

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: P317918

Luminaire Tested: **GAN-SA4B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18729 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

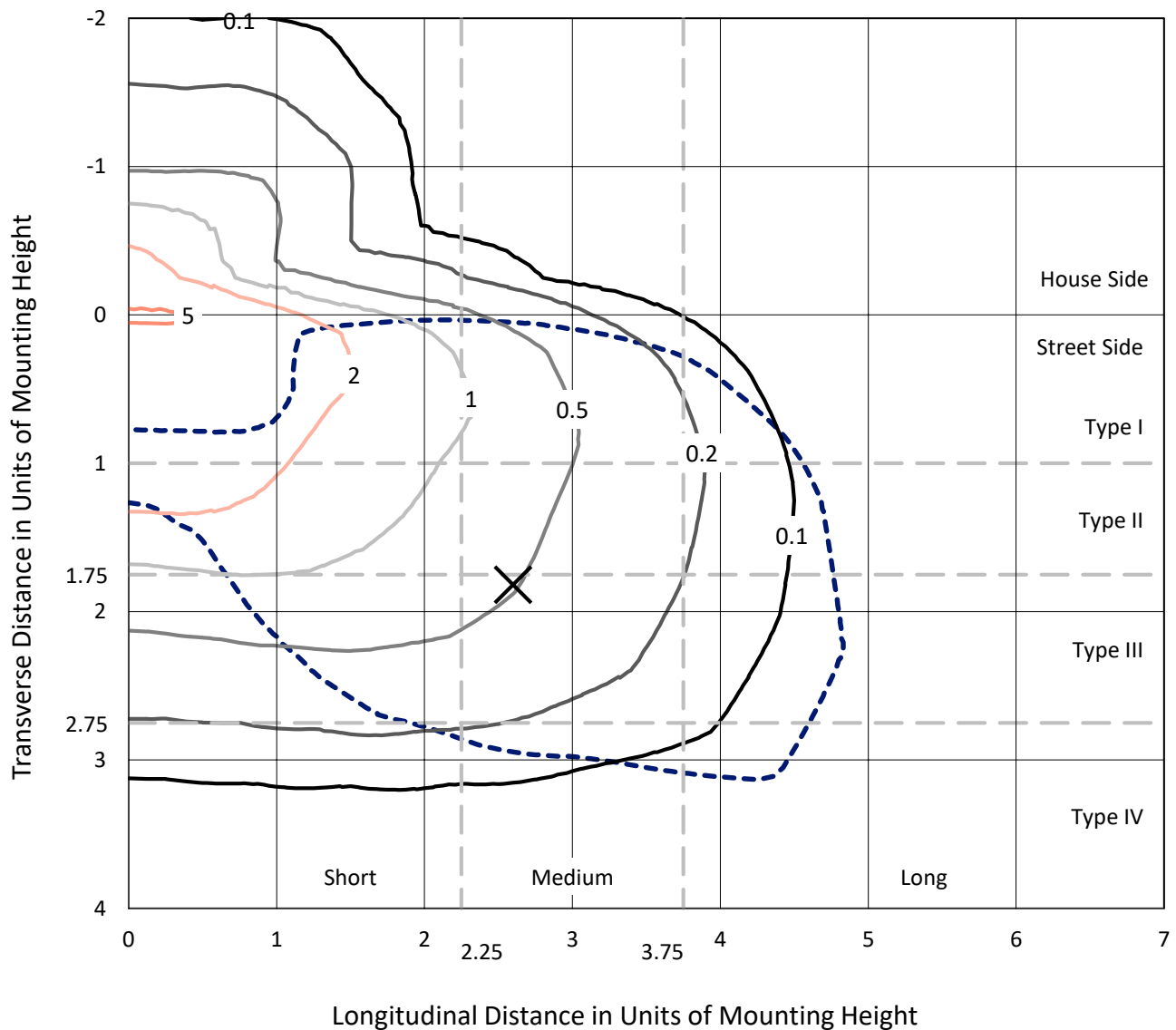
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

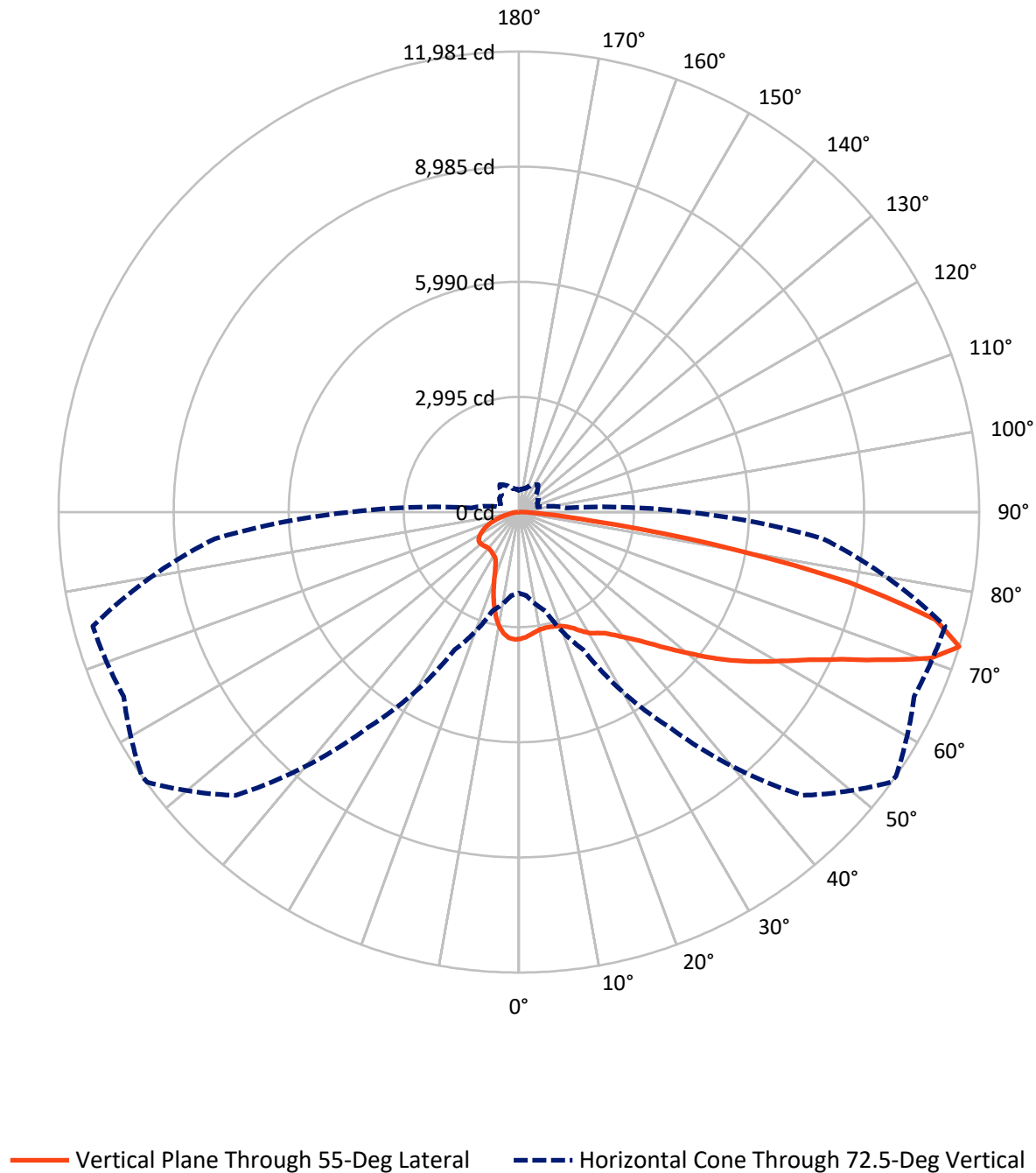
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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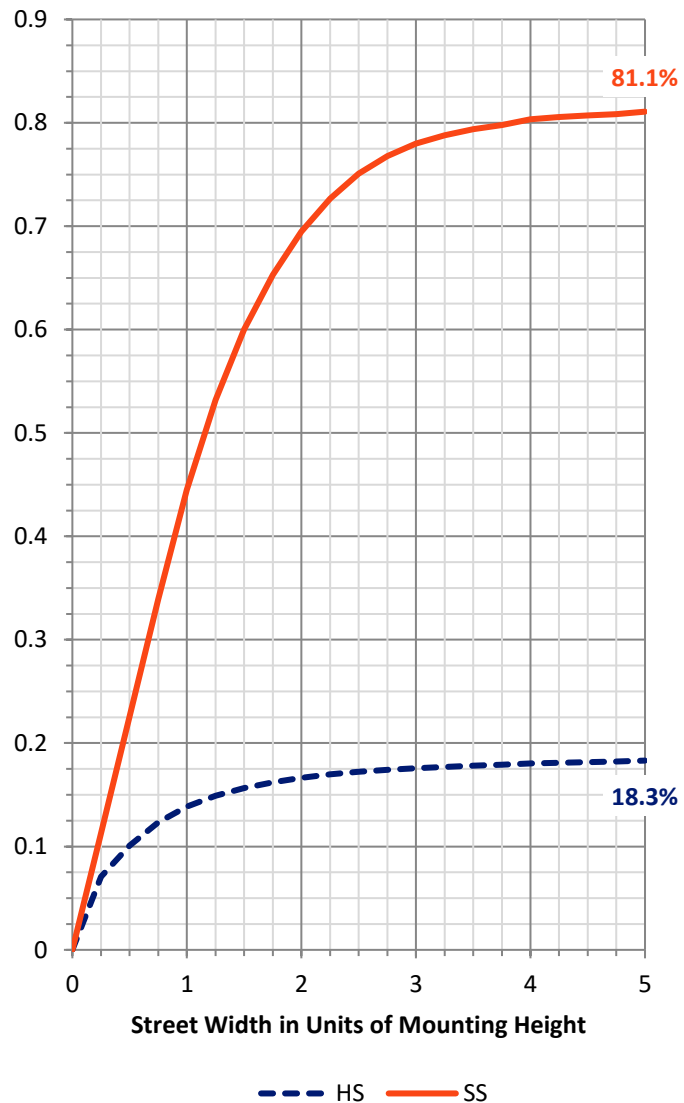
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3481.1	0.0	3481.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15247.9	0.0	15247.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	18729.0	0.0	18729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.6
10°-20°	795.8	4.2
20°-30°	1312.1	7.0
30°-40°	1941.0	10.4
40°-50°	2709.2	14.5
50°-60°	3527.4	18.8
60°-70°	4335.1	23.1
70°-80°	3398.2	18.1
80°-90°	411.2	2.2
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°	18729.0	100.0
0°-180°	18729.0	100.0

Coefficient of Utilization



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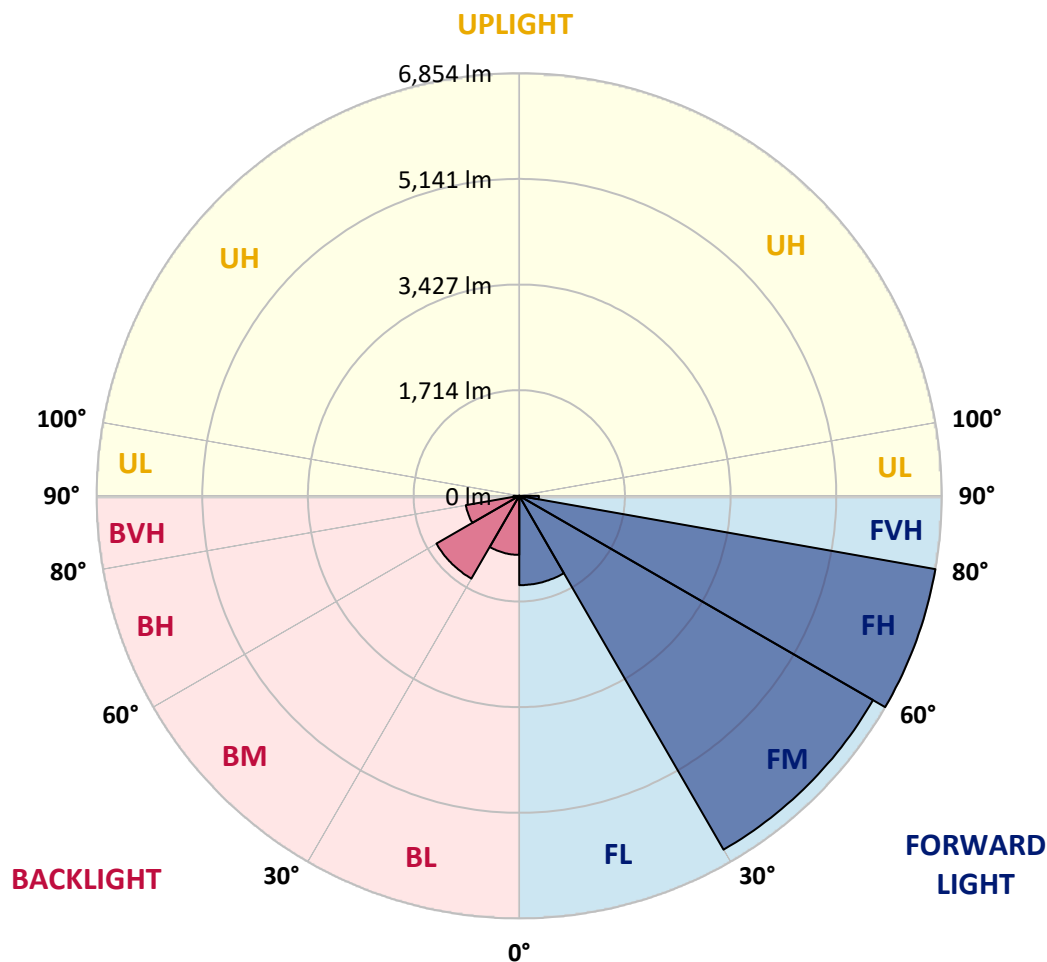
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.1	7.7			
FM	(30°-60°)	6626.7	35.4			
FH	(60°-80°)	6854.2	36.6			G3/7500
FVH	(80°-90°)	317.9	1.7			G3/500
BL	(0°-30°)	957.8	5.1	B2/1000		
BM	(30°-60°)	1550.9	8.3	B2/2500		
BH	(60°-80°)	879.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	93.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
2.5°	3195.9	3188.3	3197.7	3211.0	3225.6	3245.2	3256.6	3261.6	3281.3	3288.8	3305.3
5°	3047.8	3044.0	3059.8	3082.6	3114.9	3160.4	3197.1	3204.1	3255.9	3292.6	3326.2
7.5°	2940.3	2940.3	2958.6	2985.8	3021.9	3083.3	3135.1	3144.6	3232.5	3311.6	3373.6
10°	2854.9	2858.0	2879.6	2911.8	2954.2	3019.4	3088.3	3099.1	3226.2	3355.9	3454.6
12.5°	2798.0	2805.5	2825.2	2854.3	2906.8	2985.8	3073.1	3087.7	3239.5	3419.2	3552.0
15°	2834.0	2846.7	2848.6	2860.6	2889.7	2975.7	3082.0	3097.2	3268.0	3483.7	3662.7
17.5°	2992.2	2996.6	2977.0	2951.7	2937.8	2992.8	3108.6	3124.4	3302.1	3547.6	3769.0
20°	3232.5	3230.0	3187.6	3119.3	3048.5	3057.3	3152.2	3168.7	3348.3	3603.9	3875.3
22.5°	3536.2	3527.3	3462.2	3336.3	3215.5	3164.9	3228.7	3242.7	3417.9	3684.2	3989.1
25°	3904.4	3884.7	3798.7	3629.8	3452.1	3321.7	3343.9	3357.2	3519.1	3774.0	4093.5
27.5°	4292.8	4273.2	4163.7	3959.4	3722.8	3519.7	3502.7	3514.0	3634.2	3840.5	4170.7
30°	4698.9	4678.0	4578.1	4349.1	4010.0	3724.7	3650.7	3655.1	3715.2	3876.5	4233.9
32.5°	5106.9	5087.3	4975.3	4709.6	4321.9	3944.8	3757.6	3751.9	3763.9	3913.8	4305.4
35°	5520.6	5528.2	5397.3	5103.1	4667.3	4189.7	3884.1	3872.1	3845.5	3990.4	4406.6
37.5°	5963.4	5958.4	5788.8	5481.4	5028.5	4455.3	4065.7	4063.8	3972.0	4135.3	4565.4
40°	6259.5	6262.7	6159.5	5868.6	5393.5	4749.5	4298.5	4294.0	4173.8	4352.2	4773.5
42.5°	6375.3	6396.1	6422.7	6238.0	5775.6	5090.5	4576.2	4569.8	4455.3	4663.5	5018.3
45°	6383.5	6425.2	6589.7	6566.3	6162.7	5480.8	4931.1	4913.3	4831.1	5077.2	5310.6
47.5°	6312.6	6355.6	6628.9	6761.8	6508.7	5892.6	5346.0	5332.1	5261.3	5594.6	5626.9
50°	6157.6	6198.8	6548.0	6857.3	6793.4	6288.6	5824.3	5787.6	5749.6	6192.4	5988.7
52.5°	5867.3	5946.4	6439.8	6880.1	6963.6	6640.3	6327.2	6303.1	6324.0	6823.1	6351.2
55°	5179.7	5268.2	6160.8	6861.1	7089.5	6935.7	6830.1	6828.8	6937.0	7484.8	6740.3
57.5°	4794.4	4857.0	5592.7	6828.8	7238.7	7229.3	7327.9	7340.0	7550.6	8205.3	7147.7
60°	4576.8	4642.6	5304.9	6709.3	7470.3	7608.8	7835.9	7859.9	8174.3	9003.0	7637.9
62.5°	4378.8	4450.9	5126.5	6465.7	7742.9	8151.6	8444.5	8466.0	8834.8	9822.9	8111.7
65°	4040.4	4122.0	4865.3	6305.7	7990.9	8859.4	9218.1	9232.7	9593.2	10681.9	8474.2
67.5°	3562.1	3636.8	4372.5	5952.1	8174.3	9719.1	10246.7	10254.9	10345.4	11288.6	8659.5
70°	3003.5	3032.0	3670.3	5222.0	7957.4	10523.2	11374.0	11375.9	11031.1	11677.0	8629.2
72.5°	2110.3	2177.4	2664.5	3953.1	6838.3	10425.1	11959.1	11980.6	11350.0	11480.9	7939.7
75°	1294.3	1365.1	1671.3	2395.6	4338.3	8199.0	11049.5	11198.8	10752.2	10236.6	6486.0
77.5°	865.4	892.0	1090.6	1396.8	1965.5	4717.2	8495.1	8775.9	8932.2	7465.2	4147.9
80°	482.7	533.3	723.1	867.9	874.2	1874.4	5093.6	5159.4	4969.6	2972.5	1279.7
82.5°	255.6	283.4	482.7	509.9	477.0	627.5	1898.4	1900.3	1587.8	797.1	380.2
85°	198.0	221.4	330.8	311.2	243.5	278.3	626.3	660.4	540.2	326.4	124.0
87.5°	98.7	122.7	224.6	197.4	95.5	79.7	223.9	239.1	213.2	127.8	44.9
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°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
2.5°	3311.6	3317.3	3324.3	3316.7	3314.1	3304.0	3286.9	3283.1	3274.3	3274.9	3280.0
5°	3340.7	3350.2	3346.4	3317.3	3282.5	3233.8	3183.2	3140.2	3111.7	3109.8	3107.9
7.5°	3396.4	3402.7	3373.0	3290.1	3192.7	3080.1	2973.8	2880.8	2824.5	2810.6	2807.4
10°	3483.7	3482.4	3400.8	3233.8	3039.6	2838.4	2667.6	2538.6	2463.3	2441.2	2435.5
12.5°	3581.1	3566.6	3410.3	3131.3	2823.3	2544.3	2327.9	2184.3	2105.9	2080.6	2074.3
15°	3681.7	3645.6	3386.9	2978.2	2557.6	2227.4	2000.3	1867.4	1825.0	1811.1	1808.6
17.5°	3775.3	3705.7	3319.8	2770.8	2254.6	1911.7	1734.6	1681.4	1691.5	1709.9	1710.5
20°	3867.0	3746.2	3212.3	2508.9	1935.1	1651.7	1591.6	1630.8	1678.9	1716.2	1721.3
22.5°	3957.5	3774.7	3073.8	2206.5	1649.2	1505.6	1548.0	1619.4	1674.5	1715.0	1721.9
25°	4033.4	3781.6	2882.7	1883.9	1450.5	1450.5	1527.1	1594.8	1649.2	1689.0	1696.0
27.5°	4061.2	3734.8	2613.2	1585.3	1350.6	1425.2	1498.0	1554.3	1600.5	1642.8	1650.4
30°	4072.0	3648.2	2302.0	1345.5	1309.5	1398.0	1458.8	1506.8	1550.5	1590.3	1597.3
32.5°	4073.9	3543.8	1971.8	1209.5	1281.0	1369.6	1410.0	1452.4	1499.2	1515.1	1517.6
35°	4085.9	3420.4	1623.9	1139.9	1254.4	1343.0	1375.3	1405.6	1329.7	1335.4	1340.5
37.5°	4120.7	3298.3	1332.9	1100.7	1237.3	1329.1	1367.7	1257.6	1198.1	1184.2	1182.3
40°	4185.9	3168.0	1117.2	1069.1	1231.0	1336.0	1319.0	1174.1	1071.6	995.1	983.7
42.5°	4276.3	3027.6	979.3	1048.2	1235.5	1369.6	1251.3	1093.8	923.6	874.2	867.9
45°	4378.2	2880.2	904.6	1033.7	1250.6	1395.5	1237.3	986.8	854.6	817.3	814.1
47.5°	4476.8	2699.9	866.0	1027.3	1271.5	1374.6	1178.5	953.9	821.7	802.1	804.0
50°	4590.1	2537.3	842.6	1020.4	1289.9	1361.3	1112.1	936.9	809.1	833.1	858.4
52.5°	4685.6	2369.1	821.7	1006.5	1296.8	1337.9	1095.0	940.0	809.1	855.3	879.3
55°	4798.8	2241.9	797.7	977.4	1283.5	1271.5	1083.0	959.0	818.6	789.5	792.0
57.5°	4945.0	2200.2	771.1	931.8	1239.2	1174.7	1077.3	977.4	812.9	794.5	800.9
60°	5147.4	2244.4	760.4	872.3	1170.3	1098.8	1077.9	967.9	773.0	741.4	742.0
62.5°	5340.3	2293.8	759.7	835.0	1085.5	1031.1	1063.4	936.9	752.8	734.4	741.4
65°	5403.6	2243.8	729.4	793.3	990.0	950.2	1036.8	904.0	737.6	709.8	708.5
67.5°	5318.8	2088.8	668.0	725.6	880.6	855.9	1002.0	864.8	713.6	690.8	687.0
70°	5067.1	1742.8	592.1	636.4	755.9	749.6	947.0	819.2	681.3	661.7	645.2
72.5°	4389.6	1241.8	499.1	529.5	615.5	635.8	871.1	759.7	635.8	593.4	568.1
75°	3605.1	919.2	409.9	416.2	467.5	522.5	766.7	690.2	582.0	509.9	490.3
77.5°	2207.7	562.4	326.4	328.9	335.3	416.9	631.3	612.3	513.7	425.1	411.2
80°	714.8	306.8	236.0	248.0	229.0	305.5	488.4	521.3	440.9	355.5	340.3
82.5°	272.0	179.0	159.4	167.6	158.8	205.0	356.1	417.5	361.2	292.3	237.9
85°	131.6	101.2	94.3	105.6	98.1	105.0	227.7	307.4	273.9	190.4	177.1
87.5°	46.8	44.9	36.1	48.7	41.8	37.3	69.6	155.0	180.9	130.9	117.0
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)