

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: P193238

Luminaire Tested: **GAN-AF-10-LED-U-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58261.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
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: 28.75 FT

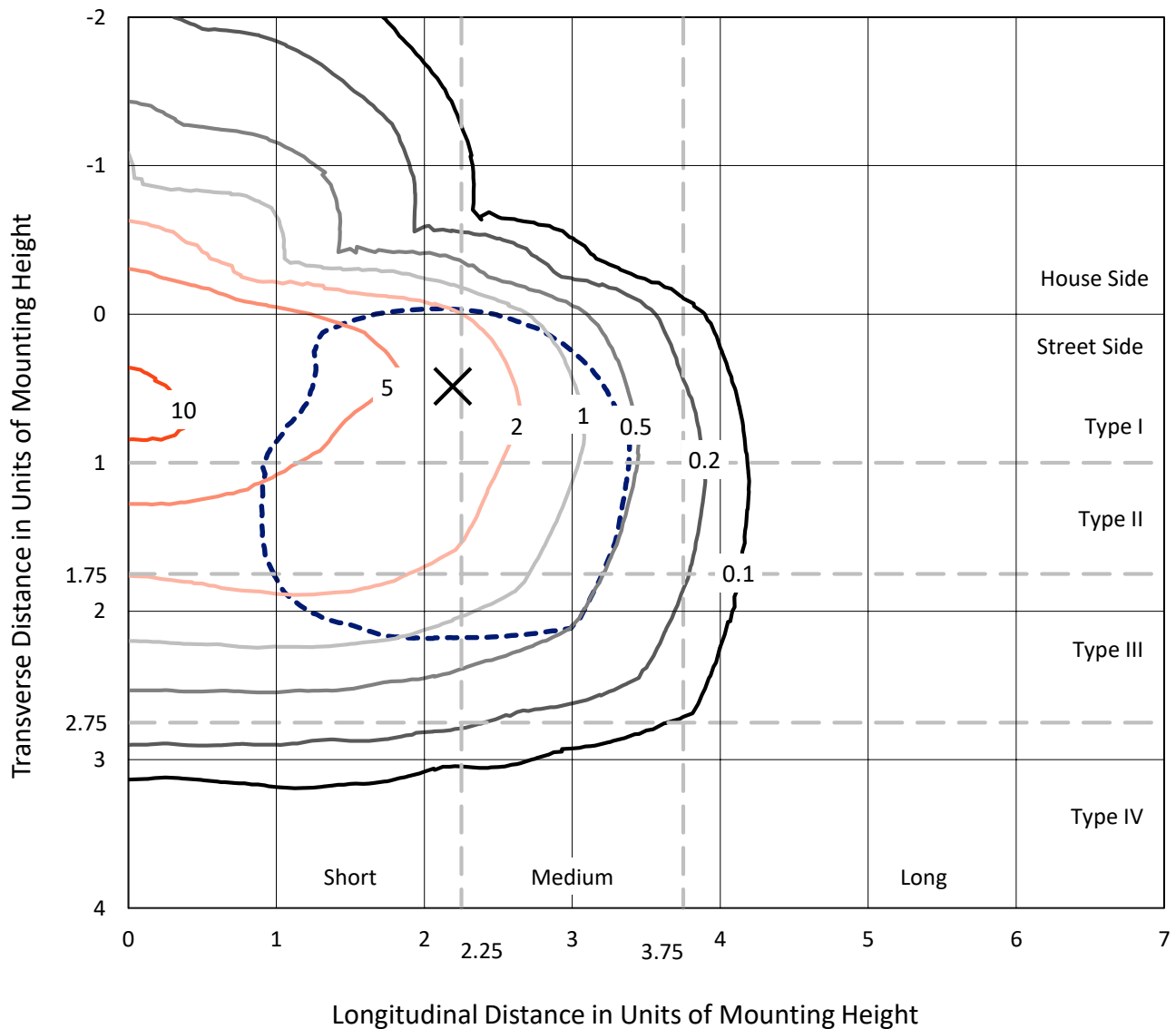


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

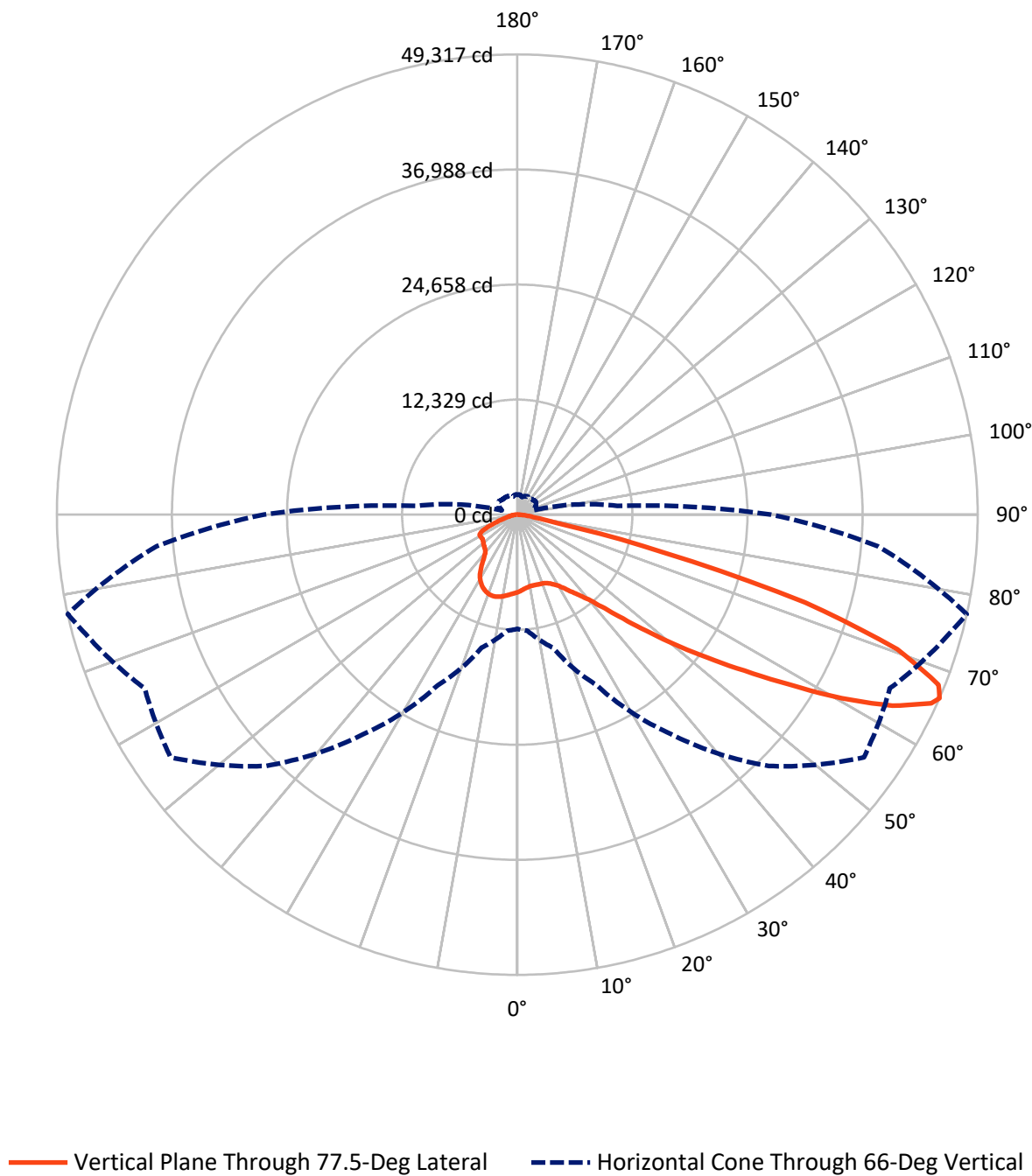


Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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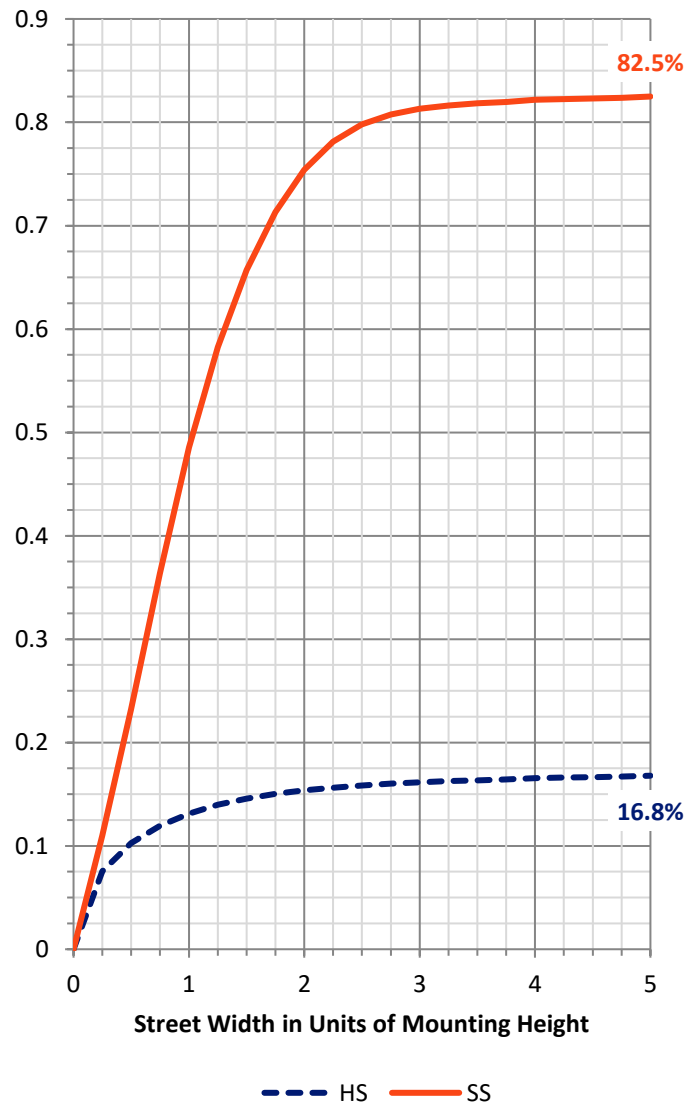
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9953.6	0.0	9953.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	48307.8	0.0	48307.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	58261.4	0.0	58261.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.8	1.3
10°-20°	2092.6	3.6
20°-30°	3571.4	6.1
30°-40°	5717.2	9.8
40°-50°	8832.5	15.2
50°-60°	12527.5	21.5
60°-70°	16758.4	28.8
70°-80°	7277.9	12.5
80°-90°	742.1	1.3
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°	58261.4	100.0
0°-180°	58261.4	100.0

Coefficient of Utilization



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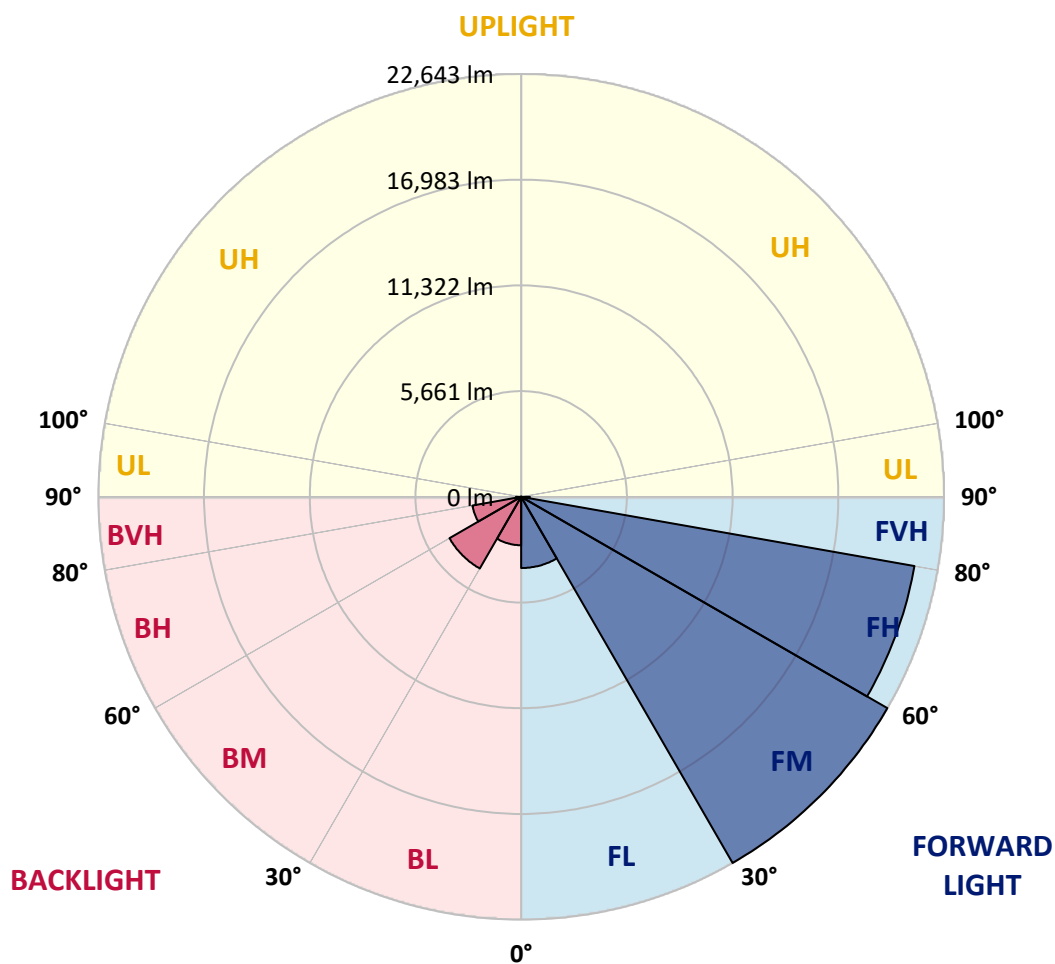
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3813.5	6.5			
FM	(30°-60°)	22643.4	38.9			
FH	(60°-80°)	21385.5	36.7			G5
FVH	(80°-90°)	465.4	0.8			G3/500
BL	(0°-30°)	2592.3	4.4	B4/5000		
BM	(30°-60°)	4433.8	7.6	B3/5000		
BH	(60°-80°)	2650.8	4.5	B4/5000		G4/5000
BVH	(80°-90°)	276.7	0.5			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°	65°	75°	77.5°	85°
0°	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5
2.5°	7344.5	7394.1	7435.4	7473.9	7551.0	7677.6	7823.5	7941.9	8112.6	8145.6	8236.5
5°	6670.1	6670.1	6703.2	6761.0	6865.6	7055.5	7253.7	7518.0	7889.6	7977.7	8219.9
7.5°	6342.5	6345.2	6364.6	6414.1	6505.0	6678.4	6895.8	7206.8	7710.7	7856.7	8269.5
10°	6463.7	6436.1	6394.8	6370.1	6383.8	6485.6	6692.1	7039.0	7600.5	7787.8	8379.6
12.5°	7140.8	7088.5	6945.4	6755.4	6573.8	6499.4	6620.6	6959.2	7553.7	7771.3	8525.5
15°	8247.4	8225.5	7958.5	7564.8	7124.4	6755.4	6672.9	6928.9	7559.2	7790.5	8698.9
17.5°	9634.9	9604.7	9252.3	8679.7	7961.1	7242.7	6857.3	6953.7	7578.6	7823.5	8866.8
20°	11036.1	10942.6	10562.6	9879.9	8957.7	7906.1	7162.8	7016.9	7603.4	7859.3	9043.1
22.5°	12082.1	12005.1	11663.8	11000.3	9937.6	8674.2	7573.0	7127.1	7683.1	7963.9	9260.5
25°	13001.7	13007.1	12668.5	12027.1	10928.7	9488.9	8101.6	7421.7	7886.9	8178.6	9557.8
27.5°	14138.4	14072.5	13755.8	13120.0	11908.7	10312.1	8740.2	7826.2	8189.6	8484.2	9948.7
30°	15498.4	15451.7	15085.5	14364.2	12996.1	11195.8	9469.7	8297.0	8580.5	8886.2	10460.7
32.5°	17097.8	17075.8	16695.9	15768.2	14251.3	12236.3	10325.9	8919.2	9164.1	9480.8	11195.8
35°	18975.3	18978.0	18529.3	17414.4	15625.0	13447.5	11297.6	9720.2	9874.5	10204.7	12071.2
37.5°	20131.4	20271.9	20103.9	18967.0	17180.4	14802.0	12558.4	10782.8	10683.7	11016.8	13009.8
40°	20379.1	20549.8	21081.1	20503.0	18920.2	16294.0	13676.1	11804.2	11680.3	12087.7	14218.4
42.5°	20032.3	20269.1	21392.2	21799.6	20767.4	18132.8	15179.1	13320.9	13164.0	13711.8	15721.5
45°	19825.8	20002.1	21301.4	22474.1	22369.5	20211.3	17092.3	15226.0	15168.0	15886.6	17455.7
47.5°	19468.1	19627.7	20877.5	22631.0	23310.9	22116.3	19390.9	17554.8	17667.7	18609.1	19412.9
50°	19660.6	19726.8	20403.9	22231.8	23583.5	23511.9	21959.3	20252.6	20638.0	21813.4	21629.0
52.5°	19633.2	19803.8	20348.9	21576.6	23619.2	24373.5	24489.2	23261.4	24073.5	25422.3	24087.2
55°	15872.8	16186.6	19701.9	21411.5	23745.9	25218.6	26740.9	26432.6	27946.7	29518.6	26862.1
57.5°	15157.1	15355.3	17304.3	21758.3	24417.6	26831.8	29246.1	29923.3	32455.8	34280.9	30242.5
60°	15016.7	15261.7	17279.5	22182.3	25780.3	29460.7	32959.5	34148.9	37942.3	39940.9	34162.6
62.5°	14579.0	14843.2	17117.1	22127.1	27715.5	33097.3	37713.8	38641.4	43145.1	45088.6	37441.2
65°	13191.5	13439.3	15793.0	21238.1	29020.4	36978.7	43340.5	42759.7	47252.3	48714.0	39076.3
66°	12241.9	12484.1	14749.7	20191.9	28717.4	38079.9	45333.6	44034.2	48171.8	49316.9	38757.1
67.5°	10504.8	10694.8	12723.6	17849.3	27107.1	38388.1	47010.0	44992.2	48268.1	48672.7	36932.0
70°	6637.1	6692.1	8269.5	12321.6	20519.6	33292.7	44458.1	42613.8	44287.4	43191.9	30961.1
72.5°	2879.4	2860.2	3969.6	6268.2	11616.9	22339.1	35962.9	35161.9	34740.7	32241.1	21673.0
75°	1602.2	1624.1	2061.8	2909.8	4721.1	10972.8	23525.7	22512.7	19008.3	16219.6	9827.6
77.5°	1285.6	1315.8	1709.5	2064.7	2119.6	3826.5	11008.5	8957.7	5392.8	4327.4	2730.8
80°	1015.8	1070.8	1492.1	1607.6	1428.7	1577.3	3556.6	2843.7	2133.4	1957.3	1414.9
82.5°	803.8	842.4	1280.1	1216.7	999.2	1062.5	1704.0	1659.9	1387.4	1263.6	817.6
85°	578.1	649.6	1051.6	916.6	655.1	715.7	1131.4	1084.6	795.5	649.6	360.7
87.5°	236.8	308.3	743.3	608.3	366.1	333.1	564.4	531.3	377.2	275.4	178.9
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°	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5	8302.5
2.5°	8294.3	8360.3	8445.6	8497.9	8525.5	8544.7	8575.1	8572.3	8580.5	8583.3	8594.4
5°	8349.4	8459.4	8583.3	8616.4	8616.4	8586.0	8555.8	8506.3	8486.9	8481.5	8486.9
7.5°	8492.5	8613.6	8721.0	8682.4	8599.8	8478.7	8321.8	8184.2	8109.9	8085.0	8079.5
10°	8674.2	8820.1	8864.1	8718.3	8476.0	8184.2	7873.1	7647.4	7518.0	7482.2	7471.1
12.5°	8894.4	9032.0	8971.5	8663.1	8214.4	7743.7	7314.3	6953.7	6683.8	6598.5	6593.0
15°	9136.6	9244.0	9032.0	8492.5	7823.5	7129.8	6364.6	5742.4	5406.5	5299.2	5291.0
17.5°	9362.3	9417.4	8996.2	8195.2	7248.2	6125.1	5109.3	4630.3	4514.6	4542.1	4547.7
20°	9555.0	9555.0	8875.1	7768.5	6342.5	4801.0	4159.5	4151.3	4233.8	4316.4	4333.0
22.5°	9767.0	9640.4	8663.1	7165.7	5059.7	3928.3	3834.7	3911.8	4005.3	4096.2	4110.0
25°	10028.6	9709.3	8368.6	6251.7	3977.8	3567.7	3603.5	3666.7	3713.6	3771.4	3779.6
27.5°	10320.3	9797.3	7980.4	4993.5	3452.0	3341.9	3369.4	3391.5	3386.0	3408.1	3413.5
30°	10669.9	9899.2	7449.2	3903.5	3234.6	3149.3	3099.6	3080.4	3080.4	3116.2	3130.0
32.5°	11137.9	10050.5	6686.6	3344.7	3130.0	3011.6	2851.8	2780.3	2807.9	2929.0	2956.5
35°	11652.7	10213.0	5654.2	3154.8	3108.0	2948.3	2700.6	2568.3	2571.1	2684.0	2719.8
37.5°	12214.3	10419.4	4522.9	3119.0	3157.5	2951.0	2620.7	2439.0	2364.7	2364.7	2378.5
40°	12932.8	10631.5	3661.3	3143.7	3262.2	2984.1	2579.4	2337.2	2128.0	2133.4	2144.4
42.5°	13868.8	10813.1	3198.8	3196.1	3388.6	3028.1	2576.7	2202.2	2020.5	2144.4	2257.3
45°	14909.3	10904.0	2995.2	3242.9	3490.7	3055.7	2532.6	2180.3	2034.3	2403.2	2618.0
47.5°	16106.8	10851.6	2882.3	3259.3	3515.3	3055.7	2483.0	2232.5	2130.7	2783.2	3033.6
50°	17419.9	10700.2	2772.1	3226.3	3507.1	3050.1	2529.9	2284.8	2166.5	2849.2	3022.6
52.5°	18964.2	10573.6	2656.5	3154.8	3449.4	3019.8	2584.8	2262.9	2053.6	2590.4	2711.5
55°	20726.1	10609.4	2527.0	3052.9	3358.4	2962.0	2565.6	2174.7	1935.2	2282.1	2356.4
57.5°	22977.9	11036.1	2372.9	2923.4	3234.6	2865.7	2496.8	2133.4	1899.5	2070.1	2114.1
60°	25491.2	11779.4	2180.3	2794.1	3080.4	2711.5	2444.4	2152.7	1916.0	2053.6	2075.6
62.5°	27335.6	12211.6	2015.1	2604.2	2871.3	2540.9	2378.5	2177.5	1960.0	2111.4	2105.9
65°	27836.6	11501.2	1808.6	2326.1	2587.7	2361.9	2295.9	2205.0	1979.2	2158.2	2133.4
66°	27134.6	10736.1	1717.8	2196.7	2444.4	2273.8	2254.6	2202.2	1971.0	2163.8	2122.5
67.5°	25430.6	9167.0	1560.9	2006.8	2216.0	2141.7	2188.5	2177.5	1948.9	2158.2	2100.4
70°	20739.8	6254.4	1335.1	1671.0	1844.4	1885.7	2061.8	2089.4	1877.4	2061.8	1935.2
72.5°	14490.8	3809.9	1181.0	1296.6	1492.1	1607.6	1888.4	1968.3	1781.0	1800.4	1679.2
75°	7003.2	2023.4	1070.8	1004.7	1158.9	1343.4	1679.2	1803.1	1629.7	1505.8	1461.8
77.5°	2183.0	1236.0	908.4	809.3	908.4	1084.6	1404.0	1580.1	1450.8	1260.8	1244.3
80°	1172.7	908.4	699.3	649.6	718.5	850.6	1103.8	1318.6	1247.0	1131.4	1010.3
82.5°	773.5	589.1	517.6	503.8	547.8	649.6	820.3	1092.9	1092.9	969.0	704.7
85°	399.2	360.7	355.1	355.1	382.6	432.2	558.9	842.4	897.4	512.0	423.9
87.5°	198.2	206.5	192.8	200.9	214.7	212.0	267.0	423.9	506.5	311.1	258.7
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)