

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: P639429

Luminaire Tested: **USSL-M-PA6D-750-U-T2R-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-750-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53642 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 544
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



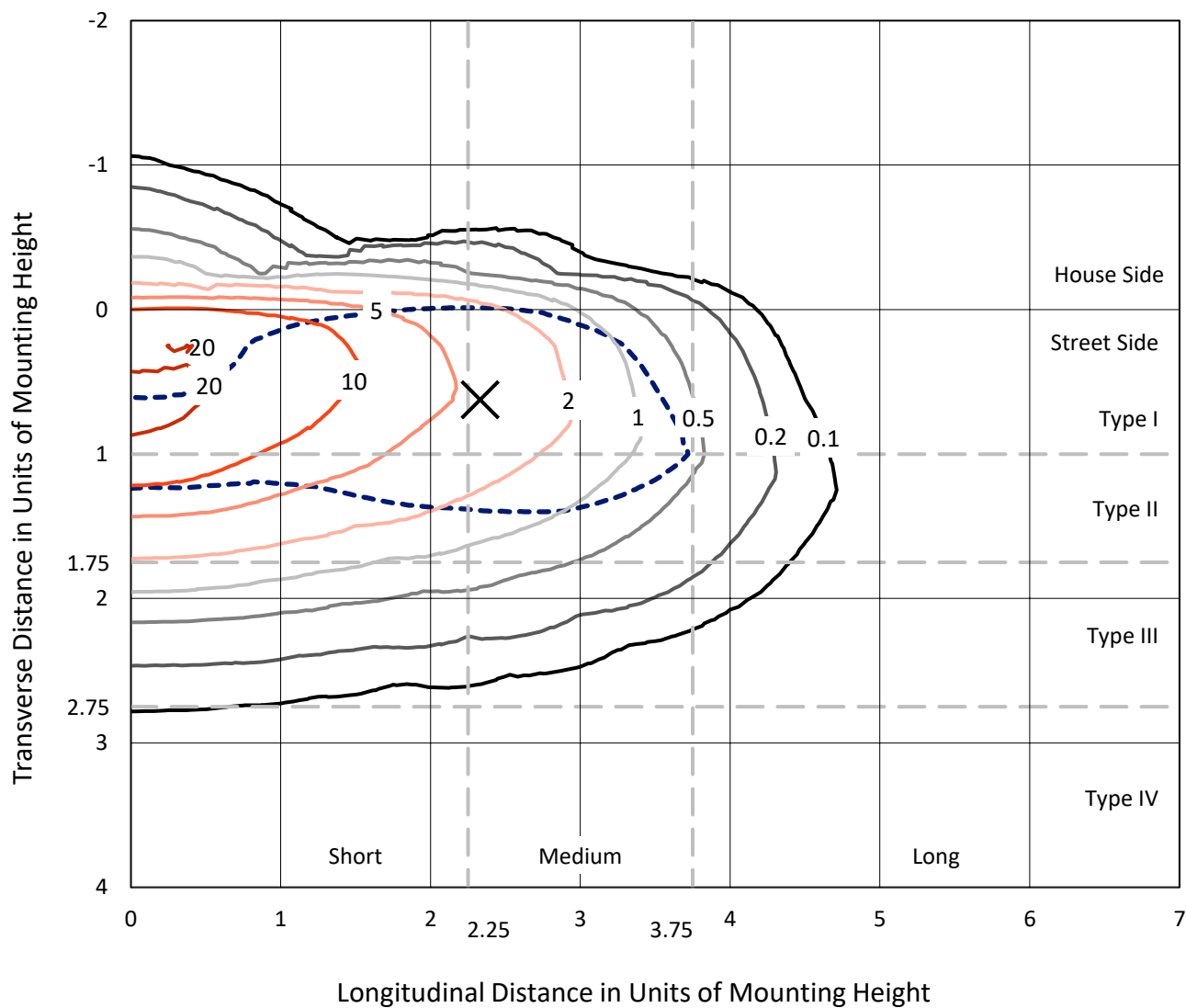
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

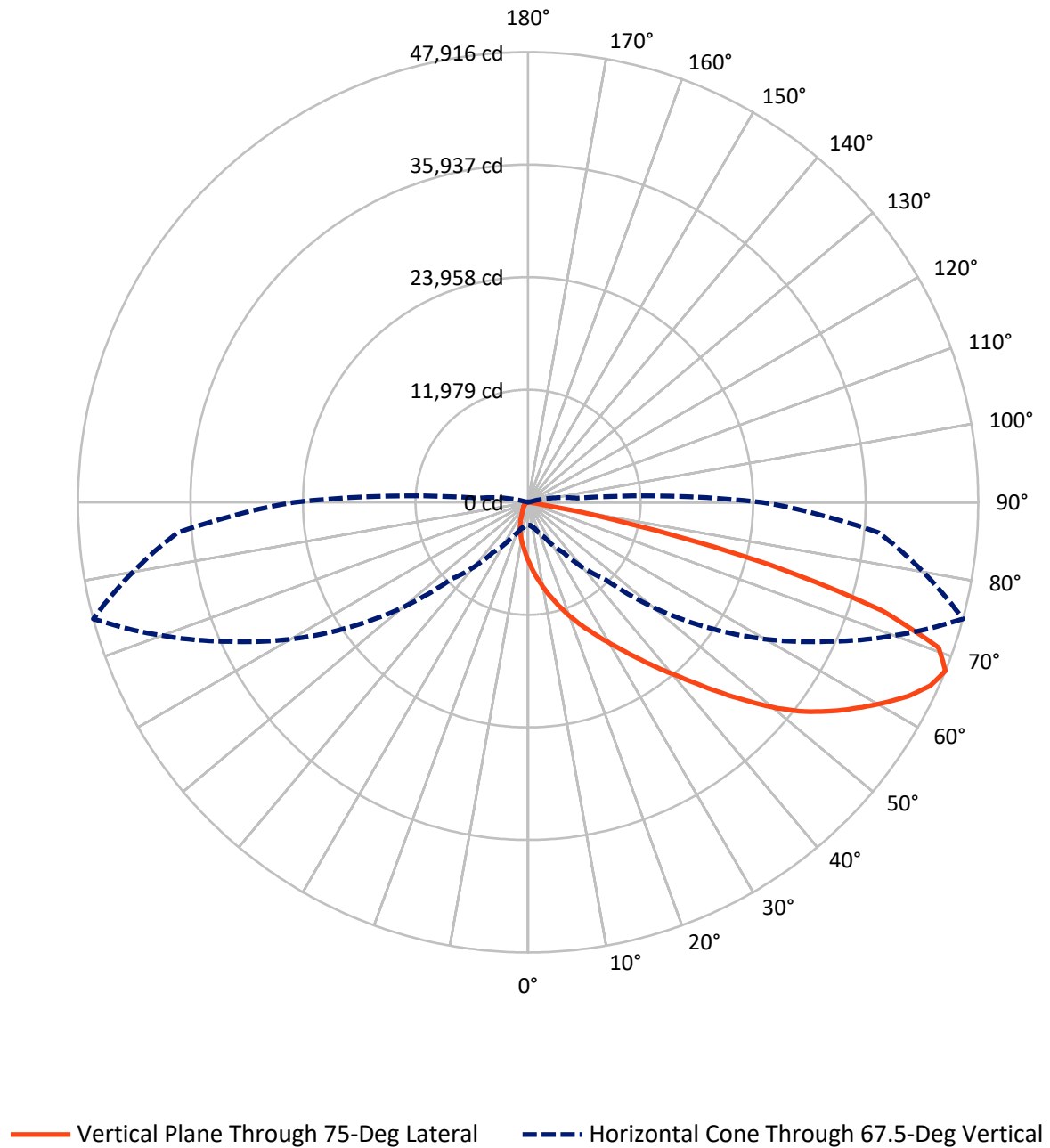
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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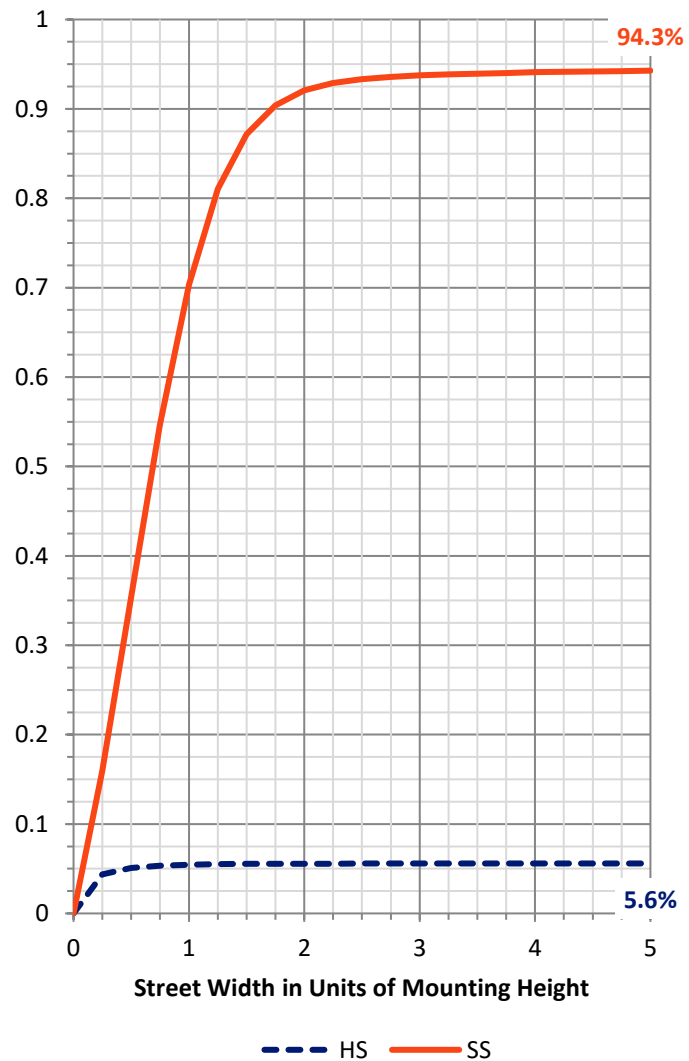
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.5	0.0	3016.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	50625.5	0.0	50625.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	53642.0	0.0	53642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.6	1.1
10°-20°	2069.9	3.9
20°-30°	4116.7	7.7
30°-40°	7463.5	13.9
40°-50°	11174.1	20.8
50°-60°	12734.8	23.7
60°-70°	10817.9	20.2
70°-80°	4463.2	8.3
80°-90°	188.3	0.4
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°	53642.0	100.0
0°-180°	53642.0	100.0

Coefficient of Utilization



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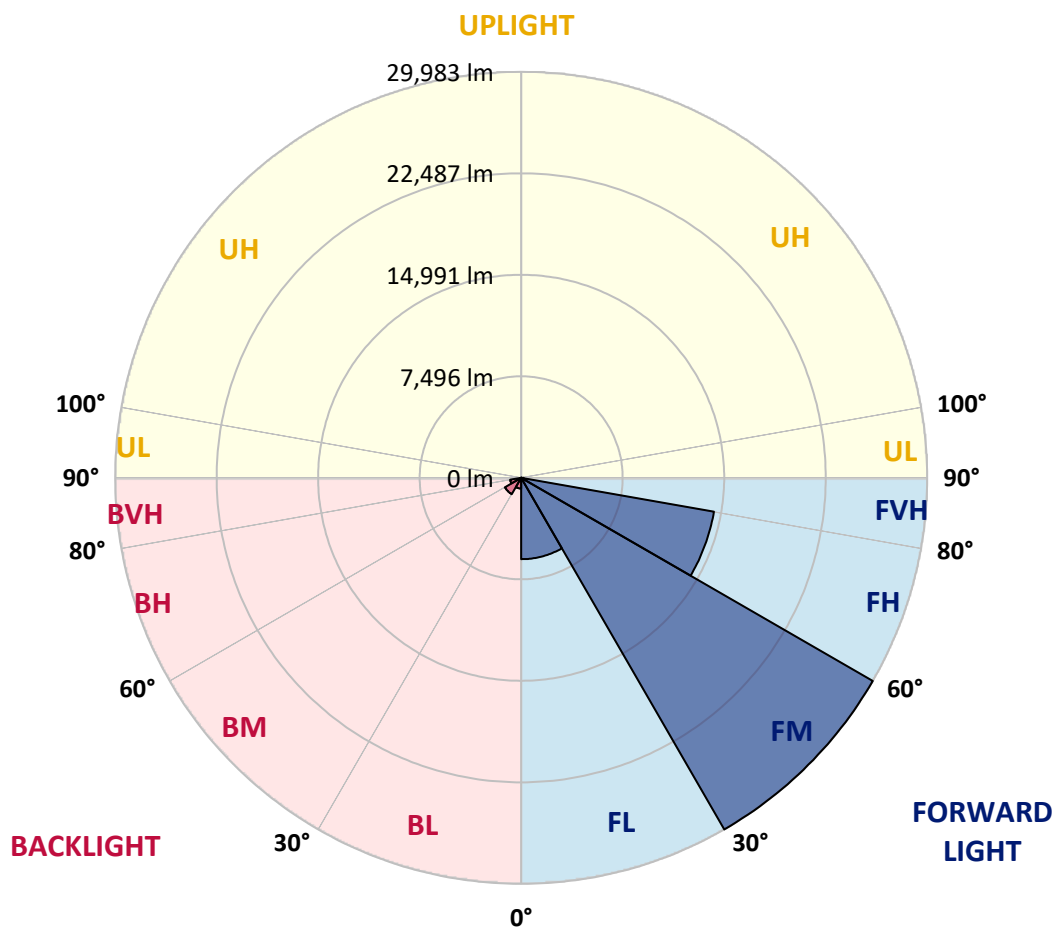
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6009.0	11.2			
FM	(30°-60°)	29982.6	55.9			
FH	(60°-80°)	14454.9	26.9			G5
FVH	(80°-90°)	179.1	0.3			G2/225
BL	(0°-30°)	791.2	1.5	B2/1000		
BM	(30°-60°)	1389.9	2.6	B2/2500		
BH	(60°-80°)	826.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6
2.5°	8671.0	8566.5	8644.9	8553.5	8334.8	8062.3	7757.2	7372.1	6949.5	6526.9	6313.1
5°	10467.5	10253.7	10268.4	10152.6	9907.8	9542.3	9093.6	8440.9	7687.0	6841.8	6404.5
7.5°	11415.5	11232.8	11249.1	11165.9	10992.9	10687.8	10244.0	9470.5	8467.0	7233.4	6567.7
10°	12158.0	12043.7	12079.6	12030.7	11905.0	11660.3	11268.7	10488.7	9292.7	7703.4	6794.5
12.5°	12918.3	12796.0	12864.5	12844.9	12768.2	12596.9	12202.0	11492.2	10149.3	8220.6	7050.7
15°	13370.3	13218.6	13360.5	13504.1	13597.1	13536.8	13238.2	12497.4	11072.9	8768.9	7323.2
17.5°	13580.8	13455.2	13652.6	13899.0	14217.2	14388.5	14192.7	13553.1	12045.4	9374.2	7646.3
20°	14065.4	13951.2	14130.7	14390.2	14734.5	15088.5	15140.8	14641.4	13044.0	10026.9	7995.4
22.5°	15193.0	15062.4	15140.8	15186.4	15419.8	15755.9	15984.4	15746.1	14073.6	10717.2	8364.2
25°	17144.5	16956.9	16862.2	16539.1	16516.3	16614.2	16759.4	16859.0	15113.0	11431.8	8728.1
27.5°	19807.5	19561.1	19229.9	18425.4	18020.7	17789.0	17625.9	17973.4	16286.2	12122.1	9109.9
30°	22579.8	22269.8	21860.2	20887.7	19938.0	19324.5	18720.8	19115.6	17528.0	12944.5	9519.5
32.5°	24968.6	24609.6	24071.2	23082.3	22087.0	21139.0	20115.9	20269.3	18923.1	13858.2	9991.0
35°	26864.7	26430.6	25990.1	25009.4	24116.9	23110.1	21790.0	21488.2	20551.5	14896.0	10578.5
37.5°	28210.9	27749.1	27259.6	26407.8	25774.7	25097.5	23775.8	22925.7	22297.5	16110.0	11286.6
40°	29015.3	28527.4	28126.0	27512.5	27055.6	26863.1	25975.4	24612.9	24178.9	17526.3	12172.7
42.5°	29327.0	28853.8	28569.8	28124.4	27938.4	28223.9	28121.1	26729.2	26440.4	19225.0	13234.9
45°	29116.5	28682.4	28512.7	28307.1	28401.8	29183.4	30151.0	29049.6	28982.7	21132.4	14465.2
47.5°	28072.2	27729.5	27845.3	28008.5	28400.1	29726.7	31799.0	31534.7	31658.7	23315.7	15876.7
50°	25784.5	25591.9	26120.6	26956.1	27876.3	29858.9	33073.4	33894.1	34471.8	25622.9	17426.8
52.5°	21228.7	21354.4	23067.7	24860.9	26644.4	29508.1	33775.0	35950.1	37036.8	27719.7	18859.5
55°	16294.4	16230.7	18410.7	21715.0	24519.9	28476.8	33951.3	37191.9	39246.2	29721.8	20187.7
57.5°	12605.1	12552.8	13845.2	17508.4	21266.2	26582.4	33700.0	37958.8	41318.5	31634.2	21532.2
60°	9694.1	9663.1	10638.8	13065.2	17208.1	23841.1	32768.3	38327.5	43413.6	33714.7	22901.2
62.5°	6956.0	6996.8	7832.3	9708.7	13357.3	19995.1	30872.2	38097.5	45428.8	35560.1	24165.8
65°	4317.5	4363.2	5076.3	6763.5	9619.0	15592.7	27677.3	37103.7	47054.0	36925.9	25063.3
67.5°	2431.3	2454.1	2911.0	4100.5	6508.9	11549.3	23173.7	35057.6	47915.5	37500.3	24934.4
70°	1638.2	1646.4	1781.8	2259.9	3746.4	7765.4	17536.1	31278.5	46368.7	35591.1	22535.7
72.5°	1307.0	1311.9	1406.5	1520.8	2147.3	4812.0	11768.0	25324.3	39417.5	28210.9	16555.5
75°	966.0	987.2	1165.0	1230.3	1455.5	2628.7	6329.5	16596.3	26608.5	15844.0	9002.2
77.5°	812.6	817.5	874.6	1014.9	1111.2	1491.4	2127.8	7334.6	11004.3	4681.4	2320.3
80°	549.9	549.9	651.1	745.7	846.9	982.3	840.3	1997.2	2038.0	755.5	430.8
82.5°	385.1	398.1	466.7	629.8	688.6	527.0	430.8	553.2	469.9	249.7	135.4
85°	106.1	130.5	319.8	468.3	367.1	159.9	259.4	218.7	161.5	93.0	57.1
87.5°	16.3	19.6	153.4	140.3	99.5	29.4	89.7	37.5	50.6	35.9	27.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6
2.5°	6083.1	5658.8	5205.2	4808.7	4470.9	4162.5	4012.4	3805.2	3801.9	3656.7
5°	5946.0	5053.4	4260.4	3589.8	3054.6	2671.1	2434.5	2235.5	2142.5	2104.9
7.5°	5864.4	4555.8	3470.7	2653.2	2091.9	1768.8	1584.4	1509.3	1468.6	1449.0
10°	5844.8	4121.7	2795.1	1964.6	1556.7	1403.3	1341.3	1303.7	1289.1	1274.4
12.5°	5833.4	3694.2	2258.3	1555.0	1356.0	1267.8	1212.4	1171.6	1153.6	1140.6
15°	5826.9	3265.1	1816.1	1367.4	1238.5	1152.0	1085.1	1045.9	1021.5	1008.4
17.5°	5836.7	2880.0	1512.6	1263.0	1138.9	1032.9	964.3	913.8	894.2	876.2
20°	5854.6	2488.4	1352.7	1168.3	1031.2	915.4	843.6	789.8	762.0	752.2
22.5°	5862.8	2103.3	1243.4	1065.5	918.7	799.5	724.5	678.8	654.3	644.5
25°	5839.9	1767.2	1138.9	956.2	807.7	693.5	620.1	582.5	569.5	559.7
27.5°	5786.1	1481.6	1034.5	845.2	706.5	603.7	543.4	509.1	499.3	497.7
30°	5696.3	1259.7	930.1	744.1	616.8	527.0	474.8	447.1	442.2	438.9
32.5°	5613.1	1109.6	833.8	657.6	541.7	460.1	414.5	396.5	393.2	393.2
35°	5526.6	997.0	739.2	579.3	474.8	404.7	367.1	350.8	354.1	352.5
37.5°	5461.4	899.1	665.7	515.6	416.1	352.5	319.8	308.4	314.9	314.9
40°	5422.2	820.8	590.7	456.9	363.9	306.8	279.0	270.9	282.3	283.9
42.5°	5420.6	745.7	530.3	403.0	316.6	267.6	243.1	235.0	248.0	251.3
45°	5451.6	687.0	471.6	352.5	277.4	231.7	205.6	197.4	212.1	213.8
47.5°	5578.9	638.0	419.4	310.0	243.1	200.7	169.7	161.5	177.9	179.5
50°	5789.4	572.7	362.2	270.9	212.1	169.7	137.1	130.5	148.5	150.1
52.5°	5988.4	510.7	310.0	233.3	184.4	140.3	109.3	106.1	124.0	127.3
55°	6076.5	448.7	266.0	200.7	159.9	115.9	86.5	88.1	106.1	109.3
57.5°	6123.9	396.5	230.1	173.0	138.7	94.6	73.4	75.1	91.4	94.6
60°	6161.4	344.3	202.3	151.8	120.7	80.0	63.6	62.0	75.1	78.3
62.5°	6141.8	295.3	177.9	132.2	102.8	70.2	53.8	49.0	57.1	58.7
65°	5893.8	256.2	153.4	112.6	88.1	58.7	42.4	29.4	34.3	35.9
67.5°	5198.7	225.2	130.5	96.3	71.8	50.6	31.0	19.6	22.8	24.5
70°	3880.2	192.5	106.1	80.0	58.7	40.8	22.8	13.1	16.3	17.9
72.5°	2096.8	158.3	84.8	62.0	44.1	31.0	14.7	8.2	9.8	9.8
75°	866.4	114.2	63.6	42.4	31.0	22.8	11.4	3.3	3.3	3.3
77.5°	321.4	70.2	40.8	32.6	24.5	17.9	8.2	1.6	0.0	0.0
80°	146.9	37.5	31.0	26.1	19.6	14.7	6.5	0.0	0.0	0.0
82.5°	68.5	26.1	24.5	21.2	16.3	11.4	4.9	0.0	0.0	0.0
85°	32.6	21.2	22.8	19.6	16.3	9.8	3.3	0.0	0.0	0.0
87.5°	19.6	22.8	22.8	19.6	16.3	9.8	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

(END OF REPORT)