

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: P193006

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48093.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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: 28.75 FT



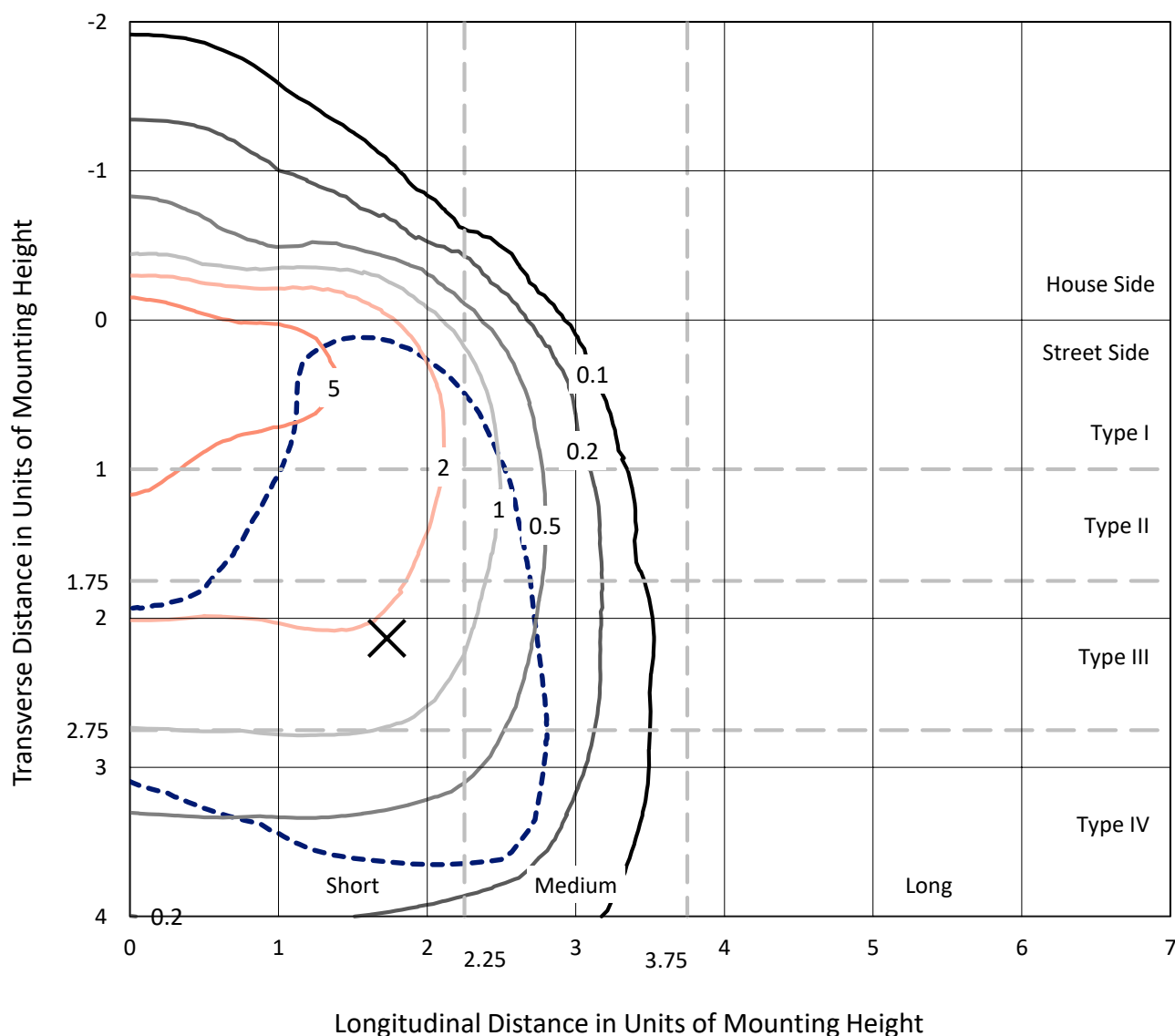
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

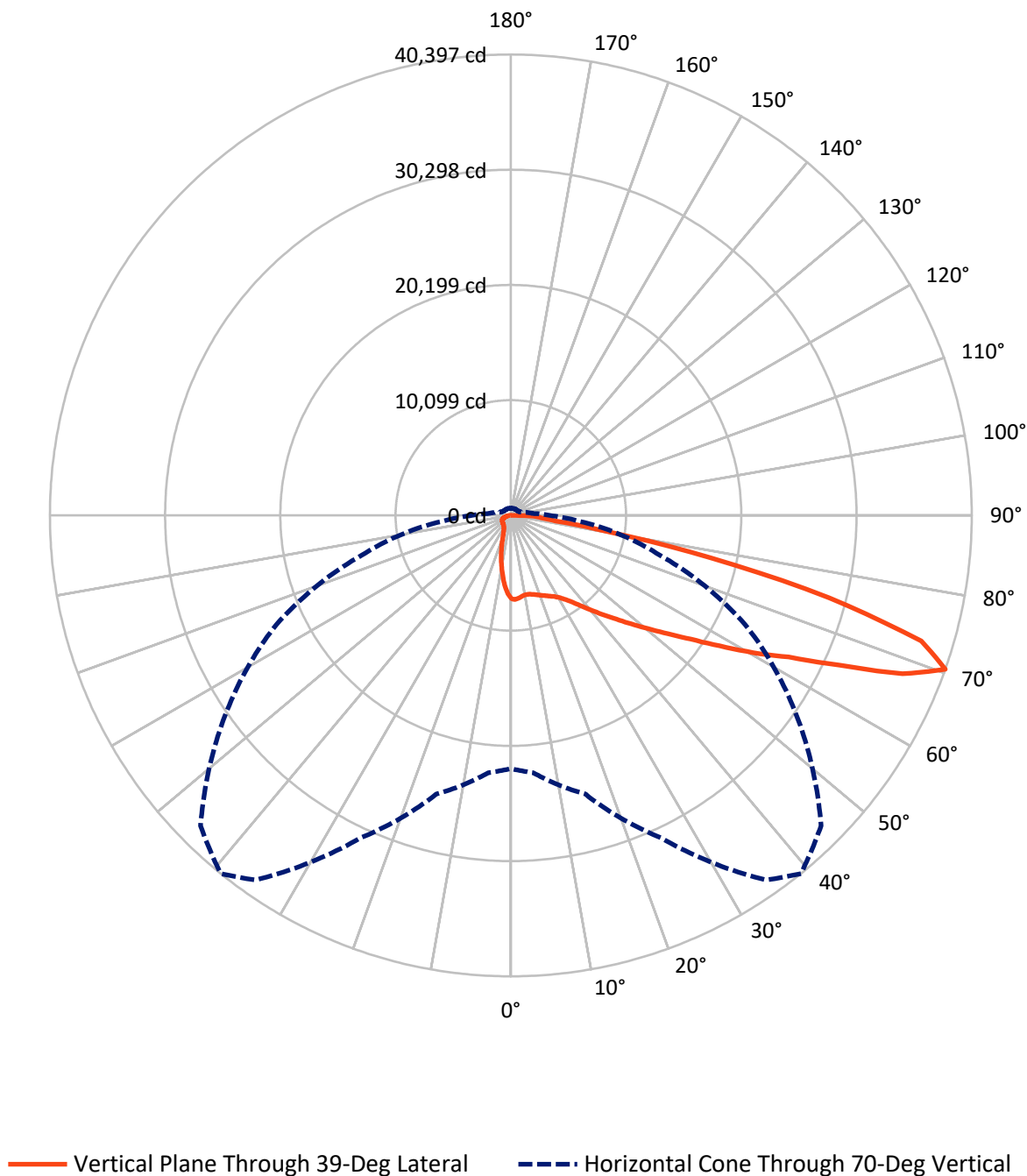


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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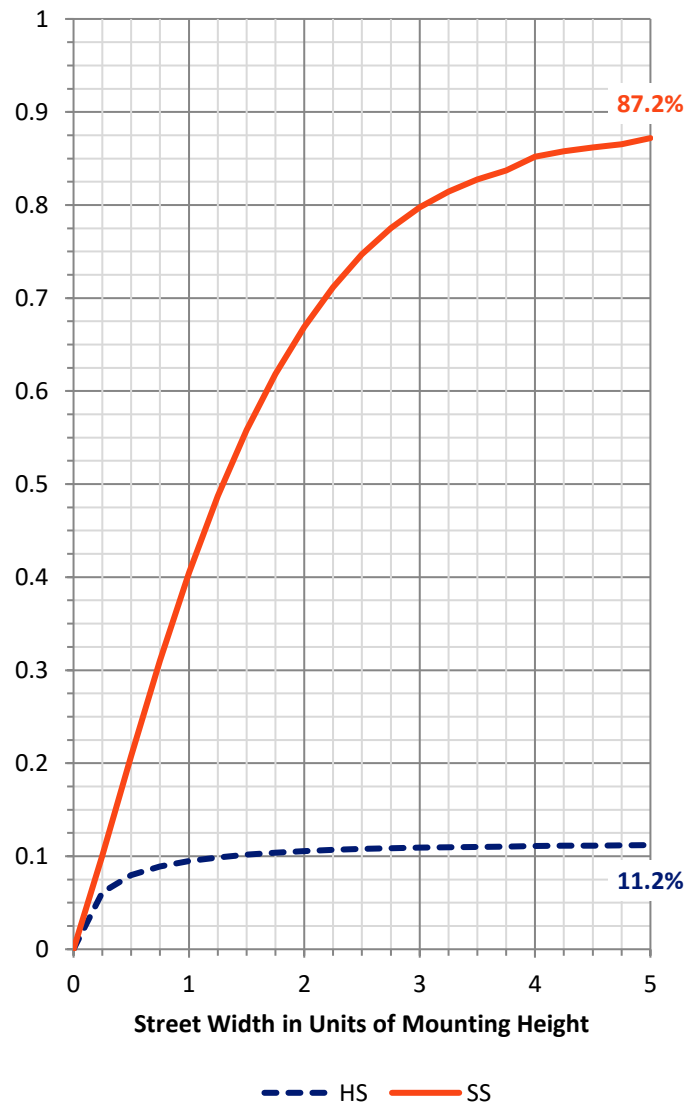
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5469.9	0.0	5469.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	42623.9	0.0	42623.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	48093.7	0.0	48093.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.6	1.3
10°-20°	1566.2	3.3
20°-30°	2438.7	5.1
30°-40°	3799.1	7.9
40°-50°	6378.0	13.3
50°-60°	10131.9	21.1
60°-70°	13514.9	28.1
70°-80°	8161.3	17.0
80°-90°	1477.1	3.1
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°	48093.7	100.0
0°-180°	48093.7	100.0

Coefficient of Utilization



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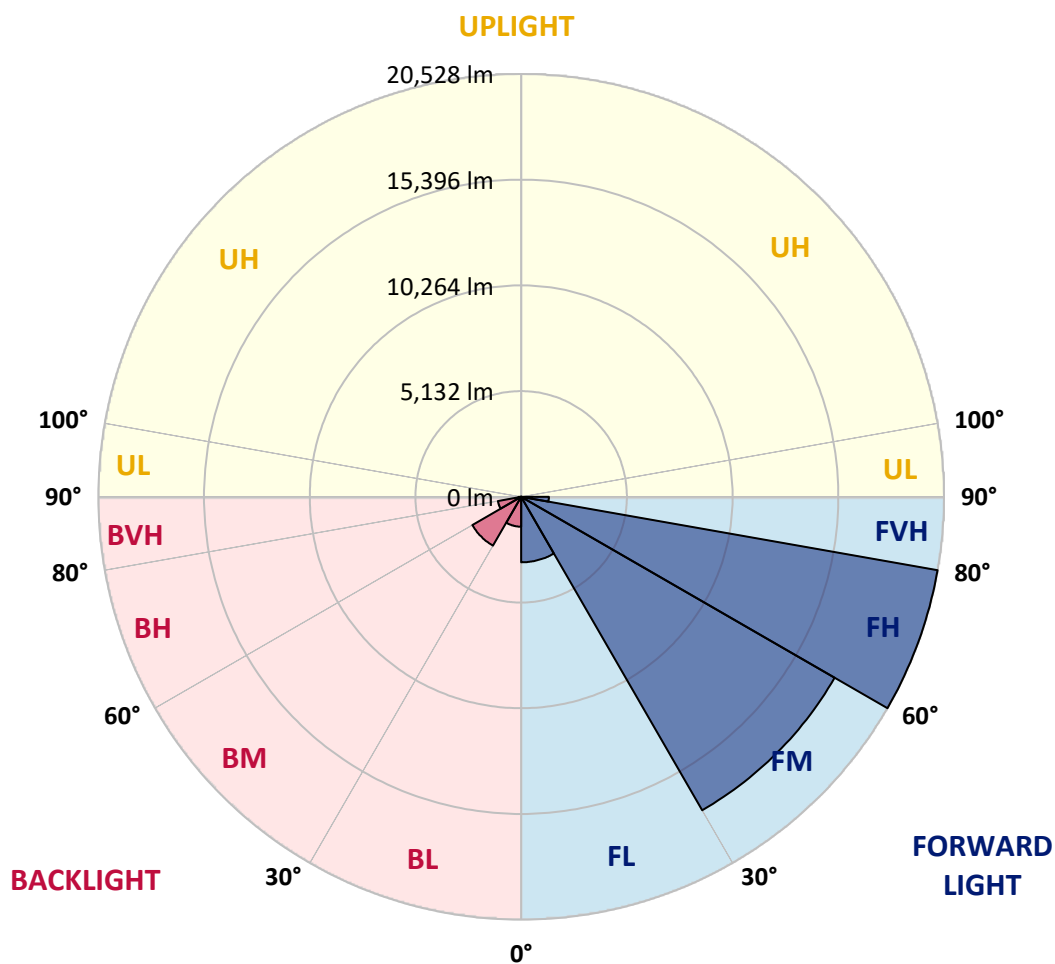
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3180.5	6.6			
FM	(30°-60°)	17571.6	36.5			
FH	(60°-80°)	20527.8	42.7			G5
FVH	(80°-90°)	1344.0	2.8			G5
BL	(0°-30°)	1451.1	3.0	B3/2500		
BM	(30°-60°)	2737.4	5.7	B3/5000		
BH	(60°-80°)	1148.3	2.4	B3/2500		G3/2500
BVH	(80°-90°)	133.1	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4
2.5°	7443.2	7440.8	7421.2	7406.4	7394.3	7389.4	7399.1	7362.6	7330.7	7291.6	7250.0
5°	7386.9	7384.5	7352.7	7323.4	7294.0	7284.2	7281.8	7215.8	7176.7	7118.0	7039.8
7.5°	7325.9	7313.6	7272.1	7223.1	7171.8	7147.3	7122.8	7037.3	6993.2	6934.5	6844.1
10°	7262.3	7247.6	7208.5	7159.5	7110.7	7074.0	7032.4	6949.2	6902.8	6858.7	6753.7
12.5°	7196.3	7184.1	7174.2	7152.2	7118.0	7086.2	7054.5	6983.6	6934.5	6883.3	6761.0
15°	7186.4	7181.6	7203.6	7218.2	7198.6	7179.1	7144.9	7083.8	7032.4	6981.0	6822.1
17.5°	7264.6	7262.3	7318.5	7357.6	7347.8	7313.6	7267.2	7198.6	7157.1	7113.1	6915.0
20°	7435.8	7448.1	7516.6	7568.0	7519.0	7470.0	7394.3	7298.9	7276.8	7257.3	7010.4
22.5°	7758.6	7770.8	7819.8	7839.4	7712.2	7641.3	7536.1	7413.9	7399.1	7413.9	7125.4
25°	8262.3	8250.1	8242.7	8169.5	7937.1	7827.2	7692.6	7565.4	7572.8	7638.9	7286.7
27.5°	8929.9	8863.8	8761.2	8541.2	8171.8	8049.5	7885.8	7768.5	7814.9	7942.0	7528.7
30°	9621.9	9548.5	9311.3	8951.9	8479.9	8345.4	8162.1	8030.0	8152.3	8352.8	7851.6
32.5°	10262.5	10252.8	9905.6	9443.4	8905.4	8788.0	8604.7	8455.5	8653.6	8959.3	8335.7
35°	10961.9	10983.9	10568.2	10013.1	9480.1	9357.8	9225.8	9113.4	9377.4	9798.0	9037.5
37.5°	11710.1	11754.1	11262.6	10636.6	10135.3	10084.0	10005.8	9956.9	10365.2	10947.1	10018.0
40°	12710.1	12666.1	11984.0	11340.9	10939.8	10937.4	10913.0	10971.6	11651.4	12448.6	11277.3
42.5°	13781.2	13651.6	12749.3	12096.4	11822.5	11905.7	11954.6	12194.2	13199.2	14272.6	12812.9
45°	14935.3	14644.3	13544.0	12896.0	12803.1	12979.1	13145.4	13666.2	15020.9	16348.6	14495.2
47.5°	15857.2	15575.9	14365.5	13734.7	13937.6	14204.1	14524.5	15348.5	17060.2	18493.1	16155.4
50°	16583.4	16400.0	15194.4	14712.8	15187.1	15598.0	16121.2	17253.3	19182.6	20581.2	17693.5
52.5°	17287.5	17150.7	16030.7	15715.3	16654.3	17221.6	17933.2	19297.6	21358.9	22635.2	18987.0
55°	17923.3	17825.5	16930.6	16964.8	18380.5	19119.1	20014.0	21625.3	23730.7	24466.7	20082.4
57.5°	18639.7	18515.1	17957.6	18532.2	20598.4	21557.0	22720.8	24241.8	25955.8	26095.2	20916.3
60°	19361.1	19253.5	19097.0	20341.7	23415.3	24422.7	25525.4	26777.4	28212.7	27359.4	20867.3
62.5°	19987.2	19999.4	20275.6	22241.6	26173.5	27339.8	28684.7	29922.0	30254.6	27579.4	19324.4
65°	21048.4	21241.5	22065.6	24931.4	30056.4	31616.5	33266.9	33069.0	30819.3	25523.1	16016.1
67.5°	22309.9	22649.9	24320.0	28515.9	34963.9	37035.1	37673.2	33780.4	28557.5	20747.6	11416.6
70°	22182.9	22649.9	25293.2	31188.6	39008.3	40397.2	38460.6	30572.4	22676.8	13553.7	6064.1
72.5°	19698.6	20366.2	23310.1	29963.5	37734.4	37612.1	33389.2	22791.7	13473.1	5443.0	2369.4
75°	15013.6	15688.4	18221.6	23672.0	29824.2	28797.1	23691.6	12590.4	5112.9	2161.5	1494.0
77.5°	8636.5	9159.8	11115.9	14517.2	18921.0	17867.0	13186.9	5599.5	2489.3	1506.2	1166.4
80°	4821.9	5112.9	6301.3	7364.9	9272.2	8499.5	5900.3	3479.5	1858.4	1093.0	899.9
82.5°	3812.0	4071.2	5095.9	4645.9	4235.1	3907.4	3389.0	3098.0	1484.3	689.5	538.0
85°	3330.3	3577.3	4313.3	3658.0	2892.6	2653.1	2753.4	3049.2	1154.1	415.7	459.7
87.5°	3085.8	3416.0	3843.8	2819.3	2252.1	1995.3	2540.6	3342.6	371.7	259.2	185.8
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°	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4	7301.4
2.5°	7213.3	7174.2	7110.7	7054.5	6966.4	6919.9	6868.6	6831.9	6802.6	6778.1	6817.2
5°	6990.9	6917.5	6783.1	6638.7	6467.6	6333.1	6220.5	6115.5	6042.1	5993.2	6027.4
7.5°	6780.5	6660.8	6450.4	6188.8	5895.4	5646.0	5440.6	5259.6	5134.9	5054.3	5086.0
10°	6660.8	6511.6	6186.4	5775.6	5342.8	4954.1	4631.2	4352.5	4159.3	4049.2	4066.4
12.5°	6631.4	6438.2	5988.3	5423.4	4831.8	4291.3	3836.5	3450.2	3178.8	3037.0	3041.8
15°	6653.4	6406.4	5802.4	5086.0	4337.8	3655.6	3088.3	2618.8	2303.4	2142.0	2139.6
17.5°	6690.1	6382.0	5606.8	4721.6	3836.5	3044.3	2411.1	1951.3	1672.5	1543.0	1533.1
20°	6729.2	6342.8	5386.8	4328.0	3315.7	2477.0	1887.7	1528.2	1352.2	1281.3	1276.3
22.5°	6785.4	6308.6	5159.3	3912.3	2804.6	2017.3	1552.7	1310.7	1217.7	1181.0	1176.1
25°	6875.9	6291.4	4917.3	3479.5	2344.9	1687.2	1352.2	1203.1	1149.3	1124.9	1122.3
27.5°	7027.5	6315.9	4689.9	3058.9	1970.8	1464.7	1239.8	1149.3	1110.1	1088.1	1085.7
30°	7223.1	6391.7	4450.2	2660.4	1679.9	1313.1	1171.3	1112.6	1080.8	1058.7	1058.7
32.5°	7548.4	6519.0	4198.4	2315.6	1472.0	1208.0	1119.9	1080.8	1054.0	1036.8	1034.3
35°	8027.6	6758.6	3963.7	2029.5	1322.8	1132.2	1075.8	1046.6	1027.0	1017.2	1017.2
37.5°	8724.5	7137.6	3755.8	1824.1	1232.3	1080.8	1034.3	1012.3	1000.0	1000.0	1000.0
40°	9661.0	7660.8	3587.1	1687.2	1181.0	1044.1	1002.6	985.4	978.1	980.5	980.5
42.5°	10817.5	8340.7	3474.7	1591.8	1156.6	1022.1	980.5	965.9	958.5	956.1	958.5
45°	12135.5	9113.4	3462.4	1520.9	1132.2	1007.4	965.9	951.2	936.5	926.7	926.7
47.5°	13416.8	9898.3	3562.6	1496.5	1105.2	990.3	953.7	939.0	916.9	895.0	895.0
50°	14549.0	10565.7	3697.2	1506.2	1095.5	965.9	934.0	926.7	892.5	868.1	865.6
52.5°	15448.8	11079.2	3807.1	1535.6	1105.2	948.7	909.6	912.1	875.3	848.5	846.0
55°	16170.2	11416.6	3777.8	1564.9	1127.2	939.0	887.6	892.5	863.1	836.3	836.3
57.5°	16485.6	11292.0	3452.6	1540.4	1144.4	941.4	870.5	890.0	865.6	841.2	841.2
60°	15808.2	10184.3	2843.8	1432.9	1122.3	934.0	863.1	899.9	897.3	873.0	870.5
62.5°	13759.1	8201.2	2205.6	1274.0	1046.6	897.3	843.6	897.3	924.4	916.9	914.5
65°	10604.8	5841.5	1684.8	1102.8	943.9	836.3	792.2	841.2	877.8	887.6	885.1
67.5°	6883.3	3579.8	1298.4	941.4	829.0	765.4	726.2	748.2	755.5	755.5	750.7
70°	3384.2	1926.8	1034.3	792.2	711.6	689.5	667.6	655.3	643.1	633.2	633.2
72.5°	1670.0	1259.3	850.9	670.0	613.7	603.9	599.1	584.4	574.6	562.3	557.6
75°	1234.8	1024.6	723.8	564.9	528.2	518.4	528.2	515.9	513.5	503.6	498.8
77.5°	1014.8	873.0	623.6	484.1	452.4	435.3	449.9	452.4	454.8	440.1	435.3
80°	824.1	738.5	520.8	401.0	371.7	359.5	369.2	388.8	393.7	371.7	361.8
82.5°	594.2	603.9	420.5	313.0	288.6	278.7	298.3	322.8	327.7	295.9	288.6
85°	498.8	503.6	322.8	222.6	198.1	183.3	215.1	239.6	256.8	225.0	217.7
87.5°	207.8	295.9	185.8	124.7	110.1	95.4	114.9	127.2	154.0	141.8	139.5
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)