

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: P319192

Luminaire Tested: **GAN-SA8A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29472 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

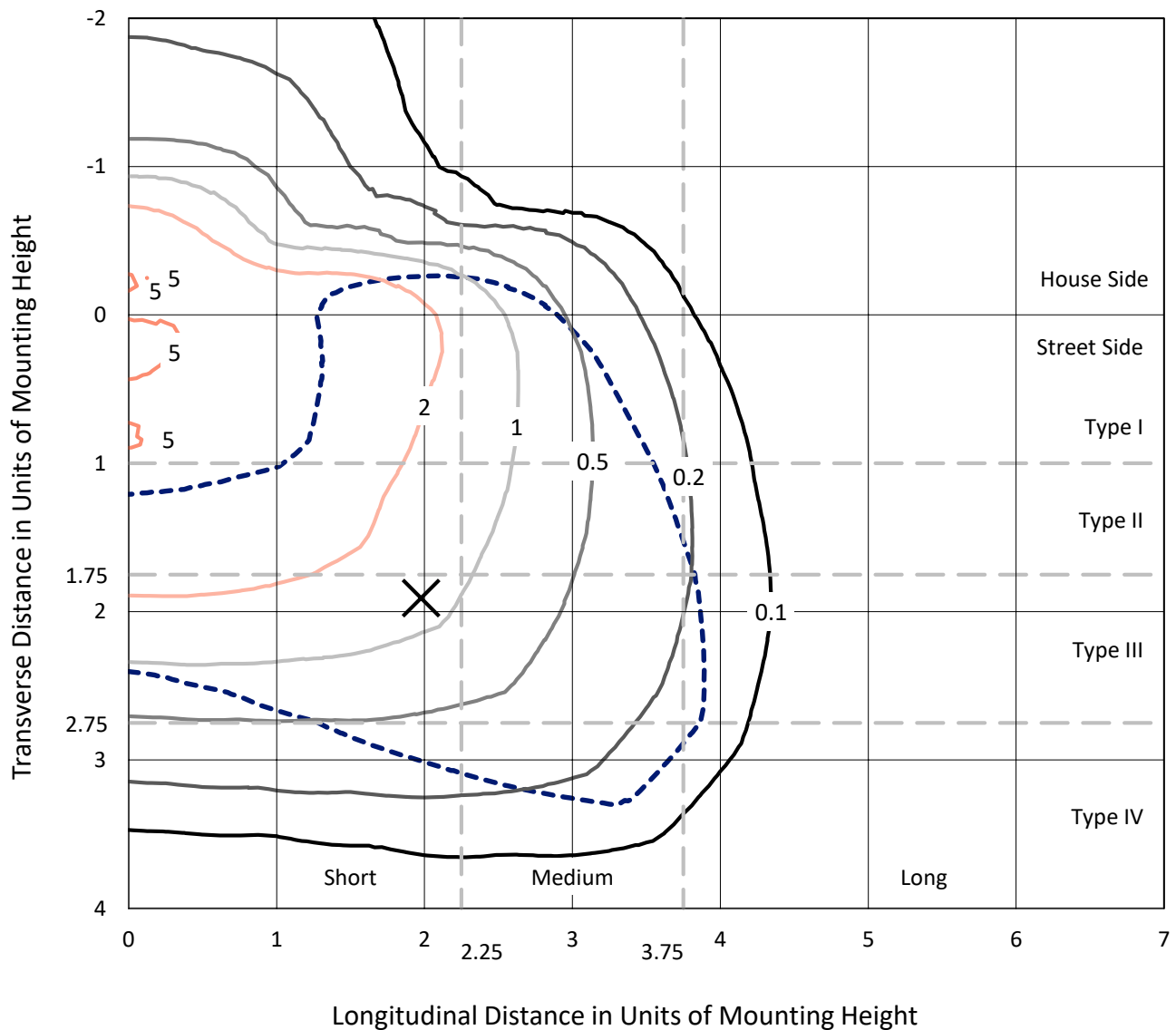
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

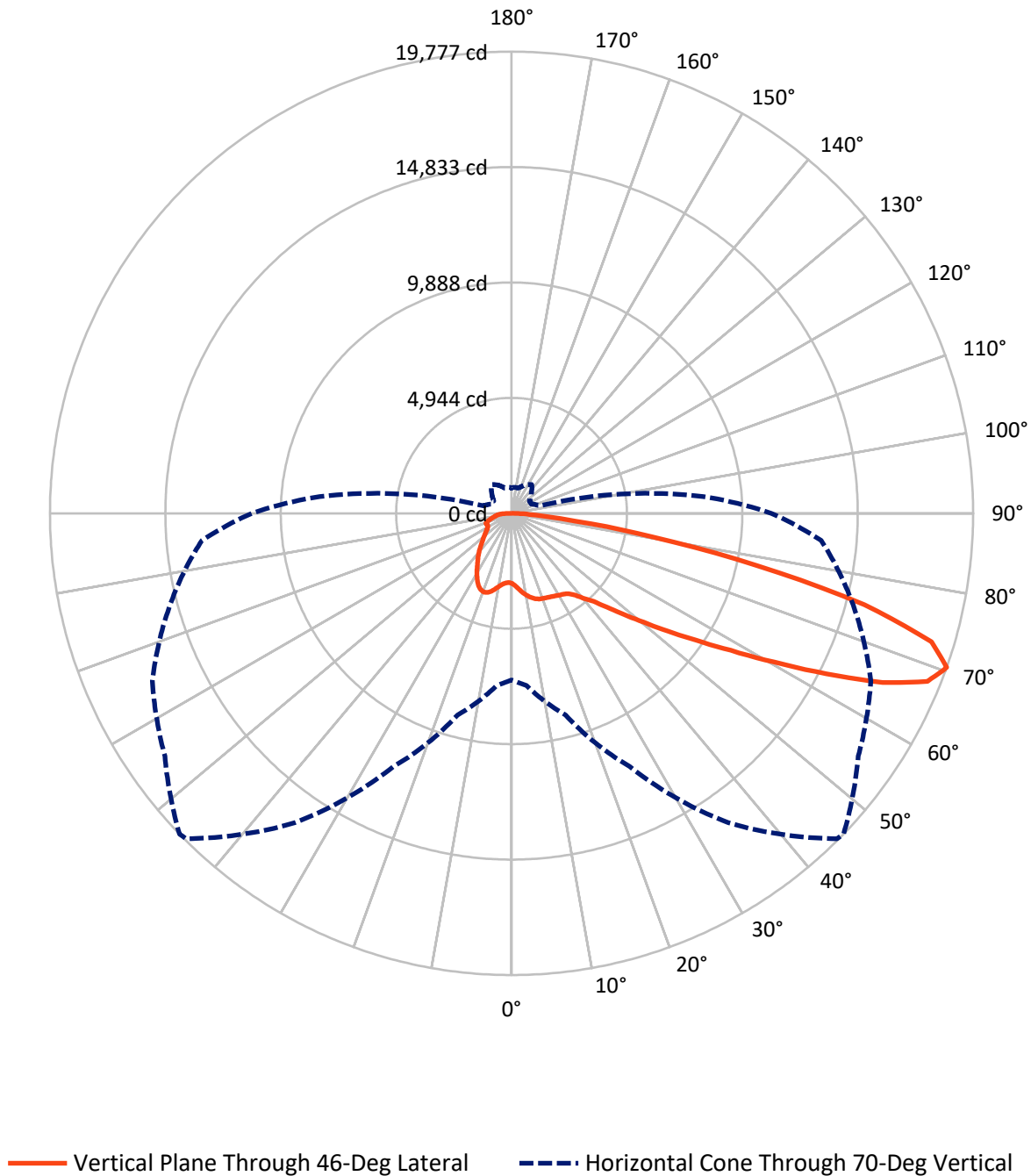
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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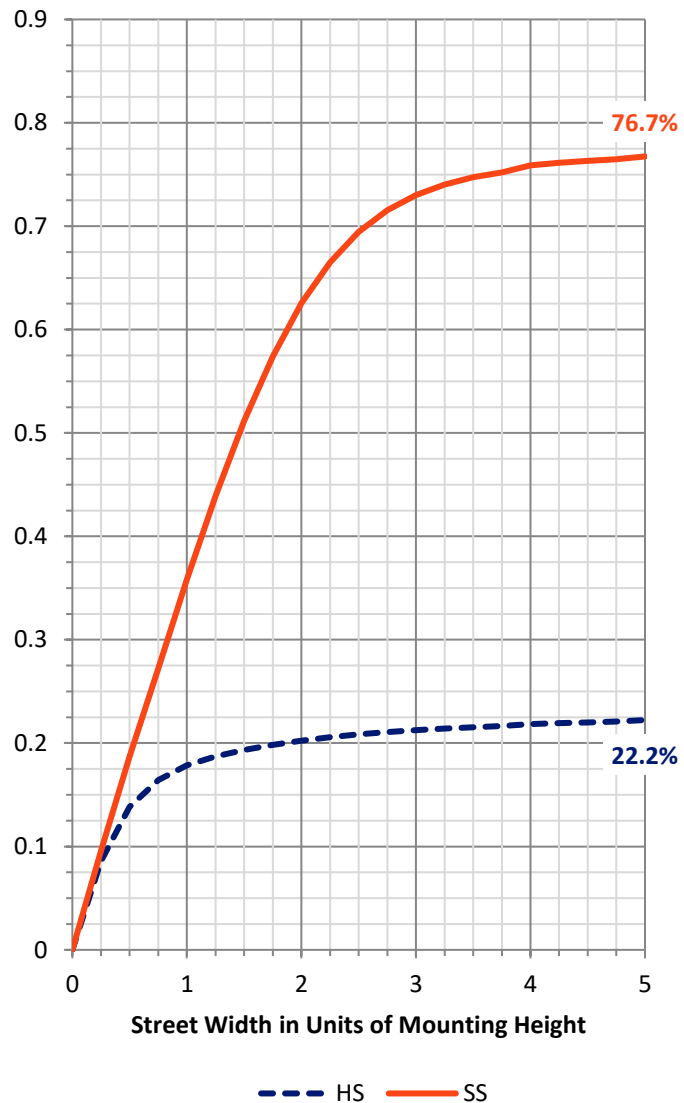
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6754.9	0.0	6754.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22717.1	0.0	22717.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	29472.0	0.0	29472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	1.0
10°-20°	1019.8	3.5
20°-30°	1700.4	5.8
30°-40°	2413.0	8.2
40°-50°	3549.4	12.0
50°-60°	6010.9	20.4
60°-70°	8532.4	29.0
70°-80°	5183.5	17.6
80°-90°	756.5	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°	29472.0	100.0
0°-180°	29472.0	100.0

Coefficient of Utilization



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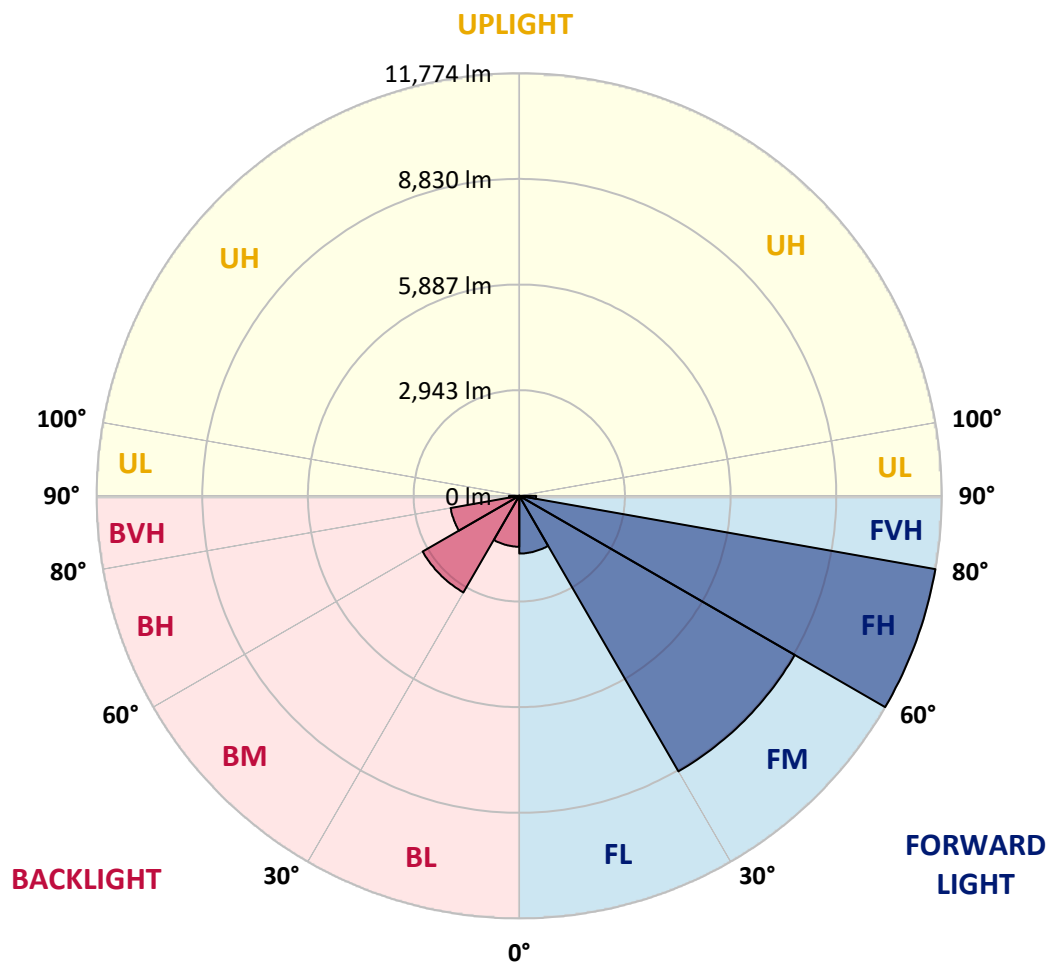
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1608.1	5.5			
FM	(30°-60°)	8863.9	30.1			
FH	(60°-80°)	11773.9	39.9			G4/12000
FVH	(80°-90°)	471.2	1.6			G3/500
BL	(0°-30°)	1418.2	4.8	B3/2500		
BM	(30°-60°)	3109.5	10.6	B3/5000		
BH	(60°-80°)	1942.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	285.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6
2.5°	3152.9	3154.9	3159.0	3148.9	3120.6	3112.6	3109.5	3080.3	3061.1	3032.9	3008.7
5°	3405.1	3407.1	3401.0	3372.8	3310.2	3263.8	3259.8	3193.2	3132.7	3068.2	3019.8
7.5°	3668.3	3671.3	3652.2	3598.7	3511.0	3430.3	3425.2	3334.5	3242.7	3144.8	3072.2
10°	3901.3	3889.2	3857.9	3783.3	3679.4	3580.6	3576.5	3481.7	3375.8	3257.8	3161.0
12.5°	4056.6	4046.5	4006.2	3915.4	3801.4	3710.7	3702.6	3614.8	3512.0	3382.9	3266.9
15°	4142.3	4149.4	4094.9	3992.1	3881.1	3804.5	3797.4	3734.9	3643.1	3513.0	3379.8
17.5°	4153.4	4159.5	4107.0	4005.2	3914.4	3862.0	3858.9	3817.6	3751.0	3625.9	3486.8
20°	4088.9	4092.9	4049.6	3965.8	3906.3	3890.2	3889.2	3871.0	3821.6	3710.7	3575.5
22.5°	3995.1	3998.1	3966.8	3906.3	3886.2	3911.4	3918.4	3911.4	3876.1	3772.2	3645.1
25°	3971.9	3969.9	3937.6	3876.1	3893.2	3946.7	3955.8	3958.8	3934.6	3843.8	3733.9
27.5°	4083.8	4076.8	4015.3	3916.4	3927.5	3992.1	4004.2	4033.4	4018.3	3938.6	3834.7
30°	4407.6	4395.5	4269.4	4069.7	4015.3	4048.5	4063.7	4110.1	4113.1	4046.5	3968.9
32.5°	4954.3	4939.1	4713.2	4356.2	4163.5	4106.0	4120.2	4189.7	4227.1	4175.6	4091.9
35°	5645.2	5628.0	5331.5	4843.3	4411.6	4216.0	4226.1	4281.5	4356.2	4283.5	4172.6
37.5°	6365.3	6324.0	6038.5	5416.2	4806.0	4451.0	4451.0	4458.0	4493.3	4342.0	4267.4
40°	7081.4	7040.1	6781.9	6090.0	5316.4	4821.1	4797.9	4641.6	4613.4	4483.3	4458.0
42.5°	7747.1	7735.0	7582.7	6851.5	5915.5	5185.2	5153.0	4887.7	4893.8	4813.1	4814.1
45°	8455.1	8455.1	8331.1	7620.0	6613.4	5770.2	5738.0	5347.6	5408.1	5370.8	5460.6
47.5°	9033.1	9051.2	9034.1	8420.9	7425.4	6513.6	6455.1	5985.1	6154.5	6282.6	6543.8
50°	9623.1	9651.4	9654.4	9299.3	8406.7	7397.1	7330.5	6831.3	7209.5	7576.6	8090.0
52.5°	10479.4	10543.0	10289.8	10175.8	9609.0	8446.1	8380.5	7919.6	8551.0	9066.4	9950.9
55°	11273.2	11217.7	11037.2	11107.8	10896.0	9640.3	9590.8	9186.4	10045.7	10715.4	11864.2
57.5°	11702.9	11698.8	11880.4	12183.0	12283.8	11112.8	11071.5	10678.1	11731.1	12234.4	13660.6
60°	12207.2	12214.2	12664.1	13350.9	13766.5	12946.5	12928.3	12629.8	13368.1	13652.5	15069.6
62.5°	12277.8	12404.8	13179.5	14361.5	15154.3	15088.7	15129.1	14387.8	14832.6	14784.1	16121.6
65°	11465.8	11633.3	13035.2	14667.1	16534.1	17431.7	17469.1	16155.9	15987.4	15751.4	16497.8
67.5°	9801.6	10049.7	11572.7	14002.5	16989.0	19163.5	19216.0	17526.5	16945.6	16079.2	15592.0
70°	7132.9	7408.2	8941.3	11959.0	16178.0	19717.2	19776.7	18132.7	16981.9	15146.2	13310.6
72.5°	4308.8	4524.6	5788.4	8804.1	13654.5	18708.6	18814.5	17364.2	15504.3	12829.5	9828.9
75°	1892.1	2033.3	2798.9	5073.3	9775.4	15479.1	15611.2	14862.8	12597.5	9323.6	5809.6
77.5°	805.9	846.2	1147.8	2203.8	5526.2	10577.3	10758.8	10859.7	8546.9	5073.3	2454.9
80°	502.3	518.4	649.5	997.5	2586.1	5940.7	6136.4	6389.5	4244.2	1864.9	857.3
82.5°	305.6	323.8	431.7	603.1	1346.5	2693.0	2786.8	2965.3	1647.1	805.9	443.8
85°	183.6	196.7	264.3	381.3	766.5	1059.0	1058.0	1170.0	775.6	518.4	234.0
87.5°	87.7	97.8	141.2	197.7	386.3	397.4	372.2	421.6	471.0	339.9	118.0
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°	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6
2.5°	3000.6	2996.6	2983.5	2973.4	2971.4	2965.3	2960.3	2963.3	2967.3	2968.3	2968.3
5°	2999.6	2988.5	2971.4	2964.3	2973.4	2985.5	3000.6	3020.8	3032.9	3042.0	3048.0
7.5°	3048.0	3026.8	3007.7	3003.6	3021.8	3054.1	3088.4	3130.7	3160.0	3180.1	3184.2
10°	3128.7	3102.5	3083.3	3087.3	3119.6	3166.0	3214.4	3268.9	3313.3	3340.5	3342.5
12.5°	3221.5	3196.3	3178.1	3195.3	3248.7	3305.2	3355.6	3403.0	3443.4	3470.6	3470.6
15°	3328.4	3310.2	3289.1	3328.4	3401.0	3451.4	3472.6	3495.8	3518.0	3538.2	3534.2
17.5°	3431.3	3414.1	3403.0	3449.4	3525.1	3548.3	3534.2	3517.0	3517.0	3528.1	3530.1
20°	3520.0	3504.9	3512.0	3557.4	3596.7	3572.5	3520.0	3465.6	3443.4	3449.4	3455.5
22.5°	3597.7	3590.6	3611.8	3633.0	3604.8	3520.0	3423.2	3349.6	3322.3	3320.3	3322.3
25°	3688.5	3687.5	3713.7	3675.4	3550.3	3394.0	3263.8	3192.2	3177.1	3189.2	3209.4
27.5°	3801.4	3812.5	3825.6	3685.4	3439.3	3203.3	3071.2	3021.8	3036.9	3066.2	3085.3
30°	3945.7	3975.9	3947.7	3660.2	3280.0	2985.5	2859.4	2845.3	2886.6	2928.0	2948.2
32.5°	4085.9	4133.3	4064.7	3594.7	3074.2	2754.5	2656.7	2652.6	2703.1	2743.4	2771.6
35°	4198.8	4292.6	4152.4	3464.6	2836.2	2541.7	2470.1	2442.8	2461.0	2508.4	2540.7
37.5°	4346.1	4502.4	4212.9	3265.9	2578.0	2366.2	2282.5	2219.9	2203.8	2223.0	2239.1
40°	4615.4	4822.1	4241.2	2988.5	2325.8	2190.7	2106.0	2014.2	1950.6	1904.2	1905.3
42.5°	5055.1	5238.7	4223.0	2651.6	2092.9	2019.2	1923.4	1817.5	1714.6	1609.7	1601.7
45°	5769.2	5858.0	4168.6	2294.6	1888.1	1839.7	1749.9	1644.0	1506.9	1387.8	1376.7
47.5°	6912.0	6715.3	4083.8	1982.9	1707.6	1687.4	1604.7	1482.7	1337.4	1241.6	1233.5
50°	8470.3	7952.9	4042.5	1734.8	1548.2	1554.3	1486.7	1357.6	1220.4	1149.8	1141.7
52.5°	10334.2	9394.2	4122.2	1543.2	1420.1	1441.3	1390.9	1269.8	1154.9	1099.4	1091.3
55°	12267.7	10886.9	4207.9	1404.0	1299.1	1340.4	1323.3	1223.4	1119.6	1068.1	1061.1
57.5°	13922.8	12001.4	4036.4	1291.0	1191.2	1255.7	1270.8	1194.2	1101.4	1055.0	1046.9
60°	14964.7	12450.2	3586.6	1185.1	1105.4	1188.1	1240.6	1186.1	1108.5	1104.4	1098.4
62.5°	15458.9	12410.9	2911.8	1101.4	1052.0	1158.9	1262.8	1231.5	1189.1	1225.5	1228.5
65°	15237.0	11817.8	2168.5	1045.9	1013.6	1170.0	1329.3	1317.2	1212.3	1248.7	1253.7
67.5°	13776.5	10402.8	1605.7	997.5	971.3	1201.2	1450.4	1345.5	1167.0	1193.2	1177.0
70°	11135.0	8247.4	1238.6	943.0	927.9	1197.2	1504.8	1328.3	1117.5	1123.6	1080.2
72.5°	7678.5	5624.0	1007.6	892.6	865.4	1091.3	1466.5	1286.0	1076.2	1029.8	972.3
75°	4175.6	3018.8	856.3	840.2	755.4	958.2	1395.9	1255.7	1038.9	977.3	945.1
77.5°	1643.0	1252.7	743.3	768.6	660.6	846.2	1317.2	1198.2	987.4	906.7	890.6
80°	670.7	639.5	616.3	664.7	567.8	740.3	1222.4	1130.6	925.9	841.2	808.9
82.5°	380.2	397.4	479.1	524.5	460.9	681.8	1177.0	1076.2	852.3	753.4	715.1
85°	194.7	233.0	333.8	376.2	338.9	579.9	1084.3	942.0	683.8	576.9	579.9
87.5°	93.8	130.1	210.8	236.0	219.9	419.6	809.9	682.8	532.5	421.6	408.5
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)