	3112.0	3068.3	3036.2	3034.9
12.5°	3694.5	3644.5	3531.6	3468.7	3387.9	3321.1	3227.4	3131.2	3059.3	3008.0	3005.5
15°	3876.8	3824.1	3710.0	3629.1	3534.1	3444.3	3294.2	3151.7	3032.4	2950.2	2940.0
17.5°	4100.0	4050.0	3946.0	3880.6	3747.2	3570.1	3357.0	3144.0	2973.3	2860.5	2843.7
20°	4382.4	4396.5	4299.0	4156.5	3934.6	3674.0	3387.9	3104.2	2856.5	2698.7	2675.6
22.5°	4776.3	4823.8	4660.8	4399.0	4076.9	3729.2	3375.0	2999.0	2696.2	2505.0	2485.7
25°	5258.8	5244.7	4950.9	4577.4	4150.1	3727.9	3303.2	2848.9	2492.1	2276.6	2262.4
27.5°	5763.2	5678.5	5224.2	4701.9	4163.0	3657.3	3162.0	2623.0	2257.3	2077.6	2035.2
30°	6406.1	6170.0	5504.0	4807.2	4120.6	3522.6	2906.6	2406.2	2122.6	1927.4	1899.2
32.5°	7149.1	6756.4	5818.3	4839.2	4026.9	3316.0	2629.4	2306.0	2033.9	1812.0	1779.9
35°	8012.7	7507.2	6182.8	4850.7	3848.5	3009.3	2479.3	2248.3	1974.9	1723.4	1681.1
37.5°	8916.2	8302.7	6631.9	4837.9	3640.7	2673.1	2374.1	2164.8	1908.2	1702.9	1678.6
40°	9732.3	9068.9	7138.9	4802.0	3355.7	2454.9	2259.8	2049.4	1850.5	1695.2	1675.9
42.5°	10480.5	9736.1	7624.0	4741.7	3000.3	2299.7	2134.1	1963.4	1777.3	1587.4	1548.9
45°	11128.5	10352.1	7983.3	4598.0	2602.5	2140.5	1982.6	1844.0	1668.3	1479.6	1441.1
47.5°	11684.2	10860.4	8265.5	4351.5	2281.6	1991.7	1810.7	1701.7	1547.7	1368.0	1329.4
50°	12251.4	11273.5	8431.1	3944.7	2013.5	1821.0	1640.0	1536.1	1403.9	1273.0	1249.9
52.5°	12859.7	11944.6	8672.3	3274.9	1765.8	1641.3	1459.1	1346.2	1248.7	1193.4	1171.6
55°	13474.4	12540.1	8760.9	2476.7	1548.9	1500.2	1288.4	1142.1	1072.8	1038.2	1033.1
57.5°	14085.2	13048.3	8458.0	1763.2	1405.2	1337.2	1106.2	967.6	885.4	909.8	947.0
60°	14710.1	13419.2	7684.3	1379.6	1292.2	1142.1	952.2	849.5	813.6	786.7	787.9
62.5°	15287.6	13592.4	6367.6	1171.6	1183.2	1021.5	898.3	798.2	762.3	716.1	702.0
65°	15671.4	13287.0	4970.1	1084.4	1084.4	990.7	895.7	799.5	750.7	669.9	655.8
67.5°	15560.9	12491.3	3677.9	1006.1	1021.5	1003.5	917.6	796.9	736.6	659.6	654.5
69°	15205.4	11729.1	2824.5	983.0	1011.3	1015.1	943.2	809.8	752.0	635.2	607.0
70°	14848.8	11141.4	2338.1	963.8	1008.6	1022.8	963.8	825.1	740.4	596.7	578.7
72.5°	13636.0	9416.7	1178.1	889.3	1004.8	1031.7	1008.6	882.9	734.0	574.9	559.5
75°	11988.3	7242.8	755.8	826.4	972.7	1042.0	1044.5	936.7	736.6	562.1	542.8
77.5°	9605.2	4198.9	627.6	755.8	912.4	1021.5	1056.1	977.9	767.4	583.9	562.1
80°	5107.4	1660.5	504.3	645.5	835.4	959.8	1024.1	963.8	759.7	487.7	473.6
82.5°	2261.1	515.9	369.6	506.8	657.0	839.2	870.1	848.2	664.8	295.2	337.5
85°	635.2	213.0	246.4	364.5	454.3	594.2	681.4	684.0	515.9	128.4	29.5
87.5°	65.4	48.8	71.9	139.9	261.8	412.0	497.9	477.4	345.2	109.1	2.5
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)