

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: P319522

Luminaire Tested: **GAN-SA8B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319522
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 35653 lumens
Efficiency: N/A
Efficacy: 106.7 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

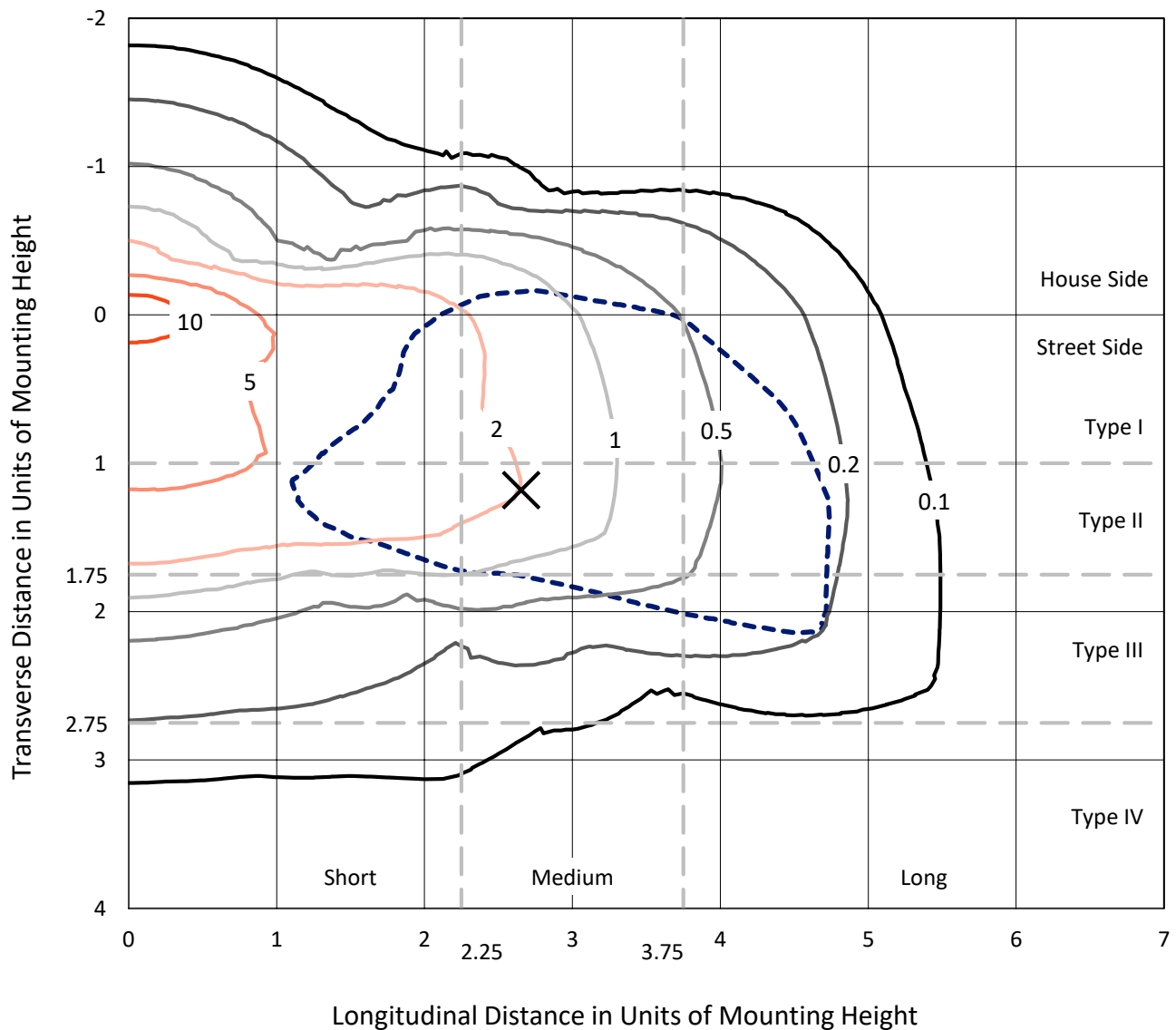


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Iso-Footcandle Lines of Horizontal Illumination

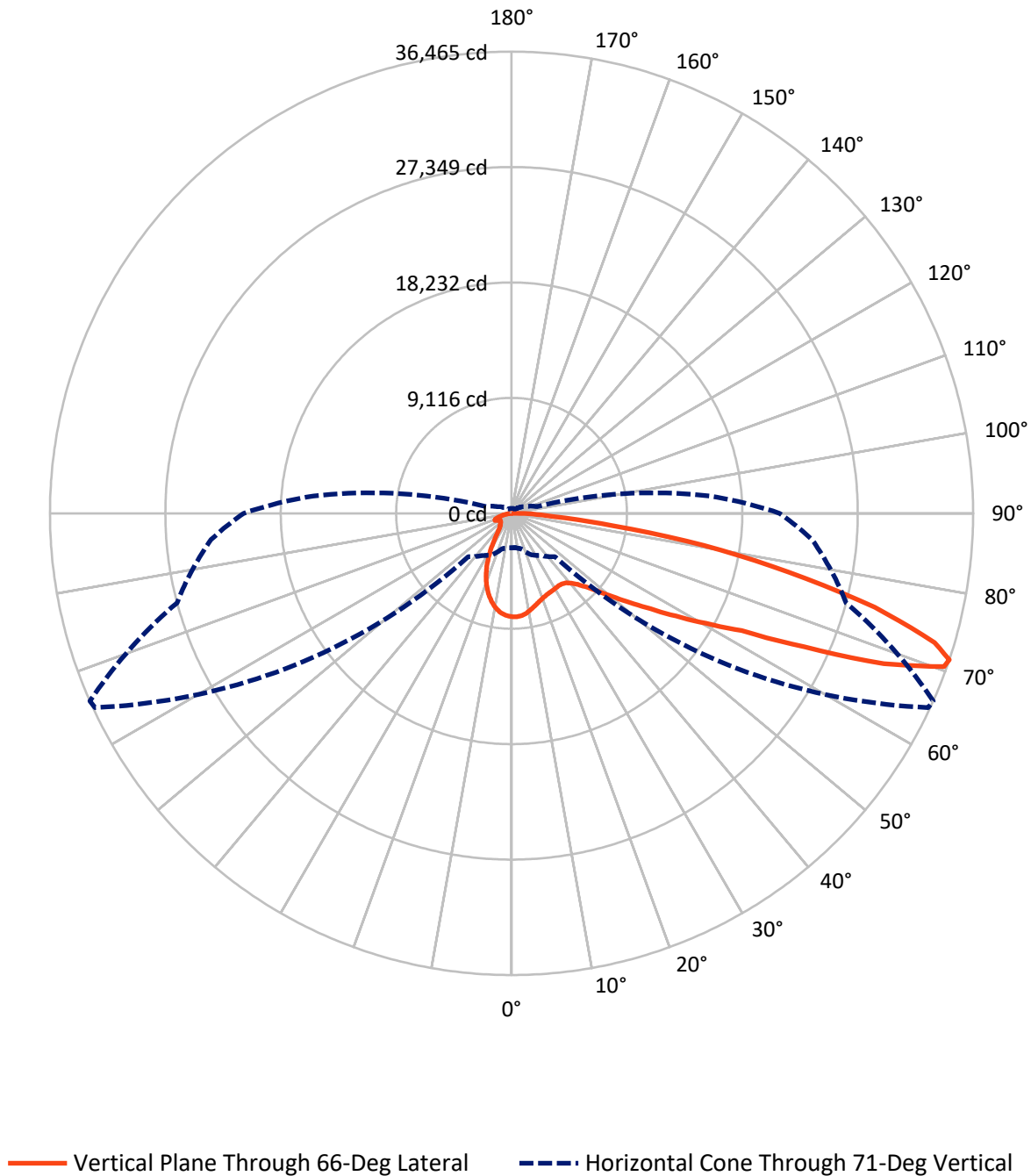
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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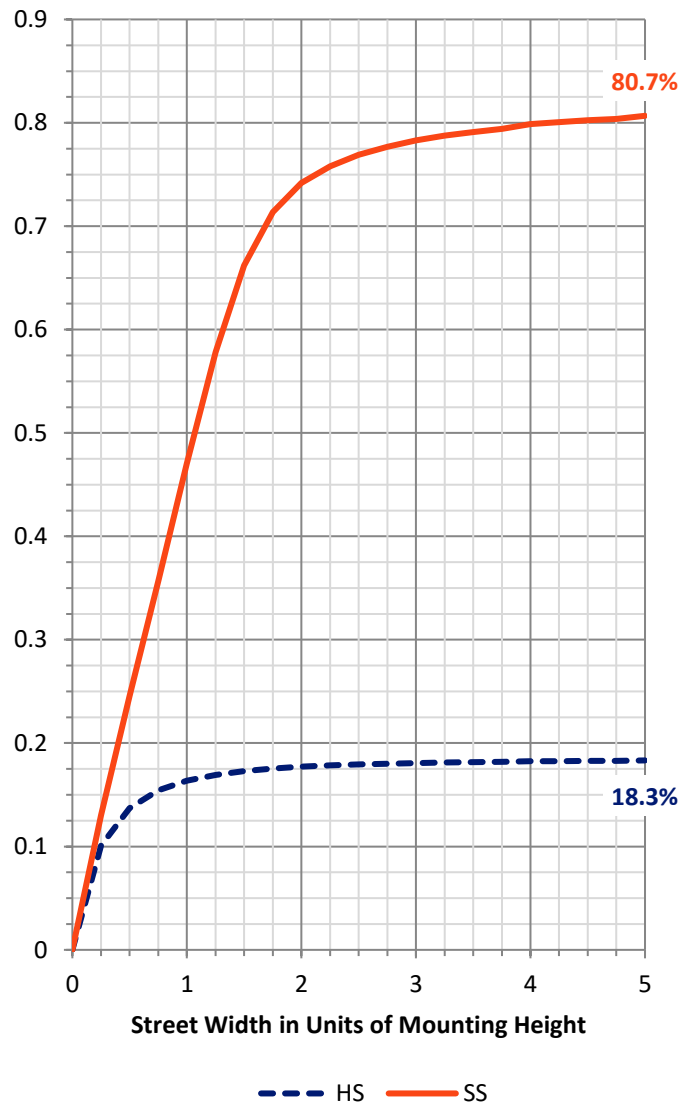
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6607.5	0.0	6607.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	29045.5	0.0	29045.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	35653.0	0.0	35653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.9	2.0
10°-20°	1724.3	4.8
20°-30°	2316.2	6.5
30°-40°	3046.9	8.5
40°-50°	4432.4	12.4
50°-60°	6923.9	19.4
60°-70°	8673.3	24.3
70°-80°	6615.8	18.6
80°-90°	1201.4	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°	35653.0	100.0
0°-180°	35653.0	100.0

Coefficient of Utilization



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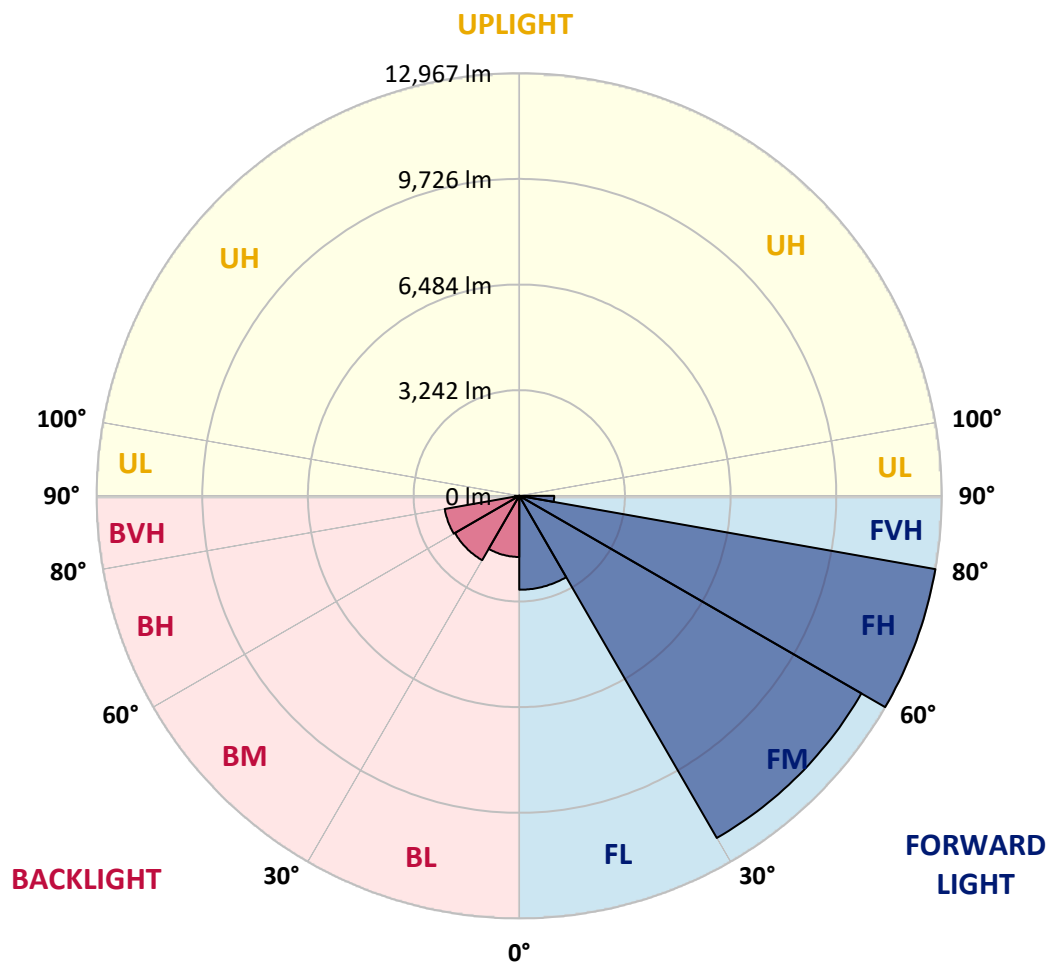
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2883.0	8.1			
FM	(30°-60°)	12123.8	34.0			
FH	(60°-80°)	12967.4	36.4			G5
FVH	(80°-90°)	1071.3	3.0			G5
BL	(0°-30°)	1876.3	5.3	B3/2500		
BM	(30°-60°)	2279.4	6.4	B2/2500		
BH	(60°-80°)	2321.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	130.1	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°	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4
2.5°	8016.0	8003.7	8040.6	8078.8	8093.6	8118.2	8155.1	8176.0	8174.8	8178.5	8166.2
5°	7484.2	7468.2	7542.1	7602.4	7718.1	7848.6	8007.4	8120.6	8123.1	8187.1	8204.3
7.5°	6980.8	6969.7	7054.6	7151.9	7286.0	7485.5	7742.7	7986.5	8001.2	8174.8	8235.1
10°	6577.0	6574.6	6657.0	6762.9	6919.2	7142.0	7437.5	7794.4	7816.6	8115.7	8240.0
12.5°	6261.9	6266.8	6338.2	6458.8	6623.8	6856.4	7176.5	7579.0	7614.7	8022.2	8211.7
15°	6029.2	6048.9	6106.8	6228.7	6391.1	6627.5	6956.1	7379.6	7433.8	7917.5	8195.7
17.5°	5896.3	5918.5	5959.1	6060.0	6212.6	6440.4	6751.8	7215.9	7265.1	7837.5	8197.0
20°	5856.9	5875.4	5898.8	5960.3	6089.6	6296.4	6590.6	7068.2	7121.1	7773.5	8209.3
22.5°	5934.5	5948.0	5950.5	5945.5	6024.3	6193.0	6473.6	6959.8	7016.5	7731.7	8217.9
25°	6100.6	6119.1	6105.6	6060.0	6034.2	6137.6	6413.3	6888.4	6945.1	7700.9	8200.6
27.5°	6350.5	6353.0	6341.9	6282.8	6160.9	6143.7	6394.8	6846.6	6900.8	7665.2	8165.0
30°	6690.3	6706.3	6686.6	6606.6	6407.1	6242.2	6417.0	6806.0	6855.2	7619.6	8107.1
32.5°	7087.9	7127.3	7126.0	7042.3	6756.7	6462.5	6508.1	6781.4	6819.5	7571.6	8036.9
35°	7500.2	7554.4	7655.3	7619.6	7266.4	6810.9	6682.9	6820.7	6846.6	7565.5	7987.7
37.5°	7928.6	7982.8	8190.8	8286.8	7873.2	7309.4	6958.6	6959.8	6972.2	7640.6	7984.0
40°	8376.7	8434.5	8747.2	8997.1	8659.8	7940.9	7403.0	7250.3	7236.8	7825.2	8056.6
42.5°	9004.5	9056.2	9431.6	9750.4	9532.5	8749.7	8017.2	7698.4	7670.1	8187.1	8289.3
45°	9798.4	9842.7	10241.6	10582.6	10470.5	9672.9	8789.0	8315.1	8310.2	8790.3	8760.7
47.5°	10742.6	10777.0	11135.3	11465.2	11505.8	10735.2	9759.0	9266.7	9186.6	9617.5	9490.7
50°	11726.1	11764.3	12008.0	12362.5	12664.1	12156.9	11007.2	10432.4	10325.3	10709.3	10524.7
52.5°	12377.3	12427.8	12639.5	13088.8	13966.5	13715.3	12483.2	11845.5	11683.0	12032.6	11891.1
55°	12086.8	12200.0	12523.8	13243.9	15007.9	16096.0	14303.7	13493.8	13310.4	13600.9	13517.2
57.5°	10766.0	10921.1	11363.0	12474.5	15154.3	18193.6	17056.2	15435.0	15305.7	15222.0	15260.2
60°	8352.1	8501.0	9048.8	10497.6	14133.9	19724.9	21198.3	17828.0	17640.9	16849.4	16883.8
62.5°	5911.1	5836.0	6211.4	7271.3	11484.8	19904.6	25911.7	21028.5	20413.0	18567.8	18416.4
65°	4507.8	4490.5	4659.2	4996.5	6956.1	17754.1	28719.5	26407.8	25446.4	20589.0	20232.0
67.5°	3704.0	3673.2	3839.4	4330.5	4479.5	11454.1	28781.0	32648.7	31704.6	23105.1	22332.1
70°	3045.4	3010.9	3166.0	3800.0	4139.7	5808.9	24222.8	36303.4	36253.0	26290.8	23917.5
71°	2730.3	2705.6	2891.5	3595.6	4067.1	4841.4	20914.0	36313.3	36464.7	27369.1	23824.0
72.5°	2223.1	2231.7	2428.7	3200.5	4012.9	4275.1	15371.0	34620.7	34940.8	28397.0	22973.4
75°	1477.2	1484.5	1743.0	2461.9	3891.1	4182.8	8448.1	29050.6	29639.0	27781.5	20963.2
77.5°	992.2	989.7	1165.7	1688.9	3390.1	4182.8	4953.4	21727.7	22373.9	22105.6	16161.3
80°	683.2	678.3	802.6	1165.7	2566.5	4233.3	3829.5	15227.0	15422.7	11937.8	6568.4
82.5°	418.5	422.2	524.4	823.5	1746.7	3809.8	3615.3	8302.8	8089.9	3348.2	1640.9
85°	240.0	238.8	334.8	557.6	1121.4	3215.3	3525.5	3573.5	3278.0	1008.2	593.3
87.5°	86.2	92.3	179.7	309.0	642.6	2239.1	2991.2	1858.7	1675.3	455.5	268.3
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°	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4	8167.4
2.5°	8157.6	8165.0	8156.3	8107.1	8065.2	7997.5	7959.4	7906.4	7890.4	7883.1	7902.8
5°	8188.3	8190.8	8118.2	7988.9	7843.7	7672.6	7549.5	7398.1	7326.7	7295.9	7315.6
7.5°	8216.7	8205.6	8046.8	7799.4	7531.0	7233.1	6968.5	6726.0	6584.4	6526.5	6531.5
10°	8220.3	8173.6	7918.8	7535.9	7119.9	6682.9	6276.7	5902.4	5666.1	5512.2	5559.0
12.5°	8182.2	8103.4	7730.4	7195.0	6617.6	6021.9	5472.8	4911.5	4574.2	4417.9	4422.8
15°	8152.6	8009.8	7499.0	6793.7	6018.2	5229.1	4479.5	3819.7	3460.2	3300.2	3225.1
17.5°	8128.0	7908.9	7230.7	6341.9	5310.4	4309.6	3408.5	2820.1	2623.2	2576.4	2556.7
20°	8093.6	7801.8	6931.5	5818.7	4504.1	3280.5	2489.0	2198.5	2199.7	2253.9	2261.3
22.5°	8045.5	7680.0	6612.7	5231.6	3638.7	2389.3	1951.1	1867.4	1952.3	2055.7	2074.2
25°	7974.2	7535.9	6258.2	4582.9	2774.6	1836.6	1666.7	1663.0	1766.4	1874.8	1890.8
27.5°	7873.2	7347.6	5864.3	3886.1	2044.6	1560.9	1493.2	1519.0	1595.3	1674.1	1680.3
30°	7737.8	7128.5	5429.8	3151.3	1602.7	1389.8	1382.4	1405.8	1452.5	1507.9	1512.8
32.5°	7588.9	6905.7	4965.7	2439.8	1372.5	1297.4	1304.8	1315.9	1338.1	1360.2	1365.1
35°	7453.5	6678.0	4490.5	1853.8	1263.0	1237.1	1232.2	1229.7	1232.2	1224.8	1226.0
37.5°	7366.1	6489.6	3995.7	1475.9	1200.2	1184.2	1169.4	1150.9	1130.0	1117.7	1120.2
40°	7334.1	6349.3	3494.7	1275.3	1148.5	1137.4	1109.1	1069.7	1045.1	1037.7	1037.7
42.5°	7420.2	6276.7	3010.9	1174.3	1105.4	1086.9	1040.2	994.6	976.2	974.9	973.7
45°	7683.6	6306.2	2550.5	1118.9	1066.0	1030.3	968.8	930.6	918.3	920.8	919.5
47.5°	8156.3	6492.1	2156.6	1082.0	1026.6	979.8	910.9	880.1	865.4	865.4	866.6
50°	8960.1	6926.6	1842.7	1051.2	993.4	933.1	869.1	830.9	811.2	810.0	810.0
52.5°	10130.8	7704.6	1647.0	1025.4	956.5	891.2	827.2	779.2	755.8	750.9	748.4
55°	11598.1	8819.8	1592.9	1008.2	907.2	845.7	776.7	728.7	702.9	691.8	690.6
57.5°	13239.0	10176.3	1700.0	987.2	856.7	791.5	721.3	675.8	648.7	635.2	633.9
60°	14899.5	11657.2	2136.9	957.7	814.9	732.4	664.7	622.9	595.8	581.0	578.6
62.5°	16562.6	13218.0	3029.4	955.2	785.4	675.8	606.9	571.2	545.3	529.3	525.6
65°	18438.5	14926.6	4043.7	1020.5	775.5	624.1	547.8	519.5	497.3	482.5	481.3
67.5°	20592.7	16855.5	3946.5	1154.6	808.7	577.3	492.4	470.2	454.2	441.9	440.7
70°	21603.3	16553.9	2453.3	1249.4	855.5	531.8	439.5	423.4	411.1	402.5	398.8
71°	21179.9	15718.1	2056.9	1238.3	850.6	512.1	418.5	406.2	393.9	386.5	382.8
72.5°	20025.2	14334.5	1716.0	1152.2	795.2	476.4	391.4	379.1	368.1	359.4	357.0
75°	17969.5	12802.0	1373.8	920.8	633.9	402.5	343.4	329.9	321.3	316.4	311.4
77.5°	13209.4	9136.2	1062.3	727.5	466.5	328.7	293.0	283.1	274.5	267.1	263.4
80°	5060.5	3539.0	715.2	542.9	342.2	259.7	236.3	231.4	222.8	217.9	217.9
82.5°	1362.7	1057.4	381.6	328.7	229.0	189.6	181.0	178.5	171.1	161.3	162.5
85°	551.5	466.5	214.2	181.0	140.3	112.0	121.9	123.1	114.5	102.2	103.4
87.5°	242.5	198.2	119.4	80.0	61.5	43.1	55.4	55.4	50.5	41.9	38.2
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)