

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: P319614

Luminaire Tested: **GAN-SA0C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319614
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-SA0C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 58552 lumens
Efficiency: N/A
Efficacy: 104.9 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): 558
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

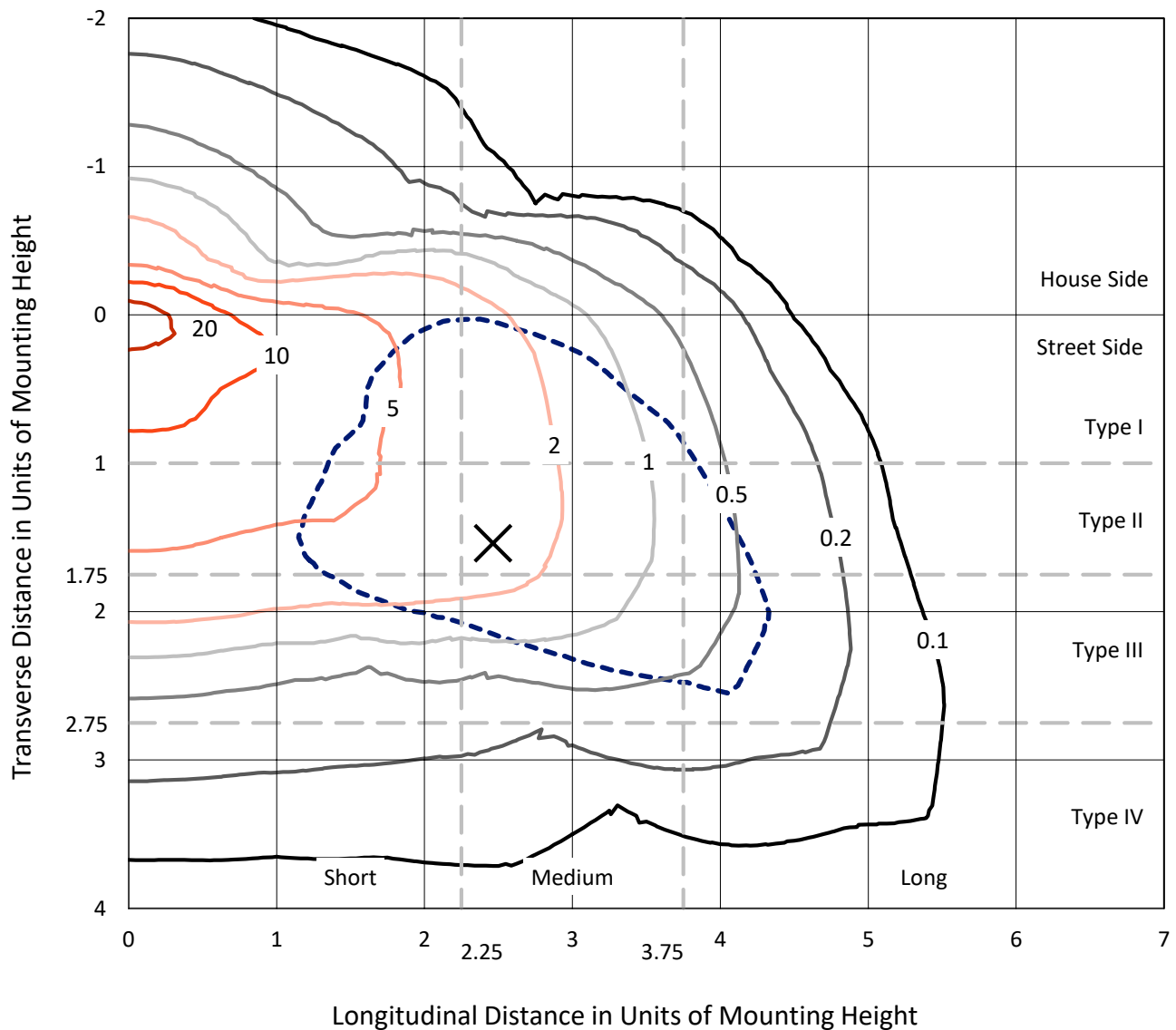


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Iso-Footcandle Lines of Horizontal Illumination

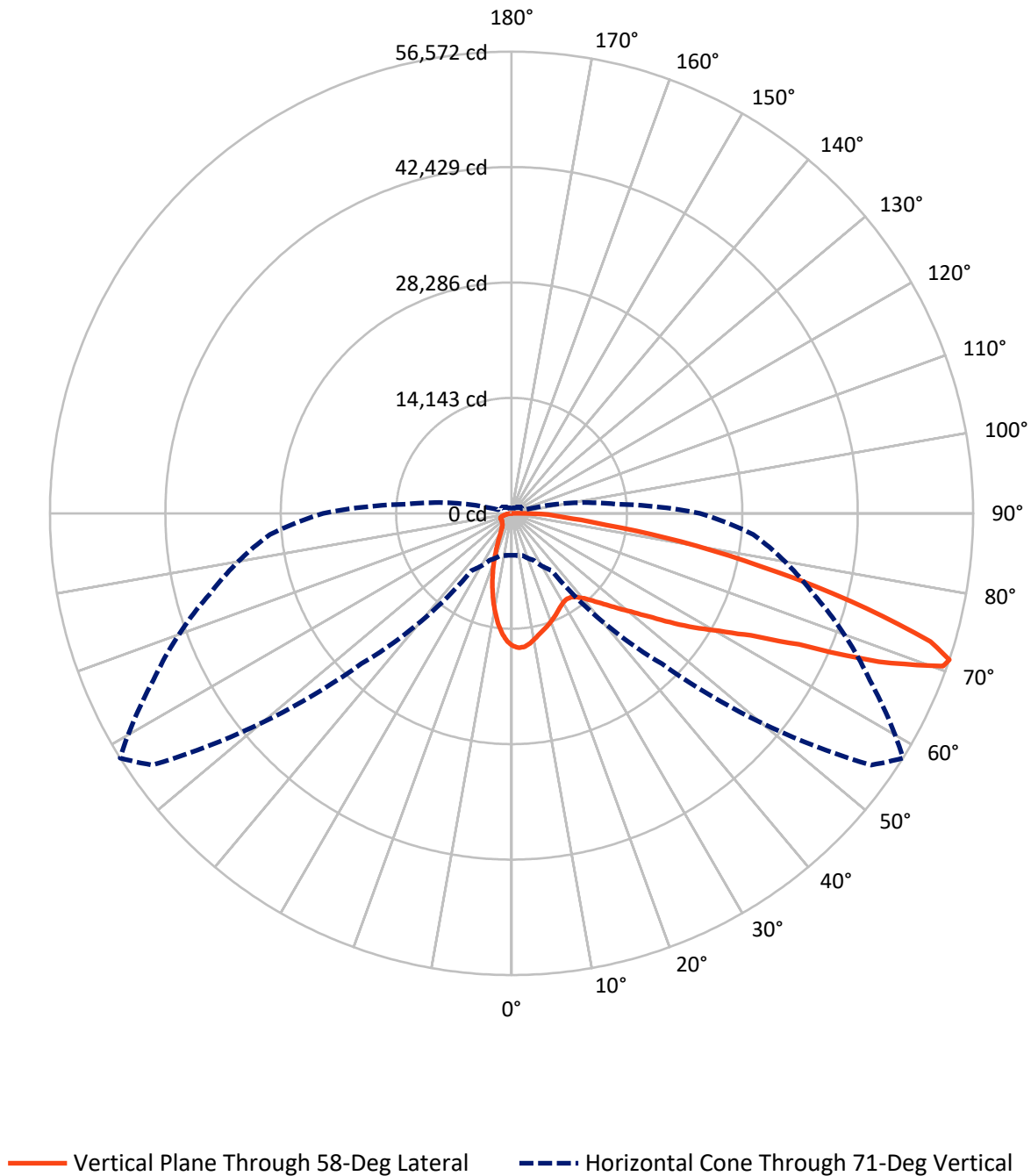
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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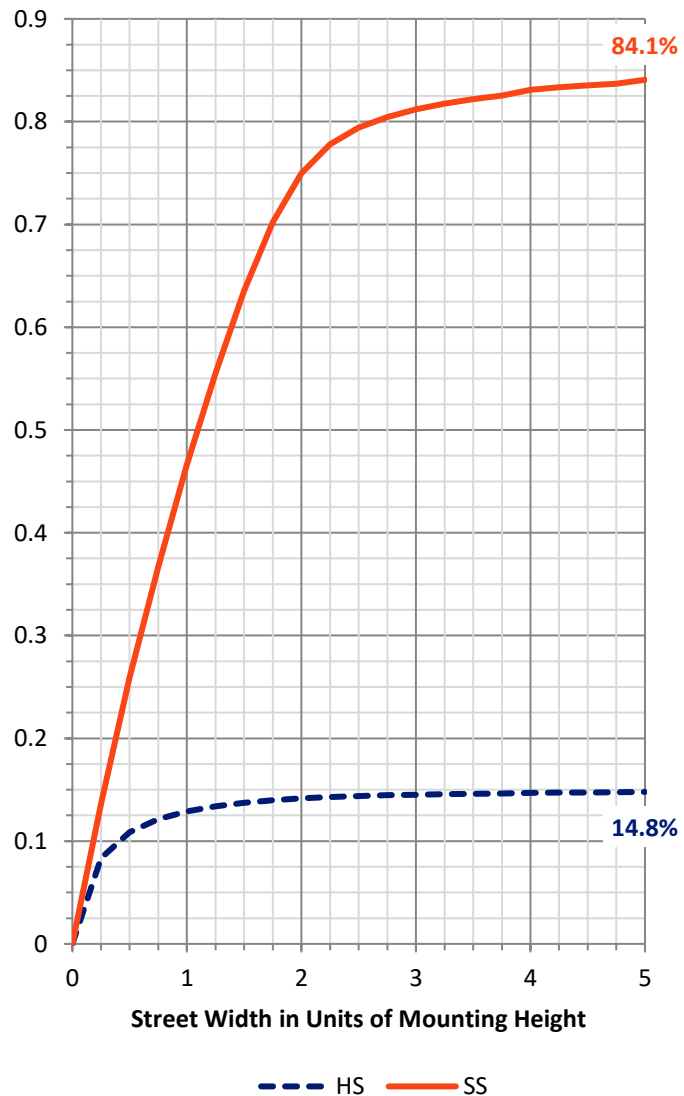
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8753.9	0.0	8753.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	49798.1	0.0	49798.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	58552.0	0.0	58552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1399.5	2.4
10°-20°	3112.0	5.3
20°-30°	3955.1	6.8
30°-40°	5038.0	8.6
40°-50°	7144.1	12.2
50°-60°	11055.8	18.9
60°-70°	15051.1	25.7
70°-80°	10040.8	17.1
80°-90°	1755.5	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°	58552.0	100.0
0°-180°	58552.0	100.0

Coefficient of Utilization



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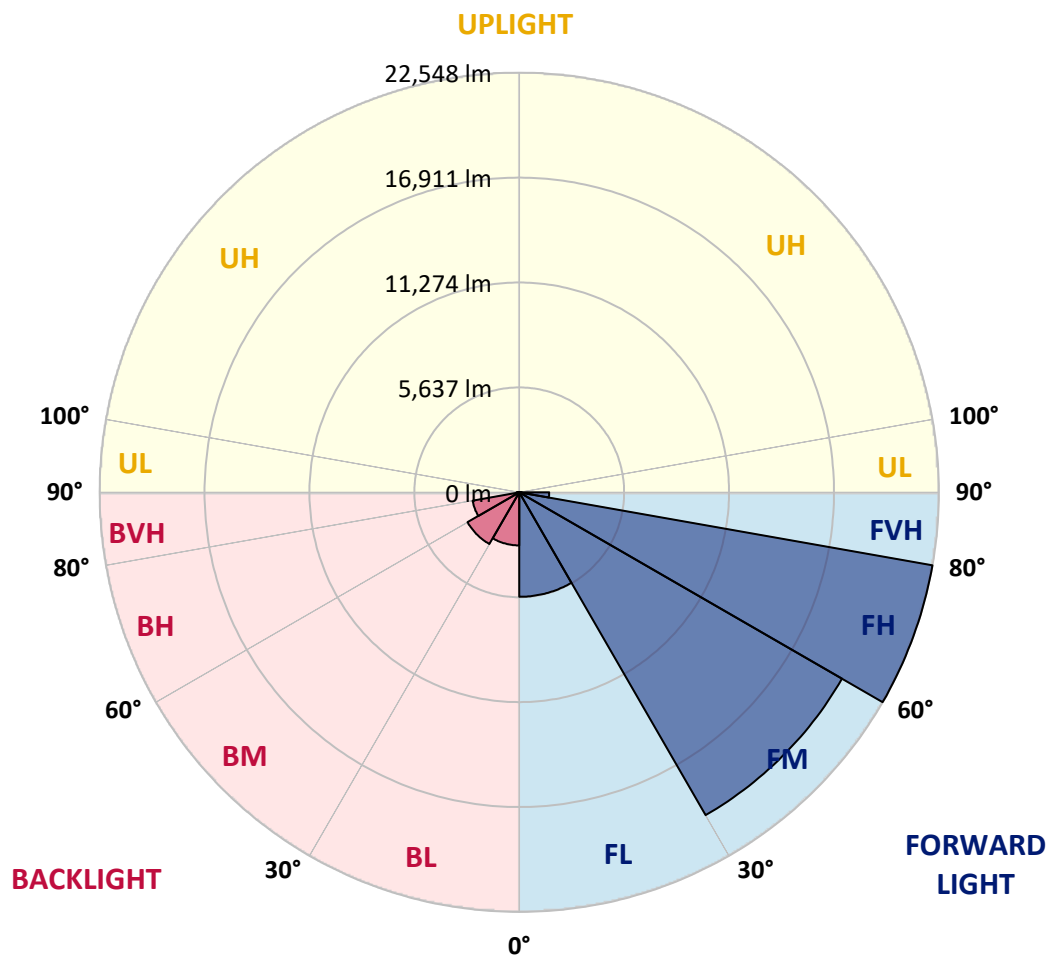
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5613.2	9.6			
FM	(30°-60°)	20027.6	34.2			
FH	(60°-80°)	22547.7	38.5			G5
FVH	(80°-90°)	1609.6	2.7			G5
BL	(0°-30°)	2853.5	4.9	B4/5000		
BM	(30°-60°)	3210.3	5.5	B3/5000		
BH	(60°-80°)	2544.2	4.3	B4/5000		G4/5000
BVH	(80°-90°)	145.9	0.2			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°	58°	65°	75°	85°
0°	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8
2.5°	16653.2	16630.7	16638.9	16622.6	16583.8	16545.1	16488.0	16498.2	16418.6	16300.3	16153.5
5°	16339.1	16330.9	16392.1	16426.8	16455.3	16432.9	16416.6	16437.0	16320.7	16157.6	15902.6
7.5°	15680.3	15590.5	15668.1	15784.3	15894.4	15978.1	16088.2	16102.5	16029.1	15857.7	15523.2
10°	14744.1	14658.5	14772.7	14954.2	15174.5	15374.4	15596.7	15637.5	15651.7	15496.7	15090.9
12.5°	13773.3	13708.0	13822.2	14077.2	14442.3	14750.2	15105.1	15166.3	15292.8	15188.8	14691.1
15°	12904.4	12879.9	13018.6	13269.5	13689.7	14160.8	14672.7	14784.9	14999.1	14964.4	14379.0
17.5°	12153.9	12147.7	12253.8	12516.9	12981.9	13577.5	14242.4	14432.1	14750.2	14791.0	14122.1
20°	11595.0	11582.8	11656.2	11850.0	12329.3	13004.4	13777.4	14038.4	14497.3	14640.1	13856.9
22.5°	11295.2	11293.2	11295.2	11387.0	11778.6	12406.8	13324.6	13642.7	14250.5	14519.8	13563.2
25°	11244.2	11238.1	11193.2	11183.0	11405.3	11907.1	12875.9	13226.7	14016.0	14436.1	13283.8
27.5°	11376.8	11384.9	11325.8	11229.9	11274.8	11578.7	12486.3	12861.6	13828.4	14419.8	13090.0
30°	11652.1	11648.0	11597.1	11497.1	11409.4	11456.3	12208.9	12584.2	13701.9	14491.2	12957.5
32.5°	11956.0	11978.5	11968.3	11913.2	11782.7	11595.0	12125.3	12492.4	13665.2	14662.5	12900.3
35°	12321.1	12345.6	12419.0	12461.8	12308.9	12007.0	12304.8	12623.0	13771.2	14984.8	12992.1
37.5°	12667.8	12731.1	12937.1	13118.6	12988.0	12651.5	12782.0	13008.4	14099.6	15492.6	13238.9
40°	13067.6	13122.7	13459.2	13844.7	13824.3	13475.5	13551.0	13701.9	14678.9	16220.8	13685.6
42.5°	13461.2	13571.4	14058.8	14605.4	14762.5	14454.5	14574.8	14654.4	15494.7	17185.5	14464.7
45°	13985.4	14103.7	14780.8	15439.6	15806.7	15633.4	15825.1	15855.7	16520.6	18499.0	15596.7
47.5°	14778.8	14913.4	15702.7	16394.1	16955.0	16973.4	17289.5	17277.3	17801.5	20002.2	17022.3
50°	16014.8	16208.5	16855.1	17501.6	18182.9	18562.2	18984.4	18925.3	19337.3	21603.2	18664.2
52.5°	17634.2	17723.9	18203.3	18680.5	19526.9	20377.4	20983.2	20930.2	21079.1	23249.2	20528.4
55°	19312.8	19380.1	19577.9	19839.0	20977.1	22364.0	23644.8	23561.2	23183.9	24958.3	22370.1
57.5°	20822.1	20958.7	21095.4	21203.5	22437.4	24440.3	26367.7	26373.8	25468.2	26802.1	24273.0
60°	21056.6	21177.0	22080.5	22933.0	24935.9	27210.0	29282.2	29221.1	27832.1	28802.9	26394.2
62.5°	18613.2	18884.5	20393.8	22661.8	27342.6	32276.4	33000.4	32924.9	30659.0	31268.8	28864.1
65°	13338.9	13646.8	15468.2	18876.3	26176.0	37858.7	39710.6	38694.9	34513.8	34301.7	31756.3
67.5°	7695.3	7768.8	8558.1	11295.2	19930.8	38150.3	49947.3	48525.7	40499.9	37742.4	33171.7
70°	5690.4	5688.4	5876.0	6950.9	10785.3	31136.2	54815.7	56090.5	46802.2	38874.4	31170.9
71°	5145.9	5152.0	5362.1	6326.8	8541.8	26061.8	53781.7	56571.8	48462.5	38315.5	29722.8
72.5°	4401.4	4421.8	4713.5	5674.1	7185.4	17972.8	49327.2	53683.8	49249.7	36936.8	27456.8
75°	3338.8	3385.7	3789.5	4782.8	6567.4	9114.9	36202.5	42867.9	43751.0	32592.5	20401.9
77.5°	2382.2	2435.3	2892.1	4022.1	6243.2	6869.3	24244.5	31268.8	32196.8	20887.3	9202.6
80°	1505.2	1568.4	1913.1	3200.1	5865.8	6522.6	15235.7	21017.9	17556.7	6683.7	2341.4
82.5°	883.1	932.1	1187.0	2090.6	4791.0	6281.9	8964.0	11650.1	6832.6	2019.2	1064.7
85°	511.9	534.4	740.4	1331.8	3479.5	5929.1	6585.8	6512.4	2965.5	987.2	503.8
87.5°	238.6	265.1	438.5	695.5	1931.5	4297.4	5205.0	4497.3	1843.8	463.0	236.6
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°	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8	16222.8
2.5°	16082.1	16047.4	15902.6	15774.1	15639.5	15464.1	15270.3	15245.9	15127.6	15150.0	15109.2
5°	15763.9	15676.2	15327.4	15011.3	14638.1	14303.6	13940.5	13773.3	13532.6	13516.3	13455.1
7.5°	15309.1	15145.9	14605.4	14005.8	13406.2	12835.1	12270.1	11898.9	11519.5	11358.4	11344.1
10°	14797.2	14519.8	13724.3	12837.1	11972.3	11138.1	10330.5	9732.9	9194.4	8939.5	8929.3
12.5°	14311.7	13901.8	12810.6	11603.2	10420.2	9339.2	8231.7	7446.5	6771.4	6545.0	6449.2
15°	13899.7	13322.5	11921.3	10377.4	8941.5	7440.4	6179.9	5353.9	4729.8	4513.6	4472.8
17.5°	13500.0	12757.6	11009.7	9139.4	7403.7	5753.7	4491.2	3877.2	3544.8	3457.1	3455.0
20°	13102.3	12176.3	10057.2	7872.8	5916.8	4303.5	3453.0	3177.7	3065.5	3055.3	3039.0
22.5°	12651.5	11560.3	9055.7	6602.1	4617.6	3383.7	2935.0	2824.8	2810.5	2847.3	2847.3
25°	12229.3	10948.5	8040.0	5358.0	3591.7	2822.8	2620.9	2598.4	2637.2	2702.4	2708.6
27.5°	11835.7	10359.0	7048.8	4252.5	2877.8	2486.2	2402.6	2429.1	2498.5	2573.9	2576.0
30°	11511.4	9802.2	6086.1	3351.0	2431.2	2235.4	2221.1	2274.1	2349.6	2408.7	2423.0
32.5°	11260.5	9327.0	5156.1	2694.3	2139.5	2047.7	2060.0	2104.8	2151.8	2184.4	2206.8
35°	11144.3	8919.1	4297.4	2272.1	1953.9	1902.9	1919.2	1943.7	1964.1	1988.6	2006.9
37.5°	11164.7	8602.9	3530.5	2009.0	1829.5	1803.0	1803.0	1803.0	1803.0	1815.2	1817.3
40°	11354.3	8421.4	2906.4	1841.7	1745.9	1717.3	1694.9	1674.5	1658.2	1666.3	1662.3
42.5°	11839.8	8405.1	2449.5	1735.7	1678.6	1631.7	1586.8	1558.2	1537.8	1546.0	1550.1
45°	12663.8	8609.1	2141.6	1660.2	1615.3	1544.0	1486.9	1456.3	1442.0	1468.5	1472.6
47.5°	13730.5	9053.7	1953.9	1605.1	1556.2	1462.4	1401.2	1372.6	1376.7	1415.5	1425.7
50°	15105.1	9775.7	1864.2	1570.5	1515.4	1393.0	1329.8	1305.3	1317.6	1372.6	1384.9
52.5°	16614.4	10815.9	1874.4	1560.3	1488.9	1342.0	1274.7	1246.2	1266.6	1317.6	1327.8
55°	18356.2	12066.2	2043.7	1574.6	1450.1	1309.4	1229.9	1180.9	1197.2	1244.1	1252.3
57.5°	20291.8	13497.9	2384.3	1570.5	1401.2	1278.8	1183.0	1109.5	1121.8	1150.3	1158.5
60°	22306.9	15227.5	2912.5	1582.7	1378.8	1242.1	1119.7	1027.9	1023.9	1048.3	1052.4
62.5°	24725.8	17228.3	3516.2	1590.9	1393.0	1195.2	1036.1	946.4	934.1	940.2	944.3
65°	27218.2	18676.4	3289.8	1558.2	1437.9	1156.4	962.7	866.8	844.4	840.3	842.3
67.5°	27295.7	17124.3	2306.8	1493.0	1456.3	1136.0	907.6	799.5	762.8	748.5	746.5
70°	24479.0	13912.0	1796.9	1423.6	1382.8	1103.4	856.6	744.4	689.4	666.9	664.9
71°	23104.4	12806.5	1703.0	1389.0	1327.8	1070.8	834.2	720.0	662.9	638.4	634.3
72.5°	20948.5	11480.8	1588.8	1333.9	1221.7	987.2	791.4	685.3	626.2	597.6	591.5
75°	15033.7	7507.7	1364.5	1189.1	1011.6	787.3	693.5	616.0	565.0	530.3	526.2
77.5°	5792.4	2988.0	1032.0	989.2	775.0	616.0	571.1	532.3	495.6	460.9	458.9
80°	1790.8	1335.9	752.6	744.4	560.9	458.9	444.6	434.4	420.2	383.4	375.3
82.5°	956.6	766.9	518.1	481.3	367.1	305.9	322.3	326.3	328.4	289.6	285.5
85°	456.9	405.9	291.7	273.3	214.2	171.3	197.8	214.2	216.2	177.4	165.2
87.5°	218.2	212.1	136.7	104.0	79.5	57.1	69.3	85.7	93.8	67.3	59.1
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)