

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: P322009

Luminaire Tested: **GAN-SA5C-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25148 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 279
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

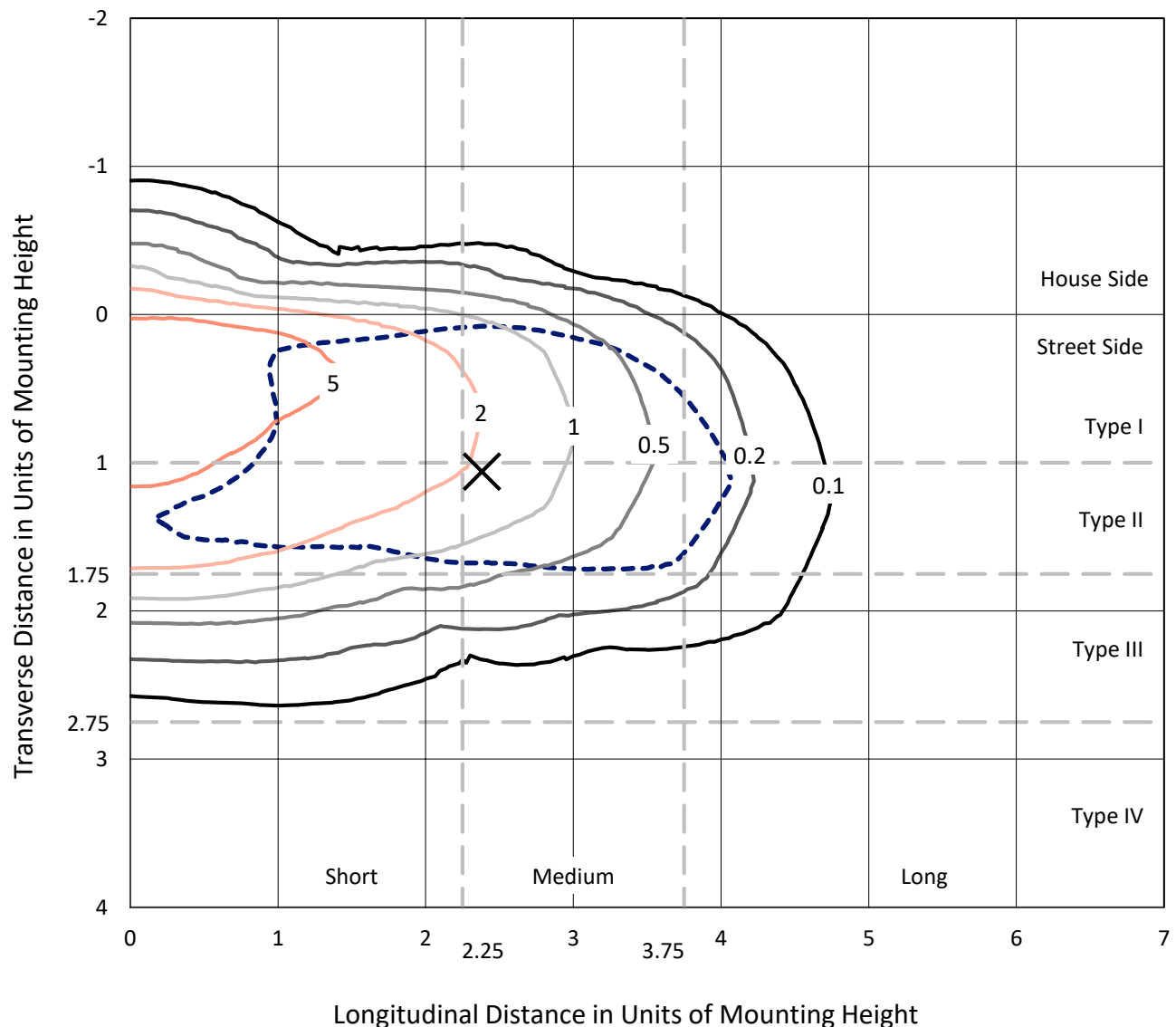


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Iso-Footcandle Lines of Horizontal Illumination

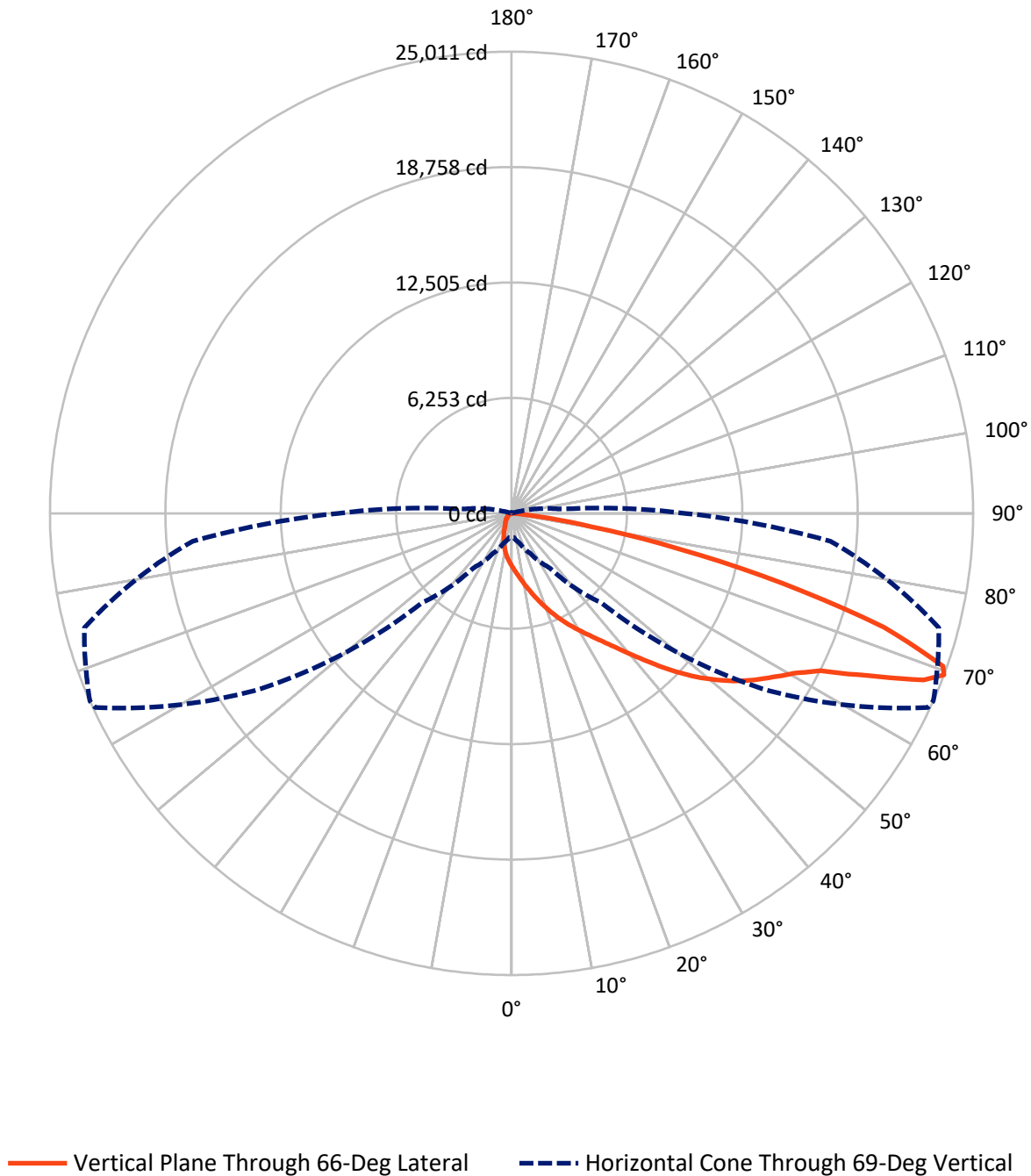
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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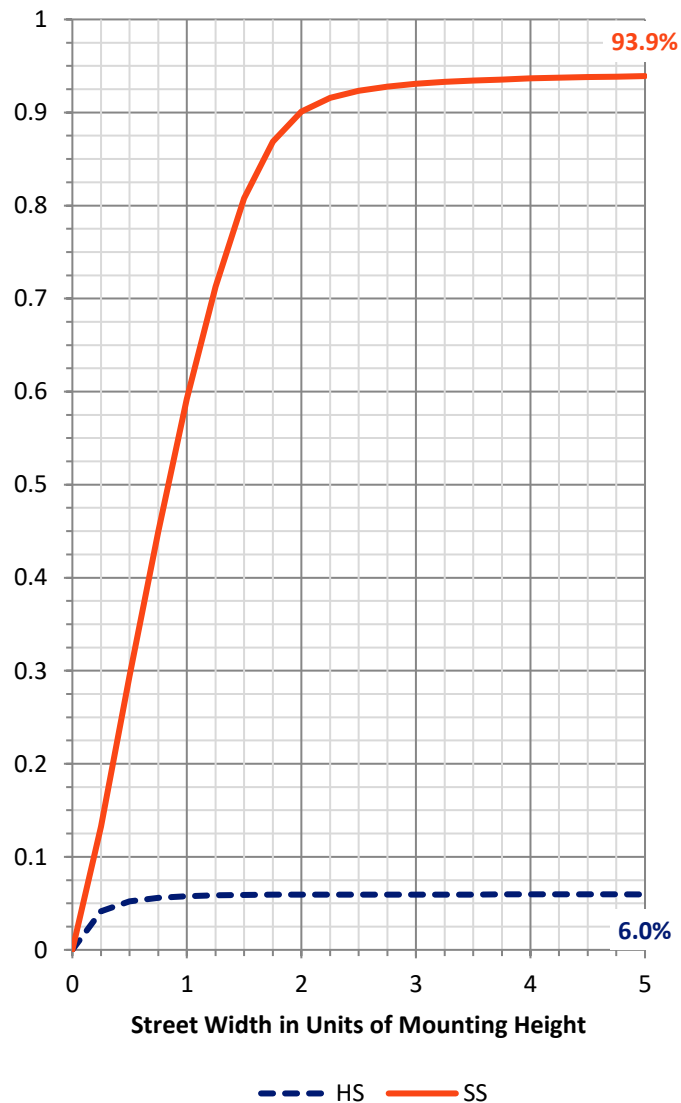
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.5	0.0	1508.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	23639.5	0.0	23639.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	25148.0	0.0	25148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	1.1
10°-20°	823.3	3.3
20°-30°	1433.7	5.7
30°-40°	2515.5	10.0
40°-50°	4210.5	16.7
50°-60°	6189.1	24.6
60°-70°	6354.6	25.3
70°-80°	3137.1	12.5
80°-90°	207.4	0.8
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°	25148.0	100.0
0°-180°	25148.0	100.0

Coefficient of Utilization



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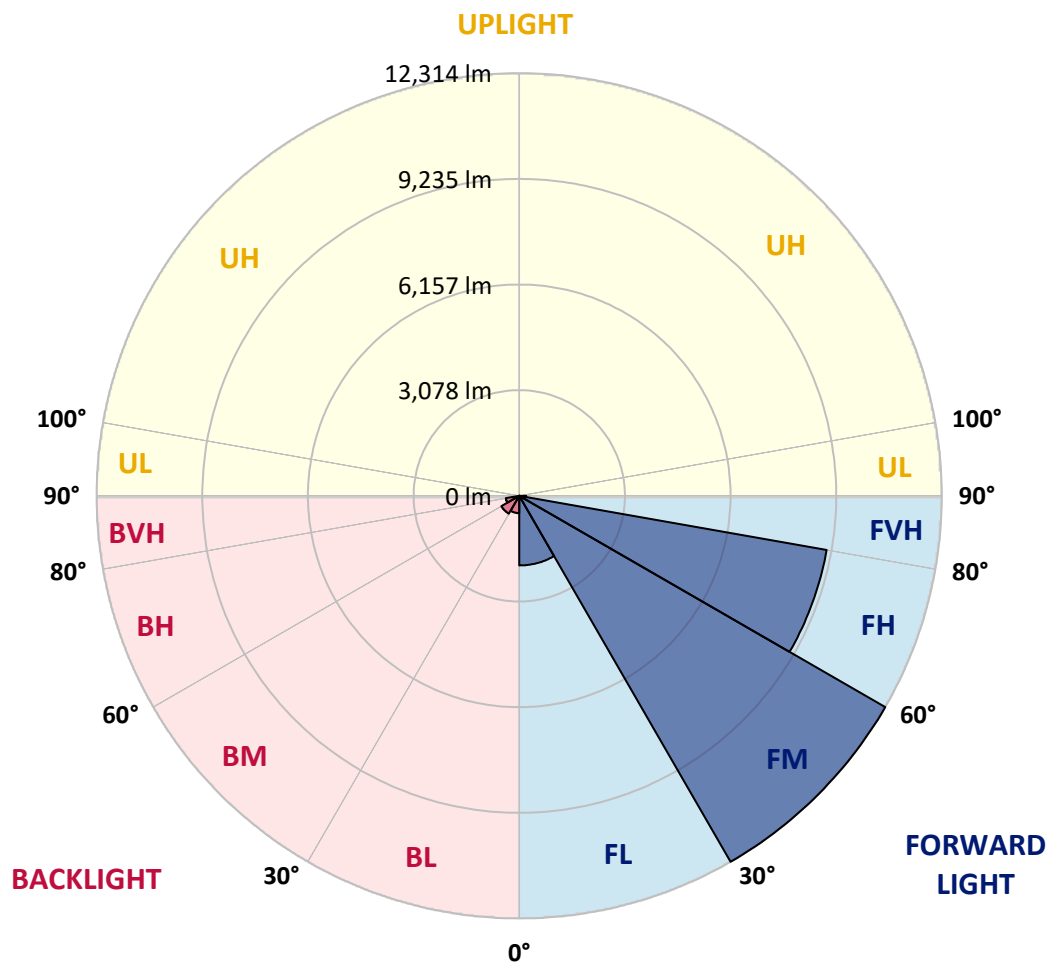
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2029.2	8.1			
FM	(30°-60°)	12313.7	49.0			
FH	(60°-80°)	9094.2	36.2			G4/12000
FVH	(80°-90°)	202.4	0.8			G2/225
BL	(0°-30°)	504.5	2.0	B2/1000		
BM	(30°-60°)	601.5	2.4	B1/1000		
BH	(60°-80°)	397.5	1.6	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	3368.4	3354.0	3348.1	3321.8	3276.4	3241.8	3174.9	3097.2	3082.9	3007.6	2915.7
5°	3805.5	3793.6	3785.2	3748.2	3701.6	3614.4	3492.6	3348.1	3320.6	3177.3	2993.3
7.5°	4110.1	4131.6	4131.6	4107.7	4049.2	3983.5	3834.2	3637.1	3602.5	3382.7	3097.2
10°	4288.1	4314.4	4334.7	4355.0	4346.6	4320.4	4179.4	3957.2	3915.4	3624.0	3217.9
12.5°	4304.8	4331.1	4388.4	4473.2	4555.7	4615.4	4527.0	4312.0	4264.2	3903.5	3361.2
15°	4211.7	4239.1	4327.5	4492.4	4691.8	4866.2	4894.9	4705.0	4656.0	4236.7	3540.4
17.5°	4049.2	4067.1	4193.7	4421.9	4734.8	5054.9	5228.1	5126.6	5081.2	4617.8	3739.9
20°	3928.6	3941.7	4052.8	4297.7	4708.6	5173.2	5543.5	5574.5	5526.8	5026.3	3956.0
22.5°	4135.2	4159.1	4162.7	4278.6	4636.9	5231.7	5820.6	6015.3	5979.5	5459.9	4168.7
25°	4700.2	4727.7	4636.9	4565.2	4697.8	5258.0	6058.3	6466.8	6438.1	5926.9	4382.5
27.5°	5446.7	5475.4	5358.3	5144.5	5016.7	5357.1	6269.7	6925.5	6924.3	6421.4	4613.0
30°	6180.1	6208.8	6089.4	5875.5	5581.7	5637.8	6452.5	7405.6	7412.8	6931.4	4857.9
32.5°	6949.4	6985.2	6862.2	6587.4	6280.5	6122.8	6709.3	7888.2	7928.8	7522.7	5133.8
35°	7823.7	7828.5	7655.3	7367.4	7013.9	6771.4	7121.4	8429.3	8526.0	8254.9	5483.8
37.5°	8681.3	8716.0	8573.8	8119.9	7795.0	7520.3	7734.1	9105.4	9242.7	9149.6	5941.2
40°	9316.8	9389.6	9369.3	8879.6	8571.4	8375.5	8495.0	9909.2	10083.6	10191.1	6518.2
42.5°	9715.7	9770.7	9863.8	9568.8	9289.3	9321.6	9393.2	10845.7	11060.7	11378.4	7181.1
45°	10173.2	10199.5	10277.1	10146.9	9958.2	10283.1	10346.4	11900.4	12126.1	12655.3	7916.9
47.5°	10732.2	10794.3	10815.8	10696.4	10610.4	11133.5	11264.9	12859.5	13176.1	14022.9	8695.7
50°	11444.1	11460.8	11497.9	11420.2	11334.2	11864.6	12089.1	13866.5	14154.3	15395.4	9463.7
52.5°	12140.5	12200.2	12329.2	12280.2	12245.6	12486.9	12823.7	14774.3	15095.6	16539.7	10230.5
55°	12341.1	12392.5	12838.0	13142.6	13424.5	13253.7	13526.1	15587.7	15935.3	17562.1	10968.7
57.5°	11539.7	11643.6	12415.2	13208.3	14377.7	14445.8	14491.2	16422.6	16734.4	18345.7	11736.8
60°	9513.9	9534.2	10800.3	12160.8	14220.0	15486.2	15900.6	17319.7	17581.2	19075.5	12656.5
62.5°	6051.1	6257.8	7646.9	9567.6	12552.6	15335.7	17605.1	18676.6	18772.1	19951.0	13975.2
65°	2882.2	3016.0	4017.0	5911.4	9092.2	13409.0	18781.7	21131.2	21174.2	21686.6	15737.0
67.5°	1595.8	1660.3	2136.9	3182.0	5315.3	9482.8	18306.3	24038.5	24079.1	23459.2	17282.6
69°	1248.2	1303.2	1678.2	2398.5	3603.7	6815.6	16565.9	24890.1	25010.8	23966.8	17337.6
70°	1059.5	1113.2	1445.3	2025.8	2897.8	5266.4	14745.6	24678.7	24806.5	23919.0	16927.9
72.5°	648.6	679.6	962.7	1426.2	1942.2	2649.3	9093.4	20870.8	21087.0	21941.0	14548.5
75°	437.2	453.9	602.0	984.2	1389.2	1364.1	4724.1	14711.0	15179.2	17067.6	10745.4
77.5°	312.9	328.5	403.7	636.6	973.5	900.6	2139.3	9142.4	9242.7	10236.5	5860.0
80°	178.0	192.3	285.5	378.6	660.5	600.8	850.5	4366.9	4417.1	4389.6	1956.5
82.5°	93.2	105.1	156.5	249.6	424.0	393.0	353.6	1462.0	1469.2	1221.9	428.8
85°	17.9	21.5	77.6	170.8	218.6	170.8	144.5	342.8	350.0	309.4	106.3
87.5°	0.0	1.2	31.1	38.2	43.0	44.2	46.6	66.9	71.7	96.8	28.7
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°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	2875.1	2832.1	2749.6	2654.1	2580.0	2507.2	2449.8	2390.1	2368.6	2357.9	2356.7
5°	2903.7	2813.0	2638.6	2459.4	2312.5	2173.9	2074.8	1980.4	1936.2	1915.9	1907.6
7.5°	2951.5	2805.8	2525.1	2251.6	2040.1	1866.9	1729.6	1626.9	1575.5	1554.0	1545.6
10°	3007.6	2796.2	2392.5	2031.8	1761.8	1582.7	1446.5	1345.0	1288.8	1264.9	1253.0
12.5°	3073.3	2779.5	2239.6	1809.6	1524.1	1345.0	1180.1	1054.7	990.2	962.7	949.6
15°	3154.6	2762.8	2079.6	1600.6	1315.1	1096.5	916.1	831.3	818.2	813.4	814.6
17.5°	3234.6	2736.5	1905.2	1393.9	1095.3	856.4	764.5	759.7	762.1	762.1	762.1
20°	3306.3	2676.8	1715.2	1217.2	886.3	722.6	703.5	695.2	689.2	684.4	678.5
22.5°	3362.4	2596.8	1532.5	1041.6	723.8	661.7	631.9	605.6	584.1	569.8	562.6
25°	3400.6	2490.4	1365.3	873.1	651.0	602.0	548.3	504.1	470.6	450.3	441.9
27.5°	3429.3	2375.8	1216.0	731.0	600.8	532.7	462.3	409.7	375.1	357.1	350.0
30°	3449.6	2245.6	1084.6	642.6	544.7	459.9	384.6	333.3	308.2	298.6	293.8
32.5°	3468.7	2101.1	960.3	600.8	492.1	393.0	322.5	283.1	267.6	255.6	252.0
35°	3516.5	1967.3	842.1	556.6	438.4	335.6	277.1	248.4	232.9	225.8	223.4
37.5°	3630.0	1868.1	728.6	511.2	384.6	290.3	242.5	222.2	207.8	200.7	198.3
40°	3812.7	1818.0	633.1	462.3	332.1	255.6	219.8	200.7	185.1	174.4	172.0
42.5°	4081.5	1825.1	566.2	413.3	290.3	228.1	198.3	175.6	158.9	149.3	146.9
45°	4407.6	1877.7	519.6	365.5	255.6	206.6	174.4	150.5	135.0	126.6	124.2
47.5°	4761.1	1962.5	481.4	322.5	228.1	186.3	150.5	125.4	112.3	105.1	103.9
50°	5133.8	2044.9	441.9	280.7	204.3	166.0	126.6	103.9	93.2	87.2	84.8
52.5°	5511.2	2140.5	406.1	242.5	183.9	142.1	105.1	84.8	76.4	71.7	69.3
55°	5917.3	2212.1	371.5	212.6	163.6	120.6	87.2	70.5	63.3	57.3	56.1
57.5°	6395.1	2323.2	335.6	183.9	139.8	100.3	71.7	56.1	50.2	44.2	43.0
60°	7040.1	2453.4	297.4	162.4	114.7	82.4	58.5	45.4	38.2	33.4	32.3
62.5°	7890.6	2597.9	249.6	142.1	93.2	66.9	46.6	35.8	27.5	21.5	21.5
65°	8969.2	2833.3	204.3	119.4	76.4	54.9	35.8	26.3	15.5	9.6	9.6
67.5°	9598.7	2873.9	164.8	97.9	62.1	46.6	29.9	17.9	4.8	1.2	0.0
69°	9396.8	2638.6	139.8	83.6	53.8	44.2	27.5	13.1	2.4	0.0	0.0
70°	9017.0	2412.8	123.0	74.1	49.0	41.8	26.3	9.6	2.4	0.0	0.0
72.5°	7451.0	1717.6	93.2	54.9	35.8	37.0	23.9	6.0	2.4	0.0	0.0
75°	5427.6	1044.0	66.9	38.2	22.7	27.5	16.7	2.4	1.2	0.0	0.0
77.5°	3019.6	492.1	41.8	21.5	14.3	16.7	8.4	0.0	0.0	0.0	0.0
80°	980.7	133.8	19.1	11.9	8.4	9.6	3.6	0.0	0.0	0.0	0.0
82.5°	181.6	38.2	10.8	6.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	39.4	15.5	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)