

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: P318242

Luminaire Tested: **GAN-SA8B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35714 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

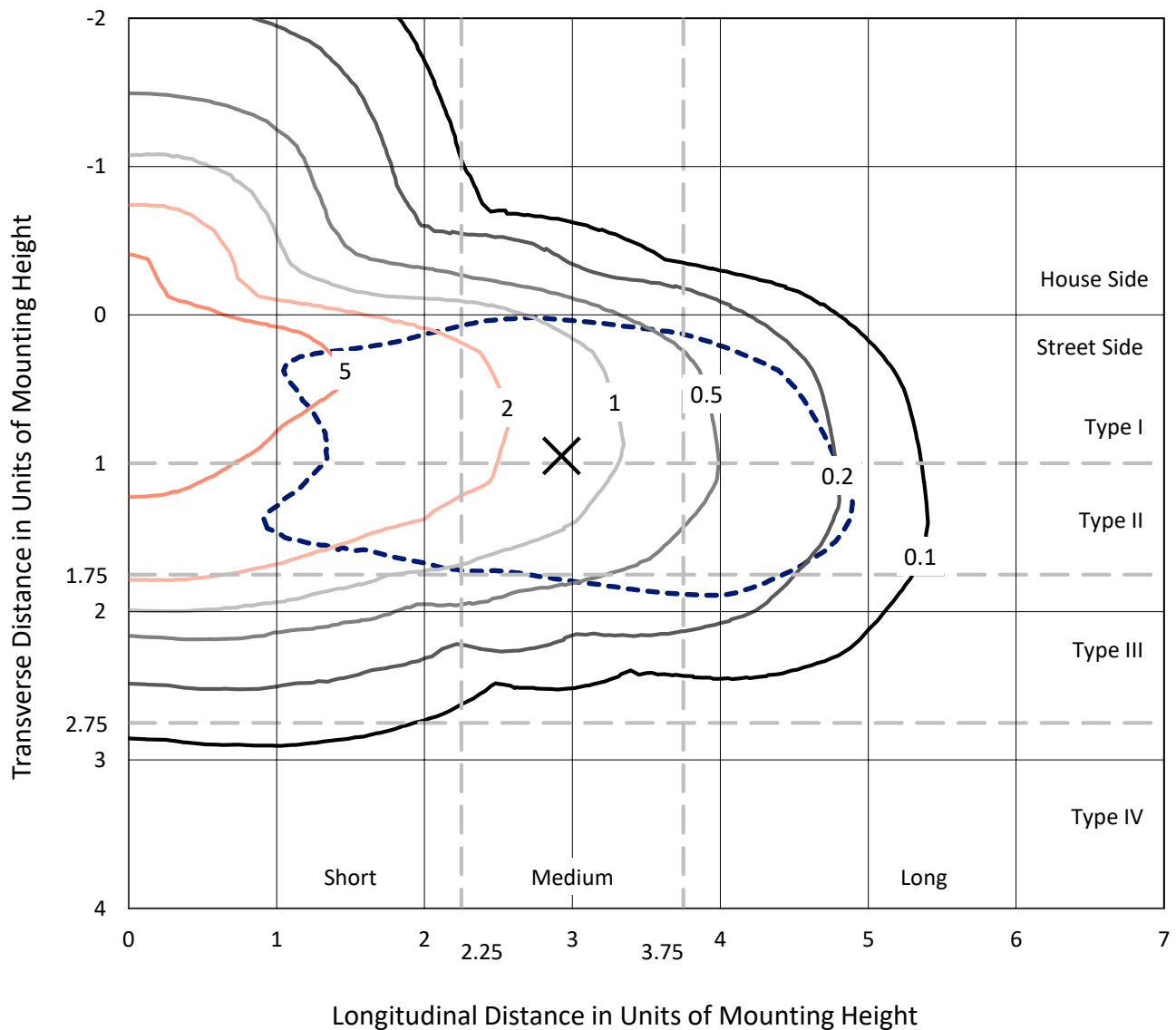


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Iso-Footcandle Lines of Horizontal Illumination

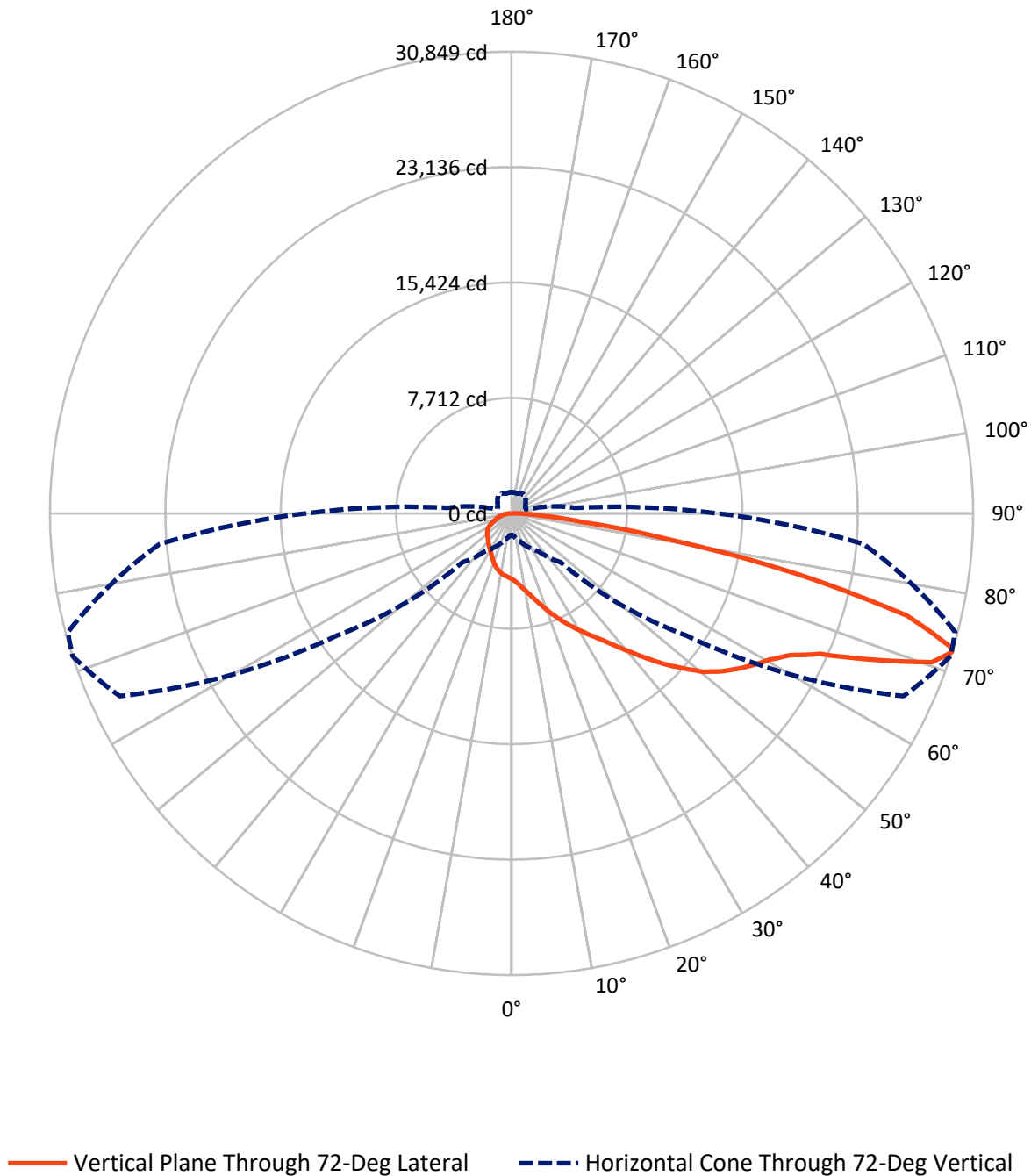
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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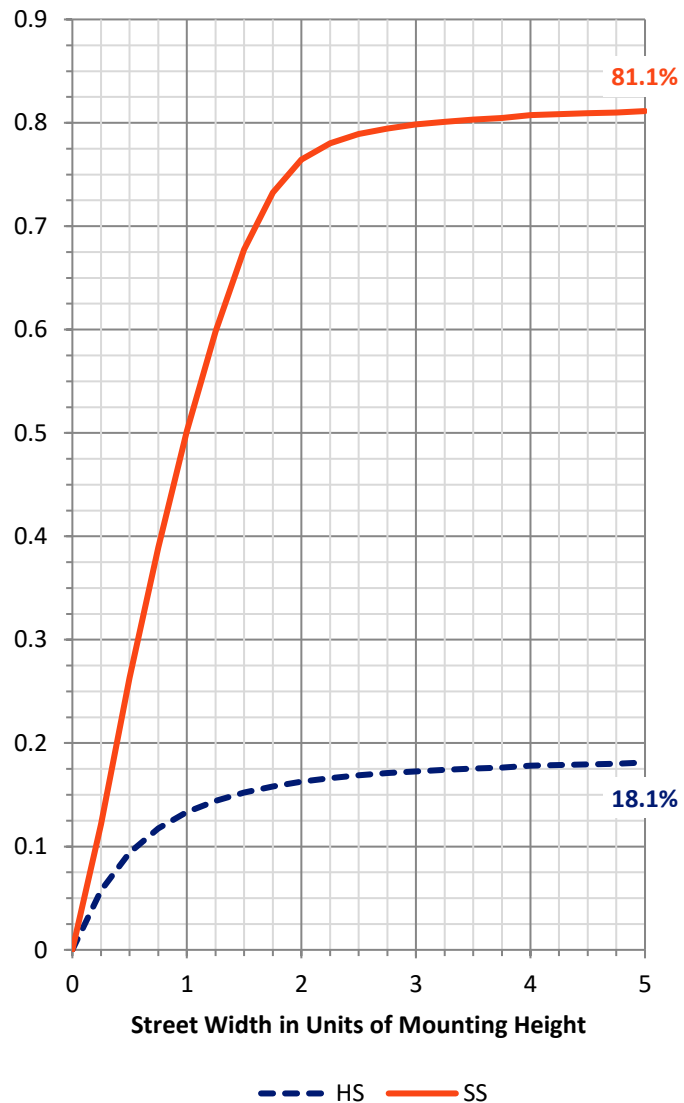
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6625.2	0.0	6625.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29088.8	0.0	29088.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	35714.0	0.0	35714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	1.2
10°-20°	1422.7	4.0
20°-30°	2493.1	7.0
30°-40°	3696.4	10.4
40°-50°	5406.3	15.1
50°-60°	7439.1	20.8
60°-70°	8281.9	23.2
70°-80°	5611.8	15.7
80°-90°	922.4	2.6
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°	35714.0	100.0
0°-180°	35714.0	100.0

Coefficient of Utilization



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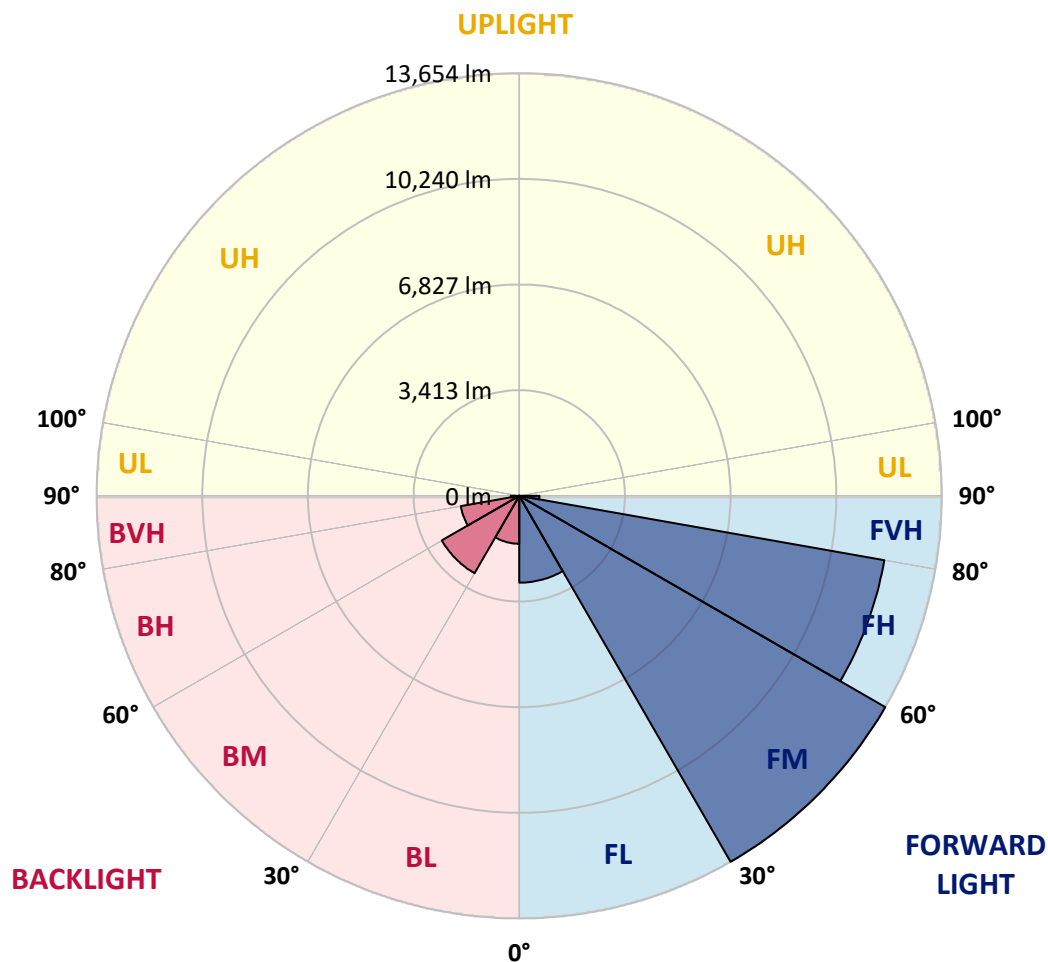
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2807.3	7.9			
FM	(30°-60°)	13653.9	38.2			
FH	(60°-80°)	11977.0	33.5			G4/12000
FVH	(80°-90°)	650.6	1.8			G4/750
BL	(0°-30°)	1548.7	4.3	B3/2500		
BM	(30°-60°)	2888.0	8.1	B3/5000		
BH	(60°-80°)	1916.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	271.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8
2.5°	4853.7	4846.3	4820.5	4820.5	4771.3	4729.5	4650.8	4597.9	4535.2	4513.0	4439.3
5°	5323.4	5325.9	5293.9	5271.8	5199.2	5110.7	4976.6	4854.9	4733.2	4684.0	4532.7
7.5°	5718.2	5713.2	5704.6	5686.2	5618.5	5527.5	5346.8	5166.0	4986.5	4912.7	4652.0
10°	5971.5	5982.5	5989.9	5998.5	5970.2	5905.1	5734.1	5514.0	5279.1	5178.3	4794.6
12.5°	6099.4	6119.0	6153.5	6212.5	6259.2	6251.8	6127.6	5894.0	5614.9	5488.2	4972.9
15°	6174.4	6200.2	6254.3	6360.1	6491.6	6566.7	6533.4	6321.9	6010.8	5854.6	5190.6
17.5°	6221.1	6242.0	6325.6	6467.0	6662.6	6861.8	6949.1	6772.0	6458.4	6280.1	5440.2
20°	6253.1	6269.1	6373.6	6539.6	6792.9	7110.2	7353.7	7309.4	6951.6	6720.4	5700.9
22.5°	6324.4	6337.9	6437.5	6604.8	6885.1	7294.6	7743.5	7809.9	7471.7	7209.8	5980.1
25°	6523.6	6523.6	6607.2	6724.1	6987.2	7454.5	8073.0	8366.9	8003.0	7698.0	6238.3
27.5°	6903.6	6899.9	6930.6	6971.2	7170.4	7616.8	8366.9	8858.8	8553.9	8220.6	6489.2
30°	7353.7	7378.3	7381.9	7362.3	7455.7	7819.7	8638.7	9377.8	9108.5	8749.4	6746.2
32.5°	7932.9	7948.8	7930.4	7865.2	7851.7	8107.5	8905.6	9921.3	9708.6	9301.5	6981.1
35°	8668.2	8637.5	8579.7	8446.9	8320.2	8492.4	9210.5	10464.8	10382.4	9969.3	7304.5
37.5°	9456.5	9457.7	9386.4	9085.1	8910.5	8984.3	9631.1	11080.9	11197.7	10763.7	7718.9
40°	10088.5	10121.7	10166.0	9770.0	9543.8	9645.8	10166.0	11795.4	12161.8	11705.6	8258.7
42.5°	10530.0	10568.1	10693.6	10445.2	10210.3	10399.7	10795.6	12557.8	13244.0	12792.7	8890.8
45°	10997.3	11018.2	11106.7	10999.8	10849.7	11276.4	11505.2	13347.3	14388.8	13951.1	9597.9
47.5°	11489.2	11511.3	11602.3	11531.0	11452.3	12095.4	12245.5	14091.2	15485.7	15223.8	10352.9
50°	12096.7	12111.4	12197.5	12068.4	12093.0	12712.7	12907.0	14773.7	16635.5	16367.4	11110.4
52.5°	12925.5	12929.2	13048.5	12931.6	12816.0	13165.3	13476.4	15416.9	17536.9	17410.2	11867.9
55°	13574.8	13614.1	14005.2	13980.6	13914.2	13576.0	13952.3	16029.3	18341.1	18401.4	12672.2
57.5°	13160.4	13314.1	14106.0	14664.3	15207.8	14597.9	14595.4	16719.1	19088.8	19374.1	13556.3
60°	11526.1	11735.1	12902.1	14140.4	15841.1	16376.0	15930.9	17561.5	19843.8	20338.2	14664.3
62.5°	8231.7	8576.0	10157.4	12134.8	14972.9	17554.1	18648.6	18898.2	20870.6	21454.7	16104.3
65°	4161.3	4422.0	5747.7	8129.6	11962.6	16784.3	21602.3	21824.9	22654.9	23173.9	18321.4
67.5°	2528.3	2626.7	3273.5	4521.6	7334.0	13074.3	22566.4	26703.2	26108.0	26383.4	21483.0
70°	1863.0	1935.6	2338.9	3003.0	4217.9	7672.2	19607.7	30184.5	29793.4	29762.7	23819.5
72°	1451.1	1503.9	1860.6	2426.2	3084.1	4602.8	14211.8	28899.4	30848.5	30693.6	23605.5
72.5°	1376.0	1422.8	1747.4	2283.6	2914.4	4172.4	12777.9	28032.5	30772.3	30702.2	23328.8
75°	1083.4	1116.6	1293.7	1765.9	2281.1	2367.2	7002.0	21724.1	27298.3	28433.4	20982.5
77.5°	896.5	901.4	994.8	1285.0	1778.2	1673.6	3439.5	15072.6	19547.5	20795.6	14863.5
80°	730.4	736.6	780.9	901.4	1345.3	1238.3	1633.1	8667.0	10944.4	10957.9	7068.4
82.5°	581.7	582.9	632.1	659.1	966.6	885.4	935.8	4069.1	4782.3	4600.3	2540.6
85°	409.5	400.9	617.3	541.1	632.1	568.1	516.5	1610.9	1977.4	1891.3	795.6
87.5°	136.5	141.4	274.2	350.5	368.9	322.2	230.0	617.3	746.4	740.3	252.1
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°	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8	4393.8
2.5°	4415.9	4376.5	4318.7	4254.8	4204.4	4152.7	4114.6	4094.9	4072.8	4054.4	4076.5
5°	4462.6	4388.8	4265.9	4145.4	4056.8	3978.1	3921.5	3892.0	3865.0	3846.5	3849.0
7.5°	4538.9	4419.6	4213.0	4037.1	3914.2	3829.3	3771.5	3751.8	3734.6	3729.7	3735.9
10°	4620.0	4444.2	4142.9	3909.2	3769.1	3699.0	3673.1	3686.7	3699.0	3710.0	3722.3
12.5°	4712.2	4466.3	4040.8	3759.2	3639.9	3612.9	3638.7	3697.7	3740.8	3766.6	3782.6
15°	4832.8	4486.0	3922.8	3609.2	3529.3	3560.0	3647.3	3749.4	3824.4	3872.4	3879.7
17.5°	4943.4	4484.8	3771.5	3457.9	3439.5	3529.3	3660.8	3804.7	3905.6	3973.2	3986.7
20°	5057.8	4451.6	3595.7	3310.4	3348.5	3496.1	3667.0	3840.4	3962.1	4040.8	4059.3
22.5°	5164.8	4393.8	3402.6	3176.3	3272.3	3451.8	3643.6	3819.5	3941.2	4005.2	4024.8
25°	5237.3	4292.9	3207.1	3063.2	3204.6	3397.7	3567.4	3708.8	3799.8	3831.8	3836.7
27.5°	5274.2	4161.3	3022.6	2964.8	3134.5	3309.1	3426.0	3496.1	3521.9	3519.4	3514.5
30°	5279.1	3987.9	2864.0	2884.9	3053.4	3178.8	3234.1	3220.6	3187.4	3130.8	3135.8
32.5°	5263.2	3792.4	2731.2	2808.7	2950.1	3020.2	3022.6	2957.5	2868.9	2779.1	2754.6
35°	5268.1	3600.6	2614.4	2722.6	2824.6	2855.4	2827.1	2731.2	2610.7	2495.1	2470.5
37.5°	5322.2	3433.4	2513.5	2623.0	2685.7	2693.1	2652.5	2551.6	2463.1	2350.0	2340.1
40°	5451.3	3314.1	2417.6	2511.1	2546.7	2550.4	2492.6	2421.3	2428.7	2368.4	2367.2
42.5°	5683.7	3262.4	2332.8	2394.2	2416.4	2423.8	2379.5	2334.0	2397.9	2358.6	2345.1
45°	5983.8	3274.7	2261.4	2279.9	2320.5	2354.9	2327.8	2272.5	2297.1	2126.2	2069.6
47.5°	6330.5	3353.4	2204.9	2181.5	2251.6	2316.8	2275.0	2191.3	2104.0	1934.3	1902.4
50°	6736.4	3475.2	2153.2	2084.4	2176.6	2265.1	2223.3	2104.0	1972.5	1890.1	1879.0
52.5°	7159.4	3624.0	2101.6	1977.4	2081.9	2225.8	2204.9	2084.4	1922.0	1840.9	1826.1
55°	7639.0	3774.0	2036.4	1853.2	1979.8	2207.3	2196.3	2013.0	1883.9	1838.4	1827.3
57.5°	8235.4	3944.9	1950.3	1724.1	1883.9	2140.9	2106.5	1970.0	1844.6	1810.1	1806.4
60°	9012.5	4197.0	1826.1	1586.3	1767.1	2038.9	2031.5	1907.3	1781.8	1757.3	1752.3
62.5°	10178.3	4613.9	1655.2	1448.6	1636.7	1865.5	1933.1	1822.4	1715.4	1714.2	1716.7
65°	11986.0	5241.0	1469.5	1328.1	1505.2	1719.1	1818.7	1735.1	1647.8	1672.4	1676.1
67.5°	14081.4	5761.2	1287.5	1210.0	1371.1	1580.2	1715.4	1647.8	1558.0	1622.0	1623.2
70°	14778.7	5296.4	1127.6	1093.2	1232.2	1446.1	1603.5	1551.9	1460.9	1524.8	1518.7
72°	13753.1	4275.7	1024.3	1004.7	1127.6	1335.5	1503.9	1462.1	1372.4	1415.4	1399.4
72.5°	13429.7	4076.5	998.5	982.5	1099.4	1307.2	1478.1	1440.0	1350.2	1387.1	1372.4
75°	11979.8	3540.3	858.3	862.0	959.2	1169.5	1333.0	1320.7	1228.5	1232.2	1227.3
77.5°	8689.1	2595.9	723.1	747.7	816.5	1028.0	1186.7	1179.3	1078.5	1060.0	1056.3
80°	4032.2	1324.4	589.0	600.1	671.4	859.6	1012.1	1002.2	921.1	897.7	884.2
82.5°	1381.0	629.6	442.7	450.1	520.2	692.3	878.0	871.9	804.2	758.7	730.4
85°	493.1	313.6	309.9	302.5	371.4	544.8	764.9	731.7	632.1	538.6	536.2
87.5°	159.9	134.0	159.9	158.6	216.4	368.9	555.8	473.4	458.7	381.2	373.8
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)