

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: P319282

Luminaire Tested: **GAN-SA8B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319282
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-SA8B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 37521 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

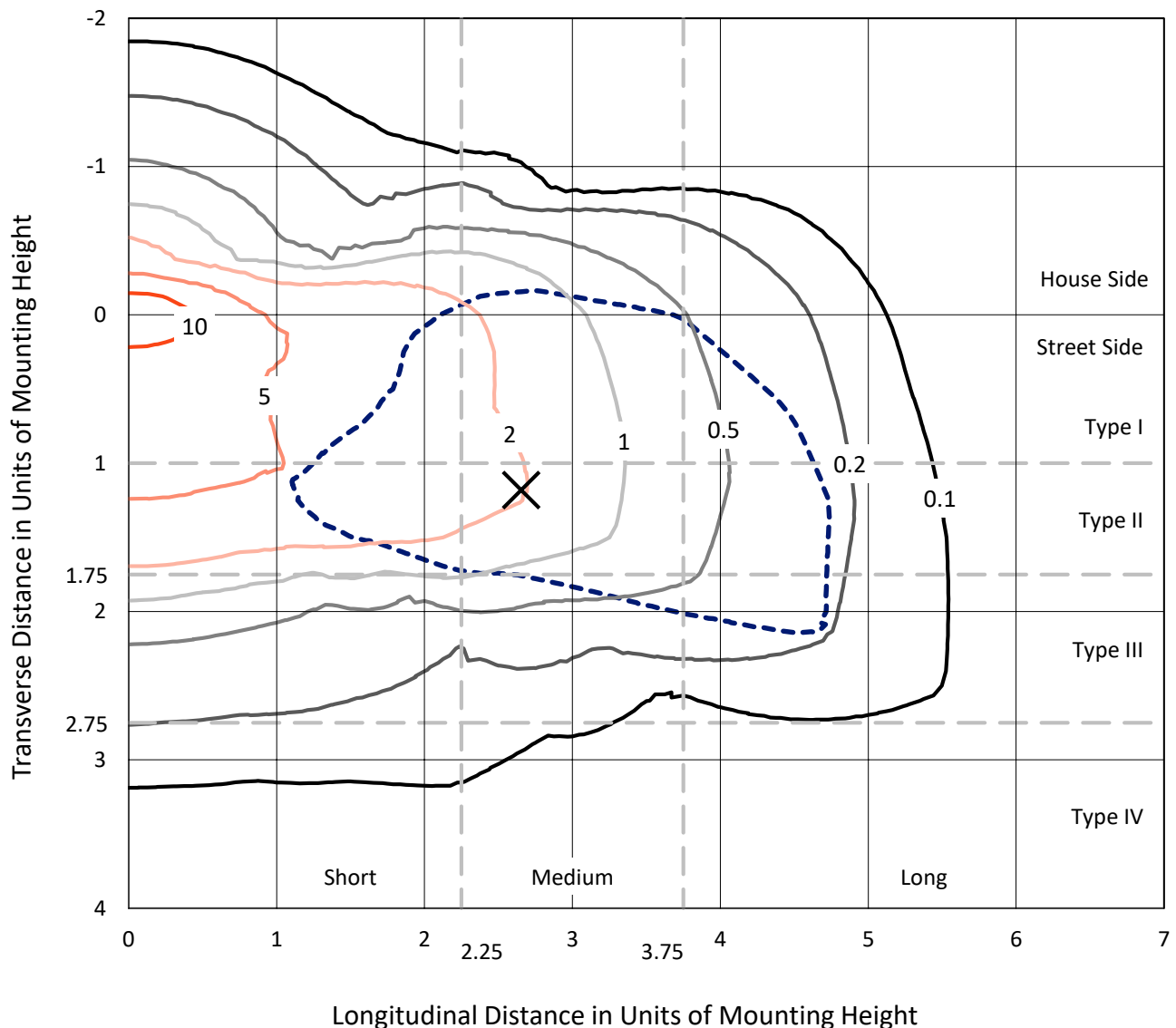


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Iso-Footcandle Lines of Horizontal Illumination

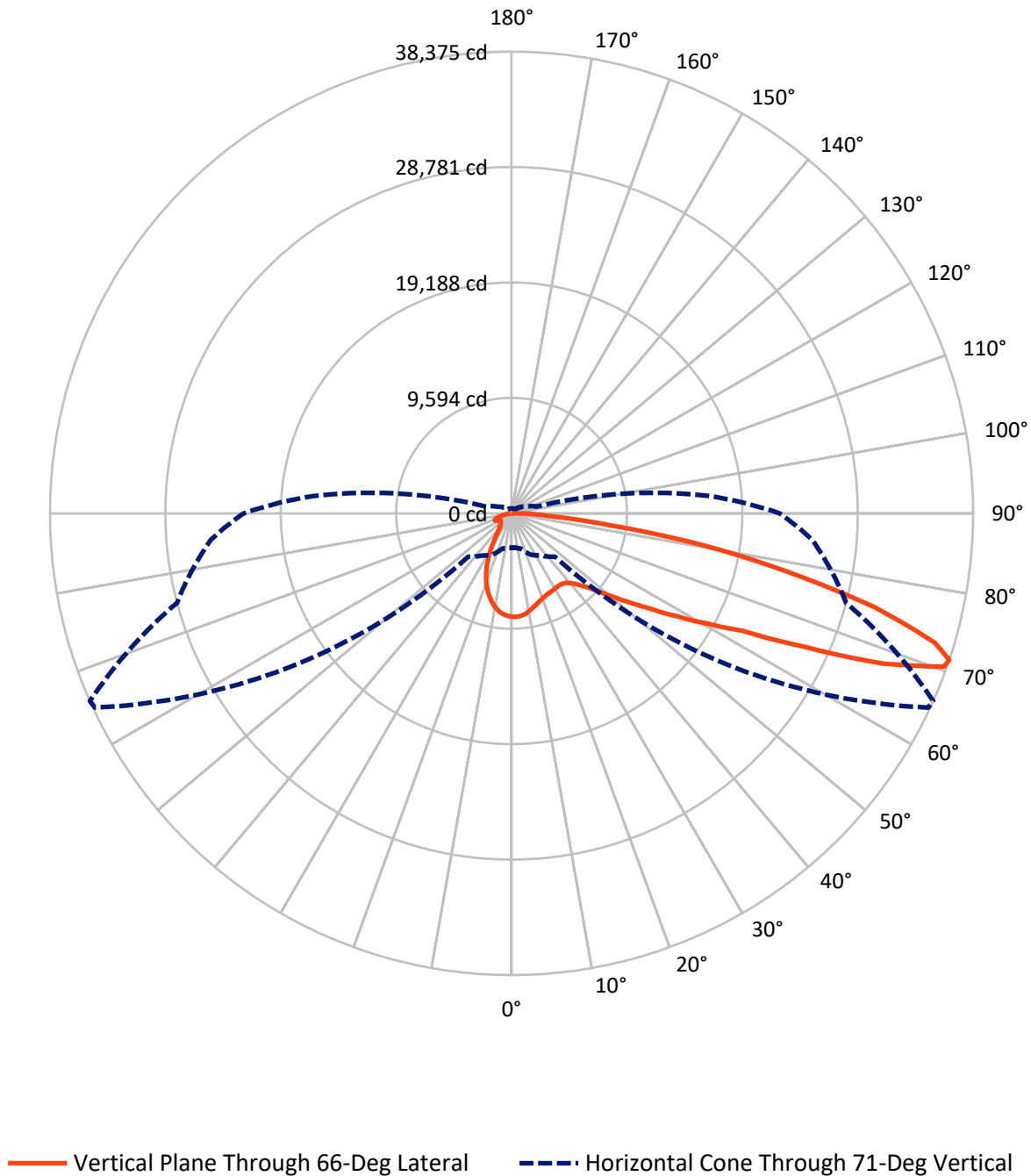
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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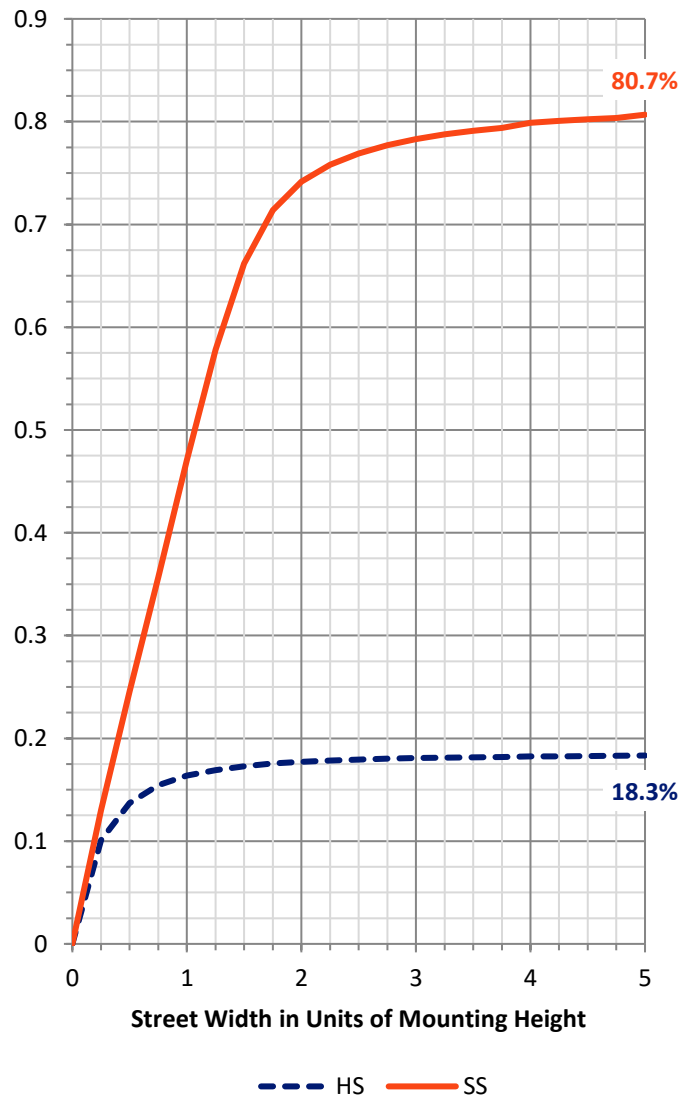
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6953.7	0.0	6953.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	30567.3	0.0	30567.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	37521.0	0.0	37521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.6	2.0
10°-20°	1814.6	4.8
20°-30°	2437.5	6.5
30°-40°	3206.5	8.5
40°-50°	4664.6	12.4
50°-60°	7286.7	19.4
60°-70°	9127.7	24.3
70°-80°	6962.4	18.6
80°-90°	1264.3	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°	37521.0	100.0
0°-180°	37521.0	100.0

Coefficient of Utilization



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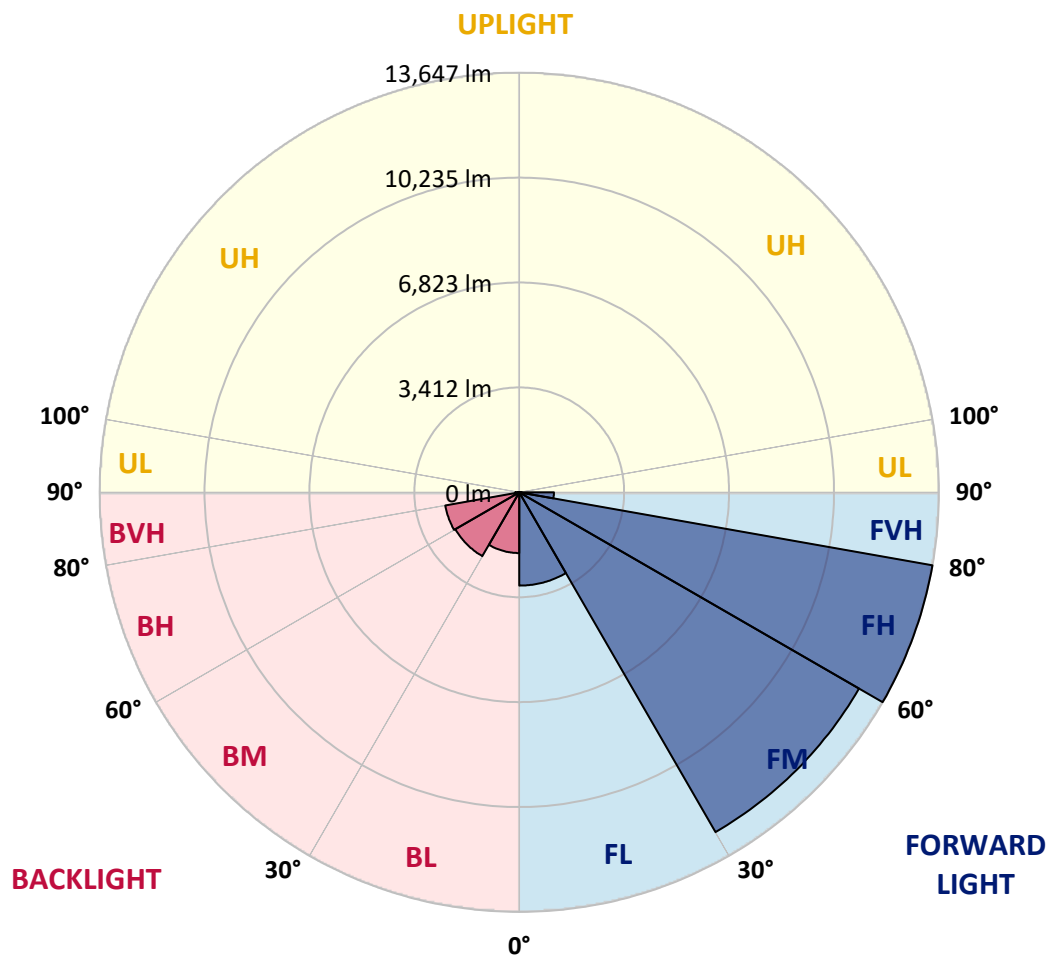
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3034.1	8.1			
FM	(30°-60°)	12759.0	34.0			
FH	(60°-80°)	13646.8	36.4			G5
FVH	(80°-90°)	1127.4	3.0			G5
BL	(0°-30°)	1974.7	5.3	B3/2500		
BM	(30°-60°)	2398.8	6.4	B2/2500		
BH	(60°-80°)	2443.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	136.9	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°	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3
2.5°	8436.0	8423.0	8461.9	8502.1	8517.6	8543.5	8582.4	8604.4	8603.1	8607.0	8594.0
5°	7876.4	7859.5	7937.2	8000.7	8122.5	8259.8	8426.9	8546.1	8548.7	8616.1	8634.2
7.5°	7346.5	7334.9	7424.2	7526.6	7667.8	7877.7	8148.4	8404.9	8420.4	8603.1	8666.6
10°	6921.6	6919.0	7005.8	7117.2	7281.7	7516.2	7827.1	8202.8	8226.1	8540.9	8671.8
12.5°	6590.0	6595.2	6670.3	6797.2	6970.8	7215.7	7552.5	7976.1	8013.7	8442.5	8642.0
15°	6345.1	6365.9	6426.7	6555.0	6726.0	6974.7	7320.6	7766.2	7823.2	8332.4	8625.1
17.5°	6205.2	6228.5	6271.3	6377.5	6538.2	6777.8	7105.6	7593.9	7645.8	8248.2	8626.4
20°	6163.8	6183.2	6207.8	6272.6	6408.6	6626.2	6935.9	7438.5	7494.2	8180.8	8639.4
22.5°	6245.4	6259.6	6262.2	6257.0	6339.9	6517.4	6812.8	7324.5	7384.1	8136.7	8648.4
25°	6420.3	6439.7	6425.4	6377.5	6350.3	6459.1	6749.3	7249.4	7308.9	8104.4	8630.3
27.5°	6683.2	6685.8	6674.2	6612.0	6483.7	6465.6	6729.9	7205.3	7262.3	8066.8	8592.7
30°	7040.8	7057.6	7036.9	6952.7	6742.8	6569.2	6753.2	7162.6	7214.4	8018.9	8531.9
32.5°	7459.2	7500.7	7499.4	7411.3	7110.7	6801.1	6849.1	7136.7	7176.8	7968.3	8458.0
35°	7893.2	7950.2	8056.4	8018.9	7647.1	7167.7	7033.0	7178.1	7205.3	7961.9	8406.2
37.5°	8344.0	8401.0	8619.9	8721.0	8285.7	7692.4	7323.2	7324.5	7337.4	8040.9	8402.3
40°	8815.6	8876.4	9205.5	9468.5	9113.5	8357.0	7790.9	7630.2	7616.0	8235.2	8478.7
42.5°	9476.2	9530.7	9925.8	10261.3	10032.0	9208.1	8437.3	8101.8	8072.0	8616.1	8723.6
45°	10311.8	10358.4	10778.2	11137.0	11019.1	10179.7	9249.5	8750.8	8745.6	9250.8	9219.7
47.5°	11305.4	11341.7	11718.7	12065.9	12108.6	11297.7	10270.4	9752.2	9668.0	10121.4	9987.9
50°	12340.5	12380.7	12637.1	13010.2	13327.6	12793.9	11583.9	10979.0	10866.3	11270.4	11076.1
52.5°	13025.8	13078.9	13301.7	13774.6	14698.2	14433.9	13137.2	12466.2	12295.2	12663.1	12514.1
55°	12720.1	12839.2	13179.9	13937.8	15794.2	16939.4	15053.2	14200.8	14007.7	14313.5	14225.4
57.5°	11330.0	11493.3	11958.3	13128.1	15948.3	19146.8	17949.8	16243.7	16107.7	16019.6	16059.7
60°	8789.7	8946.4	9522.9	11047.6	14874.4	20758.3	22309.0	18762.1	18565.1	17732.2	17768.4
62.5°	6220.8	6141.7	6536.9	7652.2	12086.6	20947.5	27269.3	22130.2	21482.5	19540.6	19381.3
65°	4744.0	4725.8	4903.3	5258.2	7320.6	18684.3	30224.2	27791.4	26779.6	21667.8	21292.1
67.5°	3898.0	3865.6	4040.5	4557.4	4714.2	12054.2	30289.0	34359.3	33365.7	24315.7	23502.1
70°	3205.0	3168.7	3331.9	3999.1	4356.6	6113.2	25491.9	38205.5	38152.4	27668.3	25170.7
71°	2873.3	2847.4	3043.0	3784.0	4280.2	5095.0	22009.8	38215.9	38375.2	28803.1	25072.2
72.5°	2339.6	2348.7	2555.9	3368.2	4223.2	4499.1	16176.3	36434.6	36771.5	29884.8	24177.1
75°	1554.5	1562.3	1834.4	2590.9	4094.9	4402.0	8890.7	30572.7	31191.9	29237.1	22061.6
77.5°	1044.1	1041.5	1226.8	1777.4	3567.7	4402.0	5212.9	22866.1	23546.2	23263.8	17008.0
80°	719.0	713.8	844.6	1226.8	2701.0	4455.1	4030.2	16024.8	16230.7	12563.3	6912.5
82.5°	440.5	444.3	551.9	866.7	1838.2	4009.4	3804.7	8737.8	8513.7	3523.6	1726.8
85°	252.6	251.3	352.4	586.8	1180.2	3383.7	3710.2	3760.7	3449.8	1061.0	624.4
87.5°	90.7	97.2	189.1	325.2	676.2	2356.4	3148.0	1956.1	1763.1	479.3	282.4
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°	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3	8595.3
2.5°	8585.0	8592.7	8583.7	8531.9	8487.8	8416.6	8376.4	8320.7	8303.9	8296.1	8316.8
5°	8617.4	8619.9	8543.5	8407.5	8254.6	8074.6	7945.0	7785.7	7710.5	7678.2	7698.9
7.5°	8647.2	8635.5	8468.4	8208.0	7925.6	7612.1	7333.6	7078.4	6929.4	6868.5	6873.7
10°	8651.0	8601.8	8333.7	7930.8	7492.9	7033.0	6605.5	6211.7	5963.0	5801.0	5850.3
12.5°	8610.9	8528.0	8135.4	7571.9	6964.4	6337.4	5759.6	5168.9	4813.9	4649.4	4654.6
15°	8579.8	8429.5	7891.9	7149.6	6333.5	5503.1	4714.2	4019.8	3641.5	3473.1	3394.1
17.5°	8553.9	8323.3	7609.5	6674.2	5588.6	4535.4	3587.1	2967.9	2760.6	2711.4	2690.7
20°	8517.6	8210.6	7294.7	6123.6	4740.1	3452.4	2619.4	2313.7	2315.0	2372.0	2379.7
22.5°	8467.1	8082.3	6959.2	5505.7	3829.4	2514.5	2053.3	1965.2	2054.6	2163.4	2182.8
25°	8391.9	7930.8	6586.1	4823.0	2920.0	1932.8	1754.0	1750.2	1859.0	1973.0	1989.8
27.5°	8285.7	7732.6	6171.5	4089.7	2151.7	1642.6	1571.4	1598.6	1678.9	1761.8	1768.3
30°	8143.2	7502.0	5714.2	3316.4	1686.7	1462.6	1454.8	1479.4	1528.6	1586.9	1592.1
32.5°	7986.5	7267.5	5225.9	2567.6	1444.4	1365.4	1373.2	1384.8	1408.2	1431.5	1436.7
35°	7844.0	7027.8	4725.8	1951.0	1329.1	1301.9	1296.7	1294.2	1296.7	1289.0	1290.3
37.5°	7752.0	6829.6	4205.0	1553.2	1263.1	1246.2	1230.7	1211.2	1189.2	1176.3	1178.9
40°	7718.3	6681.9	3677.8	1342.1	1208.7	1197.0	1167.2	1125.7	1099.8	1092.1	1092.1
42.5°	7809.0	6605.5	3168.7	1235.9	1163.3	1143.9	1094.7	1046.7	1027.3	1026.0	1024.7
45°	8086.2	6636.6	2684.2	1177.6	1121.9	1084.3	1019.5	979.4	966.4	969.0	967.7
47.5°	8583.7	6832.2	2269.6	1138.7	1080.4	1031.2	958.6	926.2	910.7	910.7	912.0
50°	9429.6	7289.5	1939.3	1106.3	1045.4	982.0	914.6	874.4	853.7	852.4	852.4
52.5°	10661.6	8108.2	1733.3	1079.1	1006.6	937.9	870.5	820.0	795.4	790.2	787.6
55°	12205.8	9281.9	1676.3	1061.0	954.7	890.0	817.4	766.9	739.7	728.0	726.7
57.5°	13932.6	10709.5	1789.0	1039.0	901.6	833.0	759.1	711.2	682.7	668.5	667.2
60°	15680.2	12267.9	2248.9	1007.9	857.6	770.8	699.5	655.5	627.0	611.5	608.9
62.5°	17430.3	13910.6	3188.1	1005.3	826.5	711.2	638.7	601.1	573.9	557.0	553.2
65°	19404.6	15708.7	4255.6	1073.9	816.1	656.8	576.5	546.7	523.4	507.8	506.5
67.5°	21671.6	17738.6	4153.2	1215.1	851.1	607.6	518.2	494.9	478.0	465.1	463.8
70°	22735.2	17421.3	2581.8	1314.9	900.3	559.6	462.5	445.6	432.7	423.6	419.7
71°	22289.6	16541.6	2164.7	1303.2	895.2	538.9	440.5	427.5	414.5	406.8	402.9
72.5°	21074.4	15085.6	1805.9	1212.5	836.9	501.3	412.0	399.0	387.3	378.3	375.7
75°	18911.0	13472.7	1445.7	969.0	667.2	423.6	361.4	347.2	338.1	332.9	327.7
77.5°	13901.5	9614.9	1118.0	765.6	491.0	345.9	308.3	298.0	288.9	281.1	277.2
80°	5325.6	3724.4	752.7	571.3	360.1	273.3	248.7	243.5	234.5	229.3	229.3
82.5°	1434.1	1112.8	401.6	345.9	241.0	199.5	190.4	187.8	180.1	169.7	171.0
85°	580.4	491.0	225.4	190.4	147.7	117.9	128.2	129.5	120.5	107.5	108.8
87.5°	255.2	208.6	125.7	84.2	64.8	45.3	58.3	58.3	53.1	44.0	40.2
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)