

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: P322032

Luminaire Tested: **GAN-SA8A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322032
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-SA8A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 19532 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 257
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

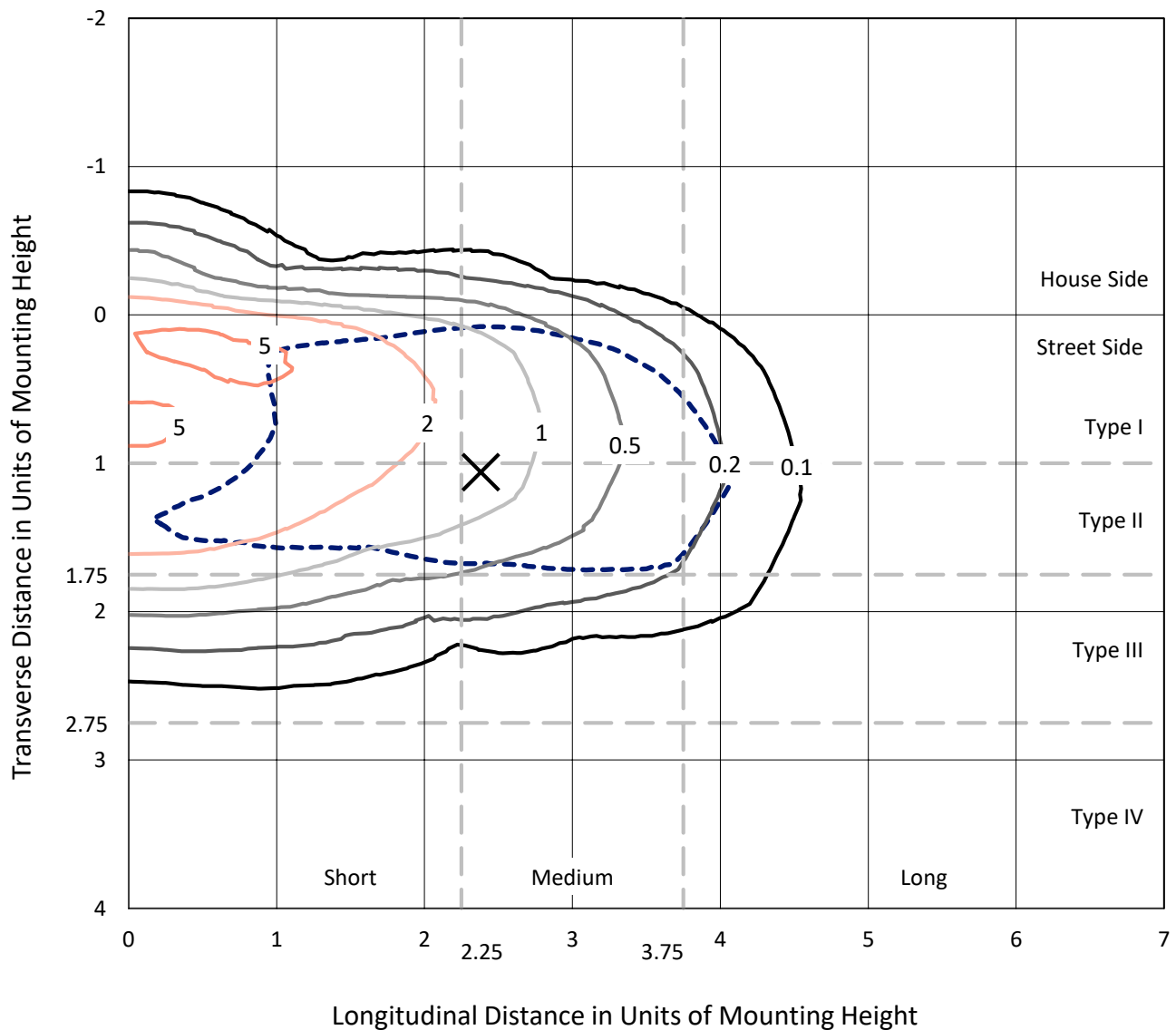


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Iso-Footcandle Lines of Horizontal Illumination

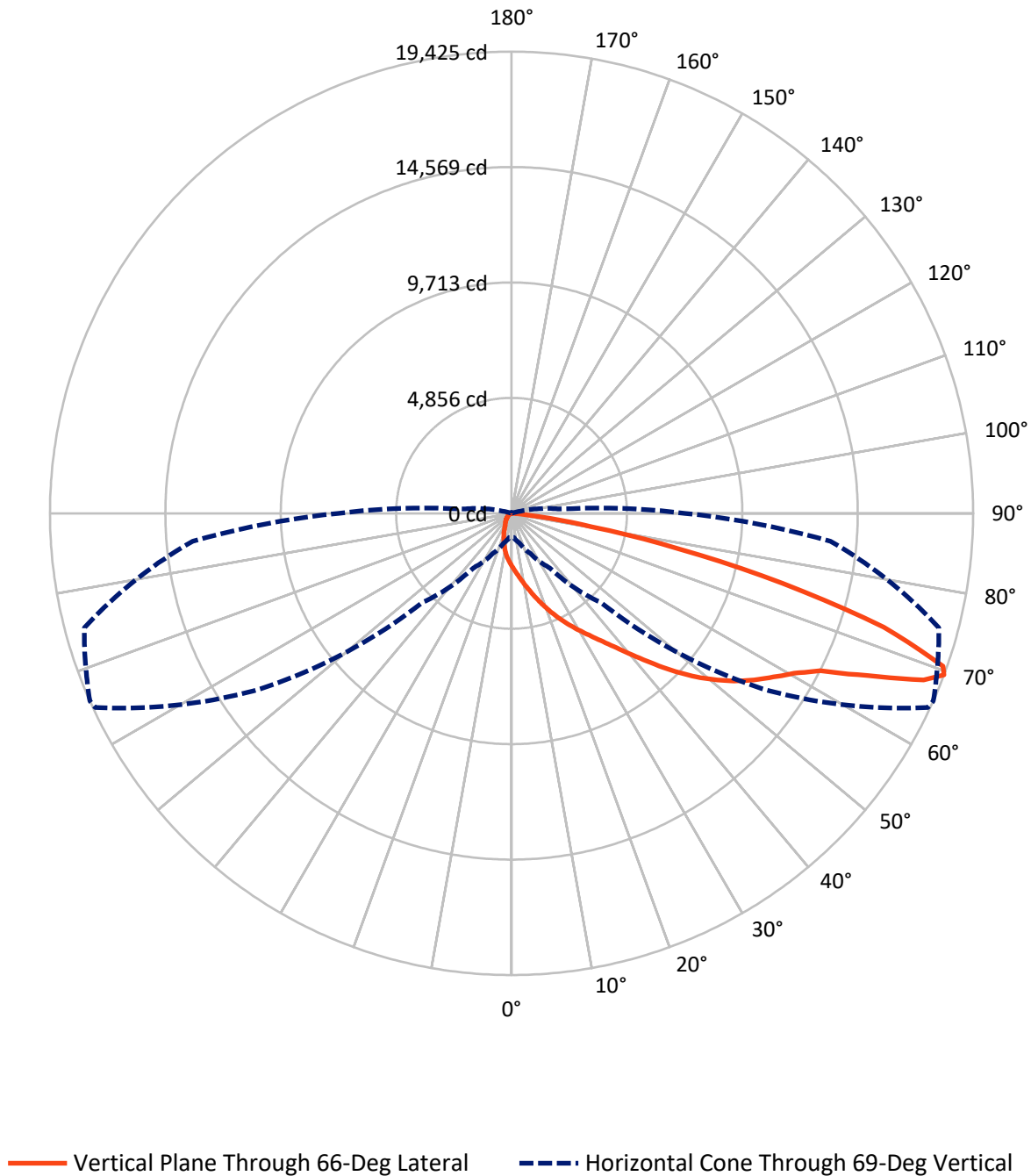
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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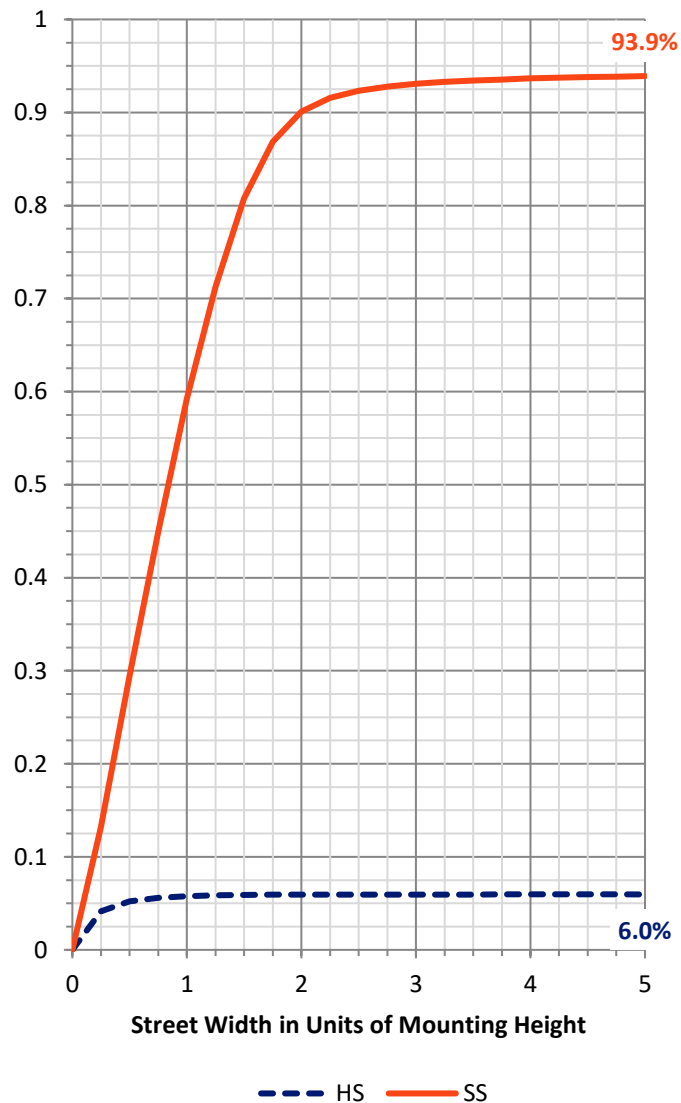
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1171.7	0.0	1171.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	18360.4	0.0	18360.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	19532.0	0.0	19532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	1.1
10°-20°	639.5	3.3
20°-30°	1113.6	5.7
30°-40°	1953.7	10.0
40°-50°	3270.2	16.7
50°-60°	4807.0	24.6
60°-70°	4935.5	25.3
70°-80°	2436.5	12.5
80°-90°	161.1	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°	19532.0	100.0
0°-180°	19532.0	100.0

Coefficient of Utilization



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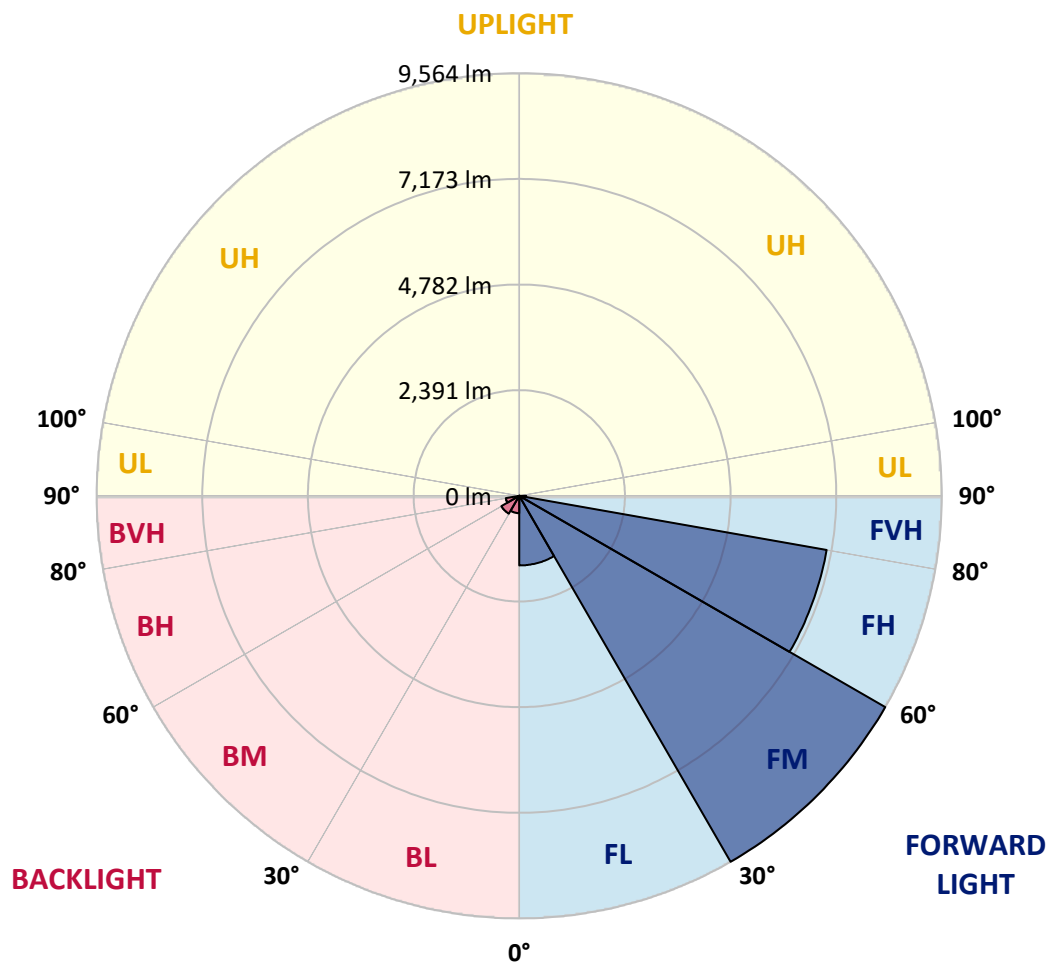
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.0	8.1			
FM	(30°-60°)	9563.8	49.0			
FH	(60°-80°)	7063.3	36.2			G3/7500
FVH	(80°-90°)	157.2	0.8			G2/225
BL	(0°-30°)	391.8	2.0	B1/500		
BM	(30°-60°)	467.1	2.4	B1/1000		
BH	(60°-80°)	308.8	1.6	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8
2.5°	2616.2	2605.0	2600.4	2580.0	2544.7	2517.8	2465.9	2405.6	2394.4	2336.0	2264.6
5°	2955.7	2946.4	2939.9	2911.2	2875.0	2807.3	2712.6	2600.4	2579.0	2467.7	2324.9
7.5°	3192.3	3209.0	3209.0	3190.4	3145.0	3093.9	2978.0	2824.9	2798.0	2627.3	2405.6
10°	3330.5	3350.9	3366.7	3382.4	3376.0	3355.5	3246.1	3073.5	3041.0	2814.7	2499.3
12.5°	3343.5	3363.9	3408.4	3474.3	3538.3	3584.7	3516.0	3349.0	3311.9	3031.8	2610.6
15°	3271.1	3292.5	3361.1	3489.1	3644.1	3779.5	3801.8	3654.3	3616.2	3290.6	2749.7
17.5°	3145.0	3158.9	3257.2	3434.4	3677.5	3926.1	4060.6	3981.8	3946.5	3586.5	2904.7
20°	3051.3	3061.5	3147.7	3337.9	3657.1	4017.9	4305.5	4329.6	4292.5	3903.8	3072.6
22.5°	3211.7	3230.3	3233.1	3323.1	3601.4	4063.4	4520.8	4672.0	4644.1	4240.6	3237.7
25°	3650.6	3671.9	3601.4	3545.7	3648.7	4083.8	4705.4	5022.6	5000.4	4603.3	3403.8
27.5°	4230.4	4252.6	4161.7	3995.7	3896.4	4160.8	4869.6	5378.9	5378.0	4987.4	3582.8
30°	4800.0	4822.3	4729.5	4563.4	4335.2	4378.8	5011.5	5751.8	5757.4	5383.5	3773.0
32.5°	5397.4	5425.3	5329.7	5116.3	4877.9	4755.5	5211.0	6126.6	6158.2	5842.7	3987.3
35°	6076.5	6080.2	5945.7	5722.1	5447.5	5259.2	5531.0	6546.9	6622.0	6411.4	4259.1
37.5°	6742.6	6769.5	6659.1	6306.6	6054.3	5840.9	6007.0	7072.0	7178.7	7106.3	4614.5
40°	7236.2	7292.8	7277.0	6896.6	6657.3	6505.1	6597.9	7696.3	7831.8	7915.3	5062.5
42.5°	7546.0	7588.7	7661.1	7431.9	7214.8	7239.9	7295.5	8423.6	8590.6	8837.4	5577.4
45°	7901.3	7921.8	7982.1	7880.9	7734.4	7986.7	8035.9	9242.8	9418.2	9829.1	6148.9
47.5°	8335.5	8383.8	8400.5	8307.7	8240.9	8647.2	8749.3	9987.8	10233.6	10891.4	6753.8
50°	8888.4	8901.4	8930.2	8869.9	8803.1	9215.0	9389.4	10769.8	10993.4	11957.3	7350.3
52.5°	9429.3	9475.7	9575.9	9537.8	9510.9	9698.3	9959.9	11474.9	11724.5	12846.1	7945.9
55°	9585.1	9625.0	9971.1	10207.6	10426.6	10293.9	10505.4	12106.7	12376.6	13640.2	8519.2
57.5°	8962.7	9043.4	9642.7	10258.7	11166.9	11219.8	11255.0	12755.1	12997.3	14248.8	9115.7
60°	7389.2	7405.0	8388.4	9445.1	11044.4	12027.8	12349.7	13451.9	13655.0	14815.6	9830.1
62.5°	4699.8	4860.3	5939.2	7431.0	9749.4	11910.9	13673.6	14505.7	14580.0	15495.6	10854.3
65°	2238.6	2342.5	3119.9	4591.3	7061.8	10414.5	14587.4	16412.2	16445.6	16843.6	12222.6
67.5°	1239.4	1289.5	1659.7	2471.4	4128.3	7365.1	14218.2	18670.3	18701.8	18220.3	13423.1
69°	969.5	1012.1	1303.4	1862.9	2798.9	5293.5	12866.5	19331.7	19425.4	18614.6	13465.8
70°	822.9	864.6	1122.5	1573.4	2250.6	4090.3	11452.6	19167.5	19266.8	18577.5	13147.6
72.5°	503.7	527.9	747.7	1107.7	1508.5	2057.7	7062.7	16210.0	16377.9	17041.2	11299.6
75°	339.5	352.5	467.6	764.4	1078.9	1059.5	3669.1	11425.7	11789.4	13256.1	8345.7
77.5°	243.1	255.1	313.6	494.5	756.1	699.5	1661.5	7100.7	7178.7	7950.5	4551.4
80°	138.2	149.4	221.7	294.1	513.0	466.6	660.5	3391.7	3430.7	3409.4	1519.6
82.5°	72.4	81.6	121.5	193.9	329.3	305.2	274.6	1135.5	1141.1	949.1	333.0
85°	13.9	16.7	60.3	132.7	169.8	132.7	112.3	266.3	271.8	240.3	82.6
87.5°	0.0	0.9	24.1	29.7	33.4	34.3	36.2	52.0	55.7	75.1	22.3
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°	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8
2.5°	2233.0	2199.6	2135.6	2061.4	2003.9	1947.3	1902.7	1856.4	1839.7	1831.3	1830.4
5°	2255.3	2184.8	2049.3	1910.2	1796.1	1688.4	1611.4	1538.2	1503.8	1488.1	1481.6
7.5°	2292.4	2179.2	1961.2	1748.7	1584.5	1450.0	1343.3	1263.5	1223.7	1207.0	1200.5
10°	2336.0	2171.8	1858.2	1578.0	1368.4	1229.2	1123.5	1044.6	1001.0	982.4	973.2
12.5°	2387.0	2158.8	1739.5	1405.5	1183.8	1044.6	916.6	819.2	769.1	747.7	737.5
15°	2450.1	2145.8	1615.2	1243.1	1021.4	851.6	711.6	645.7	635.5	631.8	632.7
17.5°	2512.3	2125.4	1479.7	1082.6	850.7	665.2	593.7	590.0	591.9	591.9	591.9
20°	2567.9	2079.0	1332.2	945.3	688.4	561.3	546.4	539.9	535.3	531.6	526.9
22.5°	2611.5	2016.9	1190.3	809.0	562.2	514.0	490.8	470.4	453.7	442.5	437.0
25°	2641.2	1934.3	1060.4	678.2	505.6	467.6	425.8	391.5	365.5	349.7	343.3
27.5°	2663.5	1845.2	944.4	567.8	466.6	413.8	359.0	318.2	291.3	277.4	271.8
30°	2679.2	1744.1	842.4	499.1	423.0	357.2	298.7	258.8	239.4	231.9	228.2
32.5°	2694.1	1631.9	745.9	466.6	382.2	305.2	250.5	219.9	207.8	198.5	195.7
35°	2731.2	1527.9	654.0	432.3	340.5	260.7	215.2	193.0	180.9	175.3	173.5
37.5°	2819.3	1450.9	565.9	397.1	298.7	225.4	188.3	172.6	161.4	155.9	154.0
40°	2961.3	1412.0	491.7	359.0	257.9	198.5	170.7	155.9	143.8	135.4	133.6
42.5°	3170.0	1417.5	439.7	321.0	225.4	177.2	154.0	136.4	123.4	116.0	114.1
45°	3423.3	1458.4	403.6	283.9	198.5	160.5	135.4	116.9	104.8	98.3	96.5
47.5°	3697.9	1524.2	373.9	250.5	177.2	144.7	116.9	97.4	87.2	81.6	80.7
50°	3987.3	1588.2	343.3	218.0	158.6	129.0	98.3	80.7	72.4	67.7	65.9
52.5°	4280.5	1662.5	315.4	188.3	142.9	110.4	81.6	65.9	59.4	55.7	53.8
55°	4595.9	1718.1	288.5	165.1	127.1	93.7	67.7	54.7	49.2	44.5	43.6
57.5°	4967.0	1804.4	260.7	142.9	108.5	77.9	55.7	43.6	39.0	34.3	33.4
60°	5468.0	1905.5	231.0	126.2	89.1	64.0	45.5	35.3	29.7	26.0	25.0
62.5°	6128.5	2017.8	193.9	110.4	72.4	52.0	36.2	27.8	21.3	16.7	16.7
65°	6966.2	2200.5	158.6	92.8	59.4	42.7	27.8	20.4	12.1	7.4	7.4
67.5°	7455.1	2232.1	128.0	76.1	48.2	36.2	23.2	13.9	3.7	0.9	0.0
69°	7298.3	2049.3	108.5	64.9	41.7	34.3	21.3	10.2	1.9	0.0	0.0
70°	7003.3	1874.0	95.6	57.5	38.0	32.5	20.4	7.4	1.9	0.0	0.0
72.5°	5787.1	1334.1	72.4	42.7	27.8	28.8	18.6	4.6	1.9	0.0	0.0
75°	4215.5	810.8	52.0	29.7	17.6	21.3	13.0	1.9	0.9	0.0	0.0
77.5°	2345.3	382.2	32.5	16.7	11.1	13.0	6.5	0.0	0.0	0.0	0.0
80°	761.7	103.9	14.8	9.3	6.5	7.4	2.8	0.0	0.0	0.0	0.0
82.5°	141.0	29.7	8.3	4.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	30.6	12.1	4.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.7	0.9	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)