

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: P319283

Luminaire Tested: **GAN-SA9B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319283
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-SA9B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 41853 lumens
Efficiency: N/A
Efficacy: 111.9 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): 374
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

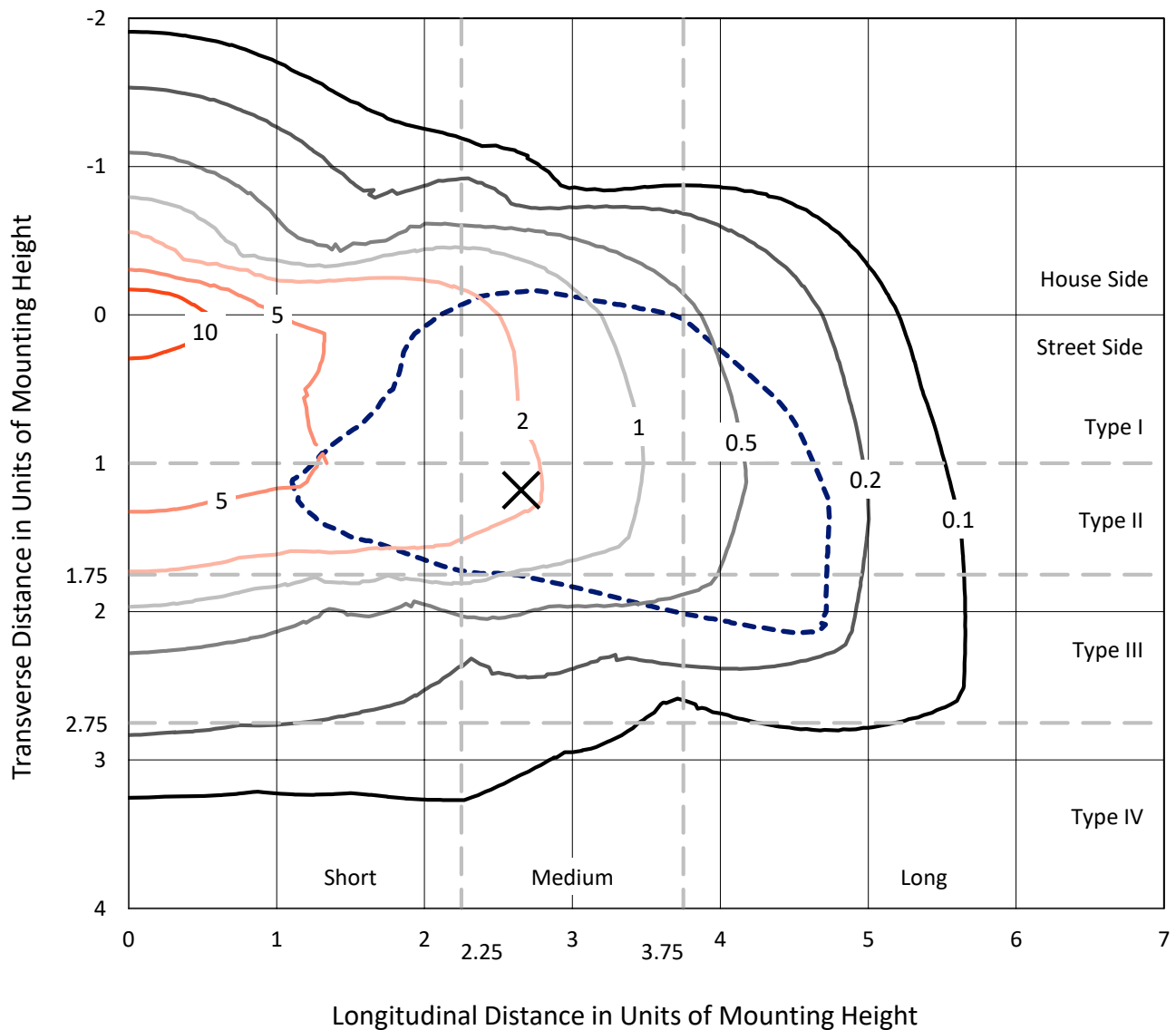


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Iso-Footcandle Lines of Horizontal Illumination

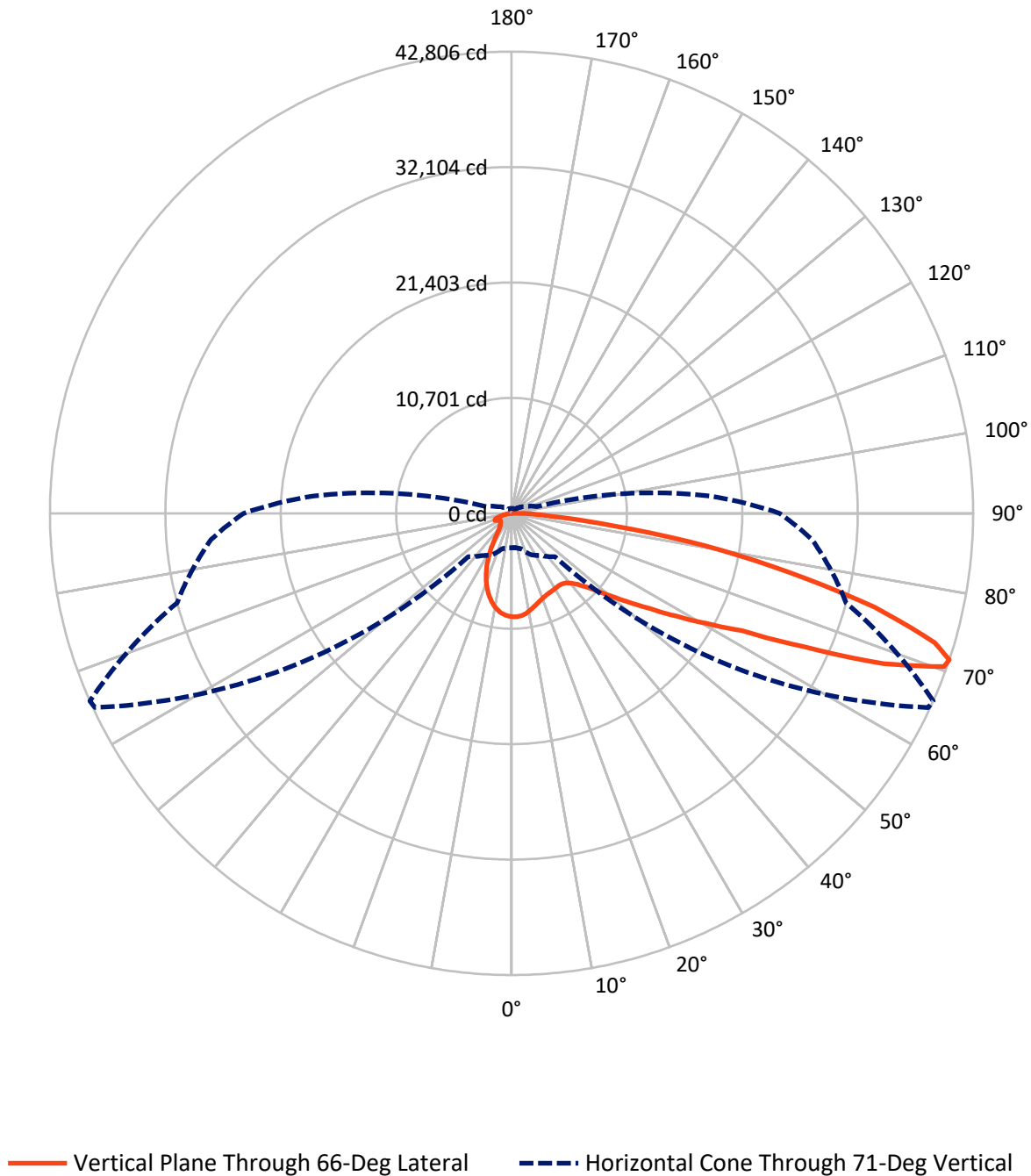
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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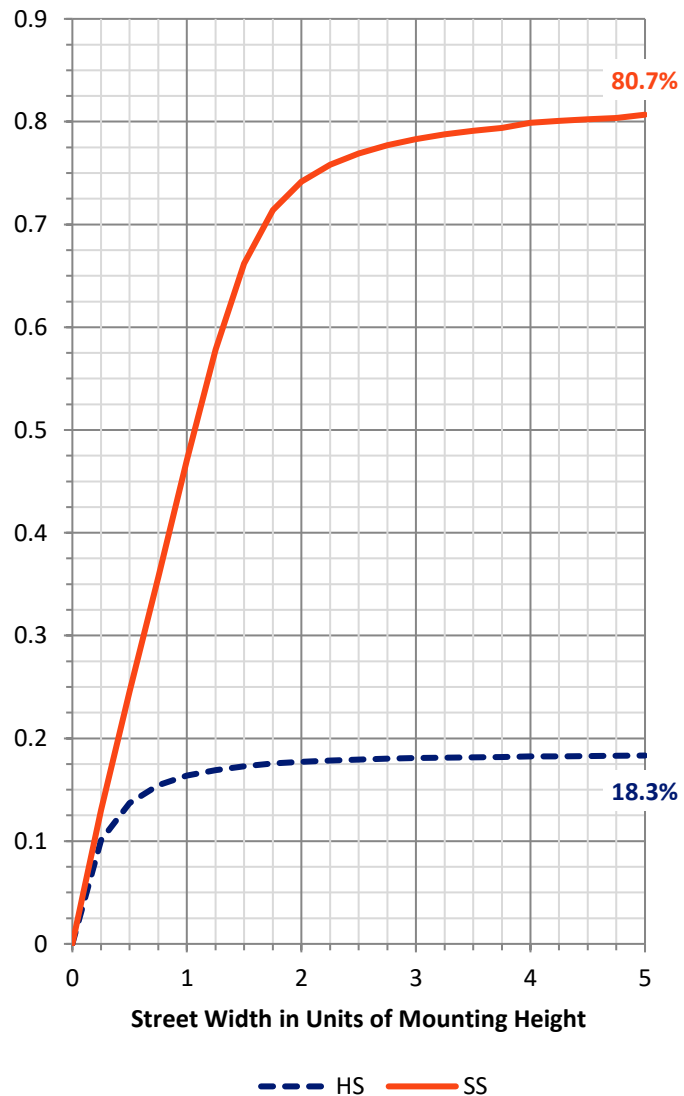
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7756.5	0.0	7756.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	34096.5	0.0	34096.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	41853.0	0.0	41853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.9	2.0
10°-20°	2024.1	4.8
20°-30°	2718.9	6.5
30°-40°	3576.7	8.5
40°-50°	5203.2	12.4
50°-60°	8127.9	19.4
60°-70°	10181.6	24.3
70°-80°	7766.3	18.6
80°-90°	1410.3	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°	41853.0	100.0
0°-180°	41853.0	100.0

Coefficient of Utilization



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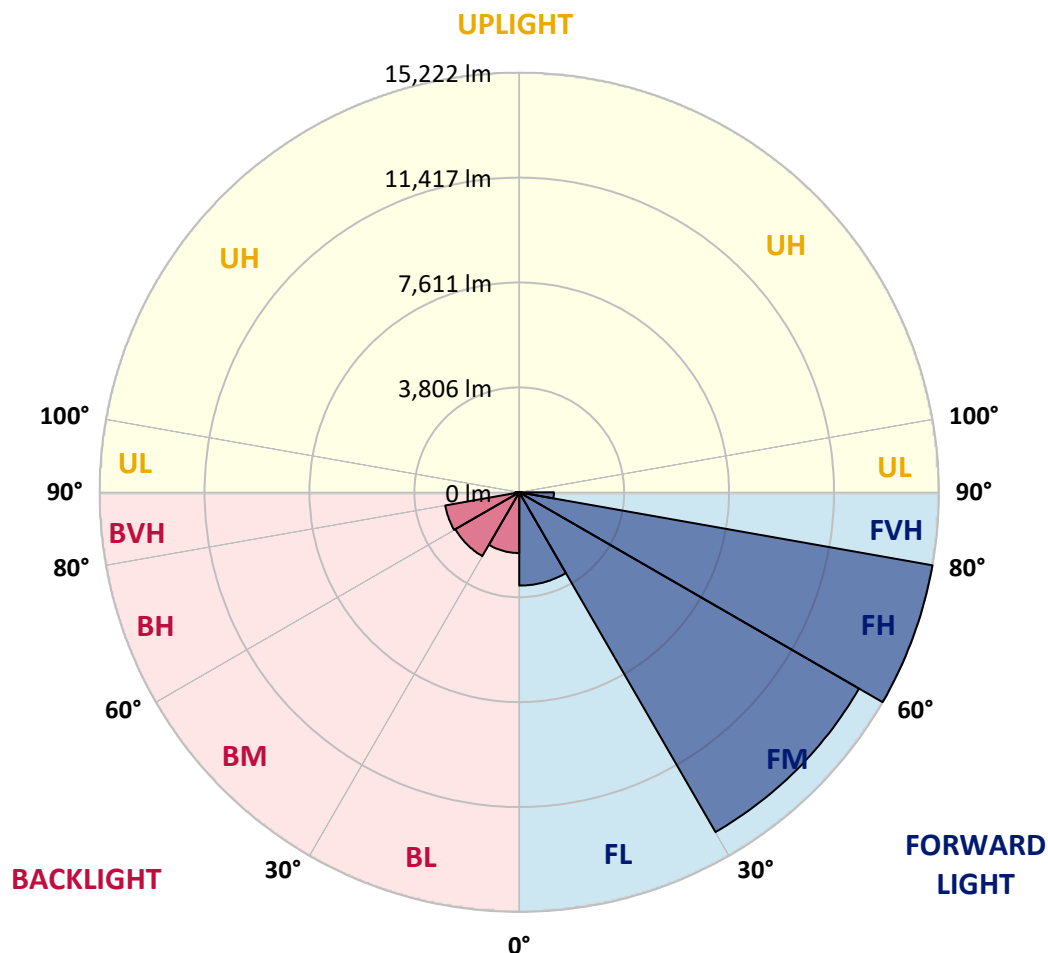
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3384.4	8.1			
FM	(30°-60°)	14232.1	34.0			
FH	(60°-80°)	15222.4	36.4			G5
FVH	(80°-90°)	1257.6	3.0			G5
BL	(0°-30°)	2202.6	5.3	B3/2500		
BM	(30°-60°)	2675.7	6.4	B3/5000		
BH	(60°-80°)	2725.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	152.7	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°	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7
2.5°	9410.0	9395.5	9438.9	9483.7	9501.0	9529.9	9573.3	9597.8	9596.4	9600.7	9586.3
5°	8785.7	8766.9	8853.6	8924.4	9060.3	9213.5	9399.9	9532.8	9535.7	9610.8	9631.1
7.5°	8194.7	8181.7	8281.4	8395.6	8553.1	8787.2	9089.2	9375.3	9392.6	9596.4	9667.2
10°	7720.7	7717.9	7814.7	7938.9	8122.5	8384.0	8730.8	9149.9	9175.9	9527.0	9673.0
12.5°	7350.8	7356.6	7440.4	7582.0	7775.7	8048.8	8424.5	8897.0	8938.9	9417.2	9639.7
15°	7077.7	7100.8	7168.7	7311.8	7502.5	7780.0	8165.8	8662.9	8726.5	9294.4	9620.9
17.5°	6921.6	6947.7	6995.3	7113.8	7293.0	7560.3	7925.9	8470.7	8528.5	9200.4	9622.4
20°	6875.4	6897.1	6924.5	6996.8	7148.5	7391.3	7736.6	8297.3	8359.4	9125.3	9636.8
22.5°	6966.4	6982.3	6985.2	6979.4	7071.9	7269.9	7599.4	8170.1	8236.6	9076.2	9647.0
25°	7161.5	7183.2	7167.3	7113.8	7083.5	7204.9	7528.6	8086.3	8152.8	9040.0	9626.7
27.5°	7454.9	7457.8	7444.7	7375.4	7232.3	7212.1	7506.9	8037.2	8100.8	8998.1	9584.8
30°	7853.7	7872.5	7849.4	7755.4	7521.3	7327.7	7532.9	7989.5	8047.3	8944.7	9516.9
32.5°	8320.4	8366.7	8365.2	8267.0	7931.7	7586.4	7639.8	7960.6	8005.4	8888.3	9434.5
35°	8804.5	8868.1	8986.6	8944.7	8530.0	7995.3	7845.0	8006.9	8037.2	8881.1	9376.7
37.5°	9307.4	9371.0	9615.2	9727.9	9242.4	8580.5	8168.7	8170.1	8184.6	8969.2	9372.4
40°	9833.4	9901.3	10268.3	10561.7	10165.7	9321.8	8690.4	8511.2	8495.3	9186.0	9457.7
42.5°	10570.3	10631.0	11071.7	11446.0	11190.2	10271.2	9411.4	9037.2	9003.9	9610.8	9730.8
45°	11502.4	11554.4	12022.6	12422.8	12291.3	11355.0	10317.4	9761.1	9755.3	10318.9	10284.2
47.5°	12610.7	12651.2	13071.7	13458.9	13506.6	12602.0	11456.1	10878.1	10784.2	11289.9	11141.1
50°	13765.3	13810.1	14096.2	14512.3	14866.4	14271.0	12921.4	12246.6	12120.8	12571.7	12354.9
52.5°	14529.7	14588.9	14837.5	15364.9	16395.2	16100.4	14654.0	13905.4	13714.7	14125.1	13958.9
55°	14188.7	14321.6	14701.6	15547.0	17617.7	18895.1	16791.1	15840.3	15625.0	15966.0	15867.8
57.5°	12638.2	12820.2	13339.0	14643.8	17789.6	21357.4	20022.2	18119.1	17967.4	17869.1	17913.9
60°	9804.5	9979.3	10622.3	12323.1	16591.7	23155.0	24884.7	20928.2	20708.6	19779.4	19819.9
62.5°	6939.0	6850.8	7291.6	8535.7	13482.0	23366.0	30417.7	24685.3	23962.8	21796.7	21619.0
65°	5291.7	5271.4	5469.4	5865.3	8165.8	20841.5	33713.8	31000.0	29871.5	24169.4	23750.4
67.5°	4348.1	4311.9	4507.0	5083.6	5258.4	13445.9	33786.0	38326.3	37218.0	27123.0	26215.6
70°	3575.0	3534.5	3716.6	4460.8	4859.6	6819.1	28435.1	42616.5	42557.3	30862.8	28076.8
71°	3205.1	3176.2	3394.4	4220.9	4774.3	5683.3	24550.9	42628.1	42805.8	32128.6	27966.9
72.5°	2609.7	2619.8	2851.0	3757.1	4710.8	5018.6	18044.0	40641.2	41016.9	33335.2	26968.4
75°	1734.0	1742.7	2046.1	2890.0	4567.7	4910.2	9917.2	34102.5	34793.2	32612.7	24608.7
77.5°	1164.7	1161.8	1368.4	1982.6	3979.6	4910.2	5814.8	25506.1	26264.7	25949.7	18971.7
80°	802.0	796.2	942.2	1368.4	3012.9	4969.4	4495.5	17874.9	18104.7	14013.8	7710.6
82.5°	491.3	495.6	615.6	966.7	2050.5	4472.3	4244.0	9746.7	9496.7	3930.5	1926.2
85°	281.8	280.3	393.0	654.6	1316.4	3774.4	4138.5	4194.9	3848.1	1183.5	696.5
87.5°	101.2	108.4	211.0	362.7	754.3	2628.5	3511.4	2182.0	1966.7	534.7	315.0
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°	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7	9587.7
2.5°	9576.2	9584.8	9574.7	9516.9	9467.8	9388.3	9343.5	9281.4	9262.6	9253.9	9277.0
5°	9612.3	9615.2	9529.9	9378.2	9207.7	9006.8	8862.3	8684.6	8600.8	8564.6	8587.8
7.5°	9645.5	9632.5	9446.1	9155.7	8840.6	8490.9	8180.3	7895.6	7729.4	7661.5	7667.3
10°	9649.8	9594.9	9295.8	8846.4	8358.0	7845.0	7368.2	6928.9	6651.4	6470.8	6525.7
12.5°	9605.1	9512.6	9074.7	8446.1	7768.4	7069.0	6424.6	5765.6	5369.7	5186.2	5192.0
15°	9570.4	9402.7	8803.1	7975.1	7064.7	6138.4	5258.4	4483.9	4062.0	3874.1	3786.0
17.5°	9541.5	9284.3	8488.1	7444.7	6233.8	5059.0	4001.3	3310.5	3079.3	3024.4	3001.3
20°	9501.0	9158.5	8136.9	6830.6	5287.3	3851.0	2921.8	2580.8	2582.3	2645.8	2654.5
22.5°	9444.7	9015.5	7762.7	6141.3	4271.5	2804.8	2290.4	2192.1	2291.8	2413.2	2434.9
25°	9360.8	8846.4	7346.5	5379.8	3257.1	2156.0	1956.6	1952.2	2073.6	2200.8	2219.6
27.5°	9242.4	8625.3	6884.1	4561.9	2400.2	1832.3	1752.8	1783.2	1872.7	1965.2	1972.5
30°	9083.4	8368.1	6374.0	3699.3	1881.4	1631.4	1622.8	1650.2	1705.1	1770.2	1775.9
32.5°	8908.6	8106.6	5829.2	2864.0	1611.2	1523.1	1531.7	1544.7	1570.7	1596.7	1602.5
35°	8749.6	7839.2	5271.4	2176.2	1482.6	1452.2	1446.5	1443.6	1446.5	1437.8	1439.2
37.5°	8647.0	7618.1	4690.5	1732.6	1408.9	1390.1	1372.8	1351.1	1326.5	1312.1	1315.0
40°	8609.4	7453.4	4102.4	1497.0	1348.2	1335.2	1302.0	1255.7	1226.8	1218.2	1218.2
42.5°	8710.6	7368.2	3534.5	1378.5	1297.6	1276.0	1221.0	1167.6	1145.9	1144.5	1143.0
45°	9019.8	7402.8	2994.1	1313.5	1251.4	1209.5	1137.2	1092.4	1078.0	1080.9	1079.4
47.5°	9574.7	7621.0	2531.7	1270.2	1205.1	1150.2	1069.3	1033.2	1015.8	1015.8	1017.3
50°	10518.3	8131.1	2163.2	1234.0	1166.1	1095.3	1020.2	975.4	952.3	950.8	950.8
52.5°	11892.5	9044.4	1933.4	1203.7	1122.8	1046.2	971.1	914.7	887.2	881.5	878.6
55°	13615.0	10353.6	1869.9	1183.5	1065.0	992.7	911.8	855.5	825.1	812.1	810.7
57.5°	15541.2	11946.0	1995.6	1158.9	1005.7	929.1	846.8	793.3	761.5	745.6	744.2
60°	17490.5	13684.3	2508.6	1124.2	956.6	859.8	780.3	731.2	699.4	682.0	679.2
62.5°	19442.8	15516.6	3556.2	1121.3	921.9	793.3	712.4	670.5	640.1	621.4	617.0
65°	21645.0	17522.3	4746.9	1197.9	910.4	732.6	643.0	609.8	583.8	566.4	565.0
67.5°	24173.8	19786.7	4632.7	1355.4	949.4	677.7	578.0	552.0	533.2	518.8	517.3
70°	25360.1	19432.6	2879.9	1466.7	1004.3	624.2	515.9	497.1	482.6	472.5	468.2
71°	24863.0	18451.5	2414.6	1453.7	998.5	601.1	491.3	476.9	462.4	453.7	449.4
72.5°	23507.6	16827.3	2014.4	1352.5	933.5	559.2	459.5	445.1	432.1	421.9	419.1
75°	21094.4	15028.2	1612.6	1080.9	744.2	472.5	403.2	387.3	377.2	371.4	365.6
77.5°	15506.5	10724.9	1247.1	854.0	547.7	385.8	343.9	332.4	322.2	313.6	309.2
80°	5940.5	4154.4	839.6	637.3	401.7	304.9	277.4	271.7	261.5	255.8	255.8
82.5°	1599.6	1241.3	448.0	385.8	268.8	222.5	212.4	209.5	200.9	189.3	190.7
85°	647.4	547.7	251.4	212.4	164.7	131.5	143.1	144.5	134.4	119.9	121.4
87.5°	284.7	232.6	140.2	93.9	72.3	50.6	65.0	65.0	59.2	49.1	44.8
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)