

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: P318174

Luminaire Tested: **GAN-SA0C-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68701 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

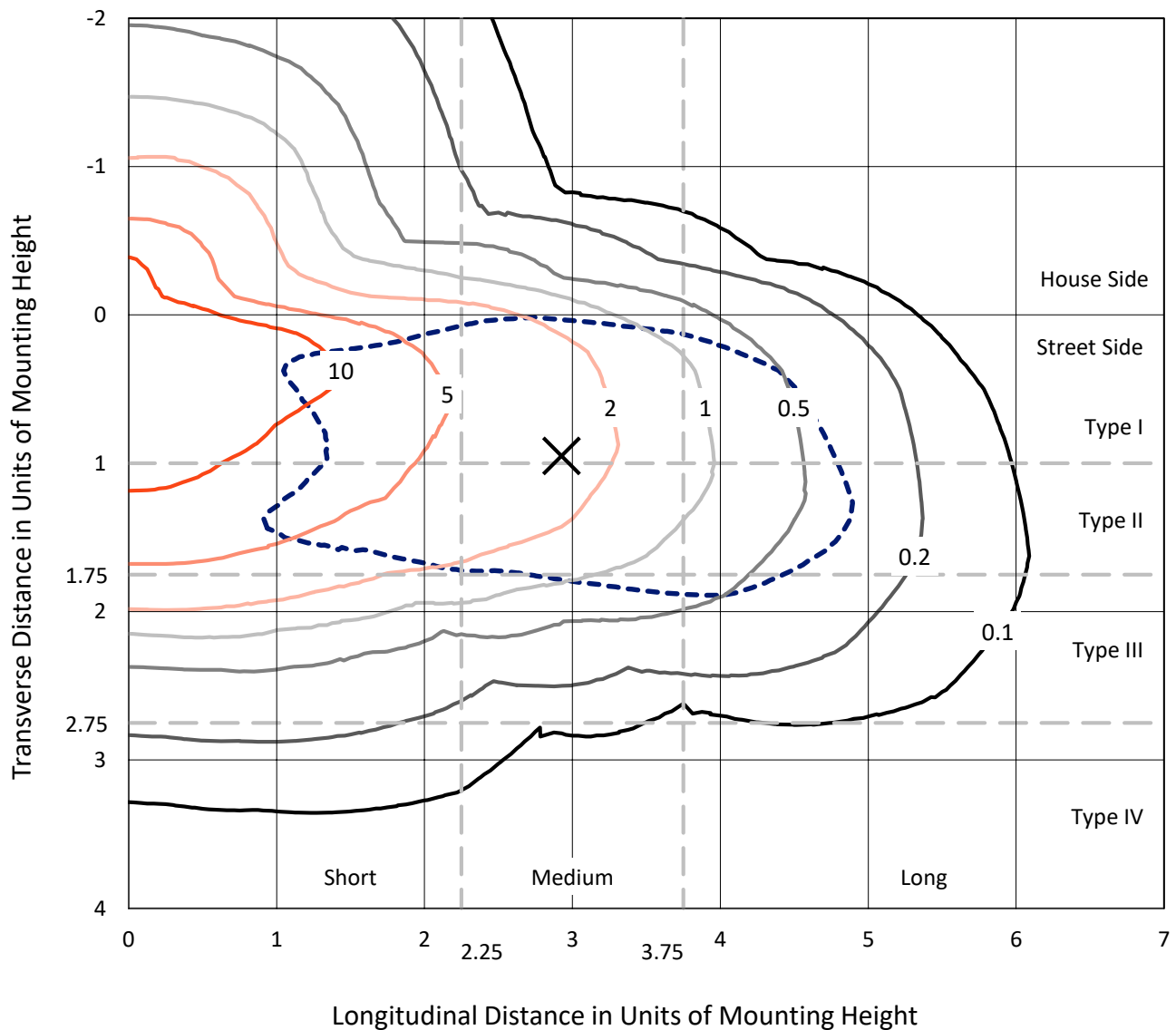


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Iso-Footcandle Lines of Horizontal Illumination

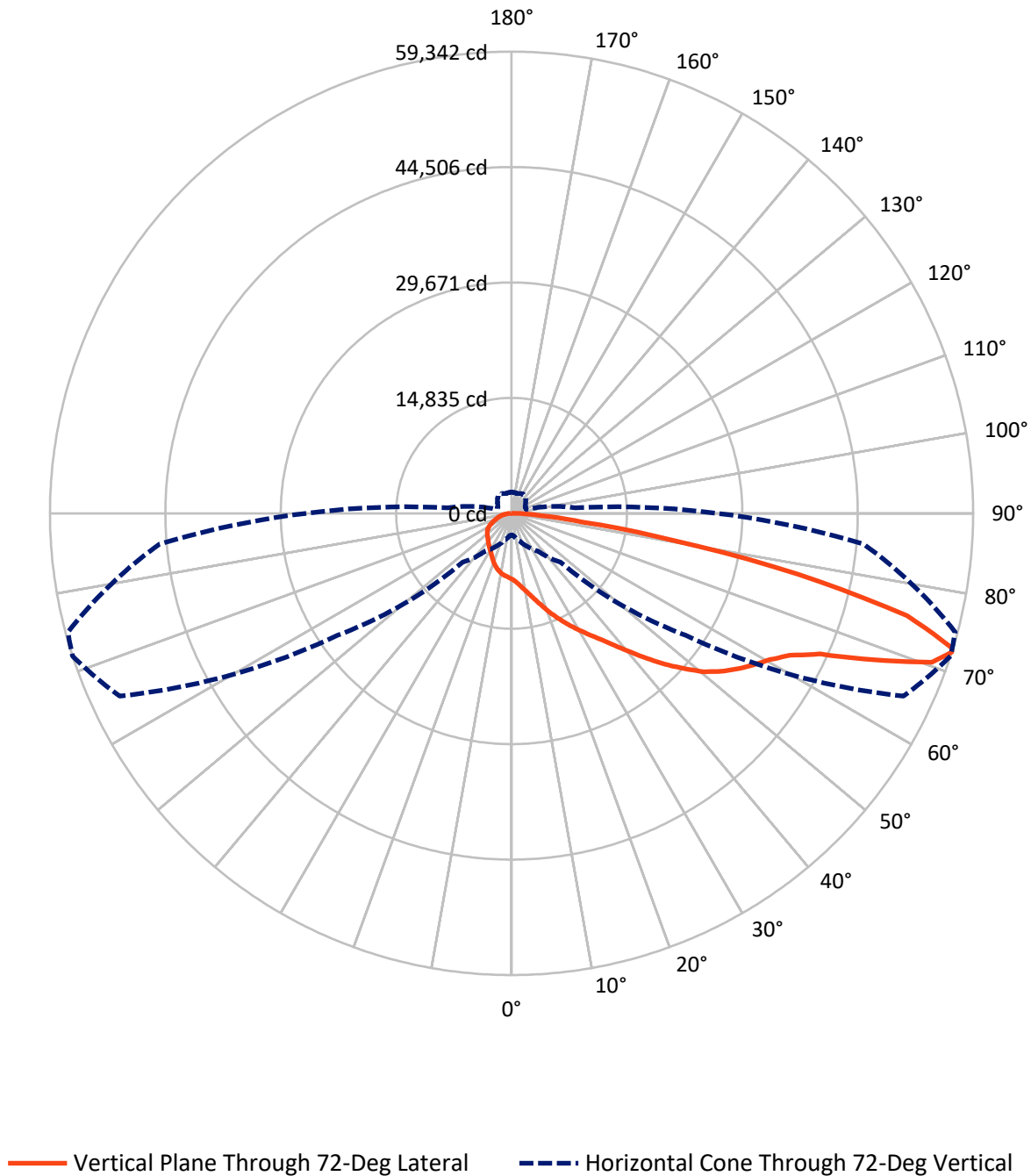
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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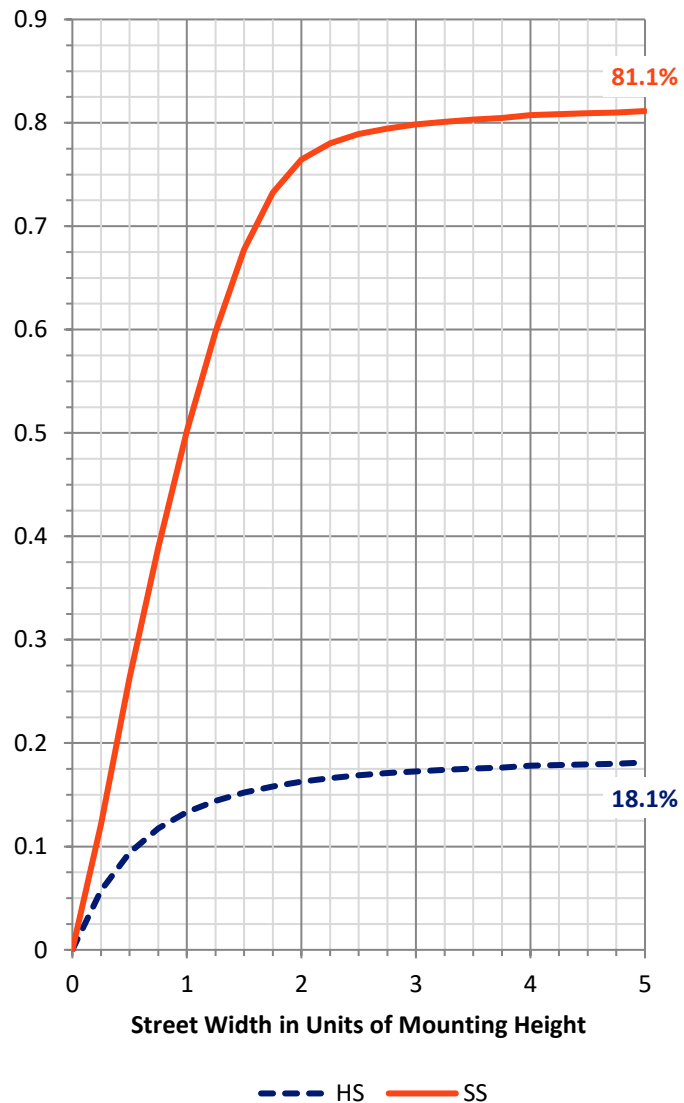
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12744.5	0.0	12744.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	55956.5	0.0	55956.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	68701.0	0.0	68701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.9	1.2
10°-20°	2736.8	4.0
20°-30°	4795.8	7.0
30°-40°	7110.6	10.4
40°-50°	10399.9	15.1
50°-60°	14310.1	20.8
60°-70°	15931.4	23.2
70°-80°	10795.1	15.7
80°-90°	1774.3	2.6
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°	68701.0	100.0
0°-180°	68701.0	100.0

Coefficient of Utilization



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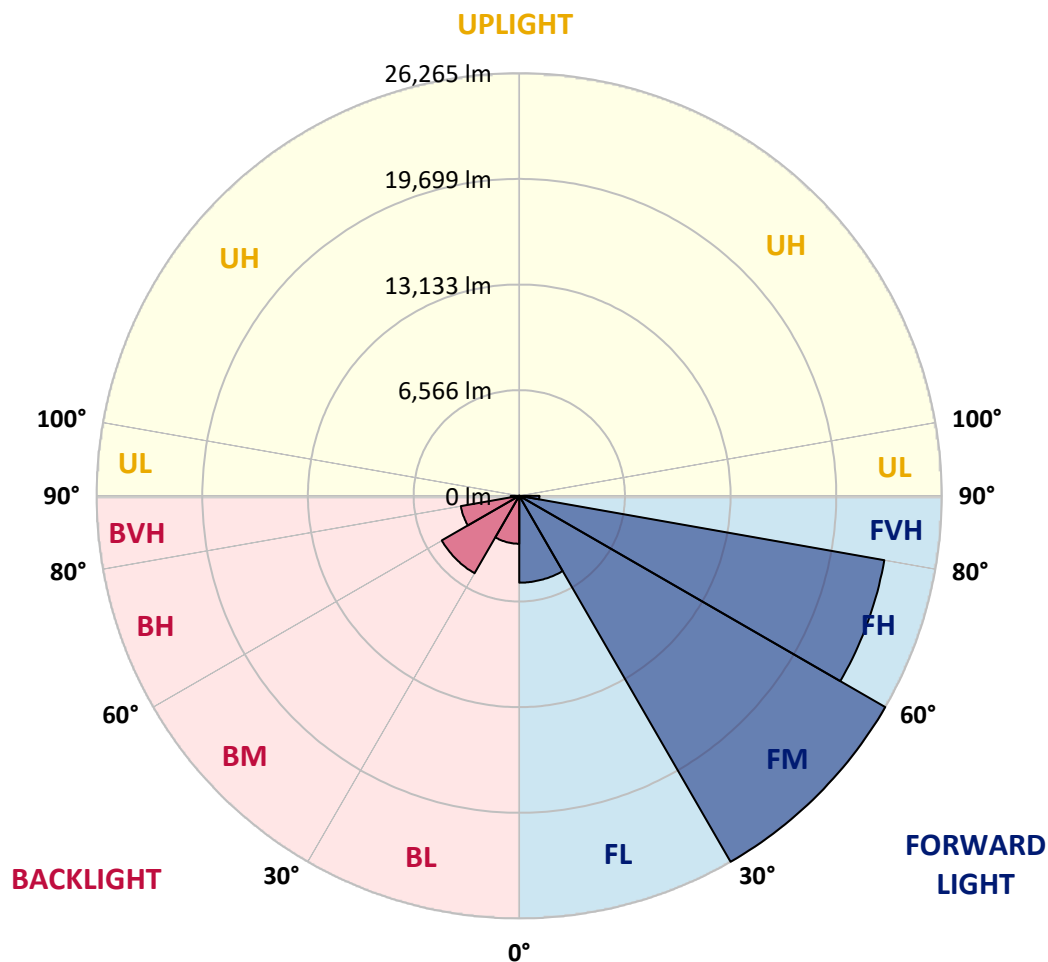
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5400.3	7.9			
FM	(30°-60°)	26265.2	38.2			
FH	(60°-80°)	23039.4	33.5			G5
FVH	(80°-90°)	1251.5	1.8			G5
BL	(0°-30°)	2979.2	4.3	B4/5000		
BM	(30°-60°)	5555.4	8.1	B4/8500		
BH	(60°-80°)	3687.2	5.4	B4/5000		G4/5000
BVH	(80°-90°)	522.7	0.8			G4/750
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0
2.5°	9336.7	9322.5	9272.9	9272.9	9178.2	9097.8	8946.4	8844.7	8724.1	8681.5	8539.5
5°	10240.4	10245.1	10183.6	10141.0	10001.4	9831.1	9573.3	9339.1	9104.9	9010.3	8719.3
7.5°	10999.7	10990.2	10973.7	10938.2	10808.1	10633.0	10285.3	9937.6	9592.2	9450.3	8948.8
10°	11487.0	11508.3	11522.5	11539.0	11484.6	11359.2	11030.4	10607.0	10155.2	9961.2	9223.2
12.5°	11733.0	11770.8	11837.1	11950.6	12040.5	12026.3	11787.4	11338.0	10801.0	10557.3	9566.2
15°	11877.3	11927.0	12031.1	12234.5	12487.6	12631.9	12568.0	12161.2	11562.7	11262.3	9984.9
17.5°	11967.2	12007.4	12168.3	12440.3	12816.4	13199.6	13367.6	13026.9	12423.7	12080.7	10465.1
20°	12028.7	12059.4	12260.5	12579.9	13067.2	13677.5	14145.8	14060.7	13372.3	12927.6	10966.6
22.5°	12165.9	12191.9	12383.5	12705.2	13244.6	14032.3	14895.7	15023.4	14372.9	13869.1	11503.5
25°	12549.1	12549.1	12710.0	12934.7	13440.9	14339.8	15529.7	16095.0	15394.8	14808.2	12000.3
27.5°	13280.0	13273.0	13332.1	13410.2	13793.4	14652.1	16095.0	17041.2	16454.6	15813.5	12482.9
30°	14145.8	14193.1	14200.2	14162.4	14342.2	15042.4	16617.8	18039.5	17521.4	16830.7	12977.3
32.5°	15260.0	15290.7	15255.3	15129.9	15103.9	15595.9	17131.1	19085.0	18675.8	17892.8	13429.1
35°	16674.6	16615.4	16504.3	16248.8	16005.1	16336.3	17717.8	20130.6	19972.1	19177.3	14051.2
37.5°	18190.9	18193.2	18056.0	17476.5	17140.6	17282.5	18526.8	21315.7	21540.5	20705.4	14848.4
40°	19406.8	19470.6	19555.8	18794.1	18358.8	18555.2	19555.8	22690.1	23395.0	22517.4	15886.9
42.5°	20256.0	20329.3	20570.6	20092.8	19640.9	20005.2	20766.9	24156.7	25476.7	24608.5	17102.7
45°	21154.9	21195.1	21365.4	21159.6	20871.0	21691.9	22131.8	25675.4	27679.0	26836.9	18462.9
47.5°	22101.1	22143.7	22318.7	22181.5	22030.1	23267.3	23555.9	27106.5	29789.0	29285.2	19915.3
50°	23269.7	23298.0	23463.6	23215.2	23262.6	24454.8	24828.5	28419.4	32000.8	31485.1	21372.5
52.5°	24864.0	24871.1	25100.6	24875.8	24653.5	25325.3	25923.8	29656.6	33734.7	33491.1	22829.7
55°	26113.0	26188.7	26940.9	26893.6	26765.9	26115.4	26839.2	30834.6	35281.8	35397.7	24376.7
57.5°	25315.8	25611.5	27134.9	28208.9	29254.4	28081.1	28076.4	32161.7	36720.0	37268.8	26077.5
60°	22172.1	22574.2	24819.1	27201.2	30472.7	31501.7	30645.4	33782.0	38172.5	39123.4	28208.9
62.5°	15834.8	16497.2	19539.2	23343.0	28802.6	33767.8	35873.2	36353.4	40147.7	41271.3	30978.9
65°	8004.9	8506.4	11056.5	15638.5	23011.8	32287.0	41555.2	41983.3	43580.0	44578.3	35243.9
67.5°	4863.5	5052.8	6297.0	8698.0	14108.0	25150.2	43409.7	51367.3	50222.4	50752.3	41325.7
70°	3583.8	3723.3	4499.2	5776.6	8113.7	14758.5	37718.3	58064.1	57311.9	57252.8	45820.2
72°	2791.3	2893.0	3579.0	4667.2	5932.7	8854.2	27338.4	55592.2	59341.5	59043.5	45408.6
72.5°	2647.0	2736.9	3361.4	4392.8	5606.3	8026.2	24580.2	53924.5	59194.9	59060.0	44876.3
75°	2084.0	2147.9	2488.5	3396.9	4388.0	4553.6	13469.3	41789.3	52512.3	54695.6	40362.9
77.5°	1724.5	1733.9	1913.7	2472.0	3420.5	3219.5	6616.4	28994.2	37602.4	40003.4	28592.1
80°	1405.1	1416.9	1502.1	1733.9	2587.9	2382.1	3141.4	16672.2	21053.2	21079.2	13597.0
82.5°	1118.9	1121.3	1215.9	1267.9	1859.3	1703.2	1800.2	7827.5	9199.5	8849.4	4887.2
85°	787.7	771.2	1187.5	1040.8	1215.9	1092.9	993.5	3098.8	3803.8	3638.2	1530.5
87.5°	262.6	272.0	527.5	674.2	709.7	619.8	442.4	1187.5	1435.9	1424.0	484.9
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°	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0	8452.0
2.5°	8494.6	8418.9	8307.7	8184.7	8087.7	7988.4	7915.0	7877.2	7834.6	7799.1	7841.7
5°	8584.5	8442.6	8206.0	7974.2	7803.9	7652.5	7543.7	7486.9	7434.8	7399.4	7404.1
7.5°	8731.1	8501.7	8104.3	7766.0	7529.5	7366.2	7255.1	7217.2	7184.1	7174.6	7186.5
10°	8887.3	8549.0	7969.4	7520.0	7250.3	7115.5	7065.8	7091.8	7115.5	7136.8	7160.4
12.5°	9064.7	8591.6	7773.1	7231.4	7001.9	6949.9	6999.6	7113.1	7195.9	7245.6	7276.4
15°	9296.5	8629.4	7546.0	6942.8	6789.1	6848.2	7016.1	7212.5	7356.8	7449.0	7463.2
17.5°	9509.4	8627.1	7255.1	6651.9	6616.4	6789.1	7042.2	7318.9	7512.9	7643.0	7669.0
20°	9729.4	8563.2	6916.8	6368.0	6441.3	6725.2	7054.0	7387.5	7621.7	7773.1	7808.6
22.5°	9935.2	8452.0	6545.4	6110.1	6294.7	6640.0	7009.0	7347.3	7581.5	7704.5	7742.4
25°	10074.8	8258.0	6169.3	5892.5	6164.6	6535.9	6862.4	7134.4	7309.5	7371.0	7380.4
27.5°	10145.7	8004.9	5814.5	5703.3	6029.7	6365.6	6590.3	6725.2	6774.9	6770.1	6760.7
30°	10155.2	7671.4	5509.3	5549.5	5873.6	6114.9	6221.3	6195.3	6131.4	6022.6	6032.1
32.5°	10124.4	7295.3	5253.8	5402.9	5674.9	5809.7	5814.5	5689.1	5518.8	5346.1	5298.8
35°	10133.9	6926.3	5029.1	5237.3	5433.6	5492.7	5438.3	5253.8	5022.0	4799.6	4752.3
37.5°	10238.0	6604.5	4835.1	5045.7	5166.3	5180.5	5102.4	4908.5	4738.1	4520.5	4501.6
40°	10486.4	6375.1	4650.6	4830.4	4899.0	4906.1	4794.9	4657.7	4671.9	4556.0	4553.6
42.5°	10933.4	6275.7	4487.4	4605.7	4648.3	4662.4	4577.3	4489.8	4612.8	4537.1	4511.1
45°	11510.6	6299.4	4350.2	4385.7	4463.7	4530.0	4477.9	4371.5	4418.8	4090.0	3981.2
47.5°	12177.7	6450.8	4241.4	4196.4	4331.3	4456.6	4376.2	4215.4	4047.4	3721.0	3659.5
50°	12958.3	6685.0	4142.0	4009.6	4187.0	4357.3	4276.9	4047.4	3794.3	3635.8	3614.5
52.5°	13772.1	6971.2	4042.7	3803.8	4004.8	4281.6	4241.4	4009.6	3697.3	3541.2	3512.8
55°	14694.6	7259.8	3917.3	3564.8	3808.5	4246.1	4224.8	3872.4	3624.0	3536.5	3515.2
57.5°	15841.9	7588.6	3751.7	3316.5	3624.0	4118.4	4052.1	3789.6	3548.3	3482.1	3475.0
60°	17336.9	8073.5	3512.8	3051.5	3399.3	3922.0	3907.8	3668.9	3427.6	3380.3	3370.9
62.5°	19579.4	8875.4	3184.0	2786.6	3148.5	3588.5	3718.6	3505.7	3299.9	3297.5	3302.3
65°	23056.8	10081.9	2826.8	2554.8	2895.4	3307.0	3498.6	3337.8	3169.8	3217.1	3224.2
67.5°	27087.6	11082.5	2476.7	2327.7	2637.6	3039.7	3299.9	3169.8	2997.1	3120.1	3122.5
70°	28428.9	10188.3	2169.2	2103.0	2370.3	2781.9	3084.6	2985.3	2810.2	2933.2	2921.4
72°	26456.0	8224.9	1970.5	1932.6	2169.2	2569.0	2893.0	2812.6	2639.9	2722.7	2692.0
72.5°	25833.9	7841.7	1920.8	1890.1	2114.8	2514.6	2843.4	2770.0	2597.3	2668.3	2639.9
75°	23044.9	6810.3	1651.1	1658.2	1845.1	2249.6	2564.2	2540.6	2363.2	2370.3	2360.8
77.5°	16714.8	4993.6	1390.9	1438.2	1570.7	1977.6	2282.7	2268.5	2074.6	2039.1	2032.0
80°	7756.6	2547.7	1133.1	1154.4	1291.6	1653.5	1946.8	1927.9	1771.8	1726.8	1700.8
82.5°	2656.5	1211.1	851.6	865.8	1000.6	1331.8	1689.0	1677.2	1547.1	1459.5	1405.1
85°	948.6	603.2	596.1	581.9	714.4	1047.9	1471.4	1407.5	1215.9	1036.1	1031.4
87.5°	307.5	257.8	307.5	305.2	416.3	709.7	1069.2	910.7	882.3	733.3	719.1
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)