

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: P319284

Luminaire Tested: **GAN-SA0B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46339 lumens
Efficiency: N/A
Efficacy: 110.6 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): 419
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

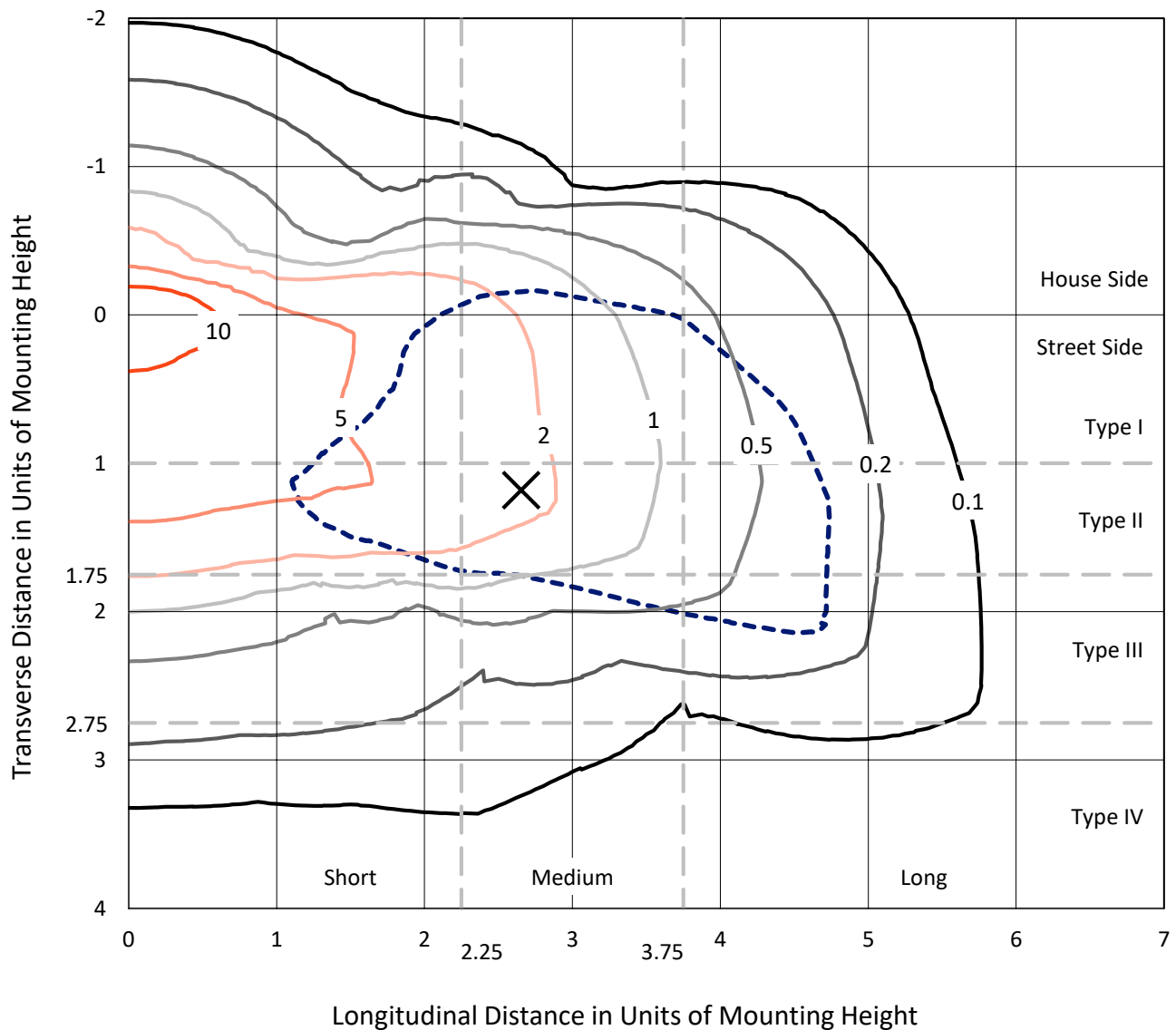


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Iso-Footcandle Lines of Horizontal Illumination

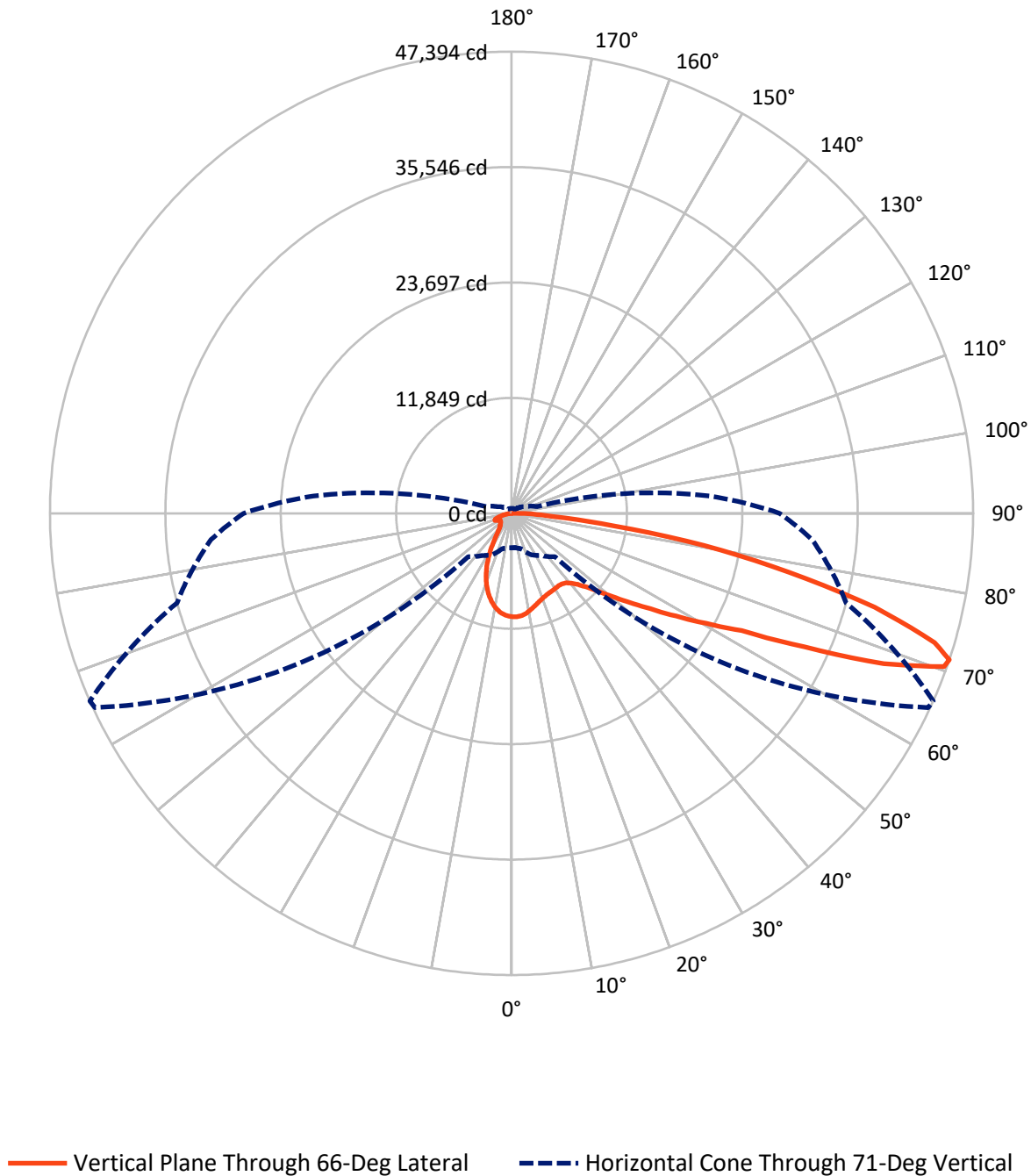
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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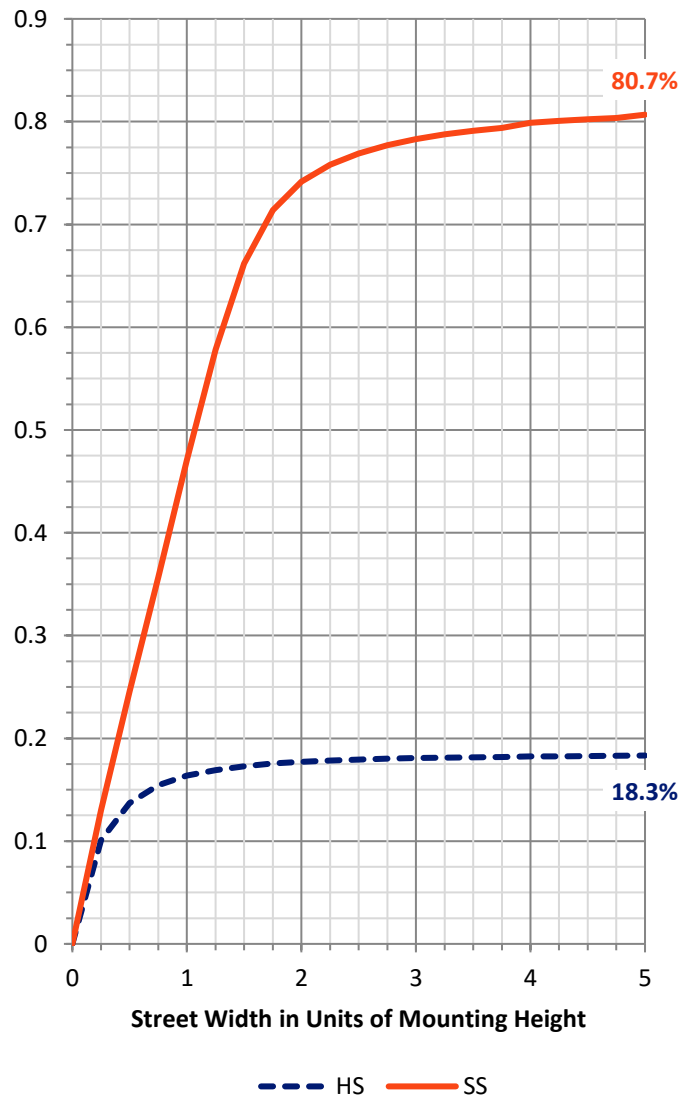
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8587.9	0.0	8587.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37751.1	0.0	37751.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	46339.0	0.0	46339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.4	2.0
10°-20°	2241.1	4.8
20°-30°	3010.4	6.5
30°-40°	3960.1	8.5
40°-50°	5760.9	12.4
50°-60°	8999.1	19.4
60°-70°	11272.9	24.3
70°-80°	8598.7	18.6
80°-90°	1561.4	3.4
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°	46339.0	100.0
0°-180°	46339.0	100.0

Coefficient of Utilization



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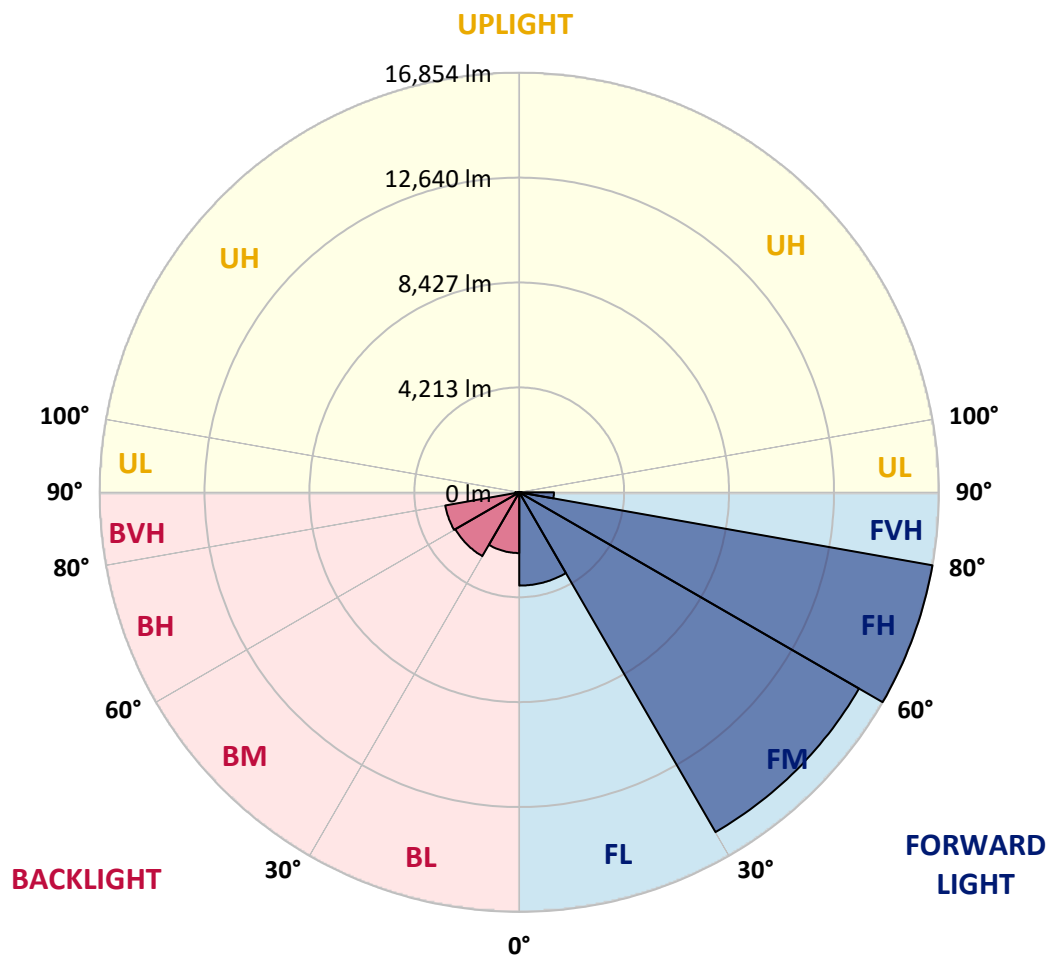
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3747.1	8.1			
FM	(30°-60°)	15757.6	34.0			
FH	(60°-80°)	16854.0	36.4			G5
FVH	(80°-90°)	1392.4	3.0			G5
BL	(0°-30°)	2438.7	5.3	B3/2500		
BM	(30°-60°)	2962.5	6.4	B3/5000		
BH	(60°-80°)	3017.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	169.0	0.4			G2/225
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°	66°	75°	85°
0°	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4
2.5°	10418.6	10402.6	10450.6	10500.2	10519.4	10551.4	10599.4	10626.6	10625.0	10629.8	10613.8
5°	9727.4	9706.6	9802.6	9881.0	10031.4	10201.0	10407.4	10554.6	10557.8	10641.0	10663.4
7.5°	9073.1	9058.7	9169.1	9295.4	9469.8	9729.0	10063.4	10380.2	10399.4	10625.0	10703.4
10°	8548.3	8545.1	8652.3	8789.9	8993.1	9282.6	9666.6	10130.6	10159.4	10548.2	10709.8
12.5°	8138.7	8145.1	8237.9	8394.7	8609.1	8911.5	9327.4	9850.6	9897.0	10426.6	10673.0
15°	7836.3	7861.9	7937.1	8095.5	8306.7	8613.9	9041.1	9591.4	9661.8	10290.6	10652.2
17.5°	7663.5	7692.3	7745.1	7876.3	8074.7	8370.7	8775.5	9378.6	9442.6	10186.6	10653.8
20°	7612.3	7636.3	7666.7	7746.7	7914.7	8183.5	8565.9	9186.7	9255.4	10103.4	10669.8
22.5°	7713.1	7730.7	7733.9	7727.5	7829.9	8049.1	8413.9	9045.9	9119.5	10049.0	10681.0
25°	7929.1	7953.1	7935.5	7876.3	7842.7	7977.1	8335.5	8953.1	9026.7	10009.0	10658.6
27.5°	8253.9	8257.1	8242.7	8165.9	8007.5	7985.1	8311.5	8898.7	8969.1	9962.6	10612.2
30°	8695.5	8716.3	8690.7	8586.7	8327.5	8113.1	8340.3	8845.9	8909.9	9903.4	10537.0
32.5°	9212.3	9263.4	9261.8	9153.1	8781.9	8399.5	8458.7	8813.9	8863.5	9841.0	10445.8
35°	9748.2	9818.6	9949.8	9903.4	9444.2	8852.3	8685.9	8865.1	8898.7	9833.0	10381.8
37.5°	10305.0	10375.4	10645.8	10770.6	10233.0	9500.2	9044.3	9045.9	9061.9	9930.6	10377.0
40°	10887.4	10962.5	11368.9	11693.7	11255.3	10321.0	9621.8	9423.4	9405.8	10170.6	10471.4
42.5°	11703.3	11770.5	12258.5	12672.8	12389.7	11372.1	10420.2	10005.8	9969.0	10641.0	10773.8
45°	12735.2	12792.8	13311.2	13754.4	13608.8	12572.1	11423.3	10807.4	10801.0	11424.9	11386.5
47.5°	13962.4	14007.2	14472.7	14901.5	14954.3	13952.8	12684.0	12044.1	11940.1	12500.1	12335.3
50°	15240.7	15290.3	15607.1	16067.8	16459.8	15800.7	14306.3	13559.2	13420.0	13919.2	13679.2
52.5°	16087.0	16152.6	16427.8	17011.8	18152.5	17826.1	16224.6	15395.9	15184.7	15639.1	15455.1
55°	15709.5	15856.7	16277.4	17213.4	19506.0	20920.4	18590.9	17538.2	17299.8	17677.3	17568.6
57.5°	13992.8	14194.4	14768.7	16213.4	19696.4	23646.6	22168.3	20061.2	19893.2	19784.4	19834.0
60°	10855.4	11048.9	11760.9	13644.0	18370.1	25636.9	27552.0	23171.4	22928.2	21899.5	21944.3
62.5°	7682.7	7585.1	8073.1	9450.6	14927.1	25870.5	33678.0	27331.2	26531.2	24133.0	23936.2
65°	5858.9	5836.5	6055.6	6494.0	9041.1	23075.4	37327.4	34322.8	33073.2	26760.0	26296.0
67.5°	4814.1	4774.1	4990.1	5628.5	5822.1	14887.1	37407.4	42434.3	41207.1	30030.2	29025.5
70°	3958.2	3913.4	4115.0	4938.9	5380.5	7550.0	31482.9	47184.4	47118.8	34170.8	31086.1
71°	3548.6	3516.6	3758.2	4673.3	5286.1	6292.4	27182.4	47197.2	47394.0	35572.3	30964.6
72.5°	2889.4	2900.6	3156.6	4159.8	5215.7	5556.5	19978.0	44997.3	45413.3	36908.2	29859.0
75°	1919.9	1929.5	2265.5	3199.8	5057.3	5436.5	10980.1	37757.8	38522.5	36108.2	27246.4
77.5°	1289.5	1286.3	1515.1	2195.1	4406.1	5436.5	6438.0	28239.9	29079.9	28731.1	21005.1
80°	887.9	881.5	1043.1	1515.1	3335.8	5502.1	4977.3	19790.8	20045.2	15515.9	8537.1
82.5°	544.0	548.8	681.6	1070.3	2270.3	4951.7	4698.9	10791.4	10514.6	4351.7	2132.7
85°	312.0	310.4	435.2	724.8	1457.5	4179.0	4582.1	4644.5	4260.5	1310.3	771.2
87.5°	112.0	120.0	233.6	401.6	835.2	2910.2	3887.8	2415.9	2177.5	592.0	348.8
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°	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4	10615.4
2.5°	10602.6	10612.2	10601.0	10537.0	10482.6	10394.6	10345.0	10276.2	10255.4	10245.8	10271.4
5°	10642.6	10645.8	10551.4	10383.4	10194.6	9972.2	9812.2	9615.4	9522.6	9482.6	9508.2
7.5°	10679.4	10665.0	10458.6	10137.0	9788.2	9401.0	9057.1	8741.9	8557.9	8482.7	8489.1
10°	10684.2	10623.4	10292.2	9794.6	9253.8	8685.9	8157.9	7671.5	7364.4	7164.4	7225.2
12.5°	10634.6	10532.2	10047.4	9351.4	8601.1	7826.7	7113.2	6383.6	5945.2	5742.1	5748.5
15°	10596.2	10410.6	9746.6	8829.9	7821.9	6796.4	5822.1	4964.5	4497.3	4289.3	4191.8
17.5°	10564.2	10279.4	9397.8	8242.7	6902.0	5601.3	4430.1	3665.4	3409.4	3348.6	3323.0
20°	10519.4	10140.2	9009.1	7562.7	5854.1	4263.7	3235.0	2857.4	2859.0	2929.4	2939.0
22.5°	10457.0	9981.8	8594.7	6799.6	4729.3	3105.4	2535.8	2427.1	2537.4	2671.8	2695.8
25°	10364.2	9794.6	8133.9	5956.4	3606.2	2387.1	2166.3	2161.5	2295.9	2436.7	2457.5
27.5°	10233.0	9549.8	7621.9	5050.9	2657.4	2028.7	1940.7	1974.3	2073.5	2175.9	2183.9
30°	10057.0	9265.0	7057.2	4095.8	2083.1	1806.3	1796.7	1827.1	1887.9	1959.9	1966.3
32.5°	9863.4	8975.5	6454.0	3171.0	1783.9	1686.3	1695.9	1710.3	1739.1	1767.9	1774.3
35°	9687.4	8679.5	5836.5	2409.5	1641.5	1607.9	1601.5	1598.3	1601.5	1591.9	1593.5
37.5°	9573.8	8434.7	5193.3	1918.3	1559.9	1539.1	1519.9	1495.9	1468.7	1452.7	1455.9
40°	9532.2	8252.3	4542.1	1657.5	1492.7	1478.3	1441.5	1390.3	1358.3	1348.7	1348.7
42.5°	9644.2	8157.9	3913.4	1526.3	1436.7	1412.7	1351.9	1292.7	1268.7	1267.1	1265.5
45°	9986.6	8196.3	3315.0	1454.3	1385.5	1339.1	1259.1	1209.5	1193.5	1196.7	1195.1
47.5°	10601.0	8437.9	2803.0	1406.3	1334.3	1273.5	1183.9	1143.9	1124.7	1124.7	1126.3
50°	11645.7	9002.7	2395.1	1366.3	1291.1	1212.7	1129.5	1079.9	1054.3	1052.7	1052.7
52.5°	13167.2	10013.8	2140.7	1332.7	1243.1	1158.3	1075.1	1012.7	982.3	975.9	972.7
55°	15074.3	11463.3	2070.3	1310.3	1179.1	1099.1	1009.5	947.1	913.5	899.1	897.5
57.5°	17207.0	13226.4	2209.5	1283.1	1113.5	1028.7	937.5	878.3	843.1	825.6	824.0
60°	19365.2	15151.1	2777.4	1244.7	1059.1	951.9	863.9	809.6	774.4	755.2	752.0
62.5°	21526.7	17179.8	3937.4	1241.5	1020.7	878.3	788.8	742.4	708.8	688.0	683.2
65°	23965.0	19400.4	5255.7	1326.3	1007.9	811.2	712.0	675.2	646.4	627.2	625.6
67.5°	26764.8	21907.5	5129.3	1500.7	1051.1	750.4	640.0	611.2	590.4	574.4	572.8
70°	28078.3	21515.5	3188.6	1623.9	1111.9	691.2	571.2	550.4	534.4	523.2	518.4
71°	27528.0	20429.2	2673.4	1609.5	1105.5	665.6	544.0	528.0	512.0	502.4	497.6
72.5°	26027.2	18630.9	2230.3	1497.5	1033.5	619.2	508.8	492.8	478.4	467.2	464.0
75°	23355.4	16639.0	1785.5	1196.7	824.0	523.2	446.4	428.8	417.6	411.2	404.8
77.5°	17168.6	11874.5	1380.7	945.5	606.4	427.2	380.8	368.0	356.8	347.2	342.4
80°	6577.2	4599.7	929.5	705.6	444.8	337.6	307.2	300.8	289.6	283.2	283.2
82.5°	1771.1	1374.3	496.0	427.2	297.6	246.4	235.2	232.0	222.4	209.6	211.2
85°	716.8	606.4	278.4	235.2	182.4	145.6	158.4	160.0	148.8	132.8	134.4
87.5°	315.2	257.6	155.2	104.0	80.0	56.0	72.0	72.0	65.6	54.4	49.6
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)