

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: P318002

Luminaire Tested: **GAN-SA8B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318002
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-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37586 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

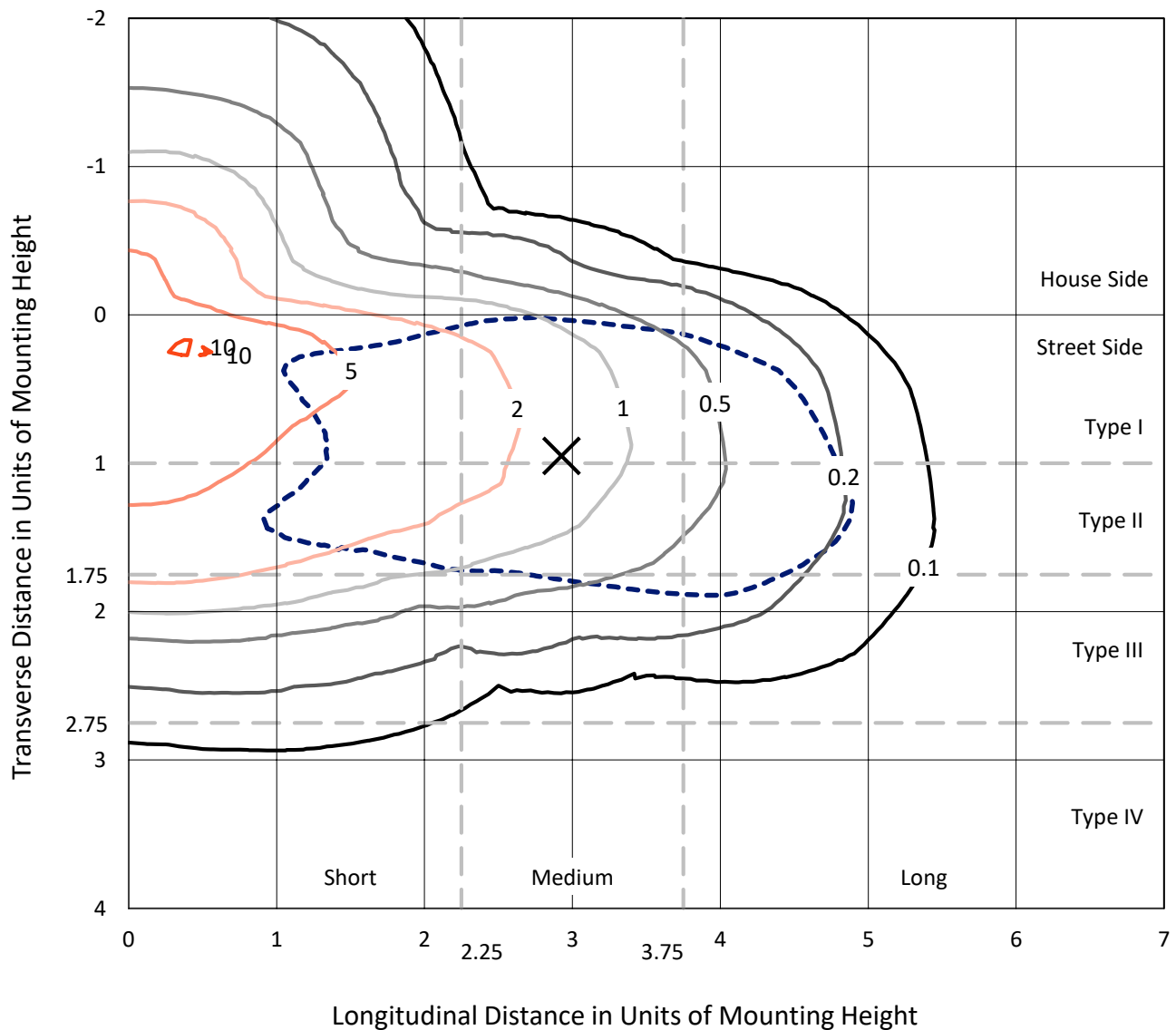


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Iso-Footcandle Lines of Horizontal Illumination

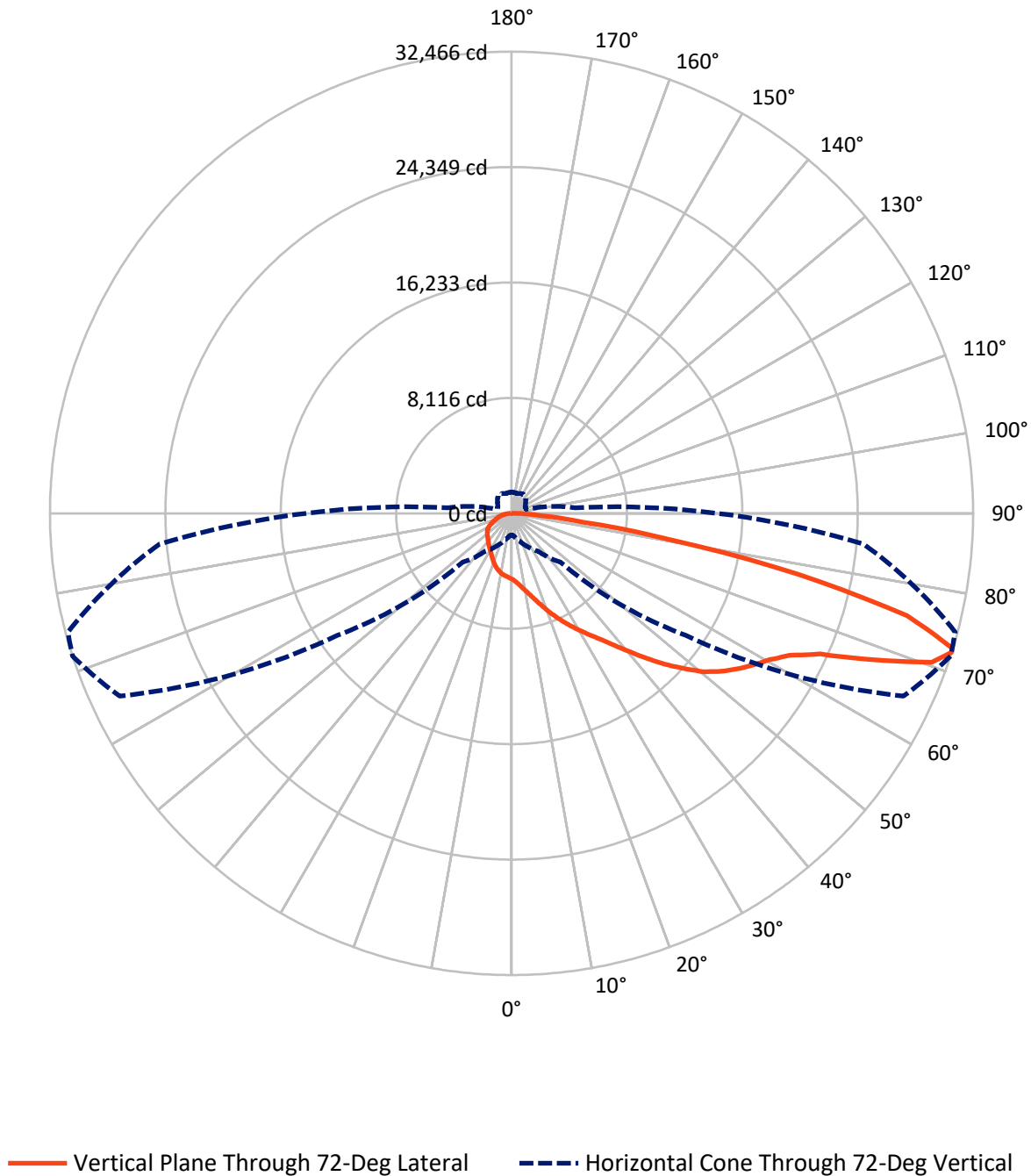
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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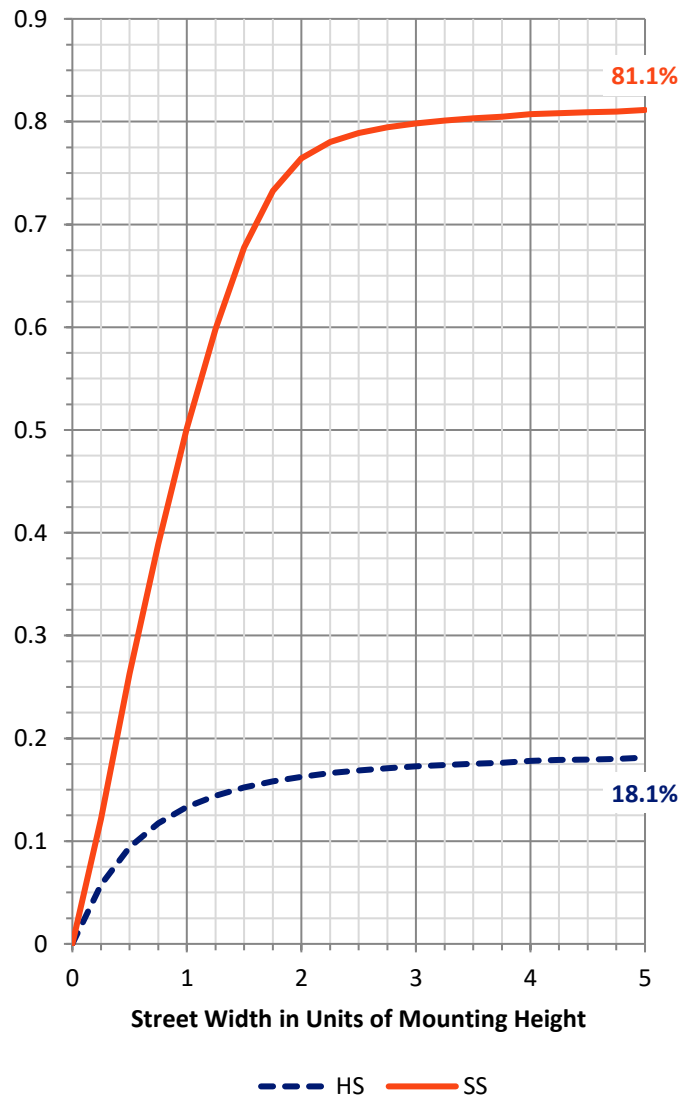
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6972.5	0.0	6972.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30613.6	0.0	30613.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	37586.0	0.0	37586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	1.2
10°-20°	1497.3	4.0
20°-30°	2623.7	7.0
30°-40°	3890.2	10.4
40°-50°	5689.7	15.1
50°-60°	7829.0	20.8
60°-70°	8716.0	23.2
70°-80°	5906.0	15.7
80°-90°	970.7	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°	37586.0	100.0
0°-180°	37586.0	100.0

Coefficient of Utilization



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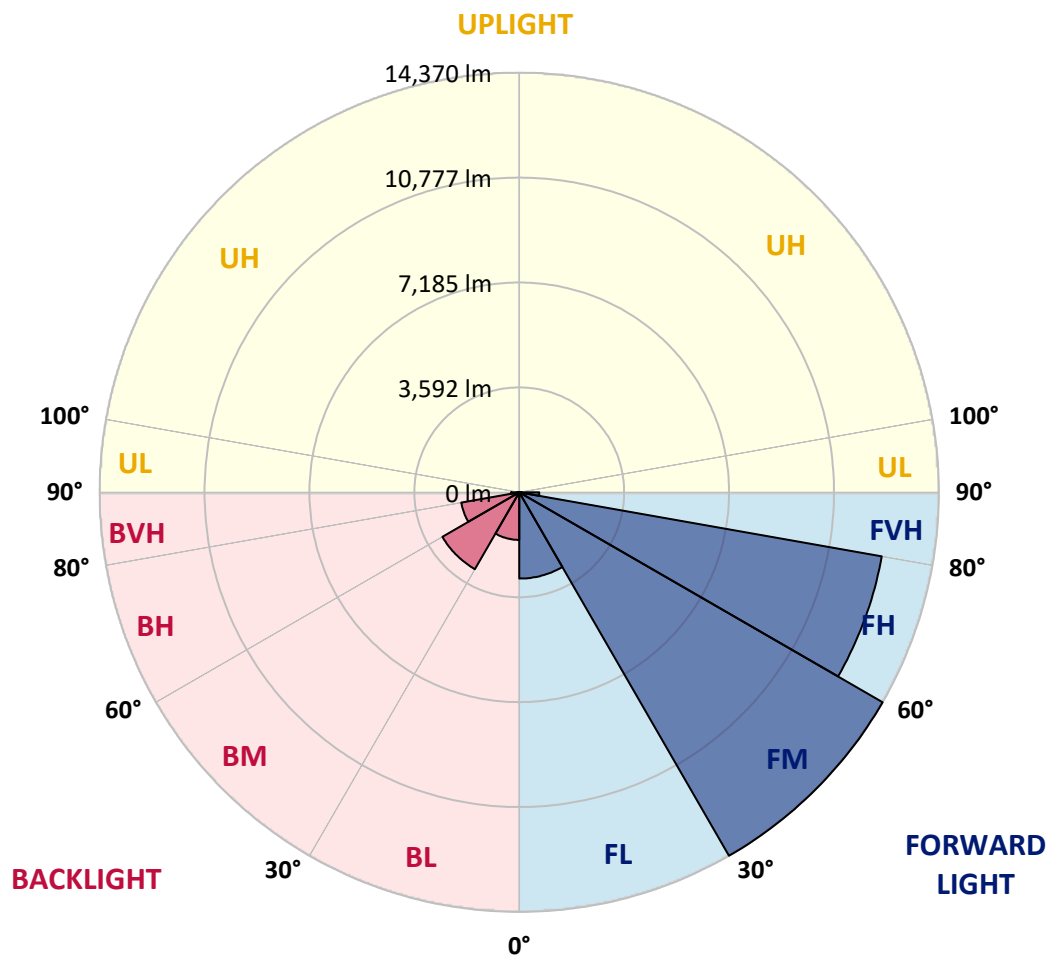
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.5	7.9			
FM	(30°-60°)	14369.6	38.2			
FH	(60°-80°)	12604.8	33.5			G5
FVH	(80°-90°)	684.7	1.8			G4/750
BL	(0°-30°)	1629.9	4.3	B3/2500		
BM	(30°-60°)	3039.3	8.1	B3/5000		
BH	(60°-80°)	2017.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	286.0	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1
2.5°	5108.1	5100.3	5073.1	5073.1	5021.4	4977.4	4894.5	4838.9	4772.9	4749.6	4671.9
5°	5602.4	5605.0	5571.4	5548.1	5471.7	5378.6	5237.5	5109.4	4981.2	4929.5	4770.3
7.5°	6017.9	6012.7	6003.6	5984.2	5913.0	5817.3	5627.0	5436.8	5247.8	5170.2	4895.8
10°	6284.5	6296.1	6303.9	6312.9	6283.2	6214.6	6034.7	5803.0	5555.9	5449.7	5046.0
12.5°	6419.1	6439.8	6476.0	6538.1	6587.3	6579.5	6448.8	6202.9	5909.2	5775.9	5233.6
15°	6498.0	6525.2	6582.1	6693.4	6831.9	6910.9	6875.9	6653.3	6325.9	6161.5	5462.7
17.5°	6547.2	6569.2	6657.2	6806.0	7011.8	7221.5	7313.3	7127.0	6797.0	6609.3	5725.4
20°	6580.8	6597.7	6707.7	6882.4	7149.0	7482.9	7739.1	7692.5	7315.9	7072.6	5999.8
22.5°	6655.9	6670.1	6775.0	6951.0	7246.0	7677.0	8149.4	8219.3	7863.4	7587.7	6293.5
25°	6865.6	6865.6	6953.6	7076.5	7353.5	7845.2	8496.2	8805.5	8422.4	8101.5	6565.3
27.5°	7265.5	7261.6	7293.9	7336.6	7546.3	8016.1	8805.5	9323.2	9002.2	8651.5	6829.3
30°	7739.1	7765.0	7768.9	7748.2	7846.5	8229.6	9091.5	9869.3	9585.9	9208.0	7099.8
32.5°	8348.7	8365.5	8346.1	8277.5	8263.3	8532.4	9372.4	10441.3	10217.4	9789.1	7347.0
35°	9122.6	9090.2	9029.4	8889.6	8756.3	8937.5	9693.3	11013.4	10926.7	10491.8	7687.4
37.5°	9952.1	9953.4	9878.4	9561.3	9377.5	9455.2	10135.9	11661.7	11784.7	11327.8	8123.5
40°	10617.3	10652.3	10698.9	10282.2	10044.0	10151.4	10698.9	12413.6	12799.3	12319.2	8691.6
42.5°	11082.0	11122.1	11254.1	10992.7	10745.5	10944.8	11361.5	13216.0	13938.2	13463.2	9356.8
45°	11573.7	11595.7	11688.9	11576.3	11418.4	11867.5	12108.2	14046.9	15143.0	14682.3	10101.0
47.5°	12091.4	12114.7	12210.5	12135.4	12052.6	12729.4	12887.3	14829.9	16297.4	16021.8	10895.6
50°	12730.7	12746.3	12836.8	12701.0	12726.8	13379.1	13583.6	15548.1	17507.5	17225.4	11692.8
52.5°	13603.0	13606.9	13732.4	13609.5	13487.8	13855.4	14182.8	16225.0	18456.1	18322.8	12490.0
55°	14286.3	14327.7	14739.3	14713.4	14643.5	14287.6	14683.6	16869.5	19302.5	19365.9	13336.4
57.5°	13850.2	14011.9	14845.4	15432.9	16005.0	15363.1	15360.5	17595.5	20089.4	20389.6	14266.9
60°	12130.2	12350.2	13578.4	14881.6	16671.5	17234.4	16765.9	18482.0	20884.0	21404.2	15432.9
62.5°	8663.2	9025.5	10689.8	12770.8	15757.8	18474.2	19626.0	19888.8	21964.6	22579.3	16948.4
65°	4379.5	4653.8	6048.9	8555.7	12589.7	17664.1	22734.6	22968.9	23842.4	24388.6	19281.8
67.5°	2660.8	2764.3	3445.1	4758.7	7718.4	13759.6	23749.3	28102.8	27476.5	27766.4	22609.1
70°	1960.7	2037.0	2461.5	3160.4	4439.0	8074.3	20635.5	31766.6	31355.1	31322.7	25068.0
72°	1527.1	1582.8	1958.1	2553.4	3245.8	4844.1	14956.7	30414.2	32465.5	32302.4	24842.8
72.5°	1448.2	1497.4	1839.0	2403.3	3067.2	4391.1	13447.7	29501.8	32385.2	32311.5	24551.6
75°	1140.2	1175.1	1361.5	1858.4	2400.7	2491.3	7369.0	22862.8	28729.2	29923.7	22082.4
77.5°	943.4	948.6	1047.0	1352.4	1871.4	1761.4	3619.8	15862.6	20572.1	21885.7	15642.6
80°	768.7	775.2	821.8	948.6	1415.8	1303.2	1718.7	9121.3	11518.1	11532.3	7438.9
82.5°	612.1	613.4	665.2	693.7	1017.2	931.8	984.9	4282.4	5033.0	4841.5	2673.7
85°	431.0	421.9	649.7	569.4	665.2	597.9	543.6	1695.4	2081.0	1990.4	837.3
87.5°	143.7	148.8	288.6	368.8	388.3	339.1	242.0	649.7	785.6	779.1	265.3
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°	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1
2.5°	4647.4	4605.9	4545.1	4477.8	4424.8	4370.4	4330.3	4309.6	4286.3	4266.9	4290.2
5°	4696.5	4618.9	4489.5	4362.6	4269.5	4186.6	4127.1	4096.0	4067.6	4048.2	4050.7
7.5°	4776.8	4651.2	4433.8	4248.8	4119.3	4030.0	3969.2	3948.5	3930.4	3925.2	3931.7
10°	4862.2	4677.1	4360.0	4114.2	3966.6	3892.9	3865.7	3879.9	3892.9	3904.5	3917.4
12.5°	4959.2	4700.4	4252.6	3956.3	3830.7	3802.3	3829.4	3891.6	3936.9	3964.0	3980.9
15°	5086.1	4721.1	4128.4	3798.4	3714.3	3746.6	3838.5	3945.9	4024.9	4075.3	4083.1
17.5°	5202.6	4719.8	3969.2	3639.2	3619.8	3714.3	3852.7	4004.2	4110.3	4181.5	4195.7
20°	5322.9	4684.9	3784.1	3483.9	3524.0	3679.3	3859.2	4041.7	4169.8	4252.6	4272.0
22.5°	5435.5	4624.1	3581.0	3342.8	3443.8	3632.7	3834.6	4019.7	4147.8	4215.1	4235.8
25°	5511.9	4517.9	3375.2	3223.8	3372.6	3575.8	3754.4	3903.2	3999.0	4032.6	4037.8
27.5°	5550.7	4379.5	3181.1	3120.2	3298.8	3482.6	3605.5	3679.3	3706.5	3703.9	3698.7
30°	5555.9	4197.0	3014.1	3036.1	3213.4	3345.4	3403.7	3389.4	3354.5	3294.9	3300.1
32.5°	5539.0	3991.2	2874.3	2955.9	3104.7	3178.5	3181.1	3112.5	3019.3	2924.8	2898.9
35°	5544.2	3789.3	2751.4	2865.3	2972.7	3005.1	2975.3	2874.3	2747.5	2625.9	2600.0
37.5°	5601.2	3613.3	2645.3	2760.5	2826.5	2834.2	2791.5	2685.4	2592.2	2473.2	2462.8
40°	5737.0	3487.8	2544.3	2642.7	2680.2	2684.1	2623.3	2548.2	2556.0	2492.6	2491.3
42.5°	5981.6	3433.4	2455.0	2519.7	2543.0	2550.8	2504.2	2456.3	2523.6	2482.2	2468.0
45°	6297.4	3446.4	2380.0	2399.4	2442.1	2478.3	2449.9	2391.6	2417.5	2237.6	2178.1
47.5°	6662.4	3529.2	2320.4	2295.9	2369.6	2438.2	2394.2	2306.2	2214.3	2035.7	2002.1
50°	7089.4	3657.3	2266.1	2193.6	2290.7	2383.9	2339.9	2214.3	2075.8	1989.1	1977.5
52.5°	7534.6	3813.9	2211.7	2081.0	2191.0	2342.4	2320.4	2193.6	2022.8	1937.4	1921.8
55°	8039.4	3971.8	2143.1	1950.3	2083.6	2323.0	2311.4	2118.6	1982.7	1934.8	1923.1
57.5°	8667.0	4151.7	2052.5	1814.4	1982.7	2253.1	2216.9	2073.3	1941.3	1905.0	1901.1
60°	9484.9	4417.0	1921.8	1669.5	1859.7	2145.7	2138.0	2007.3	1875.2	1849.4	1844.2
62.5°	10711.8	4855.7	1741.9	1524.5	1722.5	1963.3	2034.4	1918.0	1805.4	1804.1	1806.7
65°	12614.2	5515.7	1546.5	1397.7	1584.1	1809.2	1914.1	1826.1	1734.2	1760.1	1763.9
67.5°	14819.5	6063.2	1355.0	1273.5	1443.0	1663.0	1805.4	1734.2	1639.7	1707.0	1708.3
70°	15553.3	5574.0	1186.8	1150.5	1296.8	1521.9	1687.6	1633.2	1537.5	1604.8	1598.3
72°	14474.0	4499.8	1078.0	1057.3	1186.8	1405.5	1582.8	1538.8	1444.3	1489.6	1472.8
72.5°	14133.6	4290.2	1050.9	1034.0	1157.0	1375.7	1555.6	1515.5	1421.0	1459.8	1444.3
75°	12607.8	3725.9	903.3	907.2	1009.5	1230.8	1402.9	1389.9	1292.9	1296.8	1291.6
77.5°	9144.6	2732.0	761.0	786.9	859.3	1081.9	1248.9	1241.1	1135.0	1115.6	1111.7
80°	4243.6	1393.8	619.9	631.6	706.6	904.6	1065.1	1054.7	969.3	944.7	930.5
82.5°	1453.3	662.6	465.9	473.7	547.4	728.6	924.0	917.6	846.4	798.5	768.7
85°	519.0	330.0	326.1	318.4	390.8	573.3	805.0	770.0	665.2	566.8	564.3
87.5°	168.2	141.1	168.2	166.9	227.8	388.3	585.0	498.3	482.7	401.2	393.4
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)