

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: P319274

Luminaire Tested: **GAN-SA0A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319274
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-SA0A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 37790 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

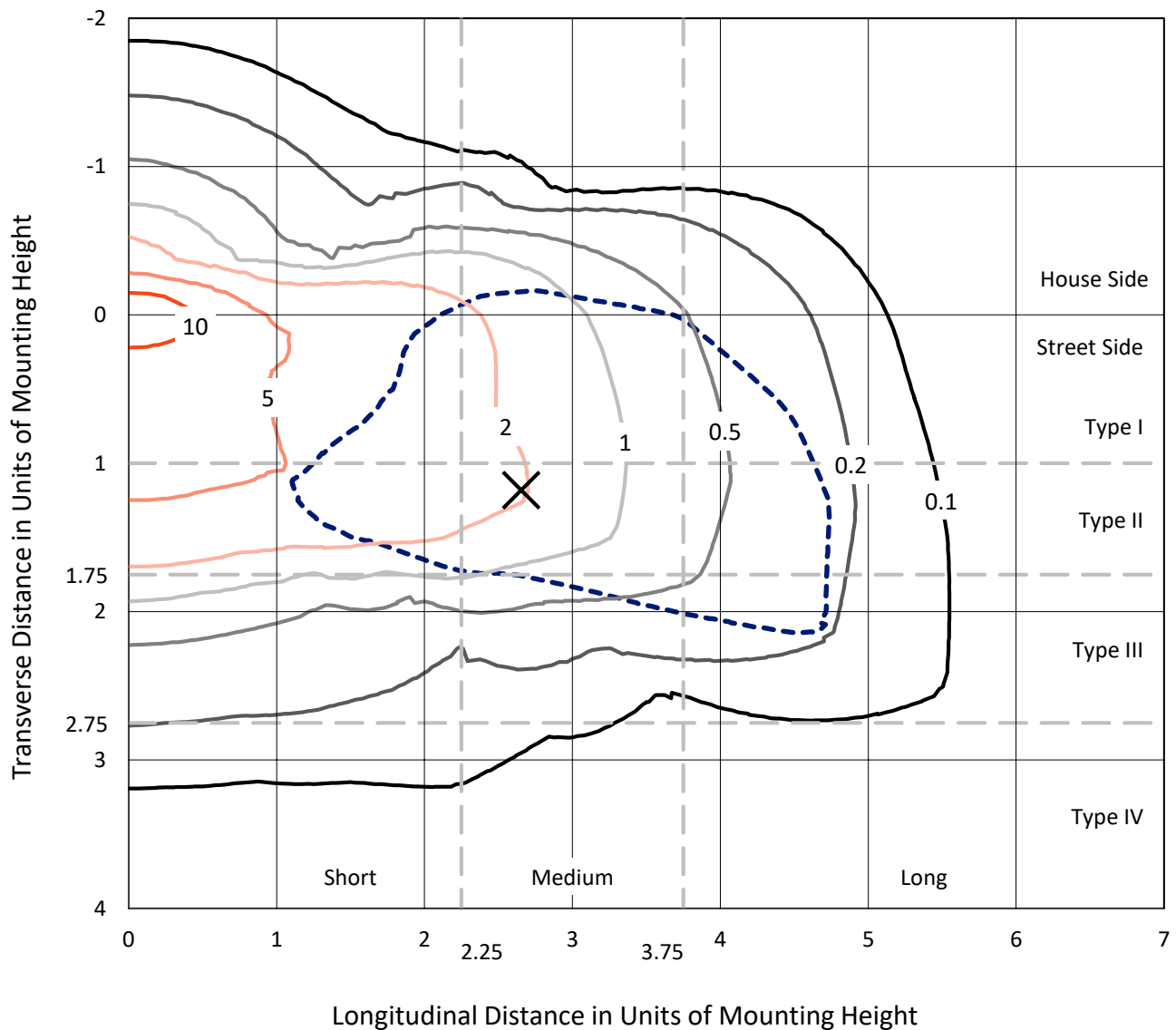


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Iso-Footcandle Lines of Horizontal Illumination

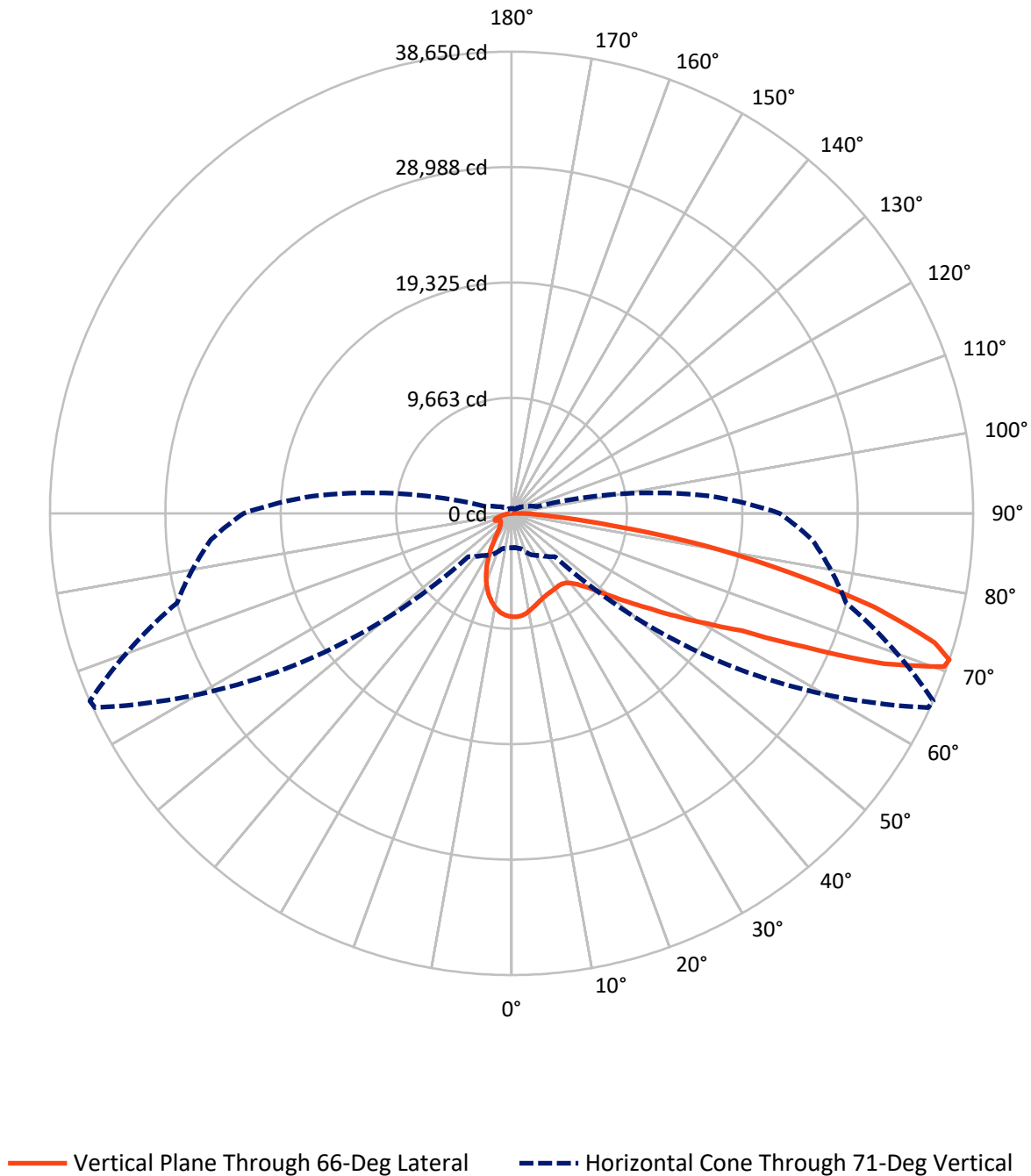
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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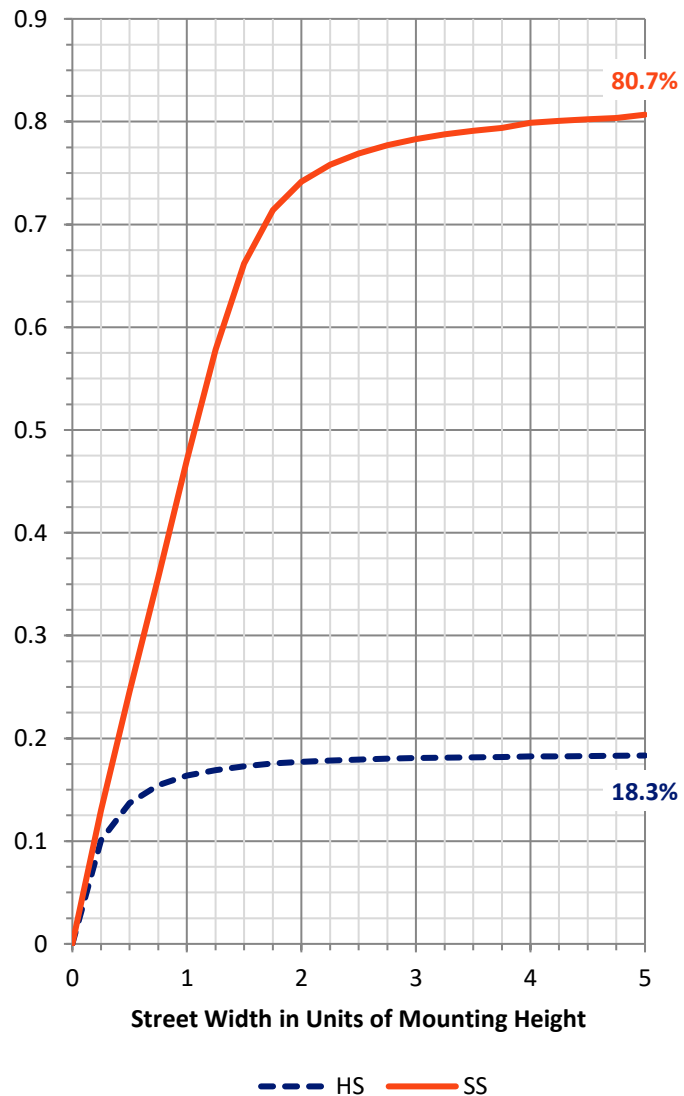
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7003.5	0.0	7003.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	30786.5	0.0	30786.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	37790.0	0.0	37790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.0	2.0
10°-20°	1827.7	4.8
20°-30°	2455.0	6.5
30°-40°	3229.5	8.5
40°-50°	4698.1	12.4
50°-60°	7338.9	19.4
60°-70°	9193.2	24.3
70°-80°	7012.3	18.6
80°-90°	1273.4	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°	37790.0	100.0
0°-180°	37790.0	100.0

Coefficient of Utilization



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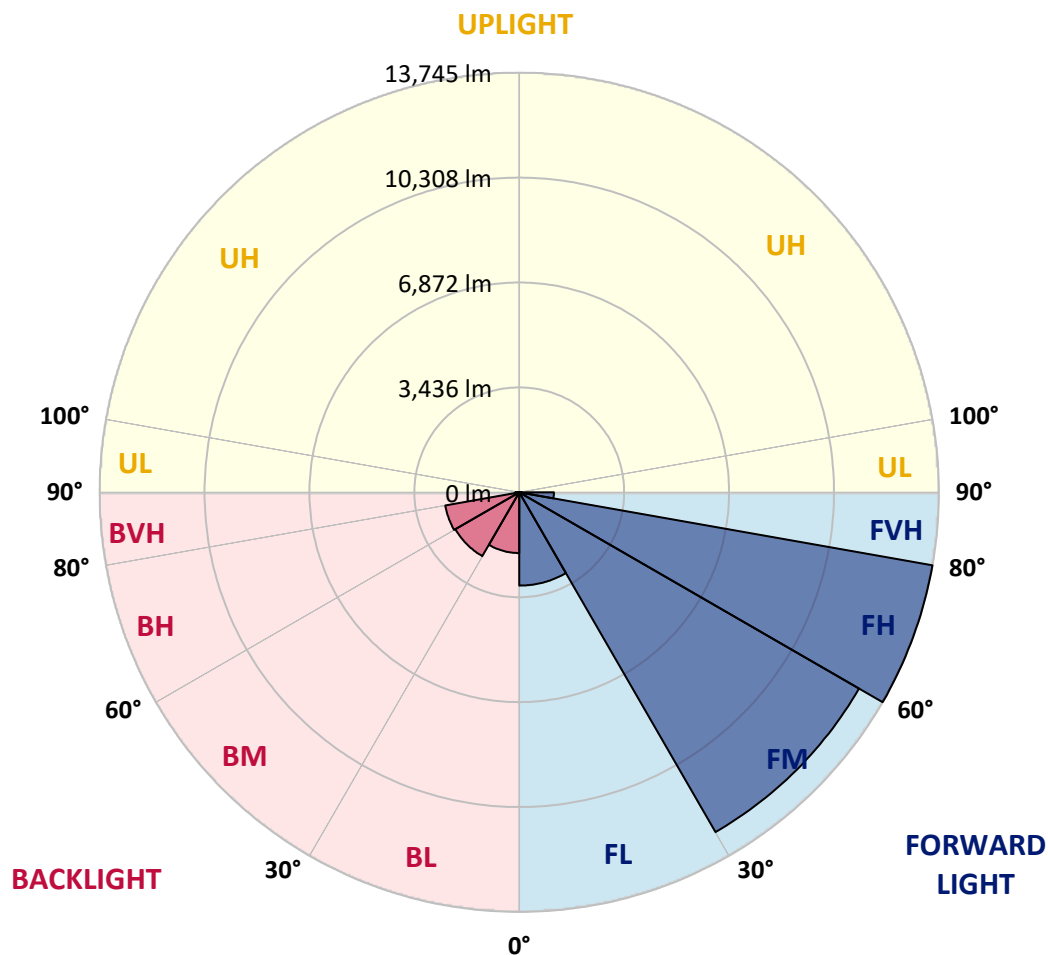
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3055.8	8.1			
FM	(30°-60°)	12850.5	34.0			
FH	(60°-80°)	13744.6	36.4			G5
FVH	(80°-90°)	1135.5	3.0			G5
BL	(0°-30°)	1988.8	5.3	B3/2500		
BM	(30°-60°)	2416.0	6.4	B2/2500		
BH	(60°-80°)	2460.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	137.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0
2.5°	8496.5	8483.4	8522.6	8563.0	8578.7	8604.8	8643.9	8666.1	8664.8	8668.7	8655.7
5°	7932.8	7915.9	7994.1	8058.1	8180.7	8319.0	8487.3	8607.4	8610.0	8677.8	8696.1
7.5°	7399.2	7387.4	7477.5	7580.5	7722.8	7934.1	8206.8	8465.2	8480.8	8664.8	8728.7
10°	6971.2	6968.6	7056.0	7168.2	7333.9	7570.1	7883.2	8261.6	8285.1	8602.2	8733.9
12.5°	6637.2	6642.4	6718.1	6846.0	7020.8	7267.4	7606.6	8033.3	8071.1	8503.0	8703.9
15°	6390.6	6411.5	6472.8	6602.0	6774.2	7024.7	7373.1	7821.9	7879.3	8392.1	8687.0
17.5°	6249.7	6273.2	6316.3	6423.2	6585.0	6826.4	7156.5	7648.4	7700.6	8307.3	8688.3
20°	6208.0	6227.5	6252.3	6317.6	6454.6	6673.8	6985.6	7491.8	7547.9	8239.4	8701.3
22.5°	6290.2	6304.5	6307.1	6301.9	6385.4	6564.2	6861.6	7377.0	7437.0	8195.1	8710.5
25°	6466.3	6485.9	6471.5	6423.2	6395.8	6505.4	6797.7	7301.3	7361.3	8162.5	8692.2
27.5°	6731.2	6733.8	6722.0	6659.4	6530.2	6512.0	6778.1	7257.0	7314.4	8124.6	8654.3
30°	7091.3	7108.2	7087.4	7002.5	6791.2	6616.3	6801.6	7213.9	7266.1	8076.3	8593.0
32.5°	7512.7	7554.5	7553.1	7464.4	7161.7	6849.9	6898.2	7187.8	7228.3	8025.5	8518.7
35°	7949.8	8007.2	8114.2	8076.3	7701.9	7219.1	7083.4	7229.6	7257.0	8018.9	8466.5
37.5°	8403.8	8461.2	8681.7	8783.5	8345.1	7747.6	7375.7	7377.0	7390.1	8098.5	8462.6
40°	8878.8	8940.1	9271.5	9536.4	9178.9	8416.9	7846.7	7684.9	7670.6	8294.2	8539.5
42.5°	9544.2	9599.0	9996.9	10334.9	10103.9	9274.1	8497.8	8159.9	8129.8	8677.8	8786.1
45°	10385.7	10432.7	10855.4	11216.9	11098.1	10252.7	9315.9	8813.5	8808.3	9317.2	9285.8
47.5°	11386.5	11423.0	11802.7	12152.4	12195.4	11378.6	10344.0	9822.1	9737.3	10193.9	10059.6
50°	12429.0	12469.4	12727.7	13103.5	13423.2	12885.6	11667.0	11057.7	10944.2	11351.2	11155.5
52.5°	13119.2	13172.7	13397.1	13873.3	14803.6	14537.4	13231.4	12555.5	12383.3	12753.8	12603.8
55°	12811.3	12931.3	13274.4	14037.7	15907.4	17060.8	15161.1	14302.6	14108.2	14416.1	14327.4
57.5°	11411.3	11575.7	12044.1	13222.2	16062.7	19284.1	18078.5	16360.1	16223.2	16134.4	16174.9
60°	8852.7	9010.5	9591.2	11126.8	14981.0	20907.2	22468.9	18896.6	18698.2	17859.3	17895.8
62.5°	6265.4	6185.8	6583.7	7707.1	12173.2	21097.7	27464.8	22288.9	21636.5	19680.7	19520.2
65°	4778.0	4759.7	4938.4	5295.9	7373.1	18818.3	30440.9	27990.6	26971.6	21823.1	21444.7
67.5°	3926.0	3893.3	4069.5	4590.1	4748.0	12140.6	30506.2	34605.6	33604.9	24490.0	23670.6
70°	3227.9	3191.4	3355.8	4027.7	4387.8	6157.1	25674.7	38479.4	38425.9	27866.7	25351.1
71°	2893.9	2867.8	3064.8	3811.1	4310.9	5131.5	22167.6	38489.9	38650.3	29009.6	25252.0
72.5°	2356.4	2365.5	2574.3	3392.3	4253.5	4531.4	16292.3	36695.8	37035.1	30099.1	24350.4
75°	1565.7	1573.5	1847.5	2609.5	4124.3	4433.5	8954.4	30791.9	31415.6	29446.7	22219.7
77.5°	1051.6	1049.0	1235.6	1790.1	3593.3	4433.5	5250.3	23030.0	23715.0	23430.5	17129.9
80°	724.1	718.9	850.7	1235.6	2720.4	4487.0	4059.0	16139.6	16347.1	12653.4	6962.1
82.5°	443.6	447.5	555.8	872.9	1851.4	4038.2	3832.0	8800.5	8574.8	3548.9	1739.2
85°	254.4	253.1	354.9	591.0	1188.6	3408.0	3736.8	3787.7	3474.5	1068.6	628.9
87.5°	91.3	97.9	190.5	327.5	681.1	2373.3	3170.5	1970.2	1775.8	482.8	284.4
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°	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0	8657.0
2.5°	8646.5	8654.3	8645.2	8593.0	8548.7	8476.9	8436.5	8380.4	8363.4	8355.6	8376.4
5°	8679.1	8681.7	8604.8	8467.8	8313.8	8132.5	8002.0	7841.5	7765.8	7733.2	7754.1
7.5°	8709.1	8697.4	8529.1	8266.8	7982.4	7666.7	7386.1	7129.1	6979.1	6917.7	6923.0
10°	8713.1	8663.5	8393.4	7987.6	7546.6	7083.4	6652.9	6256.2	6005.7	5842.6	5892.2
12.5°	8672.6	8589.1	8193.8	7626.2	7014.3	6382.8	5800.9	5205.9	4848.4	4682.7	4687.9
15°	8641.3	8490.0	7948.5	7200.9	6378.9	5542.5	4748.0	4048.6	3667.6	3498.0	3418.4
17.5°	8615.2	8383.0	7664.0	6722.0	5628.7	4567.9	3612.8	2989.2	2780.4	2730.8	2709.9
20°	8578.7	8269.4	7347.0	6167.5	4774.0	3477.1	2638.2	2330.3	2331.6	2389.0	2396.8
22.5°	8527.8	8140.3	7009.1	5545.1	3856.8	2532.5	2068.0	1979.3	2069.3	2178.9	2198.5
25°	8452.1	7987.6	6633.3	4857.6	2940.9	1946.7	1766.6	1762.7	1872.3	1987.1	2004.1
27.5°	8345.1	7788.0	6215.8	4119.1	2167.2	1654.4	1582.7	1610.1	1690.9	1774.4	1781.0
30°	8201.6	7555.8	5755.2	3340.1	1698.8	1473.1	1465.2	1490.0	1539.6	1598.3	1603.5
32.5°	8043.7	7319.6	5263.3	2586.0	1454.8	1375.2	1383.0	1394.8	1418.3	1441.7	1447.0
35°	7900.2	7078.2	4759.7	1964.9	1338.7	1311.3	1306.0	1303.4	1306.0	1298.2	1299.5
37.5°	7807.6	6878.6	4235.2	1564.4	1272.1	1255.2	1239.5	1219.9	1197.8	1184.7	1187.3
40°	7773.6	6729.9	3704.2	1351.7	1217.3	1205.6	1175.6	1133.8	1107.7	1099.9	1099.9
42.5°	7865.0	6652.9	3191.4	1244.7	1171.7	1152.1	1102.5	1054.2	1034.7	1033.4	1032.1
45°	8144.2	6684.2	2703.4	1186.0	1129.9	1092.1	1026.8	986.4	973.3	975.9	974.6
47.5°	8645.2	6881.2	2285.9	1146.9	1088.2	1038.6	965.5	932.9	917.2	917.2	918.5
50°	9497.2	7341.8	1953.2	1114.2	1052.9	989.0	921.1	880.7	859.8	858.5	858.5
52.5°	10738.0	8166.4	1745.7	1086.8	1013.8	944.6	876.8	825.9	801.1	795.9	793.3
55°	12293.3	9348.5	1688.3	1068.6	961.6	896.4	823.3	772.4	745.0	733.3	732.0
57.5°	14032.5	10786.3	1801.8	1046.4	908.1	838.9	764.6	716.3	687.6	673.2	671.9
60°	15792.6	12355.9	2265.0	1015.1	863.7	776.3	704.6	660.2	631.5	615.8	613.2
62.5°	17555.3	14010.3	3211.0	1012.5	832.4	716.3	643.2	605.4	578.0	561.0	557.1
65°	19543.7	15821.3	4286.1	1081.6	822.0	661.5	580.6	550.6	527.1	511.5	510.2
67.5°	21827.0	17865.8	4183.0	1223.8	857.2	611.9	521.9	498.4	481.4	468.4	467.1
70°	22898.2	17546.2	2600.3	1324.3	906.8	563.6	465.8	448.8	435.8	426.7	422.7
71°	22449.4	16660.2	2180.2	1312.6	901.6	542.8	443.6	430.6	417.5	409.7	405.8
72.5°	21225.5	15193.7	1818.8	1221.2	842.9	504.9	414.9	401.9	390.1	381.0	378.4
75°	19046.6	13569.3	1456.1	975.9	671.9	426.7	364.0	349.7	340.5	335.3	330.1
77.5°	14001.2	9683.8	1126.0	771.1	494.5	348.4	310.5	300.1	291.0	283.1	279.2
80°	5363.8	3751.1	758.1	575.4	362.7	275.3	250.5	245.3	236.2	230.9	230.9
82.5°	1444.3	1120.8	404.5	348.4	242.7	200.9	191.8	189.2	181.4	170.9	172.2
85°	584.5	494.5	227.0	191.8	148.7	118.7	129.2	130.5	121.3	108.3	109.6
87.5°	257.0	210.1	126.6	84.8	65.2	45.7	58.7	58.7	53.5	44.4	40.4
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)