

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: P321063

Luminaire Tested: **GAN-SA9D-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71162 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 575
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



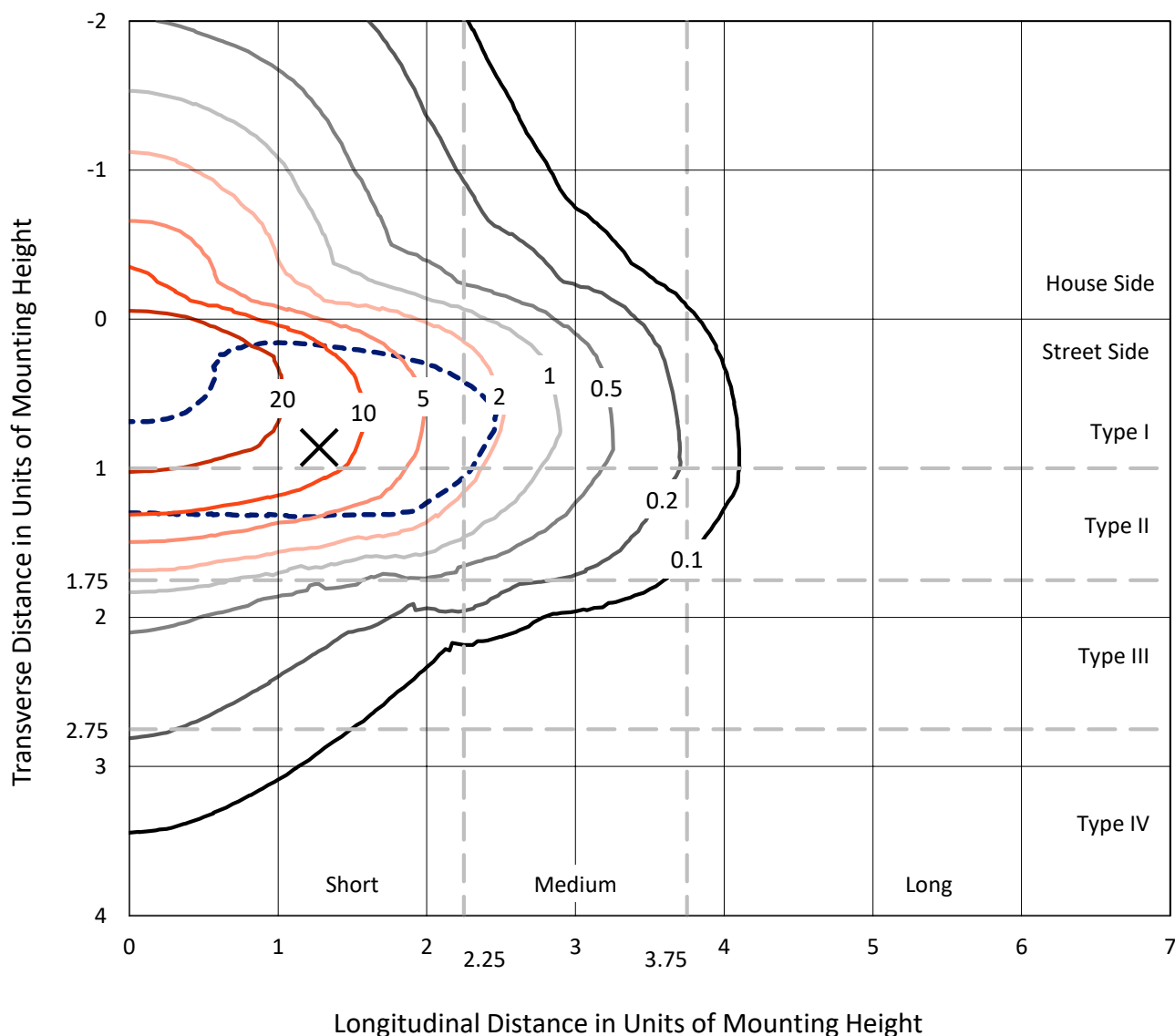
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

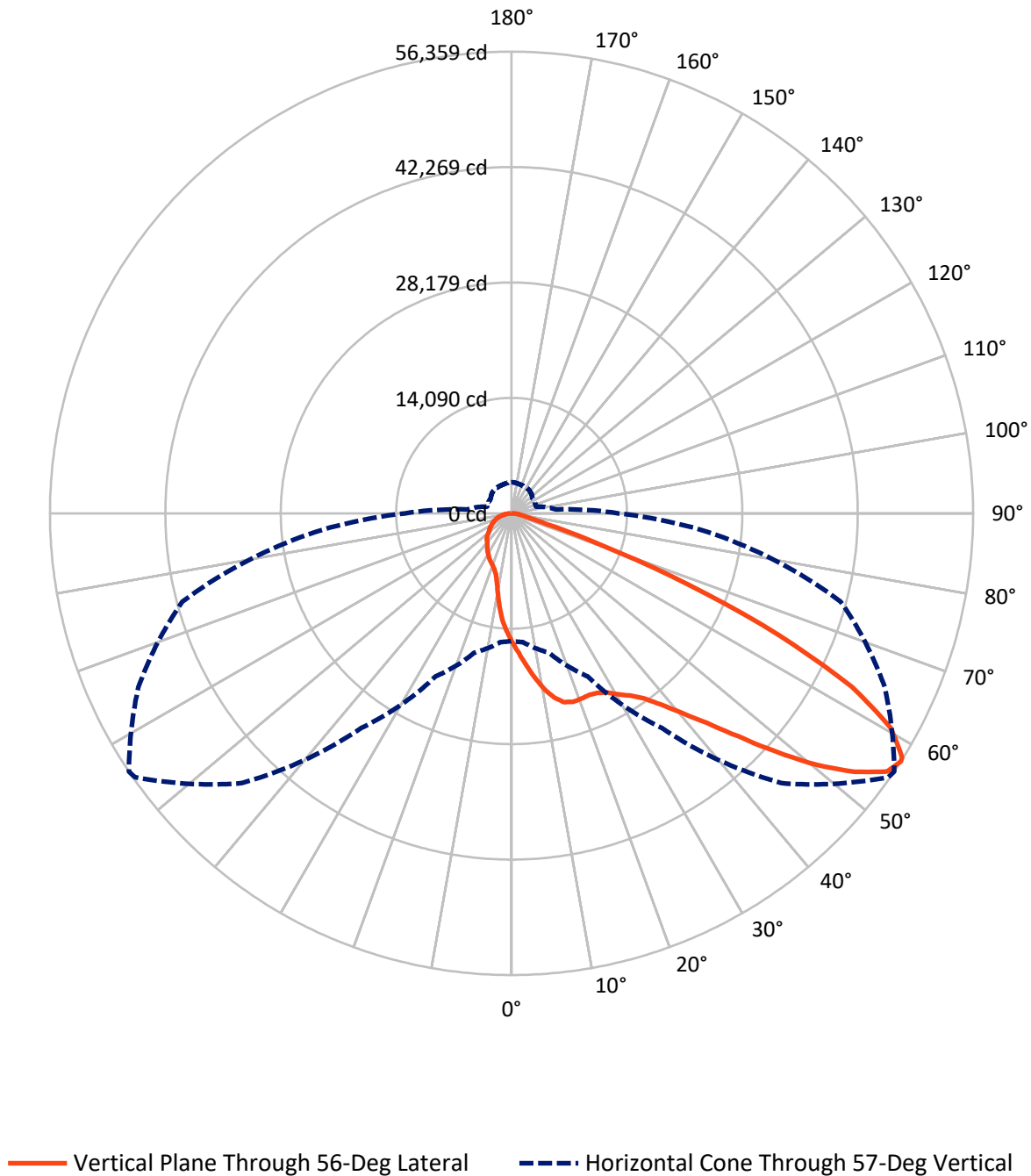


Based on 25 foot mounting height. Maximum calculated value = 35 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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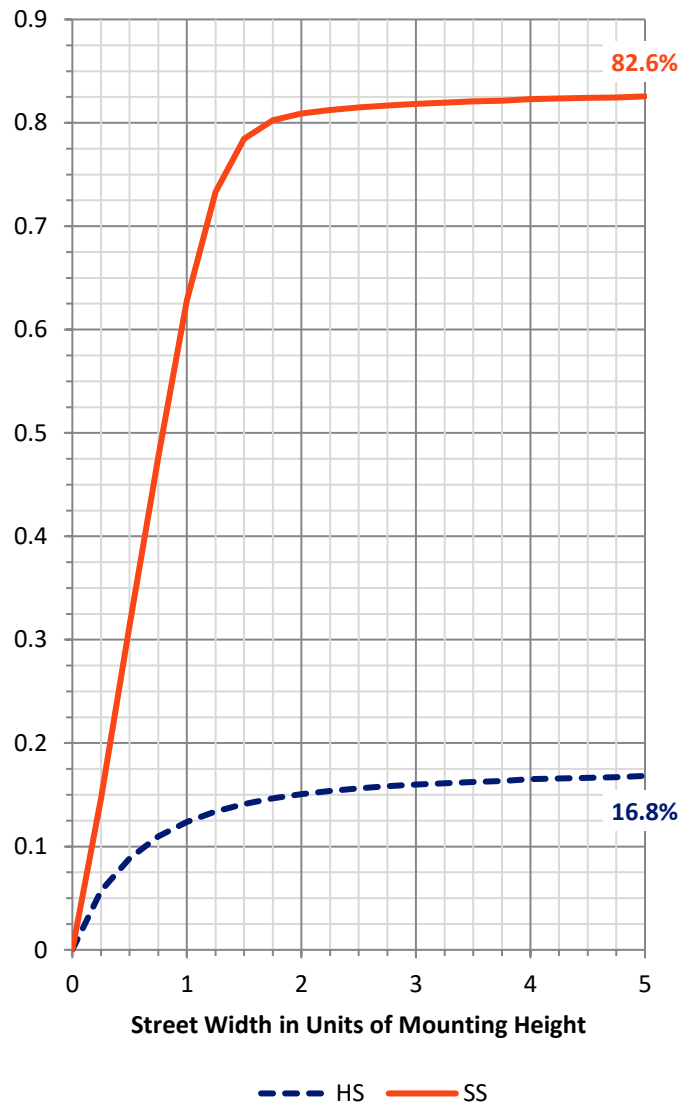
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12266.8	0.0	12266.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	58895.2	0.0	58895.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	71162.0	0.0	71162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1507.8	2.1
10°-20°	4262.7	6.0
20°-30°	6943.2	9.8
30°-40°	10379.3	14.6
40°-50°	15743.2	22.1
50°-60°	17645.4	24.8
60°-70°	10422.0	14.6
70°-80°	3414.7	4.8
80°-90°	843.6	1.2
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°	71162.0	100.0
0°-180°	71162.0	100.0

Coefficient of Utilization



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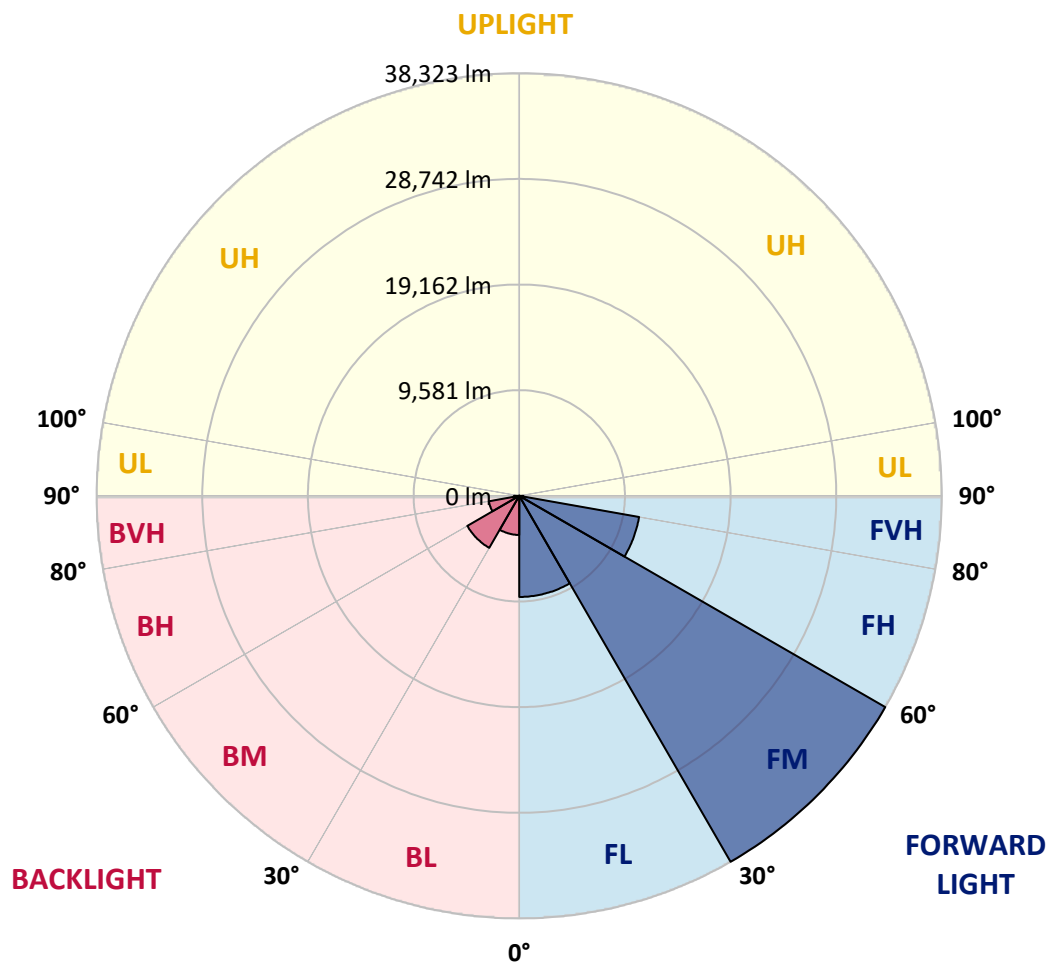
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9166.7	12.9			
FM	(30°-60°)	38323.1	53.9			
FH	(60°-80°)	11033.9	15.5			G4/12000
FVH	(80°-90°)	371.5	0.5			G3/500
BL	(0°-30°)	3547.0	5.0	B4/5000		
BM	(30°-60°)	5444.8	7.7	B4/8500		
BH	(60°-80°)	2802.8	3.9	B4/5000		G4/5000
BVH	(80°-90°)	472.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8
2.5°	18124.2	18290.5	18217.2	17962.8	17767.2	17490.8	17182.7	17089.7	16764.5	16400.1	15962.3
5°	20992.9	20909.7	20789.9	20393.7	19975.5	19488.9	18716.1	18593.8	17869.9	17045.7	16175.1
7.5°	22626.5	22619.2	22548.3	22316.0	21934.4	21298.6	20366.8	20222.5	19129.4	17803.8	16453.9
10°	22389.3	22372.2	22489.6	22731.7	22846.6	22714.6	21929.5	21785.3	20442.6	18642.7	16776.7
12.5°	21041.8	21051.6	21239.9	21748.6	22440.7	23272.2	23145.0	23074.1	21804.8	19591.6	17168.0
15°	19992.6	20014.7	20163.8	20606.5	21423.3	22932.2	23883.6	23908.0	23123.0	20638.3	17625.3
17.5°	19532.9	19579.3	19647.8	19958.4	20706.8	22254.8	24059.7	24191.7	24277.3	21724.1	18065.5
20°	19679.6	19723.6	19743.2	19941.3	20555.1	21844.0	23937.4	24174.6	25162.6	22746.4	18505.7
22.5°	20337.5	20364.4	20376.6	20428.0	20904.8	21961.3	23856.7	24106.1	25803.4	23663.5	18838.3
25°	21428.2	21408.6	21330.4	21264.3	21584.7	22426.0	24042.5	24279.8	26324.3	24495.0	19056.0
27.5°	22734.1	22709.7	22558.1	22377.1	22560.5	23149.9	24578.1	24766.4	26791.4	25272.7	19166.0
30°	24301.8	24238.2	23952.0	23736.8	23807.8	24235.7	25461.0	25632.2	27512.8	26155.5	19273.6
32.5°	26113.9	26045.5	25632.2	25275.1	25275.1	25632.2	26370.7	26512.6	28124.2	27153.3	19447.3
35°	28383.4	28297.8	27759.8	27160.7	26991.9	27172.9	27610.6	27710.9	29224.7	28410.3	19762.8
37.5°	31058.9	30944.0	30247.0	29444.8	29075.5	29065.8	29381.2	29586.7	30983.1	30061.1	20298.3
40°	33741.7	33661.0	33052.1	32421.1	31697.2	31464.9	31951.5	32015.1	33281.9	32110.5	20983.1
42.5°	35815.6	35800.9	35688.4	35771.6	35030.5	34561.0	34942.5	34993.9	36089.5	34328.7	21711.9
45°	36911.2	36935.6	37481.0	38689.1	38963.0	38620.7	38809.0	38823.6	39298.1	36566.4	22379.5
47.5°	36033.2	36160.4	37539.7	40242.1	42484.7	43621.9	43308.8	43489.8	42408.9	38488.6	22902.9
50°	32611.9	32768.4	35116.1	39550.0	44128.1	48461.7	48297.8	48256.3	44918.0	39897.3	23186.6
52.5°	28373.7	28495.9	30432.8	35952.5	42922.4	51137.2	52641.2	52426.0	47148.4	40951.3	23240.4
55°	21919.8	22110.5	23966.7	28772.3	38045.9	50114.9	55835.1	55641.9	49180.7	41504.0	23176.8
57°	15583.3	15783.8	17627.8	21958.9	32005.4	46576.1	56153.0	56358.5	50278.8	41596.9	23247.7
57.5°	13905.6	14111.0	15937.9	20144.3	30122.3	45297.1	55879.1	56221.5	50476.8	41582.3	23286.8
60°	7001.7	7080.0	8244.1	11244.8	19041.3	36620.2	52306.1	53189.0	50655.4	40863.3	23455.6
62.5°	4353.1	4296.9	4260.2	5179.7	9263.9	24284.6	44932.7	46632.4	47238.9	39122.0	23047.2
65°	3827.3	3722.2	3318.7	3245.3	4091.5	11795.0	33837.1	35952.5	39938.8	36378.1	22073.8
67.5°	3595.0	3492.3	3037.4	2763.5	2766.0	4676.0	21007.6	23389.6	31112.7	31738.8	19777.4
70°	3355.3	3262.4	2836.9	2514.1	2355.1	2589.9	9664.9	11472.2	20281.2	24947.4	16529.7
72.5°	3047.2	2983.6	2580.1	2247.5	2078.7	1939.3	3700.2	4370.3	11741.2	16754.7	11479.6
75°	2724.4	2665.7	2320.9	2002.9	1797.5	1526.0	2083.6	2245.0	5964.8	8571.8	5651.7
77.5°	2369.8	2335.5	2064.1	1770.6	1606.7	1264.4	1474.7	1552.9	2558.1	3675.7	2834.4
80°	1885.5	1951.6	1804.8	1577.4	1425.8	1012.5	1044.3	1095.6	1489.4	1795.1	1609.2
82.5°	1227.7	1342.6	1413.5	1281.5	1173.9	797.3	750.8	772.8	970.9	1095.6	699.4
85°	511.1	574.7	929.3	838.8	780.1	582.0	503.8	513.6	601.6	623.6	286.1
87.5°	227.4	242.1	408.4	384.0	330.2	200.5	215.2	234.8	320.4	303.3	110.1
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°	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8	15783.8
2.5°	15798.5	15593.0	15240.9	14852.0	14534.1	14279.8	14023.0	13846.9	13641.5	13531.4	13475.2
5°	15810.7	15407.2	14666.2	13905.6	13225.7	12604.5	12012.7	11557.8	11132.3	10902.4	10838.8
7.5°	15862.1	15255.6	14057.2	12805.1	11597.0	10494.0	9642.9	9109.8	8725.8	8554.7	8505.7
10°	15903.6	15077.0	13304.0	11450.2	9806.8	8689.2	8028.9	7730.5	7598.4	7576.4	7554.4
12.5°	16001.5	14893.6	12511.6	10036.7	8415.3	7642.4	7412.6	7393.0	7429.7	7483.5	7483.5
15°	16155.5	14712.6	11606.7	8823.7	7530.0	7258.5	7305.0	7412.6	7512.8	7596.0	7608.2
17.5°	16268.0	14490.1	10633.4	7852.8	7058.0	7131.3	7297.6	7449.2	7552.0	7632.7	7640.0
20°	16348.7	14145.3	9594.0	7111.8	6786.5	7013.9	7221.8	7356.3	7427.2	7507.9	7520.2
22.5°	16307.2	13683.0	8672.0	6581.1	6566.4	6842.7	7040.8	7202.2	7148.4	7070.2	7121.5
25°	16106.6	13047.2	7723.2	6184.9	6334.1	6612.9	6857.4	6749.8	6568.8	6534.6	6554.2
27.5°	15749.6	12235.3	6845.2	5818.0	6065.0	6400.1	6385.4	6277.8	6214.2	6170.2	6197.1
30°	15365.6	11354.8	6077.3	5497.7	5766.7	6043.0	5986.8	5984.3	5920.8	5849.8	5884.1
32.5°	14986.5	10469.5	5468.3	5233.5	5541.7	5578.4	5700.7	5737.3	5612.6	5463.4	5453.7
35°	14656.4	9633.2	5006.1	4993.9	5270.2	5275.1	5453.7	5402.3	5091.7	4937.6	4937.6
37.5°	14409.4	8799.2	4653.9	4778.7	4913.2	5040.3	5130.8	4918.1	4866.7	4781.1	4778.7
40°	14301.8	8065.5	4433.8	4614.8	4661.3	4822.7	4590.4	4673.5	4698.0	4653.9	4653.9
42.5°	14189.3	7427.2	4243.1	4490.1	4482.8	4460.7	4343.4	4451.0	4548.8	4551.2	4543.9
45°	14076.8	6877.0	4074.3	4223.5	4326.2	4089.0	4111.0	4226.0	4362.9	4411.8	4411.8
47.5°	13952.1	6441.7	3920.3	3942.3	4101.2	3942.3	3925.2	4013.2	4174.6	4252.9	4270.0
50°	13678.1	6050.4	3744.2	3695.3	3739.3	3793.1	3807.8	3849.3	4027.9	4152.6	4181.9
52.5°	13299.1	5700.7	3519.2	3467.8	3467.8	3670.8	3739.3	3751.5	3903.2	4052.3	4081.7
55°	12983.6	5478.1	3286.9	3277.1	3267.3	3541.2	3658.6	3678.2	3783.3	3900.7	3915.4
57°	13005.6	5461.0	3108.3	3118.1	3115.7	3409.1	3582.8	3624.4	3678.2	3778.4	3795.5
57.5°	13017.8	5473.2	3069.2	3074.1	3071.7	3372.5	3560.8	3607.2	3648.8	3754.0	3771.1
60°	13201.3	5505.0	2910.2	2856.4	2868.7	3176.8	3436.0	3494.7	3521.6	3661.0	3683.0
62.5°	12929.8	5363.2	2783.1	2653.5	2653.5	2971.4	3262.4	3355.3	3396.9	3585.2	3621.9
65°	12142.3	4964.5	2633.9	2423.6	2448.0	2766.0	3054.5	3206.2	3269.7	3504.5	3543.7
67.5°	10926.9	4502.3	2474.9	2218.1	2242.6	2550.7	2839.3	3003.2	3103.4	3416.5	3448.3
70°	9344.6	3937.4	2259.7	2000.5	2029.8	2316.0	2585.0	2770.8	2920.0	3333.3	3343.1
72.5°	6889.2	3228.2	1958.9	1760.8	1792.6	2042.1	2328.2	2543.4	2743.9	3125.5	3120.6
75°	4096.4	2523.8	1626.3	1518.7	1540.7	1773.0	2095.9	2357.5	2658.3	3044.8	3091.2
77.5°	2484.7	1900.2	1325.5	1271.7	1298.6	1535.8	1929.6	2208.4	2621.7	2871.1	2856.4
80°	1501.6	1357.3	1058.9	1024.7	1051.6	1313.3	1785.3	2095.9	2291.5	2452.9	2452.9
82.5°	785.0	829.1	777.7	750.8	787.5	1066.3	1623.9	1829.3	2024.9	1738.8	1623.9
85°	320.4	432.9	472.0	469.6	491.6	738.6	1401.3	1565.2	1305.9	1239.9	1269.3
87.5°	107.6	183.4	229.9	198.1	207.9	464.7	970.9	755.7	897.5	626.1	594.3
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)