

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: P639425

Luminaire Tested: **USSL-M-PA6D-740-U-T3**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-740-U-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67155 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - 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

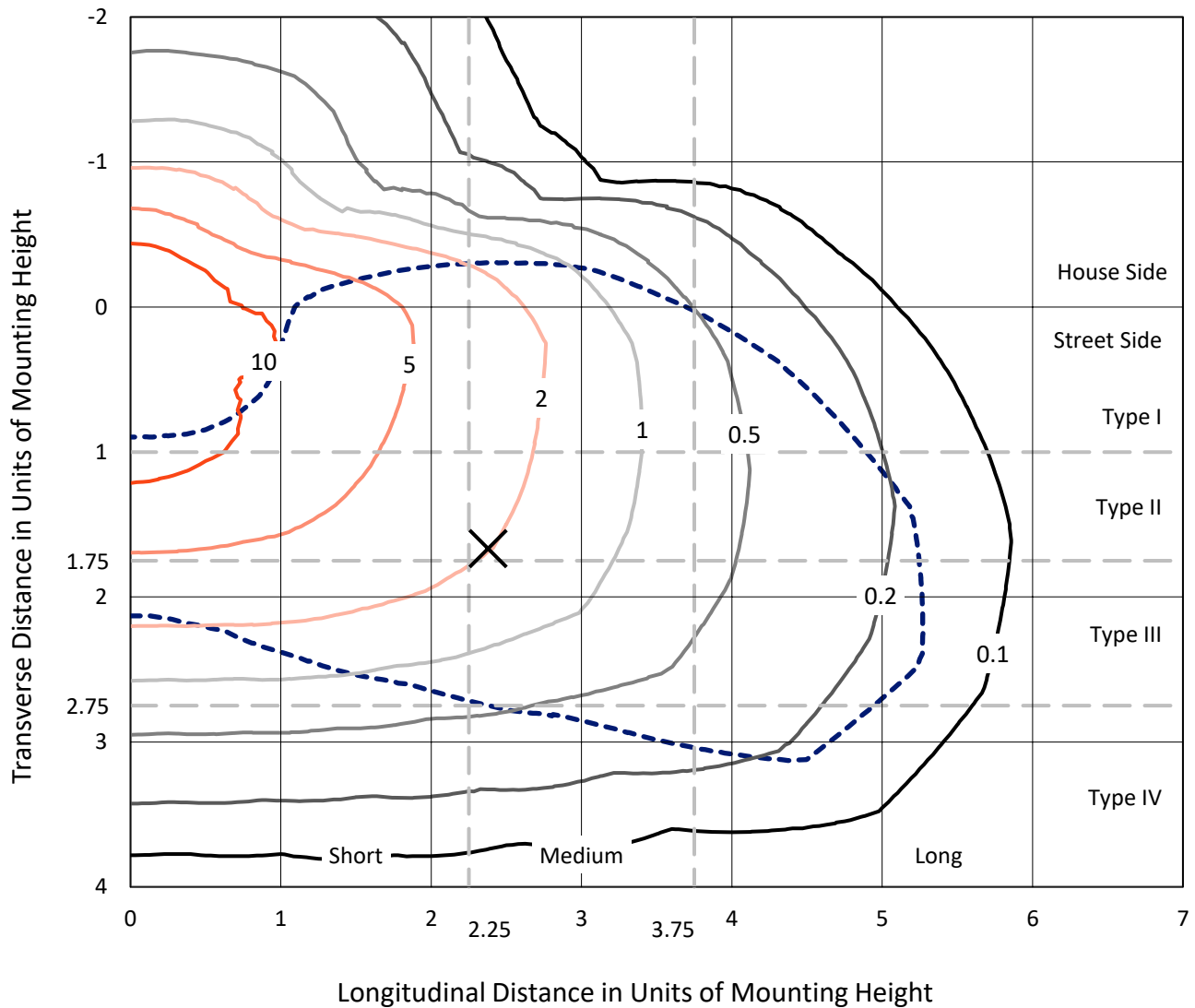


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Iso-Footcandle Lines of Horizontal Illumination

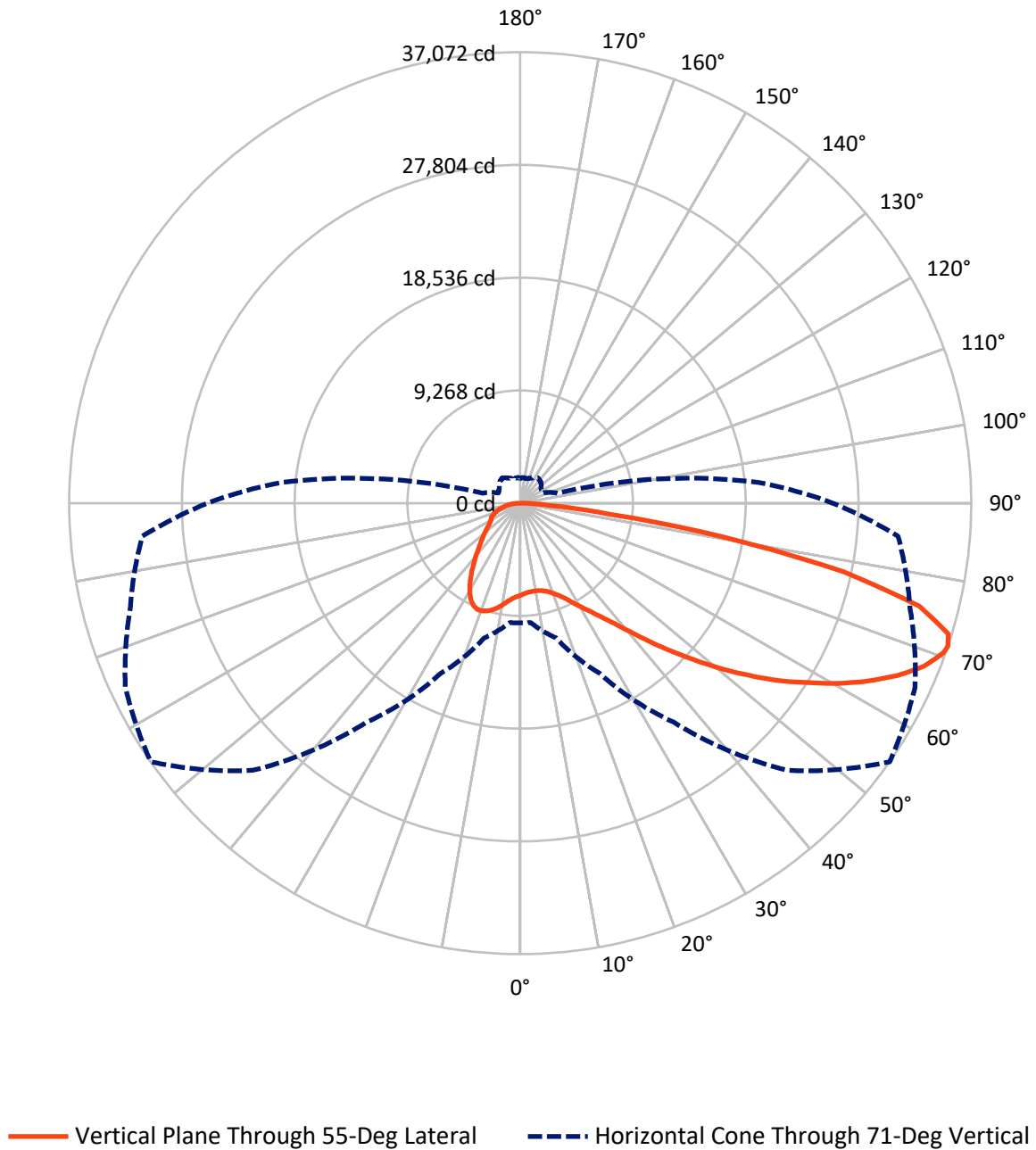
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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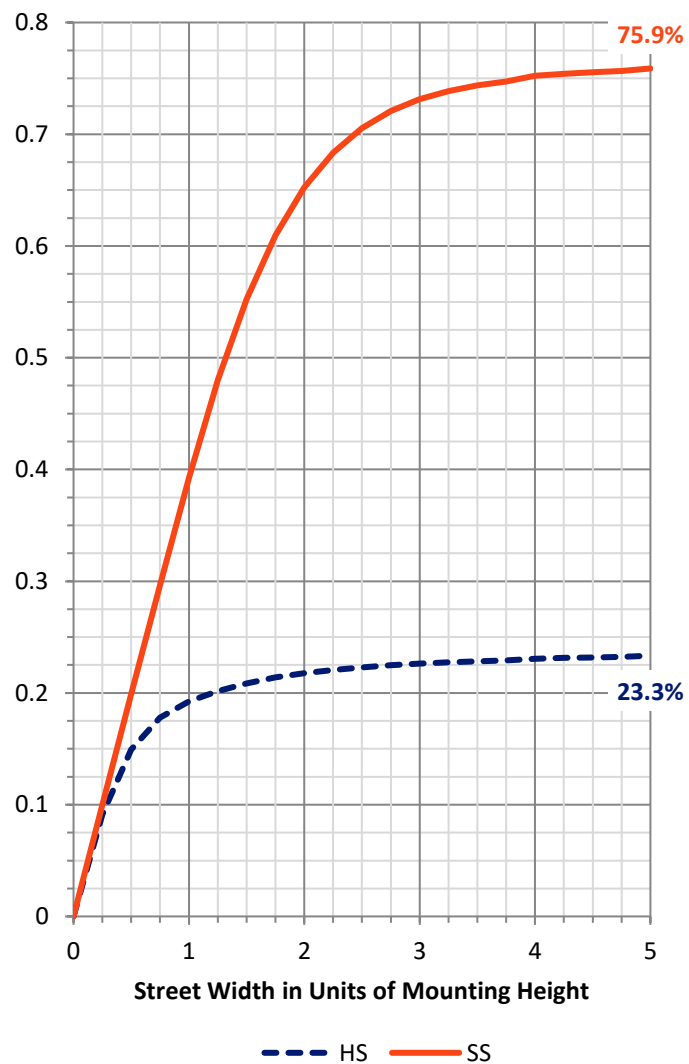
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15954.9	0.0	15954.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	51200.1	0.0	51200.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	67155.0	0.0	67155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.8	1.1
10°-20°	2342.0	3.5
20°-30°	4128.7	6.1
30°-40°	6184.8	9.2
40°-50°	9678.6	14.4
50°-60°	14226.8	21.2
60°-70°	16663.0	24.8
70°-80°	11286.1	16.8
80°-90°	1908.2	2.8
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°	67155.0	100.0
0°-180°	67155.0	100.0

Coefficient of Utilization



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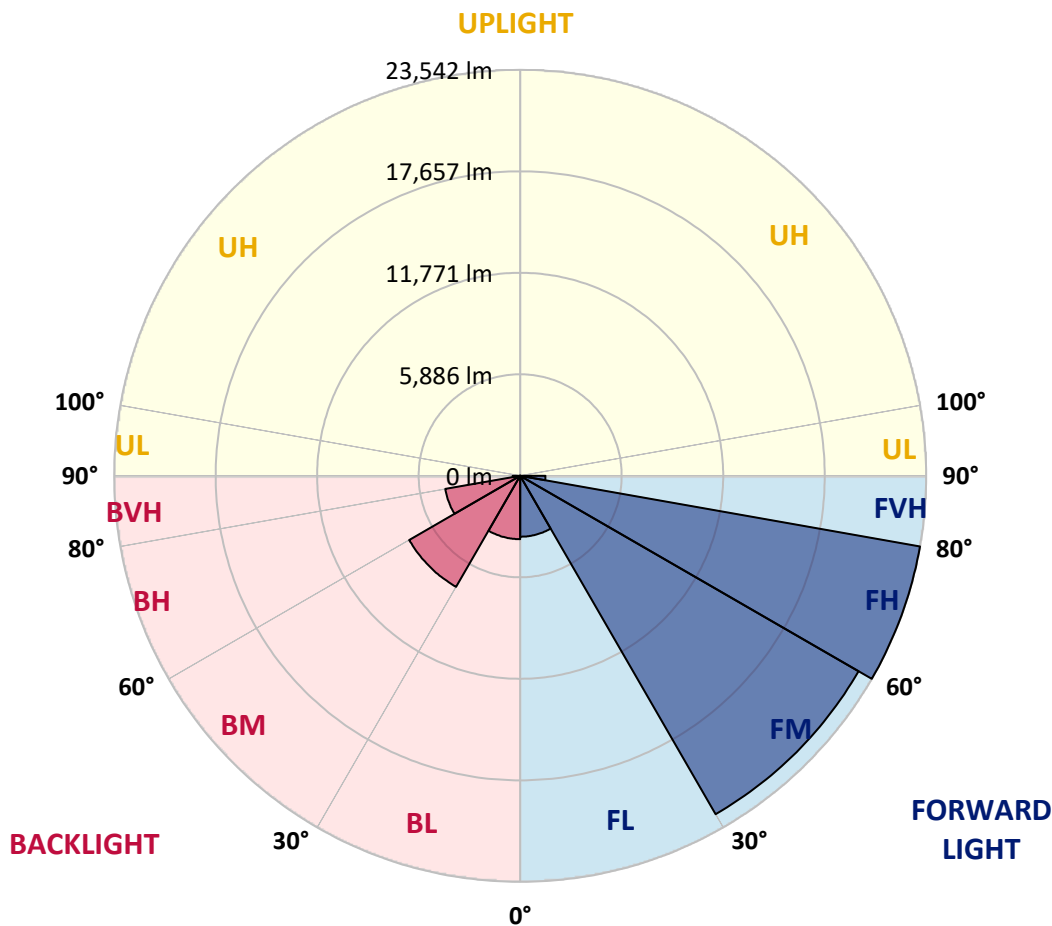
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.9	5.3			
FM	(30°-60°)	22656.7	33.7			
FH	(60°-80°)	23542.4	35.1			G5
FVH	(80°-90°)	1468.2	2.2			G5
BL	(0°-30°)	3674.6	5.5	B4/5000		
BM	(30°-60°)	7433.5	11.1	B4/8500		
BH	(60°-80°)	4406.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	440.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2
2.5°	7444.0	7393.4	7395.1	7395.1	7388.5	7419.5	7435.9	7462.0	7486.4	7514.2	7541.9
5°	7253.1	7217.2	7228.6	7249.8	7262.9	7308.6	7346.1	7390.2	7431.0	7486.4	7524.0
7.5°	7070.4	7024.7	7060.6	7114.4	7153.6	7246.6	7315.1	7383.6	7444.0	7530.5	7586.0
10°	6974.1	6933.3	6977.3	7045.9	7109.5	7220.5	7323.3	7429.3	7537.0	7679.0	7747.5
12.5°	7006.7	6965.9	7000.2	7070.4	7135.6	7248.2	7369.0	7535.4	7692.0	7865.0	7954.8
15°	7163.4	7125.8	7148.7	7197.6	7235.2	7336.3	7484.8	7690.4	7884.6	8088.6	8183.2
17.5°	7517.5	7466.9	7442.4	7416.3	7422.8	7493.0	7664.3	7905.8	8124.5	8346.4	8441.0
20°	8038.0	7979.2	7931.9	7801.4	7721.4	7776.9	7928.7	8171.8	8405.1	8628.7	8721.7
22.5°	8755.9	8662.9	8561.8	8336.6	8175.0	8162.0	8256.6	8494.9	8720.0	8924.0	9033.3
25°	9442.9	9367.9	9265.1	8984.4	8734.7	8643.4	8703.7	8901.2	9087.2	9235.7	9330.3
27.5°	10240.8	10129.9	9939.0	9666.5	9384.2	9224.3	9281.4	9421.7	9557.1	9615.9	9671.4
30°	11099.1	10986.5	10784.2	10405.6	10072.8	9893.3	9904.7	10111.9	10147.8	10077.7	10105.4
32.5°	12207.1	12094.5	11854.6	11345.5	10908.2	10635.7	10616.1	10761.4	10764.6	10624.3	10617.8
35°	13610.4	13468.4	13127.4	12507.3	11926.4	11513.6	11477.7	11611.5	11621.3	11443.4	11389.6
37.5°	15176.9	15085.5	14767.3	13889.4	13125.8	12646.0	12517.1	12753.7	12822.3	12575.9	12464.9
40°	16966.9	16890.2	16661.8	15560.3	14597.6	14044.4	13871.5	14116.2	14271.2	14018.3	13873.1
42.5°	18972.3	18890.7	18424.0	17376.5	16392.5	15681.1	15504.8	15702.3	16045.0	15584.8	15302.5
45°	21144.2	21078.9	20329.9	19442.3	18451.8	17781.1	17276.9	17412.4	17781.1	17400.9	16911.4
47.5°	22837.9	22681.3	22160.7	21578.2	20835.8	19997.0	19223.6	19270.9	19569.5	19204.0	18450.1
50°	24094.4	24055.2	23629.3	23335.6	23343.8	22585.0	21362.8	21193.1	21501.5	21016.9	20114.5
52.5°	25208.8	25073.4	24714.4	24836.8	25574.4	25416.1	23492.2	23110.4	23515.1	22968.5	21823.0
55°	25443.8	25158.3	25339.4	26049.2	27446.0	27728.3	25748.9	25277.4	25597.2	25079.9	23595.0
57.5°	24853.1	24812.3	25453.6	26737.8	28890.1	29402.4	27832.7	27432.9	27455.8	27158.8	25326.3
60°	23423.7	23565.7	24978.8	26964.6	30032.3	30902.0	30089.4	29567.2	29307.8	29299.6	26940.1
62.5°	21188.2	21431.3	23335.6	26473.4	30353.7	32085.0	32182.9	31613.4	31021.1	31130.4	28253.7
65°	18335.9	18368.6	20525.7	24949.4	29598.2	32897.6	34123.1	33441.0	32463.6	32638.2	28939.0
67.5°	15005.5	15017.0	17045.2	21775.6	27806.6	33163.6	35792.3	34777.4	33284.3	33142.4	28615.9
70°	11381.4	11417.3	12998.5	17518.4	24079.7	32161.7	36893.8	35658.5	33395.3	32145.4	26892.8
71°	9844.3	9849.2	11482.6	15420.0	21969.8	31060.3	37071.6	35808.7	33170.1	31176.1	25703.3
72.5°	7360.8	7349.4	8772.3	12117.3	18339.2	28449.5	36804.0	35666.7	32527.2	29115.2	23368.2
75°	3864.0	3872.1	4642.3	7019.8	11642.5	21522.7	33904.4	33548.7	29890.3	23988.3	18192.3
77.5°	2021.7	2023.4	2446.0	3539.3	6060.3	12760.3	27173.5	28369.5	24895.5	17043.6	11955.8
80°	1347.8	1356.0	1581.2	2105.0	3323.9	5435.3	16999.5	19339.5	16735.2	9731.7	6233.3
82.5°	988.8	995.4	1187.9	1445.7	2242.0	2415.0	7479.9	10041.8	8176.7	4125.1	2555.3
85°	760.4	763.7	928.5	993.7	1483.3	1336.4	2424.8	4064.7	3177.0	843.6	714.7
87.5°	388.4	419.4	603.7	545.0	726.1	528.7	842.0	946.4	811.0	280.7	228.4
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°	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2	7558.2
2.5°	7564.8	7620.3	7656.2	7675.7	7716.5	7759.0	7816.1	7840.5	7855.2	7798.1
5°	7568.0	7672.5	7763.8	7856.9	7962.9	8055.9	8165.3	8224.0	8248.5	8188.1
7.5°	7652.9	7804.6	7954.8	8104.9	8268.1	8393.7	8545.5	8627.0	8679.3	8630.3
10°	7843.8	8057.6	8261.5	8437.8	8594.4	8720.0	8850.6	8928.9	8977.9	8919.1
12.5°	8078.8	8346.4	8589.5	8780.4	8917.5	8997.4	9080.7	9123.1	9155.7	9101.9
15°	8321.9	8630.3	8891.4	9061.1	9129.6	9175.3	9196.5	9196.5	9211.2	9149.2
17.5°	8604.2	8915.9	9162.3	9261.8	9276.5	9234.0	9201.4	9159.0	9129.6	9069.2
20°	8889.8	9193.3	9403.8	9403.8	9281.4	9144.3	9012.1	8922.4	8875.1	8813.1
22.5°	9188.4	9467.4	9581.6	9418.4	9108.4	8853.9	8676.0	8538.9	8491.6	8434.5
25°	9480.4	9731.7	9676.3	9250.4	8775.5	8393.7	8155.5	8023.3	7959.7	7917.2
27.5°	9795.4	9978.1	9646.9	8924.0	8245.2	7837.3	7574.6	7396.7	7310.2	7258.0
30°	10209.8	10222.9	9485.3	8401.9	7620.3	7142.2	6863.1	6673.8	6623.3	6582.5
32.5°	10689.6	10449.7	9188.4	7767.1	6905.5	6399.7	6132.1	6022.8	5949.3	5929.8
35°	11422.2	10678.1	8788.6	7111.1	6159.8	5712.7	5482.7	5363.5	5260.7	5224.8
37.5°	12365.4	10877.2	8259.9	6388.3	5508.8	5122.0	4923.0	4737.0	4565.6	4528.1
40°	13466.8	11061.6	7644.7	5768.2	4978.5	4671.7	4441.6	4177.3	3926.0	3886.8
42.5°	14633.5	11182.4	7023.0	5174.3	4585.2	4309.4	3999.4	3689.4	3467.5	3403.8
45°	15842.6	11161.1	6363.8	4670.1	4276.8	3974.9	3640.4	3358.1	3152.5	3115.0
47.5°	16906.5	11014.3	5778.0	4240.9	3976.6	3689.4	3367.9	3118.3	2943.7	2906.1
50°	18021.0	10782.6	5273.8	3864.0	3707.3	3467.5	3160.7	2946.9	2785.4	2751.1
52.5°	19027.8	10555.8	4691.3	3527.8	3483.8	3296.1	3033.4	2876.8	2677.7	2632.0
55°	20042.7	10353.4	4102.2	3219.4	3302.7	3177.0	2992.6	2906.1	2690.7	2622.2
57.5°	21124.6	10079.3	3560.5	2973.0	3150.9	3167.2	3059.5	2981.2	2775.6	2679.3
60°	22144.4	9544.1	3108.5	2790.3	3087.3	3265.1	3070.9	2809.9	2674.4	2587.9
62.5°	22916.2	8555.2	2790.3	2692.4	3129.7	3240.6	2868.6	2597.7	2534.1	2486.8
65°	23112.0	6993.7	2514.5	2594.5	2994.3	3036.7	2679.3	2439.5	2449.3	2410.1
67.5°	22444.7	5223.2	2276.3	2398.7	2736.4	2814.8	2508.0	2291.0	2375.8	2335.0
70°	20653.0	3666.5	2057.6	2184.9	2506.4	2619.0	2343.2	2139.2	2201.2	2144.1
71°	19652.7	3172.1	1972.8	2091.9	2413.4	2540.6	2273.0	2078.8	2108.2	2036.4
72.5°	17503.7	2596.1	1847.1	1949.9	2268.1	2419.9	2178.4	1969.5	1941.8	1894.5
75°	12592.2	1959.7	1630.1	1706.8	2025.0	2211.0	1977.7	1788.4	1708.4	1680.7
77.5°	7540.3	1519.2	1393.5	1449.0	1796.6	1980.9	1775.3	1592.6	1522.4	1494.7
80°	3451.1	1191.2	1145.5	1189.5	1533.8	1750.9	1586.1	1411.5	1325.0	1289.1
82.5°	1413.1	904.0	873.0	928.5	1276.0	1494.7	1360.9	1192.8	1143.9	1021.5
85°	654.3	594.0	587.4	633.1	897.5	1099.8	998.6	873.0	745.7	722.9
87.5°	297.0	277.4	238.2	293.7	455.3	626.6	574.4	491.2	303.5	290.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)