

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: P319612

Luminaire Tested: **GAN-SA8C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47409 lumens
Efficiency: N/A
Efficacy: 106.5 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): 445
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

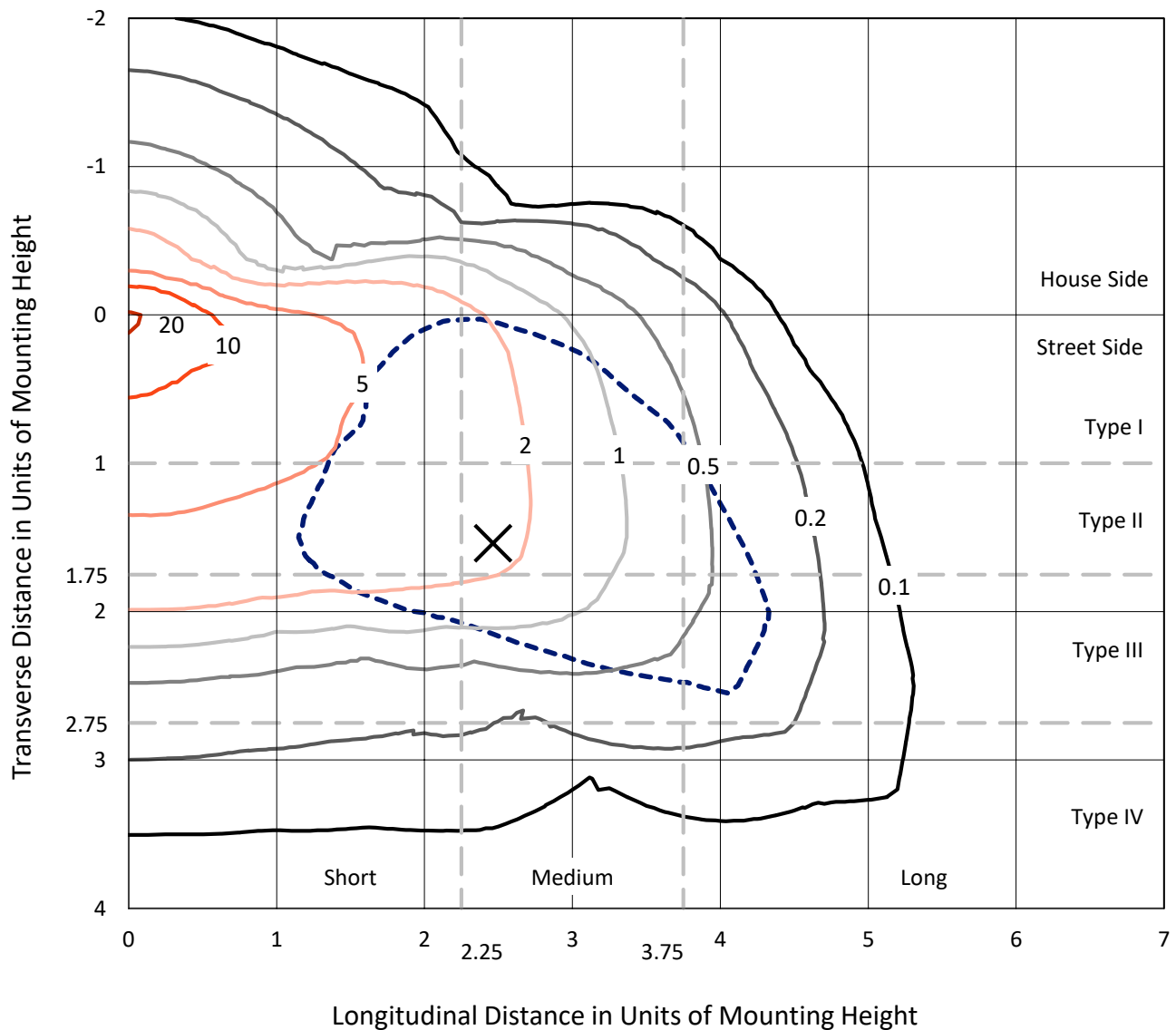


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Iso-Footcandle Lines of Horizontal Illumination

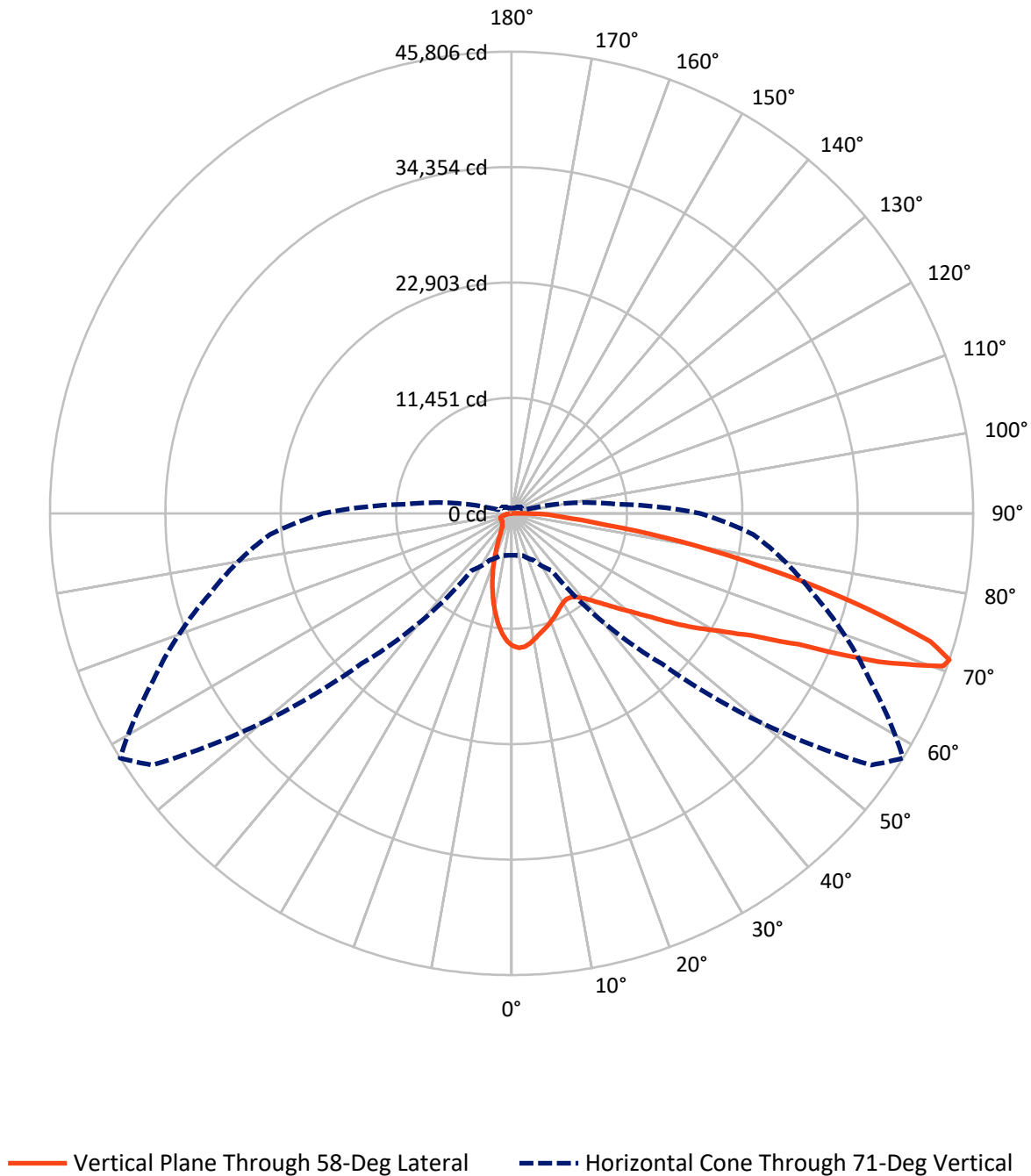
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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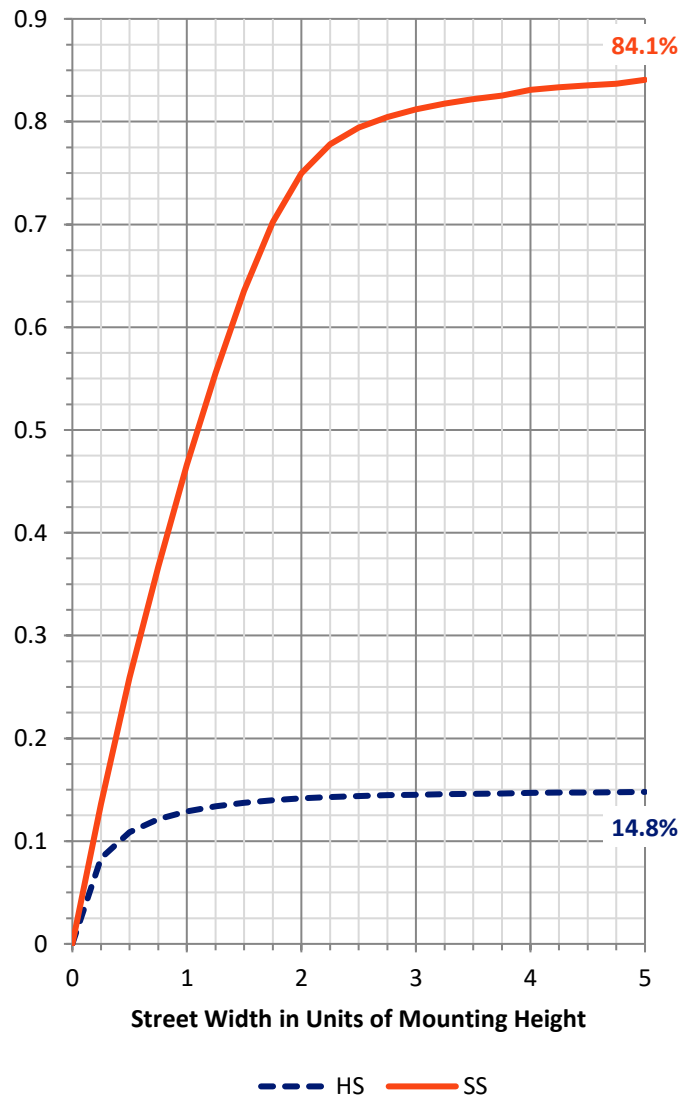
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7088.0	0.0	7088.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	40321.0	0.0	40321.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	47409.0	0.0	47409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.2	2.4
10°-20°	2519.8	5.3
20°-30°	3202.4	6.8
30°-40°	4079.2	8.6
40°-50°	5784.5	12.2
50°-60°	8951.8	18.9
60°-70°	12186.7	25.7
70°-80°	8130.0	17.1
80°-90°	1421.4	3.0
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°	47409.0	100.0
0°-180°	47409.0	100.0

Coefficient of Utilization



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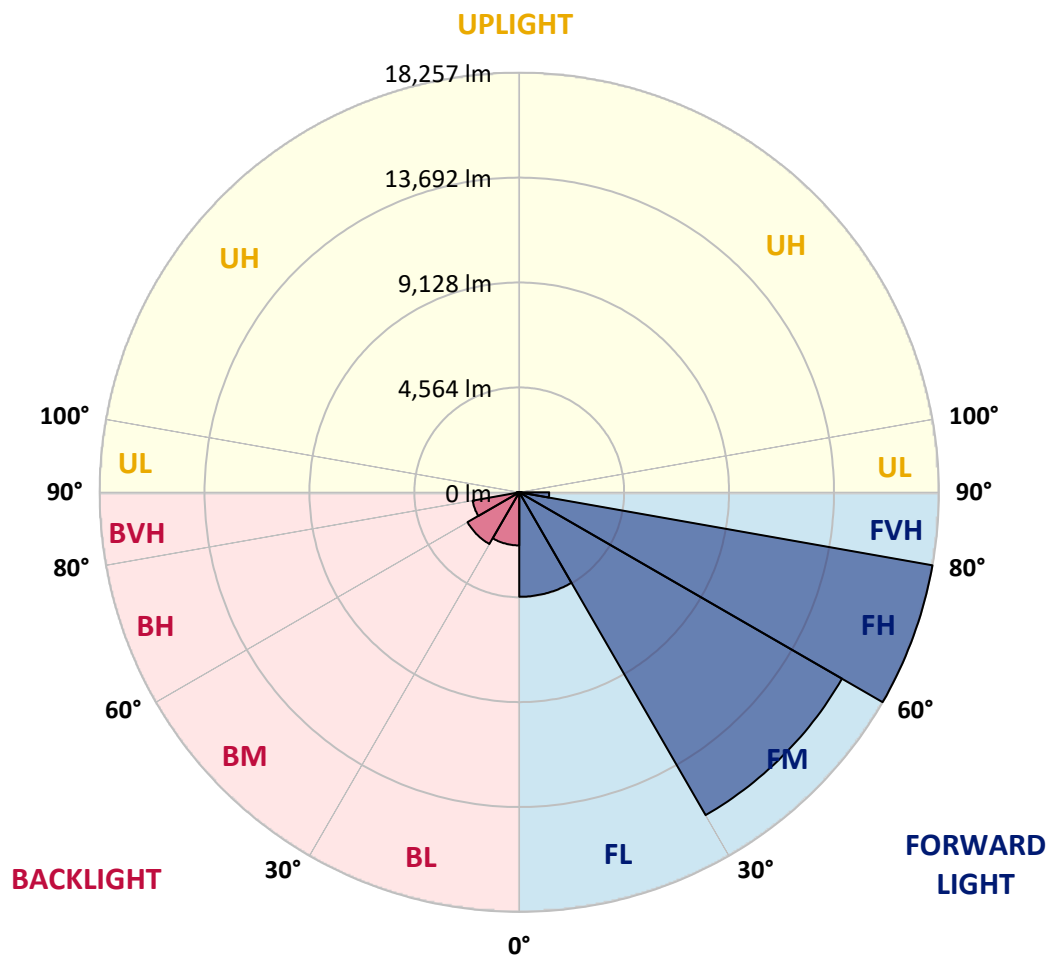
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4544.9	9.6			
FM	(30°-60°)	16216.2	34.2			
FH	(60°-80°)	18256.6	38.5			G5
FVH	(80°-90°)	1303.3	2.7			G5
BL	(0°-30°)	2310.5	4.9	B3/2500		
BM	(30°-60°)	2599.4	5.5	B3/5000		
BH	(60°-80°)	2060.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	118.1	0.2			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°	58°	65°	75°	85°
0°	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5
2.5°	13483.9	13465.7	13472.4	13459.1	13427.8	13396.4	13350.1	13358.4	13294.0	13198.2	13079.3
5°	13229.6	13223.0	13272.5	13300.6	13323.7	13305.6	13292.3	13308.9	13214.7	13082.6	12876.2
7.5°	12696.2	12623.5	12686.3	12780.4	12869.6	12937.3	13026.5	13038.0	12978.6	12839.9	12569.0
10°	11938.2	11868.8	11961.3	12108.3	12286.6	12448.5	12628.5	12661.5	12673.1	12547.6	12218.9
12.5°	11152.1	11099.3	11191.7	11398.2	11693.8	11943.1	12230.5	12280.0	12382.4	12298.2	11895.2
15°	10448.6	10428.8	10541.1	10744.2	11084.4	11465.9	11880.4	11971.2	12144.6	12116.5	11642.6
17.5°	9840.9	9835.9	9921.8	10134.8	10511.3	10993.6	11531.9	11685.5	11943.1	11976.2	11434.5
20°	9388.4	9378.5	9437.9	9594.8	9982.9	10529.5	11155.4	11366.8	11738.4	11854.0	11219.8
22.5°	9145.6	9144.0	9145.6	9219.9	9537.0	10045.6	10788.8	11046.4	11538.5	11756.5	10982.0
25°	9104.3	9099.4	9063.0	9054.8	9234.8	9641.0	10425.5	10709.5	11348.6	11688.8	10755.8
27.5°	9211.7	9218.3	9170.4	9092.8	9129.1	9375.2	10110.0	10413.9	11196.7	11675.6	10598.9
30°	9434.6	9431.3	9390.0	9309.1	9238.1	9276.1	9885.5	10189.3	11094.3	11733.4	10491.5
32.5°	9680.7	9698.8	9690.6	9646.0	9540.3	9388.4	9817.7	10115.0	11064.6	11872.1	10445.3
35°	9976.3	9996.1	10055.5	10090.2	9966.4	9722.0	9963.1	10220.7	11150.4	12133.0	10519.6
37.5°	10257.0	10308.2	10475.0	10622.0	10516.3	10243.8	10349.5	10532.8	11416.3	12544.3	10719.4
40°	10580.7	10625.3	10897.8	11209.9	11193.4	10911.0	10972.1	11094.3	11885.3	13133.8	11081.1
42.5°	10899.4	10988.6	11383.3	11825.9	11953.0	11703.7	11801.1	11865.5	12545.9	13914.9	11711.9
45°	11323.8	11419.6	11967.9	12501.3	12798.6	12658.2	12813.4	12838.2	13376.6	14978.5	12628.5
47.5°	11966.3	12075.2	12714.3	13274.2	13728.3	13743.2	13999.2	13989.3	14413.7	16195.6	13782.8
50°	12967.0	13123.9	13647.4	14170.9	14722.5	15029.7	15371.5	15323.6	15657.2	17491.9	15112.2
52.5°	14278.3	14350.9	14739.0	15125.4	15810.8	16499.4	16989.9	16947.0	17067.5	18824.6	16621.6
55°	15637.4	15691.9	15852.1	16063.4	16984.9	18107.9	19145.0	19077.3	18771.8	20208.5	18112.9
57.5°	16859.4	16970.1	17080.7	17168.3	18167.4	19789.1	21349.7	21354.6	20621.4	21701.4	19653.7
60°	17049.3	17146.8	17878.4	18568.7	20190.4	22031.7	23709.6	23660.0	22535.4	23321.5	21371.1
62.5°	15070.9	15290.6	16512.6	18349.0	22139.1	26133.9	26720.1	26659.0	24824.3	25318.1	23371.0
65°	10800.3	11049.7	12524.4	15284.0	21194.4	30653.8	32153.3	31330.9	27945.5	27773.7	25712.7
67.5°	6230.8	6290.3	6929.4	9145.6	16137.8	30890.0	40441.8	39290.8	32792.4	30559.7	26858.8
70°	4607.5	4605.8	4757.8	5628.1	8732.8	25210.7	44383.8	45415.9	37895.3	31476.2	25238.8
71°	4166.6	4171.5	4341.6	5122.7	6916.2	21102.0	43546.5	45805.7	39239.6	31023.7	24066.3
72.5°	3563.8	3580.3	3816.5	4594.3	5818.0	14552.4	39939.8	43467.2	39877.0	29907.4	22231.5
75°	2703.4	2741.4	3068.4	3872.6	5317.6	7380.2	29312.9	34709.7	35424.8	26389.8	16519.2
77.5°	1928.9	1971.8	2341.7	3256.6	5055.0	5562.0	19630.5	25318.1	26069.5	16912.3	7451.2
80°	1218.8	1269.9	1549.0	2591.1	4749.5	5281.3	12336.2	17018.0	14215.5	5411.7	1895.8
82.5°	715.1	754.7	961.1	1692.7	3879.2	5086.4	7258.0	9433.0	5532.3	1634.9	862.0
85°	414.5	432.7	599.5	1078.4	2817.3	4800.7	5332.5	5273.0	2401.2	799.3	407.9
87.5°	193.2	214.7	355.1	563.1	1563.9	3479.6	4214.4	3641.4	1492.9	374.9	191.6
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°	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5	13135.5
2.5°	13021.5	12993.4	12876.2	12772.1	12663.2	12521.1	12364.2	12344.4	12248.6	12266.8	12233.8
5°	12763.9	12692.9	12410.5	12154.5	11852.3	11581.5	11287.5	11152.1	10957.2	10944.0	10894.5
7.5°	12395.6	12263.5	11825.9	11340.4	10854.8	10392.4	9935.0	9634.4	9327.3	9196.8	9185.2
10°	11981.1	11756.5	11112.5	10394.1	9693.9	9018.5	8364.5	7880.6	7444.6	7238.2	7230.0
12.5°	11588.1	11256.1	10372.6	9395.0	8437.1	7561.9	6665.2	6029.4	5482.7	5299.4	5221.8
15°	11254.5	10787.1	9652.6	8402.5	7239.9	6024.4	5003.8	4335.0	3829.7	3654.6	3621.6
17.5°	10930.8	10329.7	8914.4	7400.1	5994.7	4658.7	3636.4	3139.4	2870.2	2799.2	2797.5
20°	10608.8	9859.0	8143.2	6374.5	4790.8	3484.5	2795.9	2572.9	2482.1	2473.8	2460.6
22.5°	10243.8	9360.3	7332.3	5345.7	3738.8	2739.7	2376.4	2287.2	2275.7	2305.4	2305.4
25°	9902.0	8864.9	6509.9	4338.3	2908.2	2285.6	2122.1	2103.9	2135.3	2188.1	2193.1
27.5°	9583.2	8387.6	5707.3	3443.2	2330.2	2013.1	1945.4	1966.9	2023.0	2084.1	2085.8
30°	9320.7	7936.8	4927.9	2713.3	1968.5	1810.0	1798.4	1841.3	1902.4	1950.3	1961.9
32.5°	9117.5	7552.0	4174.8	2181.5	1732.3	1658.0	1667.9	1704.3	1742.3	1768.7	1786.8
35°	9023.4	7221.7	3479.6	1839.7	1582.1	1540.8	1554.0	1573.8	1590.3	1610.1	1625.0
37.5°	9039.9	6965.7	2858.6	1626.7	1481.3	1459.9	1459.9	1459.9	1459.9	1469.8	1471.4
40°	9193.5	6818.7	2353.3	1491.2	1413.6	1390.5	1372.3	1355.8	1342.6	1349.2	1345.9
42.5°	9586.5	6805.5	1983.4	1405.4	1359.1	1321.1	1284.8	1261.7	1245.2	1251.8	1255.1
45°	10253.7	6970.7	1734.0	1344.3	1307.9	1250.1	1203.9	1179.1	1167.6	1189.0	1192.3
47.5°	11117.4	7330.7	1582.1	1299.7	1260.0	1184.1	1134.5	1111.4	1114.7	1146.1	1154.3
50°	12230.5	7915.3	1509.4	1271.6	1227.0	1127.9	1076.7	1056.9	1066.8	1111.4	1121.3
52.5°	13452.5	8757.5	1517.7	1263.3	1205.5	1086.6	1032.1	1009.0	1025.5	1066.8	1075.1
55°	14862.9	9769.9	1654.7	1274.9	1174.2	1060.2	995.8	956.2	969.4	1007.4	1014.0
57.5°	16430.1	10929.2	1930.5	1271.6	1134.5	1035.4	957.8	898.4	908.3	931.4	938.0
60°	18061.7	12329.6	2358.2	1281.5	1116.4	1005.7	906.6	832.3	829.0	848.8	852.1
62.5°	20020.3	13949.6	2847.1	1288.1	1127.9	967.7	838.9	766.3	756.4	761.3	764.6
65°	22038.3	15122.1	2663.8	1261.7	1164.3	936.4	779.5	701.9	683.7	680.4	682.0
67.5°	22101.1	13865.4	1867.8	1208.8	1179.1	919.8	734.9	647.4	617.6	606.1	604.4
70°	19820.4	11264.4	1454.9	1152.7	1119.7	893.4	693.6	602.8	558.2	540.0	538.4
71°	18707.4	10369.3	1378.9	1124.6	1075.1	867.0	675.4	583.0	536.7	516.9	513.6
72.5°	16961.8	9295.9	1286.5	1080.0	989.2	799.3	640.8	554.9	507.0	483.9	478.9
75°	12172.7	6078.9	1104.8	962.8	819.1	637.5	561.5	498.7	457.4	429.4	426.1
77.5°	4690.1	2419.3	835.6	800.9	627.5	498.7	462.4	431.0	401.3	373.2	371.6
80°	1450.0	1081.7	609.4	602.8	454.1	371.6	360.0	351.8	340.2	310.5	303.9
82.5°	774.5	620.9	419.5	389.7	297.3	247.7	260.9	264.2	265.9	234.5	231.2
85°	369.9	328.6	236.2	221.3	173.4	138.7	160.2	173.4	175.1	143.7	133.8
87.5°	176.7	171.7	110.6	84.2	64.4	46.2	56.1	69.4	76.0	54.5	47.9
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)