

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: P319944

Luminaire Tested: **GAN-SA0D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61030 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

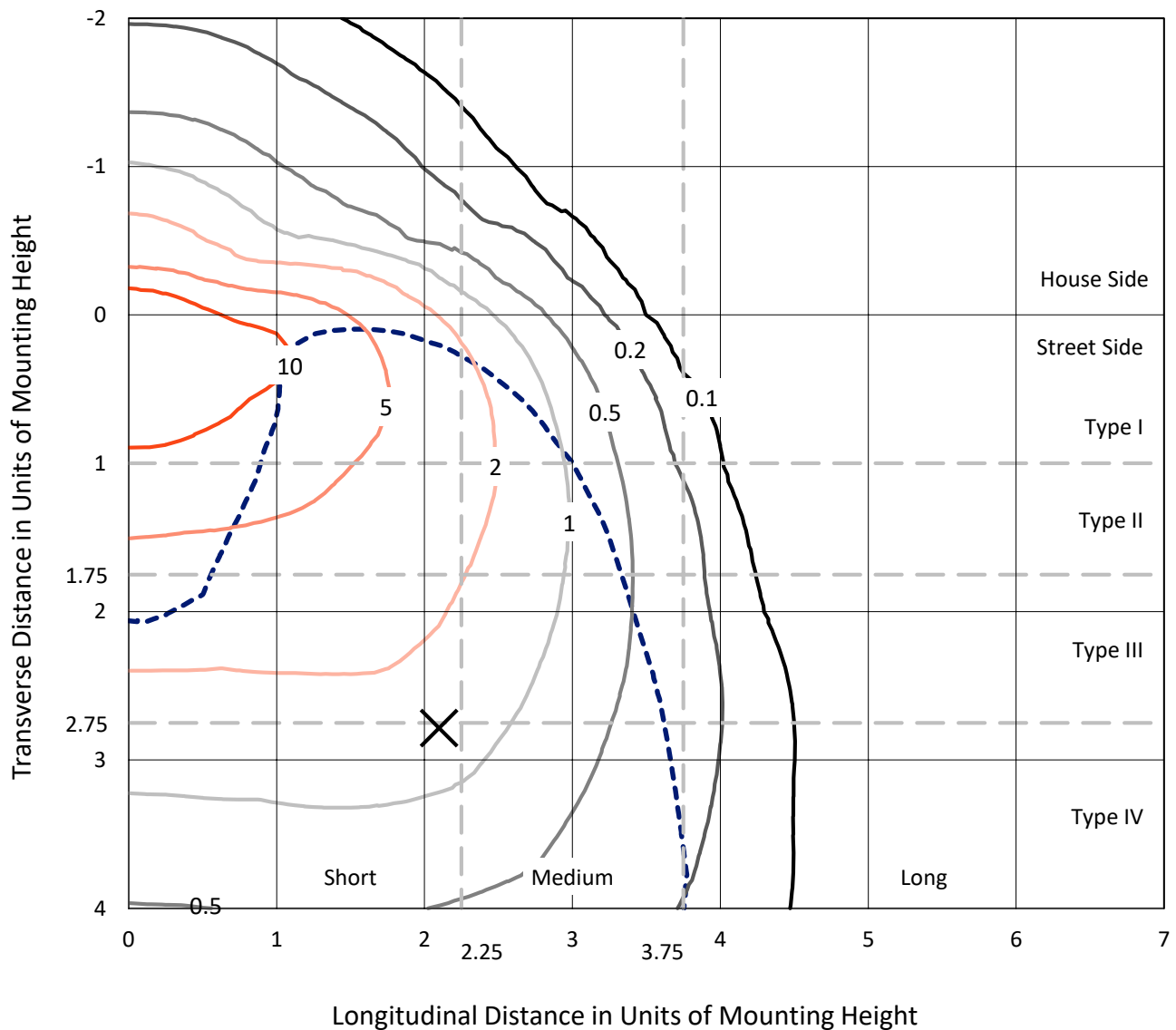
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

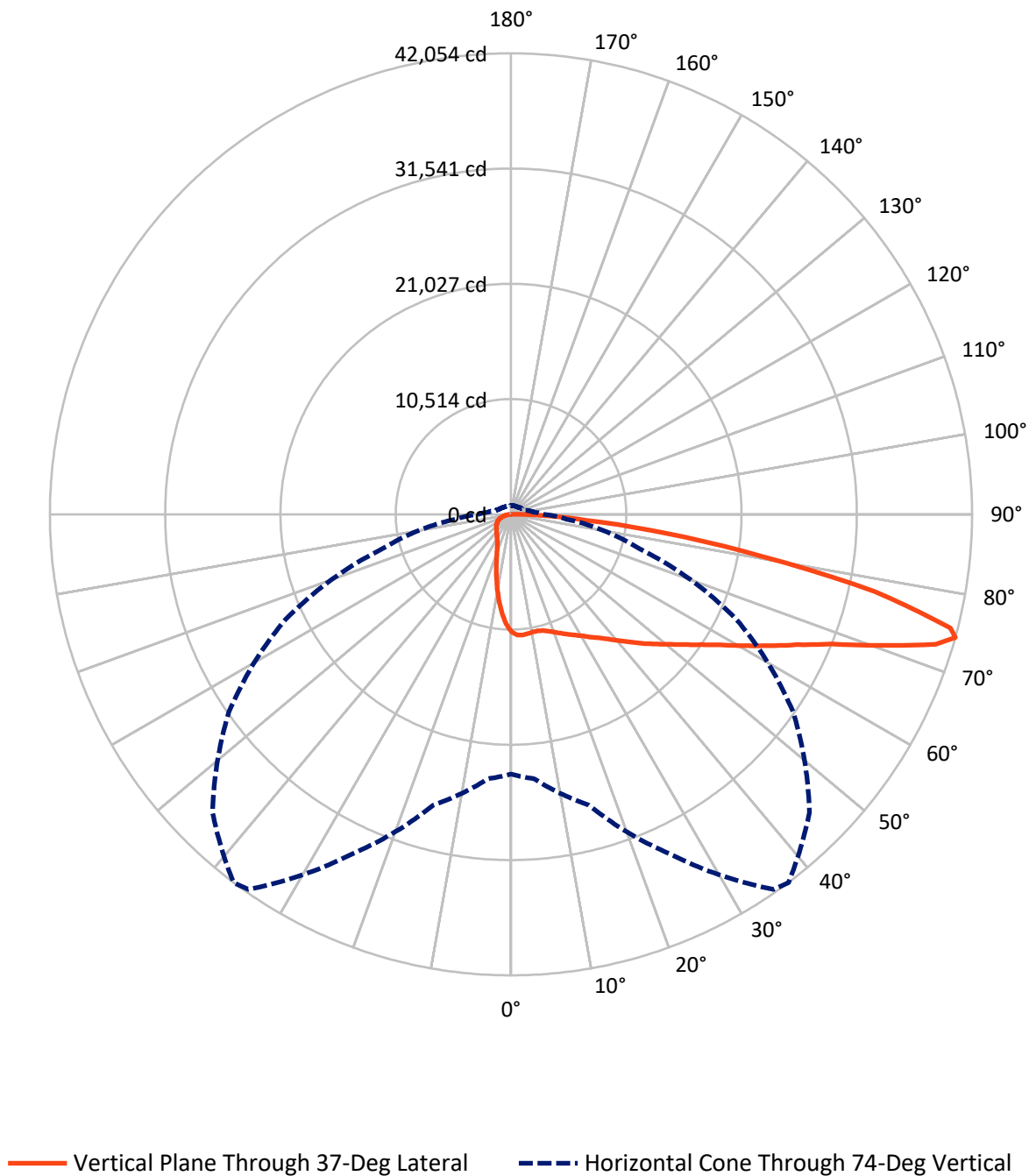
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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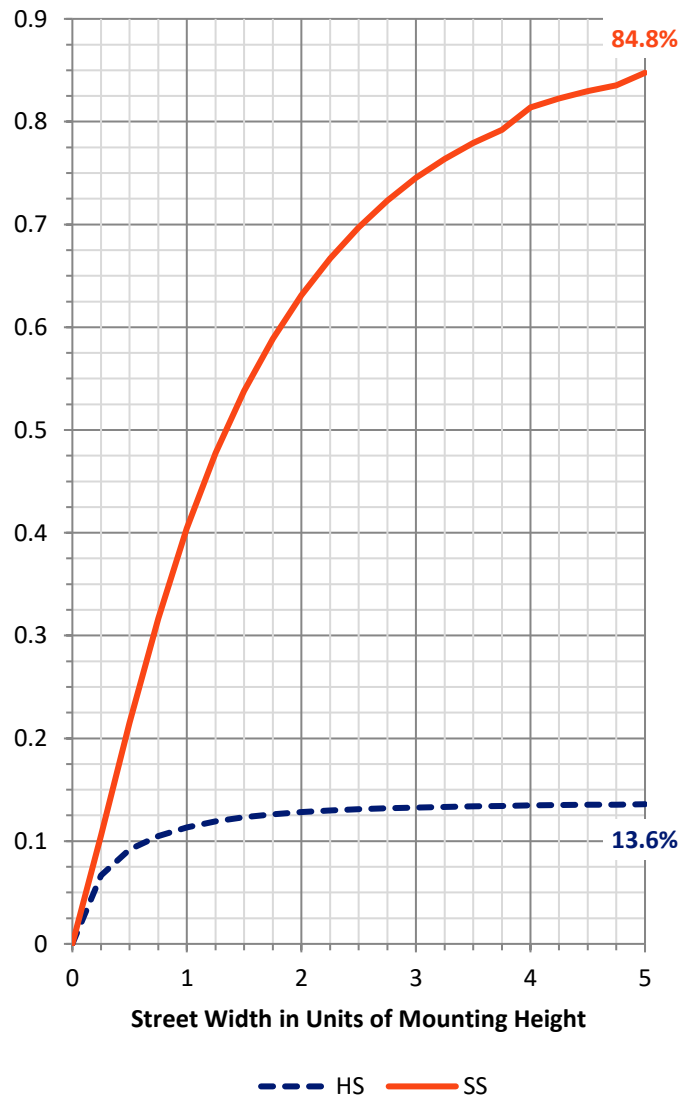
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8397.3	0.0	8397.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	52632.7	0.0	52632.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	61030.0	0.0	61030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.9	1.6
10°-20°	2427.3	4.0
20°-30°	3739.9	6.1
30°-40°	5438.4	8.9
40°-50°	8004.5	13.1
50°-60°	11240.8	18.4
60°-70°	14227.4	23.3
70°-80°	12527.8	20.5
80°-90°	2477.0	4.1
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°	61030.0	100.0
0°-180°	61030.0	100.0

Coefficient of Utilization



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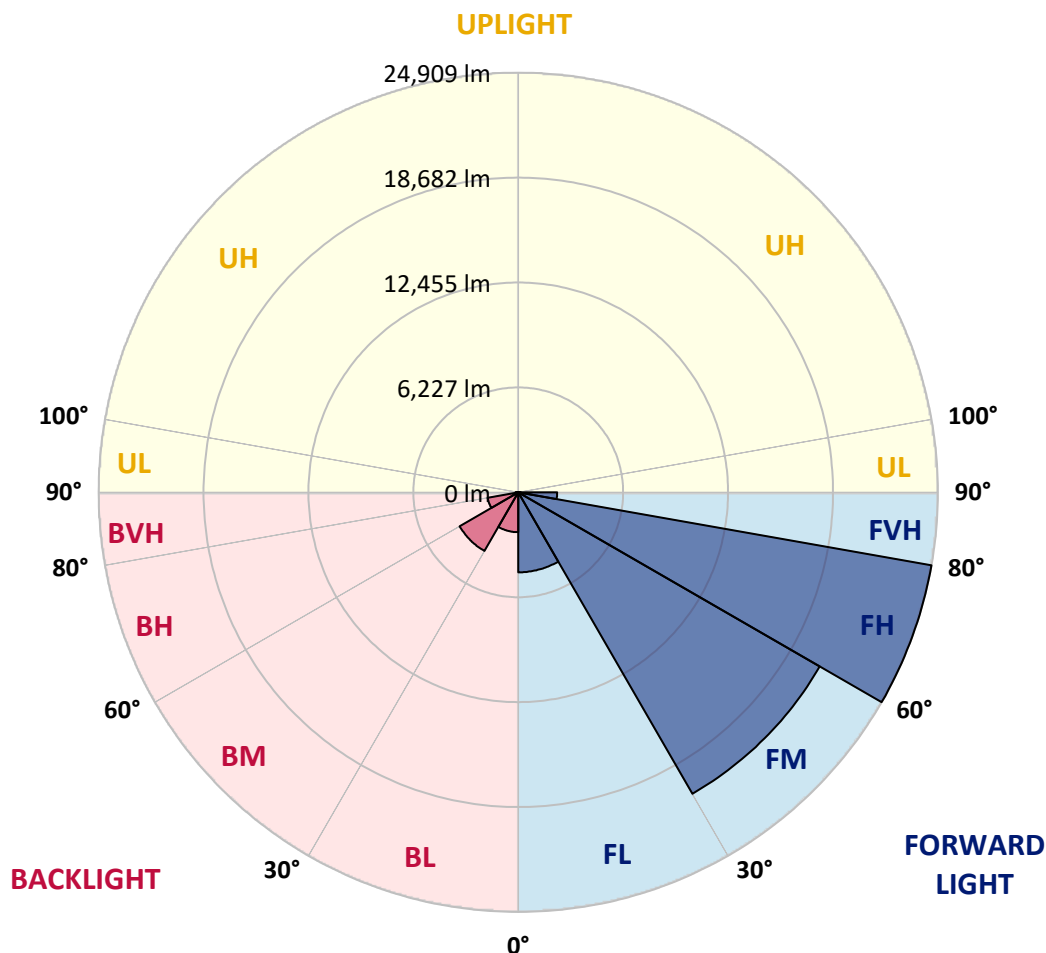
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4748.9	7.8			
FM	(30°-60°)	20665.2	33.9			
FH	(60°-80°)	24909.3	40.8			G5
FVH	(80°-90°)	2309.3	3.8			G5
BL	(0°-30°)	2365.3	3.9	B3/2500		
BM	(30°-60°)	4018.4	6.6	B3/5000		
BH	(60°-80°)	1845.8	3.0	B3/2500		G3/2500
BVH	(80°-90°)	167.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2
2.5°	11120.9	11123.0	11120.9	11103.7	11062.8	11028.4	11000.5	10959.6	10869.3	10800.5	10697.4
5°	11226.2	11213.3	11204.7	11172.5	11108.0	11069.3	11015.5	10938.1	10789.8	10652.2	10484.5
7.5°	11176.8	11161.7	11142.4	11103.7	11030.6	10998.3	10923.1	10822.0	10643.6	10463.0	10222.3
10°	11024.1	11019.8	11011.2	11002.6	10940.3	10914.5	10845.7	10738.2	10561.9	10342.6	10061.0
12.5°	10854.3	10865.0	10899.4	10944.6	10916.6	10903.7	10860.7	10787.6	10607.1	10370.6	10030.9
15°	10746.8	10776.9	10869.3	10987.6	11011.2	11006.9	10996.2	10948.9	10757.5	10495.3	10099.7
17.5°	10710.3	10759.7	10936.0	11131.6	11200.4	11215.5	11219.8	11138.1	10925.2	10647.9	10170.7
20°	10776.9	10839.2	11097.2	11365.9	11475.6	11484.2	11464.8	11322.9	11084.3	10779.0	10209.4
22.5°	10979.0	11034.9	11357.3	11660.5	11785.1	11798.0	11740.0	11525.0	11252.0	10933.8	10263.1
25°	11368.1	11436.9	11759.4	12062.5	12127.0	12129.1	12045.3	11778.7	11471.3	11151.0	10379.2
27.5°	11875.4	11944.2	12234.5	12531.1	12496.7	12477.4	12363.4	12096.9	11757.2	11449.8	10585.6
30°	12440.8	12516.1	12791.3	13001.9	12920.2	12881.5	12789.1	12445.1	12154.9	11858.2	10901.6
32.5°	13025.6	13094.4	13335.1	13479.2	13376.0	13358.8	13219.1	12905.2	12673.0	12481.7	11413.2
35°	13625.4	13674.8	13911.3	13993.0	13855.4	13851.1	13812.4	13524.3	13378.1	13468.4	12157.1
37.5°	14238.1	14251.0	14453.0	14457.3	14416.5	14433.7	14474.5	14294.0	14334.8	14616.4	13124.5
40°	14784.1	14818.5	14964.7	15009.8	15080.8	15141.0	15345.2	15227.0	15543.0	16041.7	14328.4
42.5°	15188.3	15254.9	15489.2	15605.3	15835.4	15929.9	16218.0	16327.7	16964.0	17712.1	15760.1
45°	15530.1	15633.3	16009.5	16248.1	16637.2	16802.8	17215.5	17583.1	18569.9	19524.4	17267.1
47.5°	15899.8	16031.0	16501.8	16957.5	17486.4	17673.4	18423.7	18974.0	20283.3	21347.4	18688.1
50°	16443.7	16544.8	17004.8	17720.7	18380.7	18621.5	19659.8	20448.8	22024.6	23084.4	19920.0
52.5°	17202.6	17163.9	17553.0	18557.0	19442.7	19739.4	20979.8	22018.1	23789.6	24655.9	20960.5
55°	17965.8	17901.3	18174.3	19432.0	20681.0	20992.7	22433.1	23593.9	25468.6	26070.5	21758.0
57.5°	18815.0	18692.4	18922.5	20418.7	22091.2	22463.2	24060.4	25268.6	27119.6	27214.2	22265.4
60°	19689.9	19524.4	19782.4	21641.9	23882.0	24320.6	25965.2	26902.5	28676.0	28130.0	22428.8
62.5°	20455.3	20339.2	20736.9	23007.1	25900.7	26382.2	27835.5	28639.5	30211.0	28510.5	21839.7
65°	21123.8	21143.2	21831.1	24542.0	28151.5	28665.3	29981.0	30780.7	31419.2	28284.8	20461.7
67.5°	21921.4	22031.0	23204.8	26562.8	30984.9	31548.2	33102.5	33115.4	32094.2	26960.5	17748.7
70°	23084.4	23310.2	25094.5	29366.1	35013.6	35787.6	36987.1	34486.9	31146.2	23370.4	13965.0
72.5°	24116.3	24537.7	27104.6	32573.6	39923.7	40510.6	39259.5	33695.8	27184.1	17514.3	8700.2
74°	23697.1	24219.5	27470.0	34153.7	41772.6	42054.2	38492.0	31386.9	22665.2	12129.1	5056.3
75°	22794.2	23361.8	26936.9	34138.7	41538.2	41381.3	36638.9	28749.1	18666.6	8272.4	3364.4
77.5°	18395.8	18995.5	22697.5	29258.6	34059.1	33910.8	28145.1	19285.8	8175.7	2713.0	1709.1
80°	10695.2	11153.1	14089.7	18580.6	22966.2	23234.9	18509.7	9542.9	3216.1	1524.2	1158.7
82.5°	4751.0	5067.1	6806.2	9484.9	13859.7	14205.8	9693.4	5000.4	1986.4	926.6	696.5
85°	3117.2	3351.5	4131.9	4516.7	6599.9	6836.3	4744.6	3893.3	1311.4	509.5	511.7
87.5°	2242.2	2468.0	3069.9	2680.8	3029.1	2867.8	2581.9	3603.0	526.7	290.2	172.0
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°	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2	10753.2
2.5°	10652.2	10617.8	10540.4	10394.2	10312.5	10243.7	10129.8	10063.2	10033.1	10030.9	10043.8
5°	10387.8	10308.2	10108.3	9863.2	9667.6	9489.2	9267.7	9134.5	9039.9	8984.0	8999.0
7.5°	10080.4	9955.7	9641.8	9250.5	8936.7	8590.6	8248.7	8044.5	7885.4	7767.2	7788.7
10°	9869.7	9697.7	9239.8	8676.6	8154.2	7651.1	7180.3	6898.7	6675.1	6503.1	6516.0
12.5°	9798.7	9566.6	8932.4	8180.0	7446.9	6758.9	6144.1	5712.0	5482.0	5286.3	5301.4
15°	9809.5	9497.8	8674.4	7732.8	6810.5	5944.2	5198.2	4693.0	4381.3	4245.8	4248.0
17.5°	9818.1	9418.2	8403.5	7253.4	6180.6	5183.1	4372.7	3861.0	3566.5	3441.8	3444.0
20°	9790.1	9289.2	8068.2	6703.0	5522.8	4484.5	3699.8	3265.5	3042.0	2945.2	2945.2
22.5°	9753.6	9136.6	7689.8	6150.5	4873.6	3878.2	3218.2	2887.2	2758.2	2693.7	2691.5
25°	9770.8	9022.7	7302.8	5583.0	4275.9	3394.5	2897.9	2678.6	2592.6	2551.8	2549.7
27.5°	9863.2	8968.9	6946.0	5017.6	3753.5	3031.2	2682.9	2528.2	2472.3	2446.5	2446.5
30°	10030.9	8968.9	6574.1	4536.1	3319.3	2762.5	2517.4	2412.1	2373.4	2356.2	2356.2
32.5°	10323.3	9018.4	6215.0	4058.8	2973.2	2551.8	2379.8	2308.9	2278.8	2270.2	2270.2
35°	10826.3	9186.1	5864.6	3607.3	2693.7	2379.8	2248.7	2207.8	2186.3	2184.2	2190.6
37.5°	11533.6	9527.9	5535.7	3274.1	2495.9	2240.1	2139.0	2106.8	2093.9	2104.6	2113.2
40°	12423.6	9992.2	5236.9	2973.2	2345.4	2128.3	2038.0	2016.5	2010.1	2025.1	2038.0
42.5°	13498.5	10620.0	4991.8	2756.0	2229.3	2033.7	1952.0	1926.2	1919.8	1937.0	1954.2
45°	14661.6	11295.0	4819.8	2594.8	2139.0	1962.8	1876.8	1848.8	1835.9	1844.5	1863.9
47.5°	15719.3	11933.5	4751.0	2480.9	2053.0	1902.6	1810.1	1775.7	1754.2	1749.9	1765.0
50°	16611.4	12408.6	4783.3	2412.1	1984.3	1835.9	1745.6	1706.9	1674.7	1655.3	1666.1
52.5°	17260.7	12707.4	4813.4	2382.0	1930.5	1762.8	1674.7	1638.1	1595.1	1562.9	1562.9
55°	17731.5	12776.2	4746.7	2358.3	1889.7	1683.3	1595.1	1560.7	1517.8	1481.2	1476.9
57.5°	17916.3	12582.7	4499.5	2323.9	1861.7	1608.0	1511.3	1485.5	1449.0	1406.0	1403.8
60°	17667.0	11985.1	4022.3	2250.8	1825.2	1545.7	1427.5	1410.3	1393.1	1352.2	1350.1
62.5°	16665.2	10673.7	3405.3	2102.5	1752.1	1479.1	1350.1	1358.7	1360.8	1332.9	1328.6
65°	14848.6	8872.2	2803.3	1909.0	1642.4	1399.5	1270.5	1311.4	1335.0	1330.7	1324.3
67.5°	12208.7	6905.1	2375.5	1704.8	1498.4	1289.9	1184.5	1231.8	1251.2	1266.2	1261.9
70°	9061.4	4869.3	1964.9	1489.8	1324.3	1160.9	1072.7	1096.4	1083.5	1100.7	1107.1
72.5°	5052.0	2921.6	1601.6	1274.8	1143.7	1010.4	948.1	943.8	915.8	915.8	915.8
74°	3031.2	2143.3	1408.1	1141.5	1034.0	911.5	857.8	838.4	812.6	814.8	812.6
75°	2437.9	1842.4	1292.0	1053.4	956.7	853.5	799.7	773.9	754.6	754.6	752.4
77.5°	1539.2	1399.5	1040.5	838.4	765.3	703.0	666.4	632.0	632.0	629.9	627.7
80°	1163.0	1113.6	810.5	634.2	586.9	539.6	515.9	500.9	500.9	507.4	505.2
82.5°	797.6	838.4	569.7	442.9	419.2	384.8	380.5	382.7	376.2	367.6	365.5
85°	582.6	629.9	384.8	279.5	255.8	234.3	251.5	260.1	249.4	230.0	221.4
87.5°	223.6	412.8	206.4	116.1	107.5	92.4	107.5	111.8	120.4	94.6	96.7
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)