

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: P454413

Luminaire Tested: **GLAN-SA5C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32247 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): 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

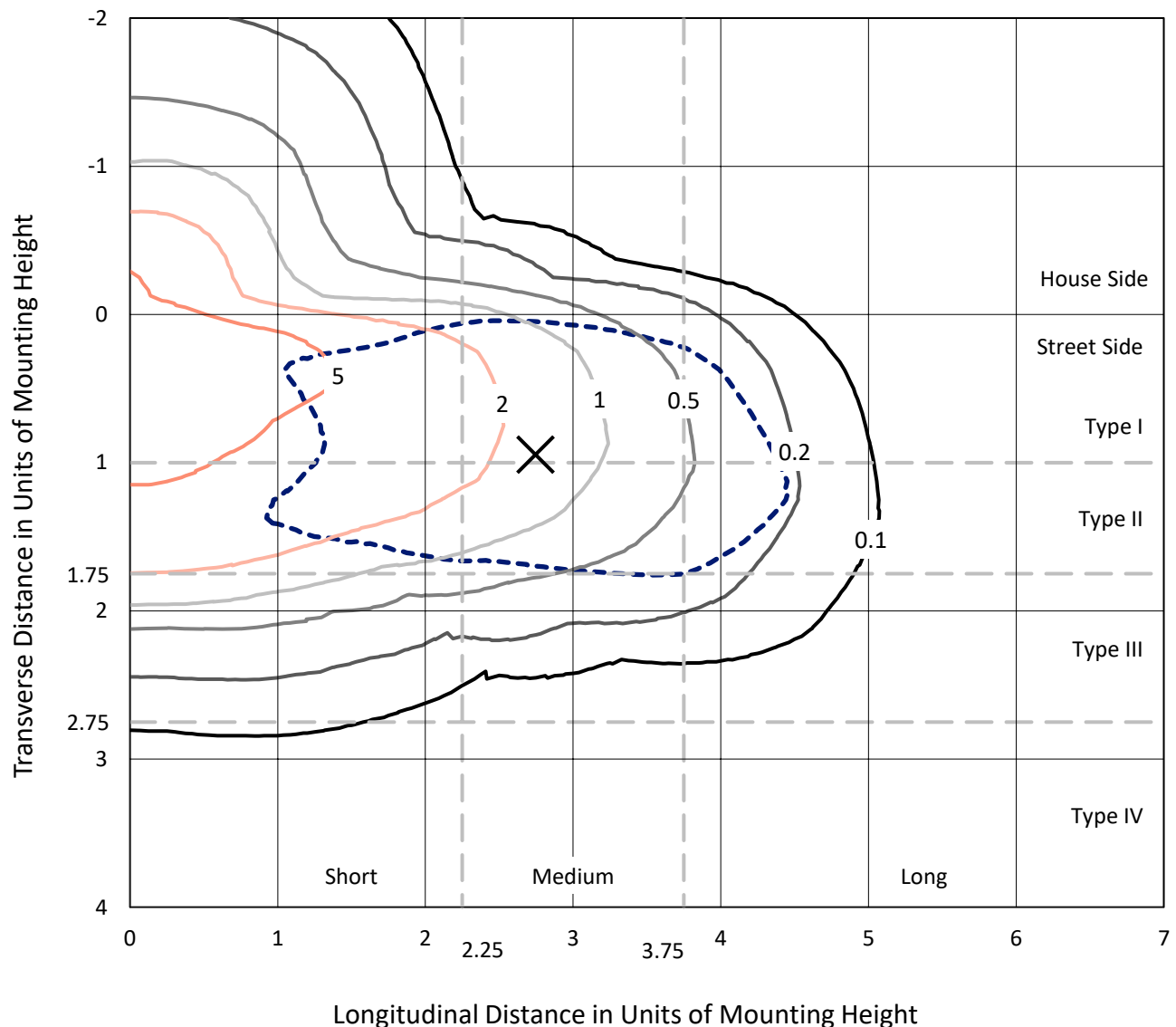


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

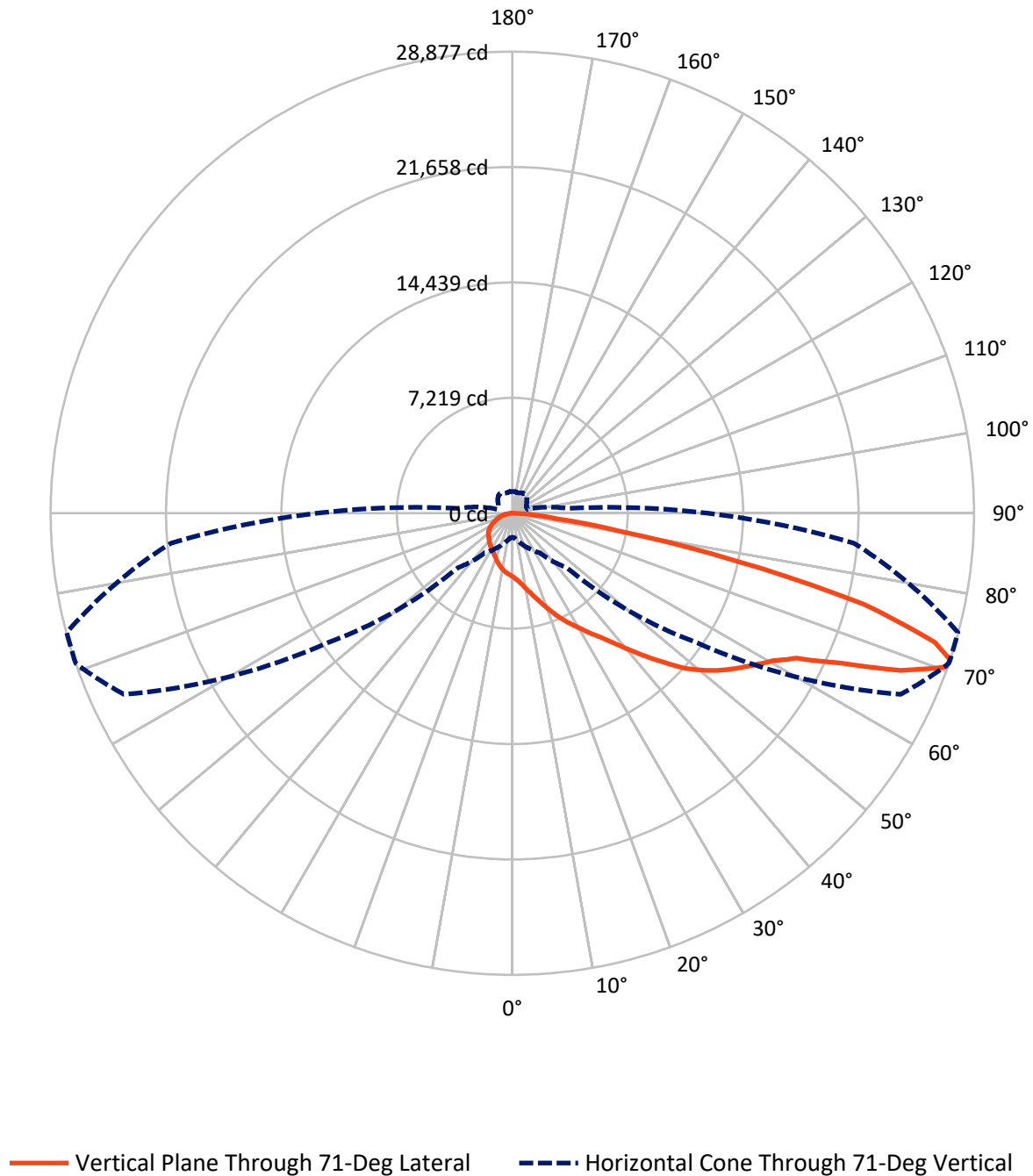


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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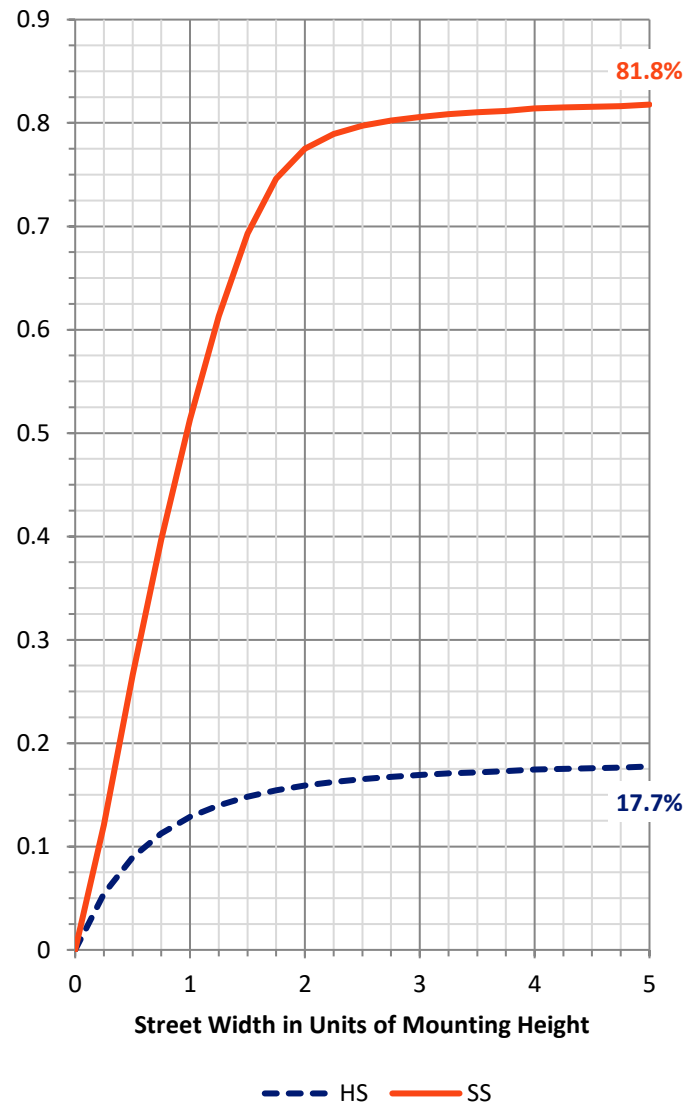
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5799.5	0.0	5799.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	26447.5	0.0	26447.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	32247.0	0.0	32247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.4	1.2
10°-20°	1291.0	4.0
20°-30°	2256.2	7.0
30°-40°	3355.8	10.4
40°-50°	4944.4	15.3
50°-60°	6922.2	21.5
60°-70°	7742.3	24.0
70°-80°	4729.3	14.7
80°-90°	608.4	1.9
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°	32247.0	100.0
0°-180°	32247.0	100.0

Coefficient of Utilization



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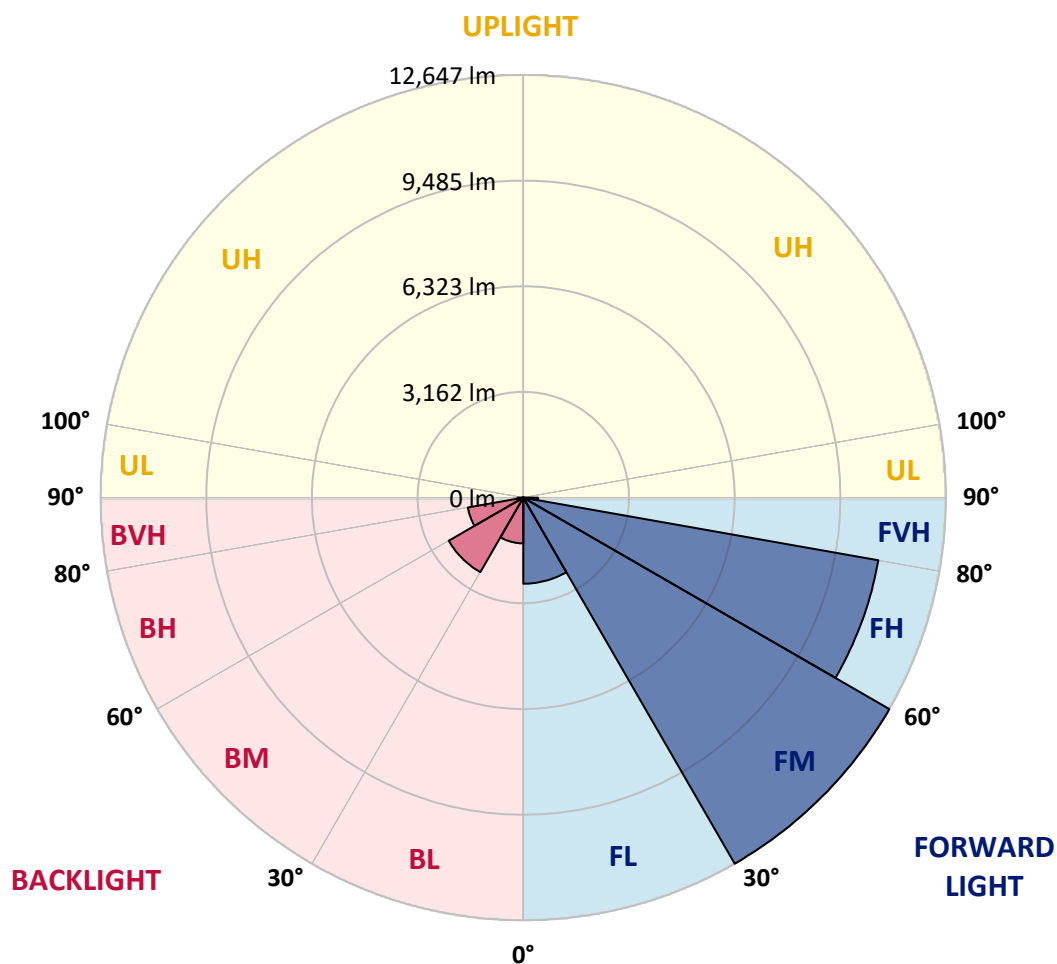
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2576.6	8.0			
FM	(30°-60°)	12646.6	39.2			
FH	(60°-80°)	10786.5	33.4			G4/12000
FVH	(80°-90°)	437.7	1.4			G3/500
BL	(0°-30°)	1368.1	4.2	B3/2500		
BM	(30°-60°)	2575.8	8.0	B3/5000		
BH	(60°-80°)	1685.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	170.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7
2.5°	4393.7	4372.4	4374.2	4344.1	4305.1	4262.5	4202.3	4149.1	4106.6	4081.7	4009.1
5°	4868.7	4847.4	4820.8	4755.2	4726.9	4622.3	4489.4	4368.9	4276.7	4225.3	4080.0
7.5°	5253.3	5248.0	5240.9	5203.7	5131.0	4985.7	4872.2	4663.1	4526.6	4429.1	4181.0
10°	5490.8	5499.6	5505.0	5512.0	5481.9	5405.7	5249.7	4985.7	4812.0	4687.9	4312.2
12.5°	5611.3	5620.2	5650.3	5715.9	5756.6	5747.8	5620.2	5361.4	5122.1	4959.1	4452.2
15°	5685.7	5699.9	5753.1	5839.9	5976.4	6063.2	6001.2	5761.9	5499.6	5306.5	4618.8
17.5°	5767.3	5783.2	5841.7	5965.8	6144.8	6332.6	6400.0	6194.4	5909.1	5678.6	4804.9
20°	5813.3	5834.6	5917.9	6081.0	6290.1	6563.1	6786.4	6678.3	6366.3	6111.1	5019.3
22.5°	5887.8	5905.5	5976.4	6150.1	6400.0	6742.1	7172.7	7149.7	6875.0	6545.3	5255.1
25°	6089.8	6118.2	6153.6	6258.2	6499.2	6924.6	7493.5	7653.1	7367.7	6999.1	5471.3
27.5°	6470.9	6493.9	6492.2	6506.3	6642.8	7082.4	7771.8	8151.1	7856.9	7458.1	5680.4
30°	6905.1	6914.0	6921.1	6889.2	6919.3	7243.6	8027.0	8643.8	8349.6	7929.5	5863.0
32.5°	7433.3	7451.0	7390.7	7309.2	7284.4	7482.9	8237.9	9136.5	8932.7	8408.1	6043.8
35°	8057.2	8103.2	7980.9	7837.4	7736.4	7826.7	8521.5	9639.9	9530.0	9019.5	6283.0
37.5°	8769.6	8826.4	8712.9	8431.1	8287.6	8312.4	8891.9	10262.0	10285.0	9716.1	6639.3
40°	9352.8	9427.2	9430.7	9032.0	8814.0	8842.3	9361.6	10931.9	11196.0	10577.5	7059.3
42.5°	9737.4	9810.0	9886.2	9652.3	9423.6	9584.9	9909.3	11658.6	12220.4	11623.1	7646.0
45°	10159.2	10224.8	10267.3	10160.9	10033.3	10451.6	10570.4	12431.3	13312.2	12791.1	8287.6
47.5°	10648.3	10721.0	10761.8	10660.8	10612.9	11212.0	11282.9	13152.7	14478.4	13925.4	8996.5
50°	11300.6	11355.5	11334.3	11270.4	11259.8	11795.1	11967.0	13828.0	15440.8	15146.6	9732.0
52.5°	12112.3	12177.9	12200.9	12110.5	12069.8	12211.6	12518.2	14443.0	16316.4	16195.8	10517.2
55°	12603.3	12707.8	13058.8	13200.5	13298.0	12750.4	13111.9	15121.8	17101.5	17301.8	11360.8
57.5°	11974.1	12108.8	12893.9	13602.9	14519.2	14097.4	13953.8	15830.7	17886.7	18374.1	12371.1
60°	10439.2	10469.3	11481.4	12787.6	14630.8	15829.0	15710.2	16958.0	18737.4	19455.2	13702.1
62.5°	7241.9	7305.7	8502.0	10586.3	13251.9	16452.8	18698.4	18904.0	19956.8	21073.4	15653.5
65°	3734.4	3651.1	4741.1	6653.4	9990.8	14971.1	21119.5	22482.4	22601.2	23604.3	18400.7
67.5°	2298.8	2336.0	2846.4	3885.0	5907.3	10880.5	20866.0	26854.8	26229.2	26711.3	20951.1
70°	1726.3	1772.4	2123.3	2658.5	3601.4	6221.0	16780.7	27914.7	28788.5	28664.4	21727.4
71°	1501.2	1549.0	1914.2	2419.3	3025.4	4801.3	14138.1	26805.2	28877.1	28855.8	21434.9
72.5°	1279.6	1309.8	1595.1	2048.8	2550.4	3365.7	10621.8	24040.3	27645.3	28352.5	20391.0
75°	1004.9	1028.0	1155.6	1563.2	2008.1	2066.6	5699.9	18023.1	22705.7	24052.7	16975.7
77.5°	818.8	834.8	900.4	1160.9	1549.0	1464.0	2990.0	11731.3	14225.0	15580.8	9999.7
80°	650.5	668.2	707.2	786.9	1160.9	1043.9	1426.8	5944.5	6871.4	6857.3	3991.4
82.5°	505.1	510.4	556.5	577.8	794.0	740.8	772.7	2516.8	2787.9	2880.1	1440.9
85°	319.0	335.0	492.7	443.1	475.0	434.2	381.1	999.6	1231.8	1214.1	576.0
87.5°	97.5	102.8	166.6	187.9	210.9	189.6	140.0	294.2	359.8	389.9	143.6
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°	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7	3957.7
2.5°	3980.7	3961.2	3892.1	3835.4	3782.2	3723.7	3674.1	3659.9	3647.5	3642.2	3640.4
5°	4017.9	3959.5	3823.0	3711.3	3622.7	3541.2	3489.8	3466.7	3443.7	3443.7	3450.8
7.5°	4071.1	3964.8	3753.9	3587.3	3475.6	3399.4	3362.2	3358.6	3363.9	3369.3	3371.0
10°	4129.6	3961.2	3652.8	3445.5	3346.2	3310.8	3312.5	3342.7	3371.0	3392.3	3395.8
12.5°	4186.3	3940.0	3534.1	3312.5	3248.7	3255.8	3305.5	3372.8	3427.7	3457.9	3459.6
15°	4250.1	3906.3	3390.5	3186.7	3165.4	3220.4	3312.5	3415.3	3498.6	3548.3	3553.6
17.5°	4303.3	3849.6	3239.9	3064.4	3091.0	3192.0	3319.6	3452.6	3553.6	3615.6	3626.3
20°	4363.6	3776.9	3083.9	2947.4	3023.6	3160.1	3305.5	3449.0	3553.6	3613.8	3628.0
22.5°	4411.4	3674.1	2935.0	2851.7	2963.4	3121.1	3257.6	3372.8	3457.9	3489.8	3511.0
25°	4430.9	3544.7	2795.0	2773.7	2915.5	3057.3	3149.5	3215.1	3241.6	3238.1	3247.0
27.5°	4420.3	3395.8	2674.5	2711.7	2855.3	2958.1	3004.2	2998.8	2951.0	2906.7	2927.9
30°	4376.0	3218.6	2573.5	2647.9	2777.3	2834.0	2826.9	2757.8	2667.4	2584.1	2589.4
32.5°	4296.2	3027.2	2479.5	2575.2	2667.4	2692.2	2644.4	2554.0	2424.6	2316.5	2300.5
35°	4228.9	2844.6	2396.2	2491.9	2557.5	2545.1	2499.0	2382.1	2265.1	2169.4	2153.4
37.5°	4218.2	2688.7	2316.5	2398.0	2435.2	2417.5	2360.8	2261.5	2219.0	2146.3	2137.5
40°	4274.9	2578.8	2234.9	2298.8	2316.5	2302.3	2240.3	2183.5	2222.5	2204.8	2204.8
42.5°	4429.1	2520.3	2162.3	2199.5	2213.7	2224.3	2180.0	2132.2	2180.0	2098.5	2071.9
45°	4673.7	2522.1	2096.7	2102.0	2144.6	2181.8	2151.6	2080.8	2055.9	1892.9	1861.0
47.5°	5033.5	2582.3	2043.5	2009.9	2086.1	2148.1	2105.6	2002.8	1892.9	1784.8	1765.3
50°	5453.6	2690.4	1995.7	1914.2	2008.1	2105.6	2073.7	1953.1	1839.7	1774.1	1761.7
52.5°	5919.7	2826.9	1937.2	1807.8	1912.4	2086.1	2080.8	1946.1	1790.1	1745.8	1735.1
55°	6495.7	2961.6	1864.5	1683.7	1827.3	2070.1	2061.3	1887.6	1779.5	1747.5	1744.0
57.5°	7165.7	3156.6	1760.0	1557.9	1729.8	2004.5	1985.0	1852.1	1744.0	1721.0	1719.2
60°	8245.0	3459.6	1611.1	1442.7	1630.6	1889.3	1914.2	1791.9	1687.3	1682.0	1680.2
62.5°	9664.7	3885.0	1456.9	1324.0	1515.4	1740.5	1811.4	1710.3	1627.0	1653.6	1657.2
65°	11624.9	4243.0	1297.4	1222.9	1387.8	1596.9	1713.9	1634.1	1559.7	1611.1	1611.1
67.5°	12902.8	4250.1	1152.0	1118.4	1258.4	1476.4	1611.1	1543.7	1472.8	1559.7	1563.2
70°	12636.9	3723.7	1031.5	1008.5	1132.5	1347.0	1497.6	1444.5	1362.9	1440.9	1412.6
71°	12208.0	3431.3	983.7	965.9	1082.9	1285.0	1444.5	1400.2	1318.6	1370.0	1354.1
72.5°	11523.9	2979.3	905.7	909.2	1008.5	1207.0	1370.0	1324.0	1242.4	1270.8	1265.5
75°	9740.9	2601.8	774.5	790.5	866.7	1074.1	1221.2	1185.7	1102.4	1102.4	1097.1
77.5°	6089.8	1818.4	643.4	652.2	735.5	919.9	1049.2	1019.1	939.4	912.8	905.7
80°	2272.2	939.4	503.4	514.0	565.4	724.9	868.5	840.1	758.6	728.4	700.1
82.5°	859.6	471.4	370.4	361.6	416.5	553.0	680.6	646.9	583.1	510.4	489.2
85°	324.3	234.0	226.9	219.8	244.6	327.9	421.8	414.7	347.4	296.0	290.7
87.5°	85.1	76.2	88.6	65.6	69.1	62.0	63.8	26.6	12.4	5.3	3.5
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)