

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: P639421

Luminaire Tested: **USSL-M-PA6D-740-U-T2R**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)
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-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67899 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - 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



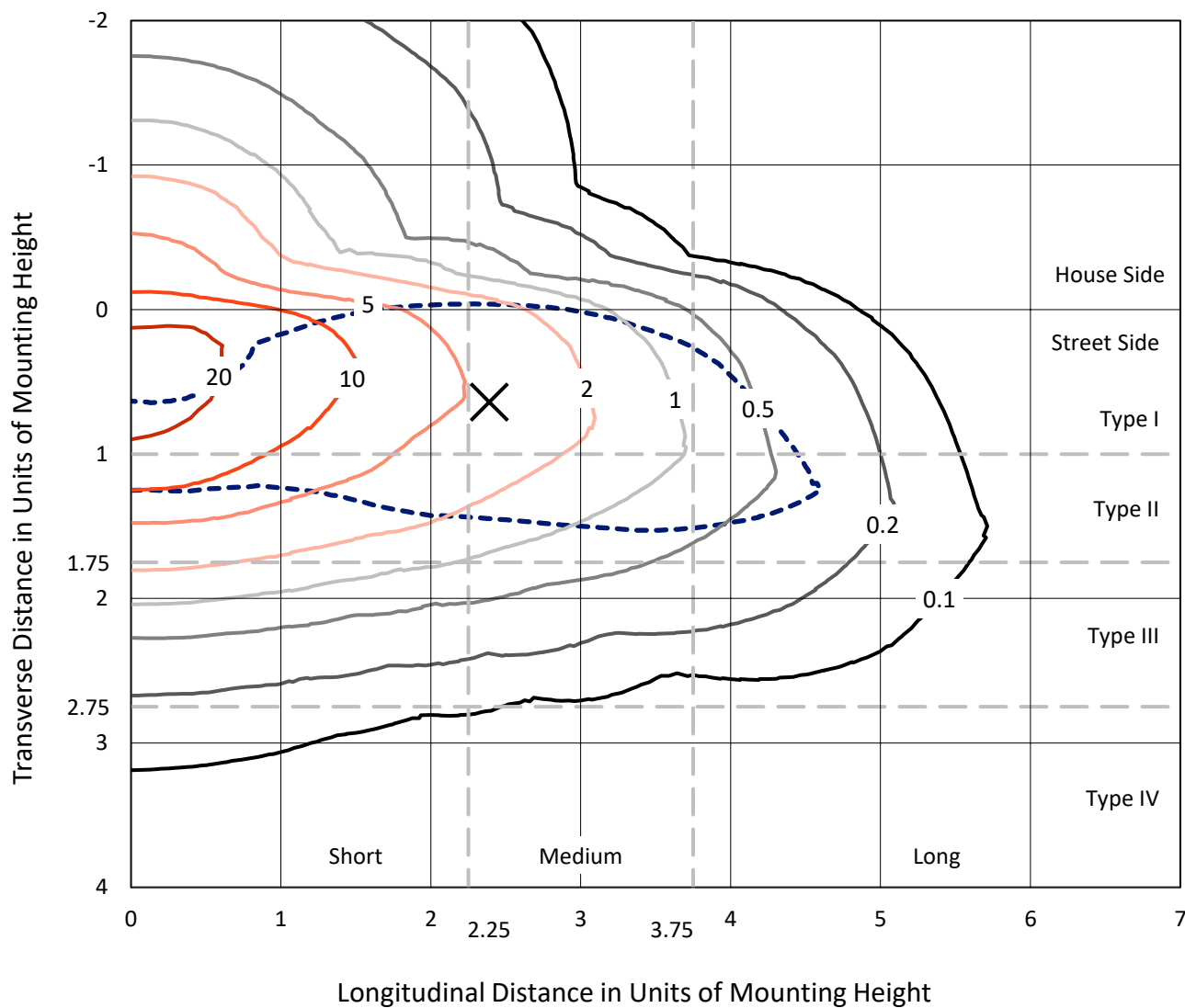
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

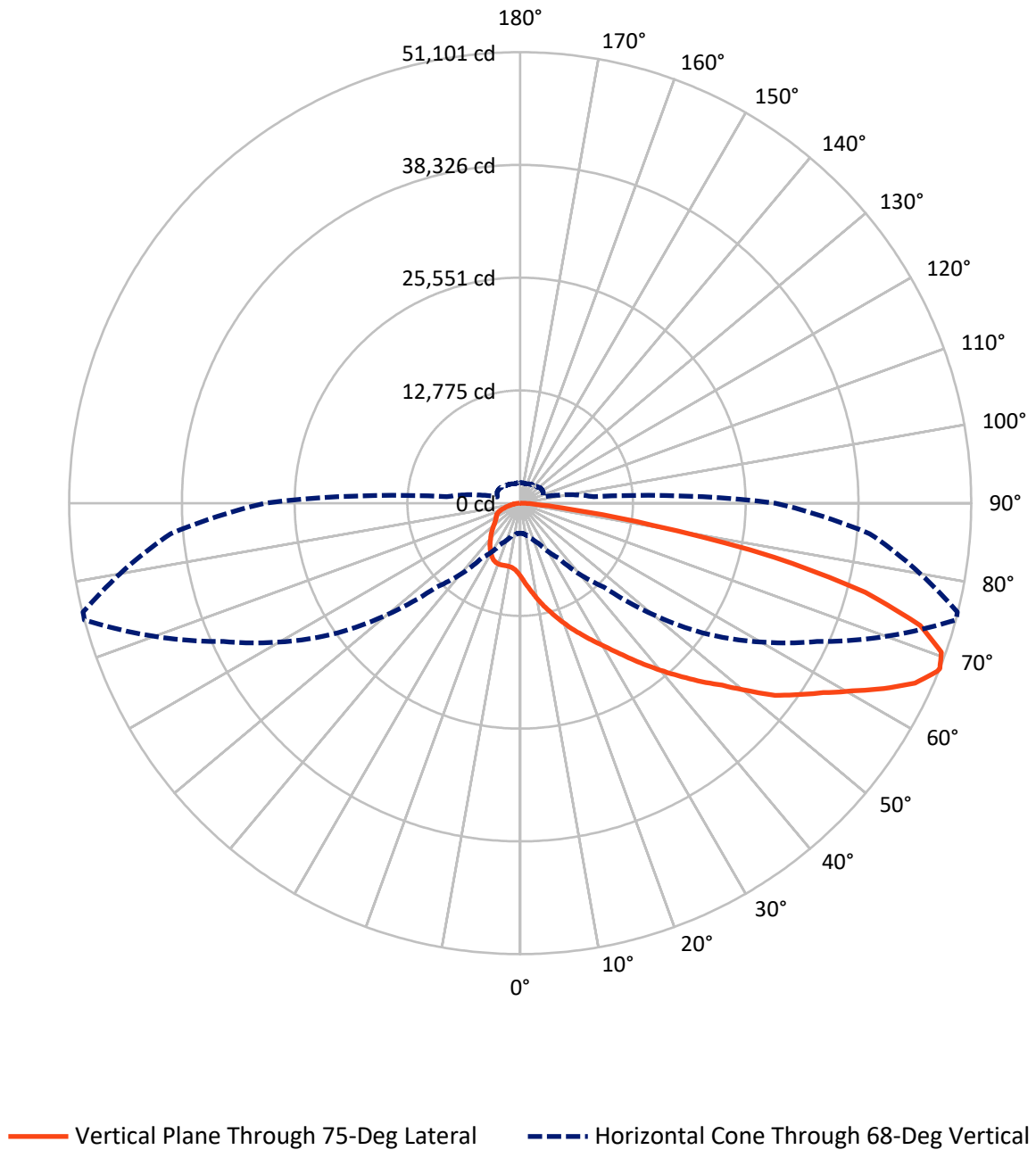
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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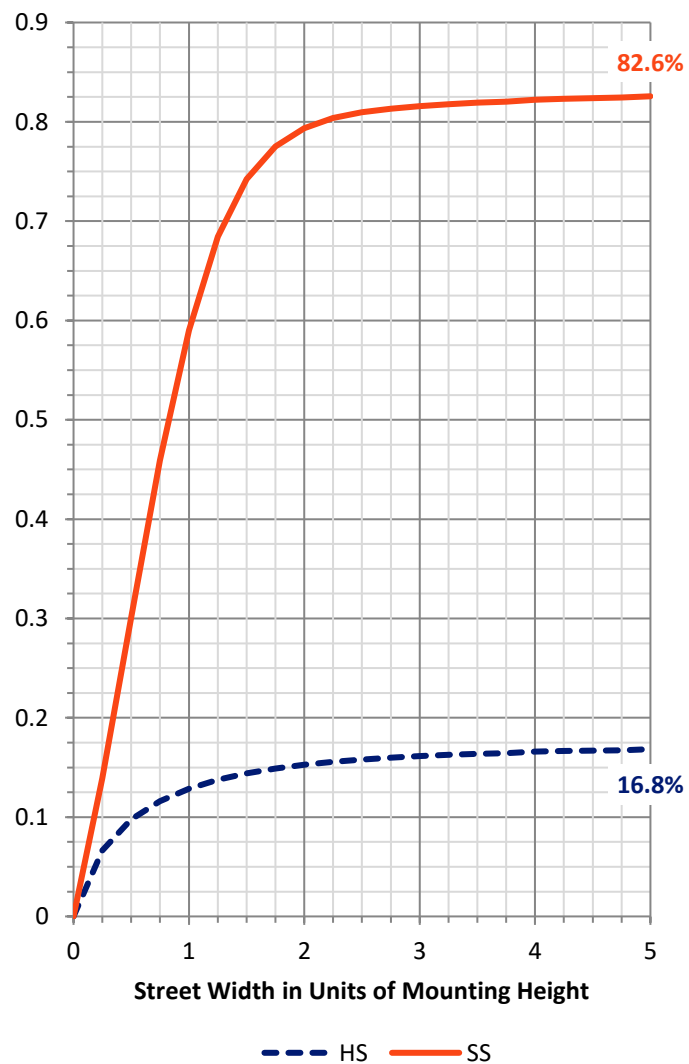
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11623.4	0.0	11623.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	56275.6	0.0	56275.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	67899.0	0.0	67899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.0	1.3
10°-20°	2984.5	4.4
20°-30°	5526.6	8.1
30°-40°	9006.4	13.3
40°-50°	12695.6	18.7
50°-60°	14601.8	21.5
60°-70°	13278.8	19.6
70°-80°	7710.3	11.4
80°-90°	1223.1	1.8
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°	67899.0	100.0
0°-180°	67899.0	100.0

Coefficient of Utilization



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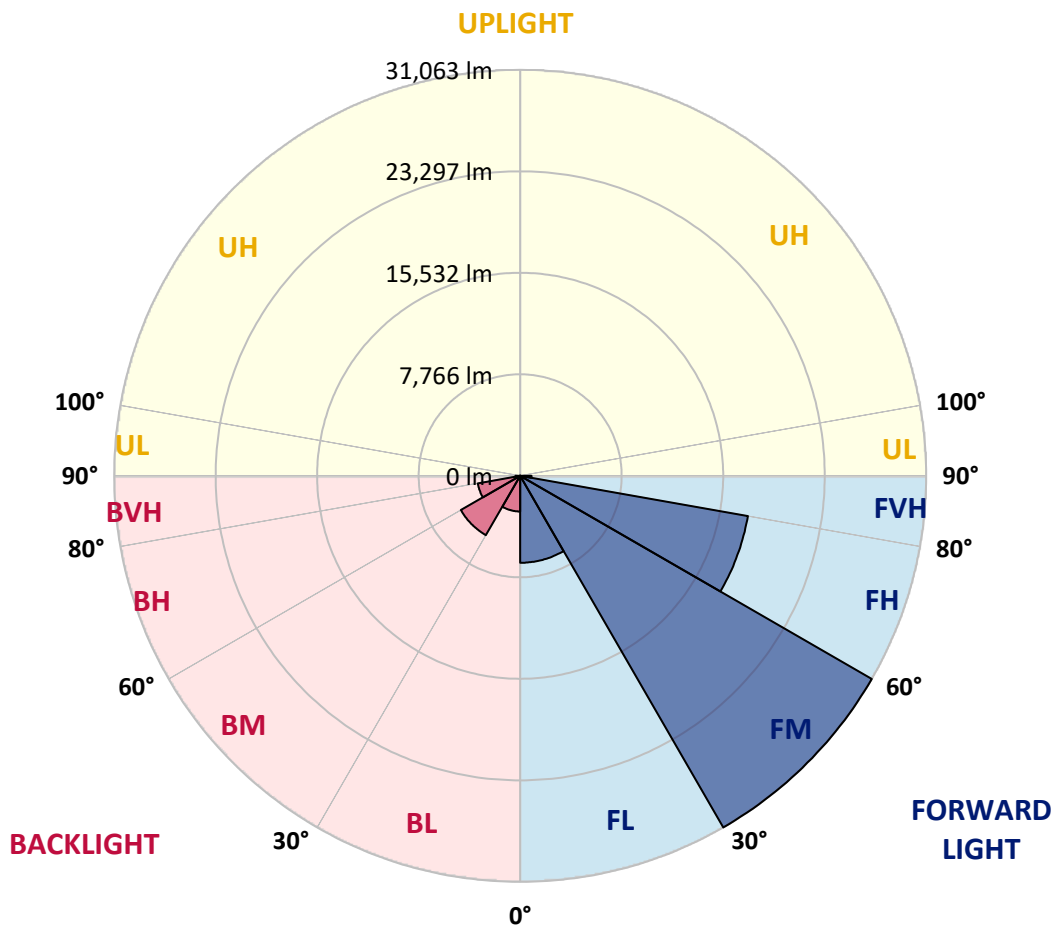
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6653.3	9.8			
FM	(30°-60°)	31063.3	45.7			
FH	(60°-80°)	17694.8	26.1			G5
FVH	(80°-90°)	864.2	1.3			G5
BL	(0°-30°)	2729.7	4.0	B4/5000		
BM	(30°-60°)	5240.5	7.7	B4/8500		
BH	(60°-80°)	3294.4	4.9	B4/5000		G4/5000
BVH	(80°-90°)	358.8	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8
2.5°	10554.1	10346.9	10317.5	10291.4	10100.5	9810.1	9622.4	9238.9	8909.3	8855.5	8534.0
5°	12050.4	11931.3	11851.4	11773.0	11543.0	11303.1	10841.3	10244.1	9580.0	9487.0	8834.3
7.5°	12907.1	12804.3	12766.8	12717.8	12556.3	12331.1	11900.3	11210.1	10311.0	10213.1	9221.0
10°	13701.8	13561.4	13533.7	13515.7	13408.0	13199.2	12872.8	12163.0	11118.7	10958.8	9715.4
12.5°	14398.5	14287.6	14303.9	14287.6	14254.9	14132.5	13820.9	13117.6	11950.9	11769.8	10227.8
15°	14866.8	14736.3	14852.1	14985.9	15059.4	15067.5	14780.3	14086.9	12765.1	12602.0	10805.4
17.5°	15106.7	14971.3	15145.9	15403.7	15707.2	15858.9	15739.8	15105.1	13680.5	13474.9	11427.1
20°	15594.6	15431.4	15591.3	15836.1	16262.0	16581.8	16694.4	16159.2	14630.2	14396.9	12081.4
22.5°	16642.2	16464.3	16510.0	16601.4	16932.6	17278.5	17520.0	17224.7	15599.5	15349.8	12757.0
25°	18456.7	18295.1	18083.0	17872.5	17936.1	18096.1	18273.9	18282.1	16606.3	16324.0	13457.0
27.5°	20989.1	20605.7	20228.7	19654.4	19310.1	19150.2	19078.4	19321.5	17663.6	17373.2	14139.1
30°	23533.0	23175.7	22622.5	21888.2	21082.1	20592.6	20096.6	20323.4	18807.5	18481.1	14839.1
32.5°	25734.2	25386.7	24823.7	23996.4	23041.9	22364.7	21380.8	21385.6	20130.8	19722.9	15663.1
35°	27669.5	27196.3	26626.8	25765.3	24831.9	24006.2	22890.1	22524.6	21674.5	21215.9	16660.1
37.5°	29125.0	28627.3	28044.8	27196.3	26367.4	25752.2	24546.3	23777.8	23322.5	22895.0	17758.3
40°	30097.5	29598.2	29072.8	28312.4	27622.2	27259.9	26486.5	25197.4	25042.4	24556.1	18967.4
42.5°	30538.1	30056.7	29722.2	29084.2	28570.2	28526.2	28154.1	26793.3	26892.8	26390.2	20295.6
45°	30357.0	29934.4	29772.8	29433.4	29164.2	29462.8	29834.8	28482.1	28849.2	28372.8	21712.0
47.5°	29490.5	29154.4	29267.0	29275.1	29346.9	30118.7	31164.7	30246.0	30825.3	30357.0	23436.8
50°	27682.6	27503.1	28064.4	28609.4	29089.1	30461.4	32390.1	32182.9	33383.9	32860.1	25598.8
52.5°	23730.5	23981.8	25605.3	26974.4	28333.6	30419.0	33369.2	34317.2	36177.4	35660.2	27738.0
55°	18832.0	19109.4	21163.7	24210.2	26821.0	29922.9	33912.6	35838.0	38308.5	37936.4	29639.0
57.5°	15113.2	15296.0	16751.5	20186.3	24084.6	28749.7	34201.4	36991.7	40511.3	40106.7	31819.0
60°	12026.0	12223.4	13306.9	15916.0	20310.3	26561.5	34137.7	37982.1	43208.6	42854.5	34243.8
62.5°	9074.1	9008.9	9948.7	12136.9	16214.6	23193.6	33184.8	38660.9	46243.7	45979.3	36619.6
65°	5773.1	5999.9	6776.6	8476.9	12192.4	18942.9	30864.5	38610.3	49153.1	49024.1	38587.5
67.5°	3736.7	3730.2	4247.4	5578.9	8310.5	14364.3	26861.8	37517.1	50930.0	50882.7	39747.7
68°	3425.0	3423.4	3870.5	5063.3	7607.2	13452.1	25859.9	37110.8	51101.4	51047.5	39750.9
70°	2692.4	2689.1	2886.6	3413.6	5216.7	9939.0	21044.6	34715.4	50631.4	50620.0	38868.2
72.5°	2328.5	2322.0	2380.7	2504.7	3209.6	6334.4	14697.1	29980.0	47374.4	47206.4	35867.4
75°	2091.9	2083.7	2119.6	2113.1	2328.5	3875.4	9085.6	24203.7	40385.7	39865.2	28128.0
77.5°	1848.8	1839.0	1873.2	1870.0	1971.1	2602.6	4991.5	17334.0	29394.3	27687.4	17435.2
80°	1574.6	1566.5	1607.3	1617.1	1729.6	1958.1	2579.8	10725.5	15300.9	13959.6	7313.5
82.5°	1248.3	1261.3	1333.1	1359.2	1475.1	1421.2	1602.4	4989.9	5508.8	4839.8	2242.0
85°	788.1	827.3	1008.4	1049.2	1140.6	908.9	1106.3	2023.4	1777.0	1604.0	592.3
87.5°	293.7	326.3	577.6	582.5	580.9	367.1	564.6	714.7	571.1	517.3	184.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8	8295.8
2.5°	8382.3	8175.0	7866.6	7582.7	7349.4	7165.0	6980.6	6907.2	6833.7	6822.3	6745.6
5°	8491.6	8122.8	7545.2	7106.2	6802.7	6592.2	6458.4	6399.7	6360.5	6345.9	6279.0
7.5°	8690.7	8152.2	7357.5	6846.8	6574.3	6448.7	6404.6	6399.7	6398.1	6401.3	6326.3
10°	8981.1	8274.6	7285.7	6763.6	6566.1	6507.4	6507.4	6523.7	6523.7	6535.1	6461.7
12.5°	9310.7	8426.3	7266.2	6776.6	6634.7	6590.6	6584.1	6595.5	6579.2	6582.5	6509.0
15°	9676.2	8607.5	7284.1	6817.4	6677.1	6610.2	6561.2	6538.4	6494.3	6474.8	6407.9
17.5°	10087.4	8819.6	7313.5	6828.9	6644.5	6527.0	6414.4	6336.1	6269.2	6261.0	6181.0
20°	10532.9	9048.0	7324.9	6771.7	6520.5	6334.4	6166.4	6050.5	5952.6	5910.2	5853.1
22.5°	11017.5	9278.1	7269.4	6605.3	6292.0	6048.9	5840.0	5688.3	5549.6	5500.6	5427.2
25°	11512.0	9488.6	7143.8	6378.5	5985.2	5704.6	5438.6	5241.2	5082.9	5017.6	4950.7
27.5°	11991.7	9653.4	6941.4	6079.9	5649.1	5322.8	5009.5	4769.6	4604.8	4550.9	4493.8
30°	12469.8	9788.8	6652.6	5756.8	5306.4	4932.8	4595.0	4363.3	4221.3	4134.8	4079.4
32.5°	13047.4	9925.9	6363.8	5423.9	4954.0	4549.3	4257.2	4077.7	3901.5	3798.7	3748.1
35°	13721.3	10079.3	6027.7	5084.5	4590.1	4223.0	4045.1	3811.8	3601.3	3522.9	3482.1
37.5°	14509.5	10227.8	5678.5	4743.5	4239.3	4015.7	3872.1	3586.6	3426.7	3381.0	3351.6
40°	15390.6	10363.2	5268.9	4407.3	3921.1	3864.0	3682.8	3454.4	3332.0	3271.6	3239.0
42.5°	16356.6	10474.2	4934.4	4054.9	3671.4	3681.2	3519.7	3387.5	3216.2	3144.4	3116.6
45°	17451.5	10642.2	4619.5	3707.3	3460.9	3460.9	3400.6	3261.9	3111.7	3067.7	3049.7
47.5°	18877.7	10875.6	4288.2	3415.2	3315.7	3261.9	3271.6	3100.3	3031.8	2989.4	2974.7
50°	20519.2	11063.2	3952.1	3212.9	3216.2	3141.1	3080.7	3000.8	2953.5	2907.8	2878.4
52.5°	22028.6	11066.5	3679.6	3100.3	3124.8	3056.3	2930.6	2907.8	2875.1	2801.7	2778.9
55°	23440.0	11009.4	3447.9	3041.6	3041.6	2966.5	2847.4	2827.8	2785.4	2713.6	2698.9
57.5°	25050.5	10945.7	3278.2	3022.0	2992.6	2852.3	2785.4	2760.9	2692.4	2650.0	2635.3
60°	26790.0	10851.1	3152.5	3025.3	2964.9	2760.9	2731.5	2694.0	2623.8	2592.8	2579.8
62.5°	28531.1	10577.0	3049.7	3036.7	2948.6	2713.6	2677.7	2628.7	2553.7	2529.2	2516.2
65°	29470.9	9855.7	2922.5	3023.6	2929.0	2685.9	2617.3	2550.4	2449.2	2439.5	2419.9
67.5°	29180.5	8659.7	2723.4	2927.4	2901.2	2648.3	2539.0	2431.3	2307.3	2348.1	2328.5
68°	28917.8	8367.6	2672.8	2894.7	2891.5	2640.2	2521.0	2401.9	2277.9	2331.8	2299.1
70°	27157.1	7124.2	2424.8	2708.7	2813.1	2605.9	2429.7	2282.8	2142.5	2243.6	2193.1
72.5°	23312.7	5490.8	2036.4	2374.2	2614.1	2547.2	2308.9	2096.8	1940.1	1946.7	1884.7
75°	17329.1	3797.1	1636.6	1917.3	2302.4	2465.6	2167.0	1894.5	1698.6	1633.4	1607.3
77.5°	9477.2	2477.0	1277.7	1455.5	1860.2	2251.8	1994.0	1672.5	1449.0	1387.0	1352.7
80°	3934.1	1470.2	990.5	1073.7	1290.7	1922.2	1866.7	1444.1	1194.4	1142.2	1094.9
82.5°	1302.1	900.7	734.3	727.8	843.6	1497.9	1646.4	1137.3	917.0	954.6	789.8
85°	455.3	473.2	463.4	437.3	471.6	877.9	1218.9	757.1	597.2	487.9	458.5
87.5°	127.3	171.3	173.0	137.1	140.3	202.3	549.9	345.9	210.5	140.3	124.0
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)