

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: P318583

Luminaire Tested: **GAN-SA9D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55133 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

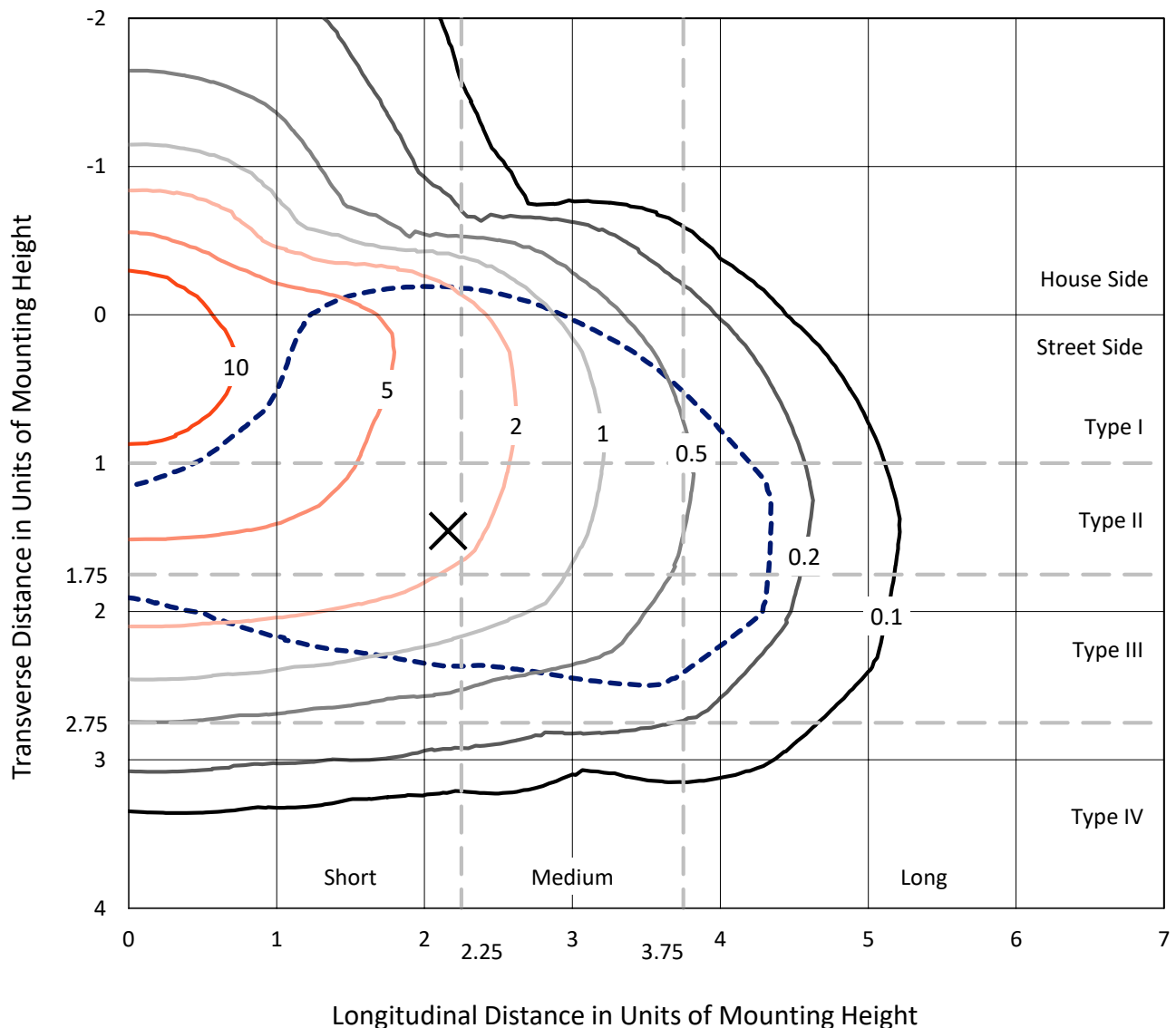
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

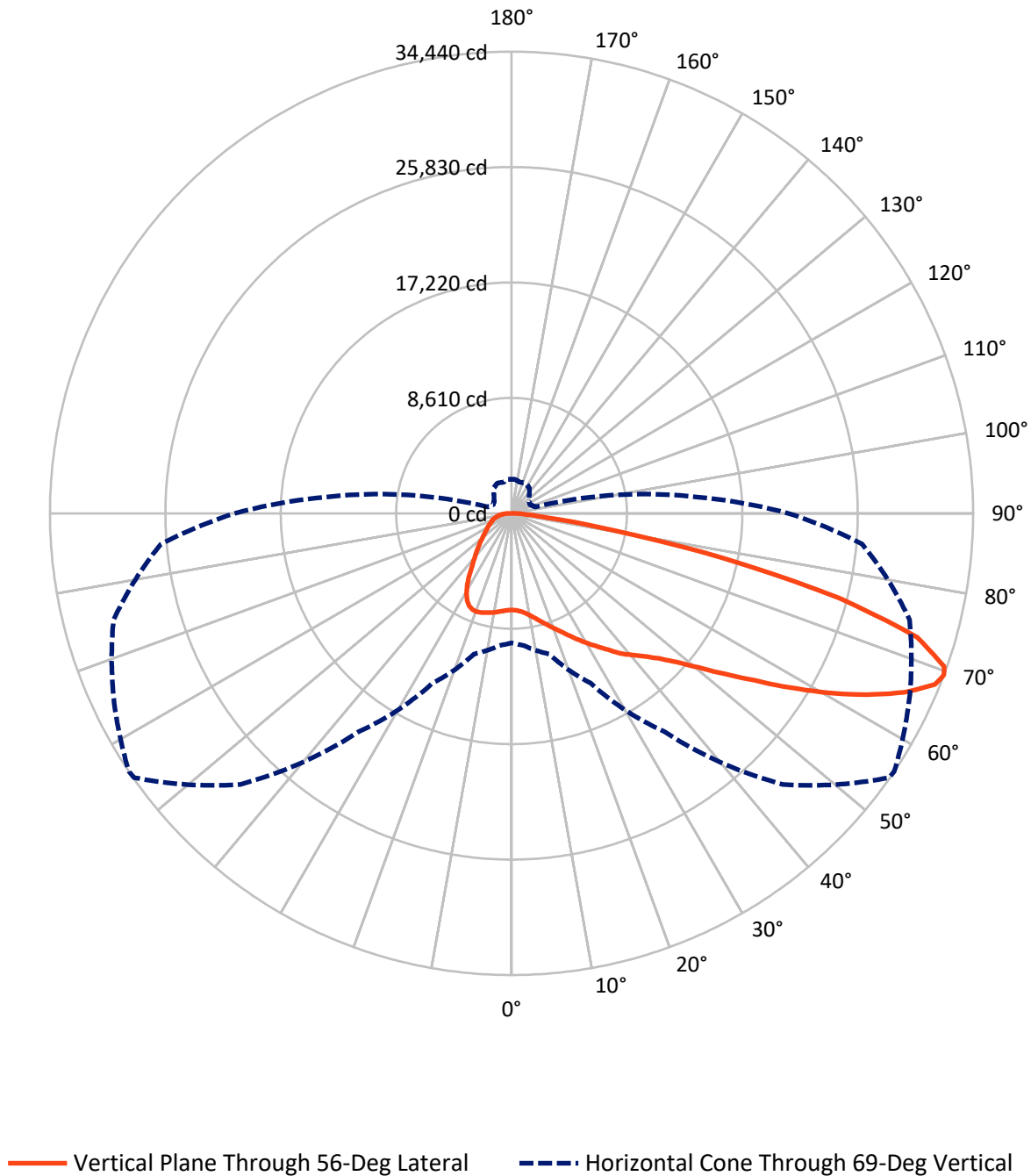
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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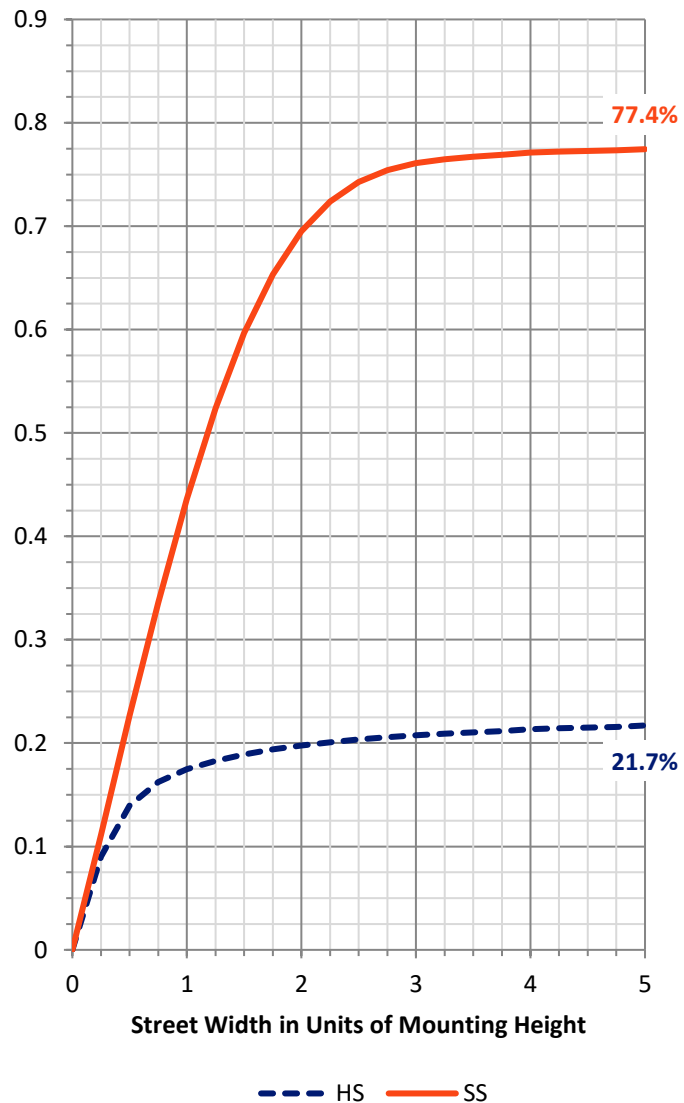
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12278.0	0.0	12278.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	42855.0	0.0	42855.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	55133.0	0.0	55133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.9	1.3
10°-20°	2276.4	4.1
20°-30°	3973.7	7.2
30°-40°	5708.1	10.4
40°-50°	7899.7	14.3
50°-60°	11574.1	21.0
60°-70°	14111.1	25.6
70°-80°	7801.5	14.2
80°-90°	1080.5	2.0
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°	55133.0	100.0
0°-180°	55133.0	100.0

Coefficient of Utilization



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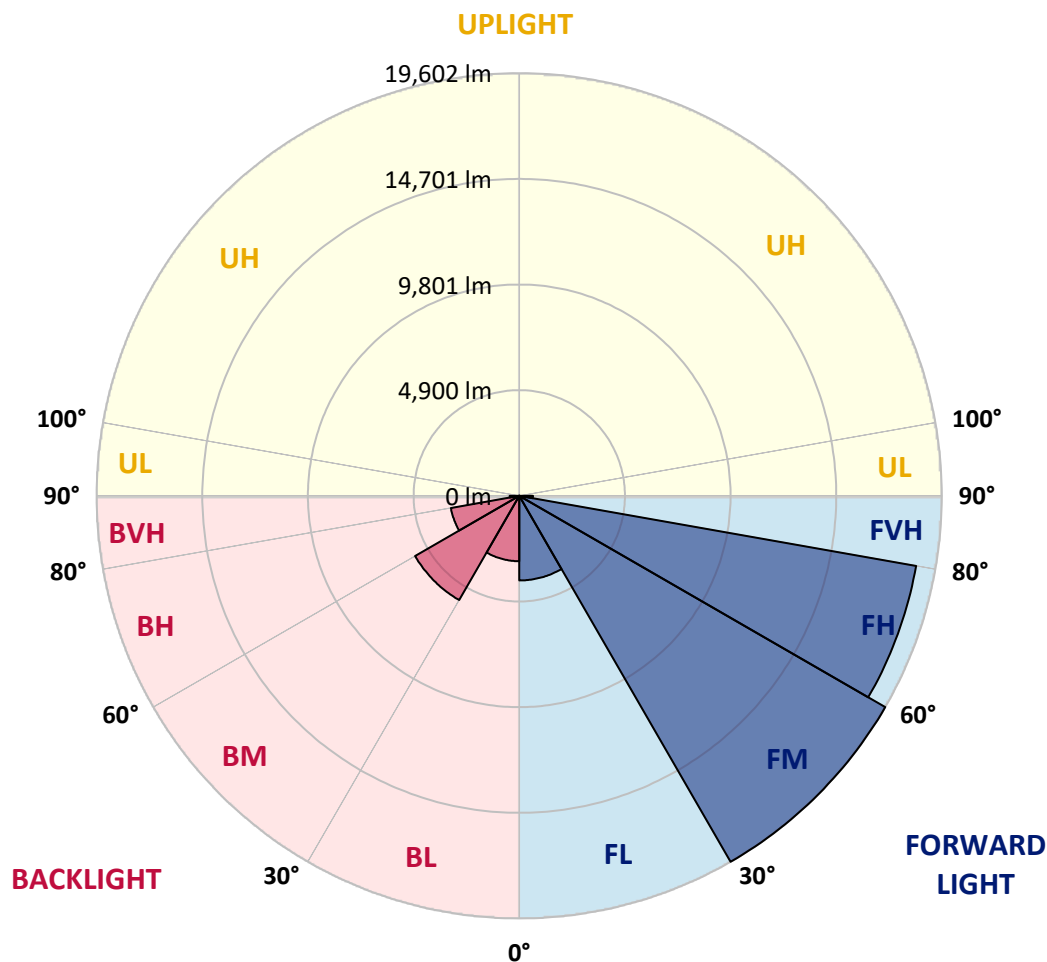
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3923.8	7.1			
FM	(30°-60°)	19601.8	35.6			
FH	(60°-80°)	18692.9	33.9			G5
FVH	(80°-90°)	636.5	1.2			G4/750
BL	(0°-30°)	3034.2	5.5	B4/5000		
BM	(30°-60°)	5580.1	10.1	B4/8500		
BH	(60°-80°)	3219.7	5.8	B4/5000		G4/5000
BVH	(80°-90°)	444.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	7253.4	7261.0	7255.3	7270.5	7253.4	7264.8	7255.3	7255.3	7249.6	7232.5	7213.5
5°	7367.4	7382.5	7373.0	7388.2	7367.4	7371.1	7354.1	7354.1	7337.0	7300.9	7262.9
7.5°	7545.9	7563.0	7555.4	7570.6	7542.1	7542.1	7519.3	7517.4	7483.2	7424.3	7380.6
10°	7758.6	7781.4	7773.8	7796.6	7773.8	7781.4	7758.6	7758.6	7713.0	7629.5	7574.4
12.5°	8068.2	8096.7	8075.8	8073.9	8064.4	8079.6	8060.6	8056.8	8015.0	7901.1	7825.1
15°	8482.2	8512.6	8468.9	8465.1	8412.0	8406.3	8406.3	8400.6	8374.0	8237.2	8111.9
17.5°	8959.0	8968.5	8930.5	8869.7	8801.3	8757.6	8751.9	8767.1	8767.1	8607.6	8408.2
20°	9426.2	9443.3	9412.9	9344.5	9257.1	9192.6	9147.0	9177.4	9175.5	8985.5	8702.6
22.5°	9935.2	9975.1	9929.5	9842.1	9739.6	9667.4	9587.6	9614.2	9616.1	9382.5	8991.2
25°	10594.2	10558.2	10529.7	10406.2	10260.0	10185.9	10111.8	10138.4	10130.8	9809.8	9289.4
27.5°	11177.3	11184.9	11146.9	11015.9	10846.9	10683.5	10679.7	10696.8	10668.3	10254.3	9570.5
30°	11855.4	11859.2	11806.0	11688.2	11504.0	11293.2	11243.8	11272.3	11211.5	10675.9	9866.8
32.5°	12529.6	12548.6	12489.7	12347.3	12199.1	11942.7	11844.0	11863.0	11711.0	11107.1	10172.6
35°	13120.3	13146.9	13127.9	13032.9	12871.5	12651.2	12533.4	12522.0	12334.0	11635.1	10577.2
37.5°	13722.4	13747.1	13726.2	13646.4	13581.8	13348.2	13285.5	13285.5	12958.9	12174.5	11091.9
40°	14341.5	14379.5	14354.8	14244.7	14189.6	14083.2	13933.2	13897.1	13543.8	12822.1	11931.3
42.5°	14917.0	14966.4	15065.2	15000.6	14888.5	14903.7	14601.8	14582.8	14324.5	13779.4	12985.5
45°	15733.7	15805.9	15973.0	15923.7	15900.9	15817.3	15458.3	15441.2	15342.5	15067.1	14294.1
47.5°	16624.5	16723.3	17025.2	17034.7	17279.8	17122.1	16634.0	16575.1	16597.9	16609.3	15891.4
50°	17445.0	17553.2	18049.0	18282.6	18860.0	18894.1	18113.5	18060.4	18149.6	18411.7	17752.7
52.5°	18100.2	18237.0	18856.2	19577.9	20567.4	20848.5	19935.0	19895.1	19961.5	20413.6	19857.1
55°	18580.8	18728.9	19403.2	20717.5	22297.7	22793.4	22031.8	21993.8	22035.6	22611.1	22145.7
57.5°	18692.8	18728.9	19707.0	21484.8	23758.2	24949.1	24597.7	24521.7	24316.6	24818.0	24671.8
60°	18166.7	18311.1	19456.3	21754.5	24888.3	27074.4	27279.5	27184.6	26609.1	27019.3	26901.6
62.5°	17099.3	17357.6	18520.0	21344.2	25330.8	28810.3	29910.0	29796.1	28804.6	29070.6	28504.6
65°	15355.8	15465.9	16687.2	19929.3	24768.7	29921.4	32255.7	32198.7	30950.8	30534.9	28800.9
67.5°	12237.1	12444.2	13481.2	16972.1	22468.6	29790.4	34069.5	34063.8	32352.5	31078.1	27750.5
69°	9667.4	9882.0	10869.6	13980.7	19881.8	28591.9	34373.4	34439.8	32747.6	30747.6	26250.1
70°	7707.3	7956.1	8634.2	11775.6	17585.5	27011.7	34120.8	34240.4	32671.6	30202.5	24865.5
72.5°	3280.1	3481.4	3963.8	6070.1	10717.7	20170.5	31197.8	31649.8	30911.0	27642.3	20550.3
75°	1432.1	1494.7	1713.2	2474.8	4757.7	10977.9	24440.1	25275.8	26430.5	23365.1	15308.3
77.5°	1048.4	1075.0	1194.7	1453.0	2134.8	4146.2	15716.6	16202.9	19061.3	17002.5	9390.1
80°	811.0	830.0	923.1	1067.4	1394.1	1677.1	7167.9	7585.8	10717.7	8732.9	3910.6
82.5°	645.8	659.1	723.6	786.3	962.9	1016.1	2379.8	2640.0	3956.2	2412.1	1035.1
85°	600.2	615.4	638.2	573.6	617.3	596.4	1029.4	1076.9	1194.7	947.7	433.0
87.5°	271.6	321.0	632.5	446.3	328.6	262.1	421.6	440.6	495.7	497.6	191.8
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°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	7224.9	7219.2	7228.7	7205.9	7234.4	7232.5	7223.0	7226.8	7245.8	7243.9	7245.8
5°	7268.6	7264.8	7276.2	7259.1	7293.3	7304.7	7306.6	7323.7	7344.6	7350.3	7350.3
7.5°	7378.7	7378.7	7384.4	7361.7	7384.4	7382.5	7373.0	7390.1	7411.0	7412.9	7411.0
10°	7568.7	7570.6	7561.1	7502.2	7483.2	7431.9	7384.4	7386.3	7412.9	7433.8	7439.5
12.5°	7808.0	7800.4	7758.6	7650.3	7570.6	7466.1	7416.7	7414.8	7441.4	7458.5	7464.2
15°	8081.5	8060.6	7952.3	7775.7	7635.2	7532.6	7452.8	7433.8	7418.6	7399.6	7401.5
17.5°	8339.8	8292.3	8111.9	7866.9	7718.7	7582.0	7428.1	7304.7	7219.2	7169.8	7154.6
20°	8601.9	8508.8	8248.6	7952.3	7764.3	7515.5	7219.2	6968.5	6812.8	6740.6	6727.3
22.5°	8841.2	8691.2	8375.9	8041.6	7728.2	7291.4	6826.1	6461.4	6244.9	6148.0	6155.6
25°	9074.8	8865.9	8508.8	8104.3	7545.9	6896.3	6279.1	5830.8	5580.1	5471.9	5468.1
27.5°	9279.9	9042.5	8653.2	8053.0	7205.9	6334.1	5631.4	5194.6	4985.6	4892.6	4877.4
30°	9515.4	9264.7	8845.0	7857.4	6708.3	5684.6	4998.9	4691.2	4543.1	4450.0	4432.9
32.5°	9802.2	9566.7	9002.6	7502.2	6072.0	5006.5	4505.1	4290.5	4155.6	4051.2	4032.2
35°	10220.1	9965.6	9042.5	6993.2	5373.1	4470.9	4142.4	3922.0	3739.7	3604.9	3591.6
37.5°	10744.3	10465.1	8951.4	6334.1	4695.0	4123.4	3840.4	3568.8	3331.4	3141.4	3111.0
40°	11500.2	11078.6	8698.8	5574.4	4195.5	3855.6	3546.0	3236.4	2942.0	2719.8	2676.1
42.5°	12408.1	11798.4	8311.3	4818.5	3829.0	3584.0	3253.5	2869.8	2588.7	2431.1	2408.3
45°	13562.8	12546.7	7773.8	4157.5	3468.1	3312.4	2938.2	2584.9	2410.2	2294.3	2275.4
47.5°	14880.9	13386.2	7209.7	3620.0	3162.3	3057.9	2685.6	2457.7	2319.0	2227.9	2210.8
50°	16501.0	14334.0	6611.4	3179.4	2854.6	2752.1	2565.9	2387.4	2277.3	2207.0	2189.9
52.5°	18328.2	15403.3	6180.3	2831.8	2600.1	2526.1	2503.3	2349.4	2260.2	2207.0	2189.9
55°	20295.8	16491.5	5715.0	2539.4	2379.8	2400.7	2461.5	2353.2	2292.4	2227.9	2203.2
57.5°	22265.4	17615.9	5196.5	2292.4	2205.1	2307.6	2433.0	2360.8	2309.5	2246.9	2224.1
60°	23822.8	18328.2	4393.1	2085.4	2066.4	2205.1	2364.6	2303.8	2237.4	2239.3	2235.5
62.5°	24550.2	18290.2	3506.1	1901.2	1927.8	2066.4	2254.5	2214.6	2159.5	2233.6	2239.3
65°	24141.9	17378.5	2729.3	1734.1	1779.6	1922.1	2140.5	2170.9	2189.9	2332.3	2351.3
67.5°	22428.7	15604.6	2113.9	1587.8	1644.8	1823.3	2151.9	2364.6	2389.3	2539.4	2537.5
69°	20656.7	13940.8	1836.6	1511.8	1578.3	1848.0	2300.0	2488.1	2395.0	2554.5	2531.8
70°	19171.4	12624.6	1688.5	1460.6	1547.9	1891.7	2398.8	2486.2	2366.5	2503.3	2465.3
72.5°	14765.1	9082.4	1432.1	1365.6	1445.4	1810.0	2427.3	2431.1	2300.0	2326.6	2262.1
75°	10127.0	5739.7	1249.7	1236.4	1289.6	1631.5	2336.1	2322.8	2127.2	2089.2	2036.0
77.5°	5583.9	2915.4	1061.7	1113.0	1149.1	1445.4	2123.4	2104.4	1943.0	1863.2	1844.2
80°	2153.8	1276.3	896.5	989.5	1012.3	1251.6	1861.3	1844.2	1709.4	1606.8	1578.3
82.5°	812.9	668.6	740.7	856.6	849.0	1033.2	1576.4	1566.9	1435.9	1285.8	1240.2
85°	376.1	400.8	586.9	706.5	651.5	765.4	1261.1	1278.2	1118.7	940.1	940.1
87.5°	159.5	224.1	415.9	533.7	438.7	516.6	925.0	883.2	811.0	562.2	528.0
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)