

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: P193102

Luminaire Tested: **GAN-AF-04-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18412.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 171
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



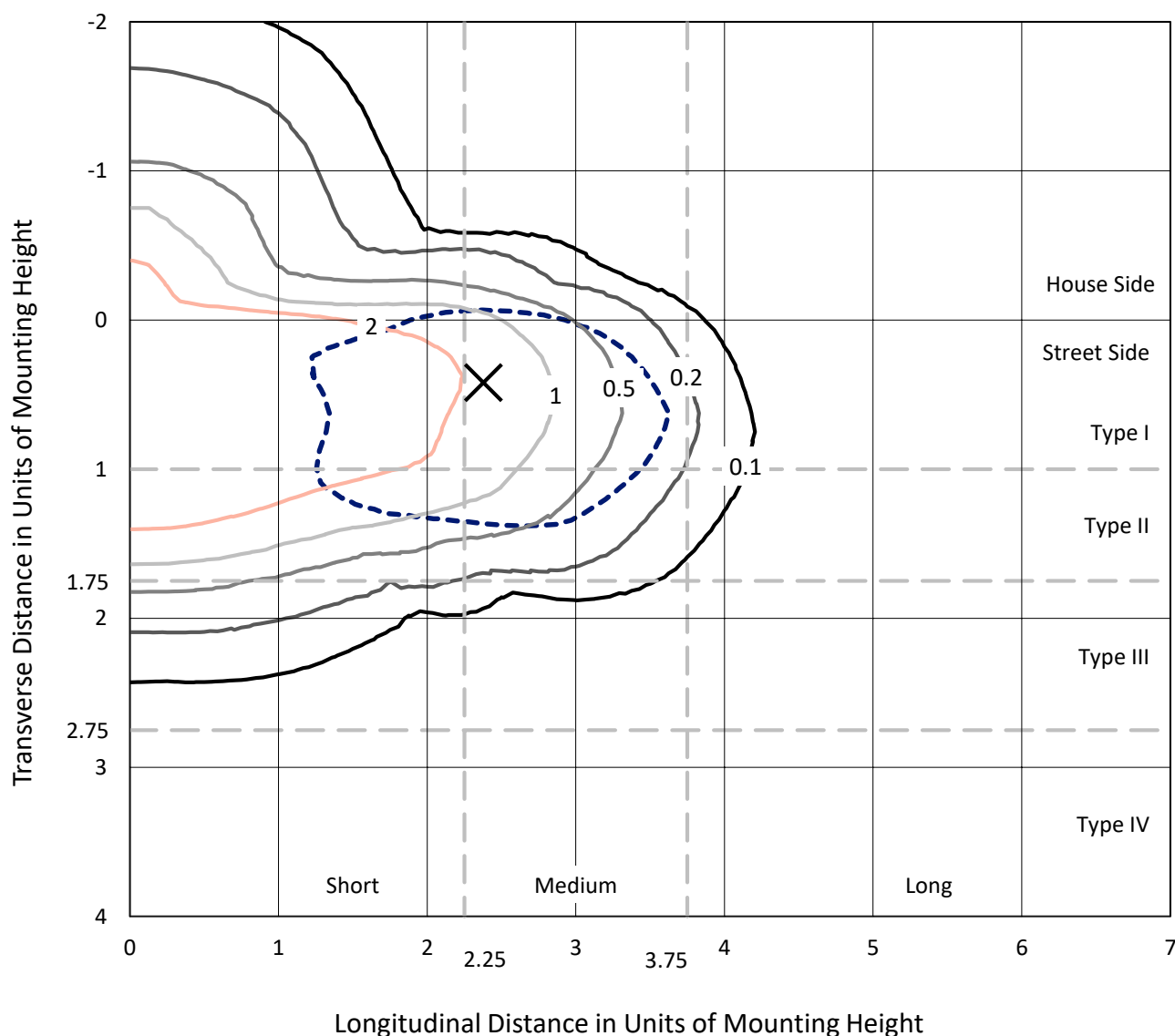
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

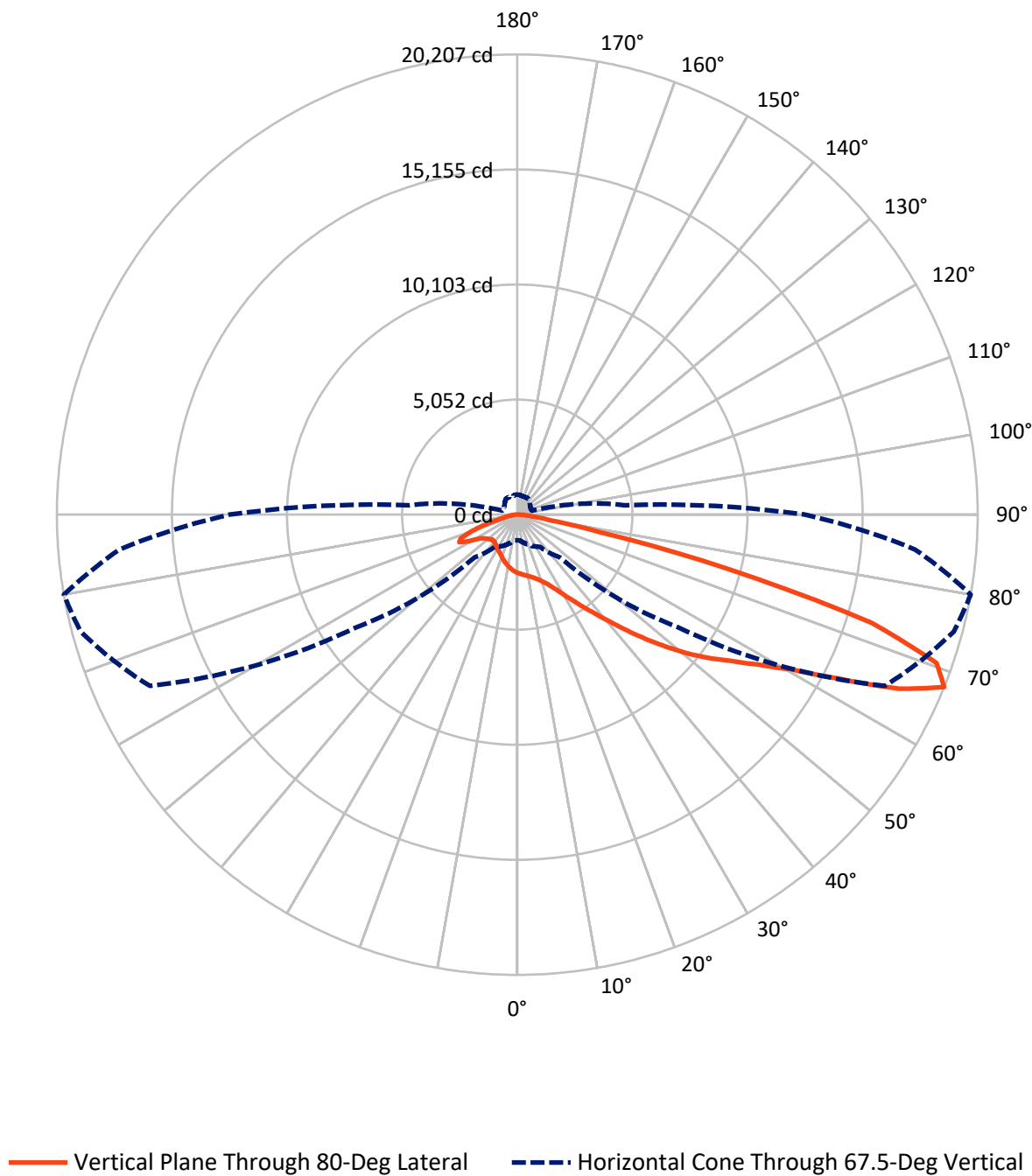


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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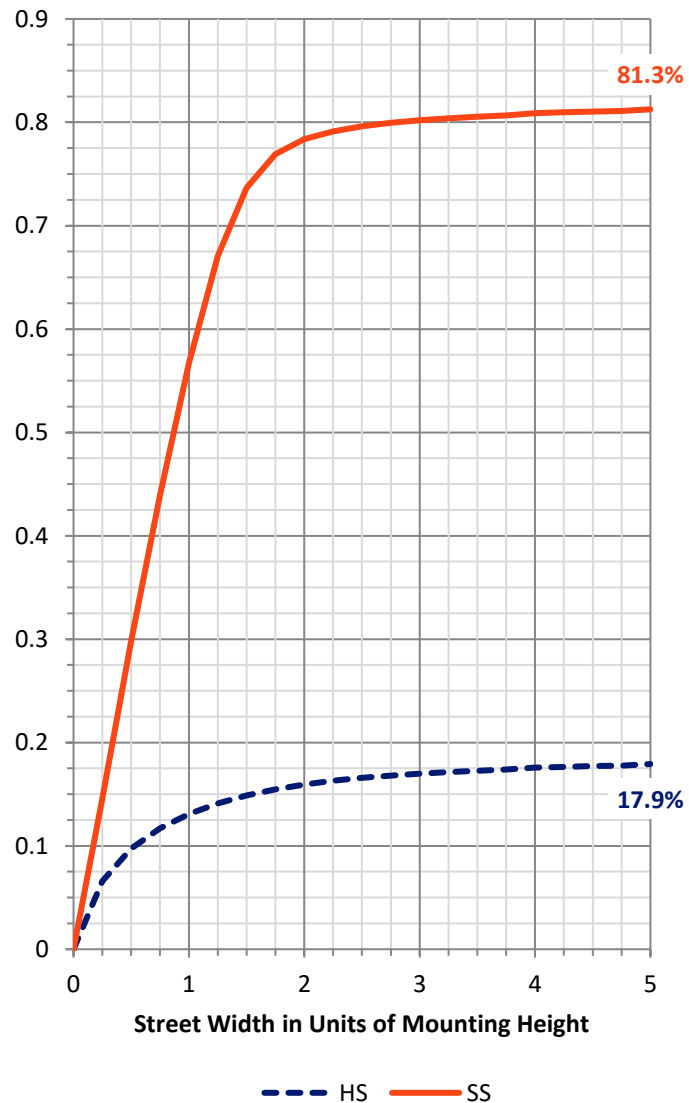
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3390.9	0.0	3390.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15021.5	0.0	15021.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	18412.4	0.0	18412.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.3
10°-20°	679.7	3.7
20°-30°	1125.1	6.1
30°-40°	1840.4	10.0
40°-50°	2971.5	16.1
50°-60°	4290.0	23.3
60°-70°	4734.3	25.7
70°-80°	2182.2	11.9
80°-90°	353.0	1.9
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°	18412.4	100.0
0°-180°	18412.4	100.0

Coefficient of Utilization



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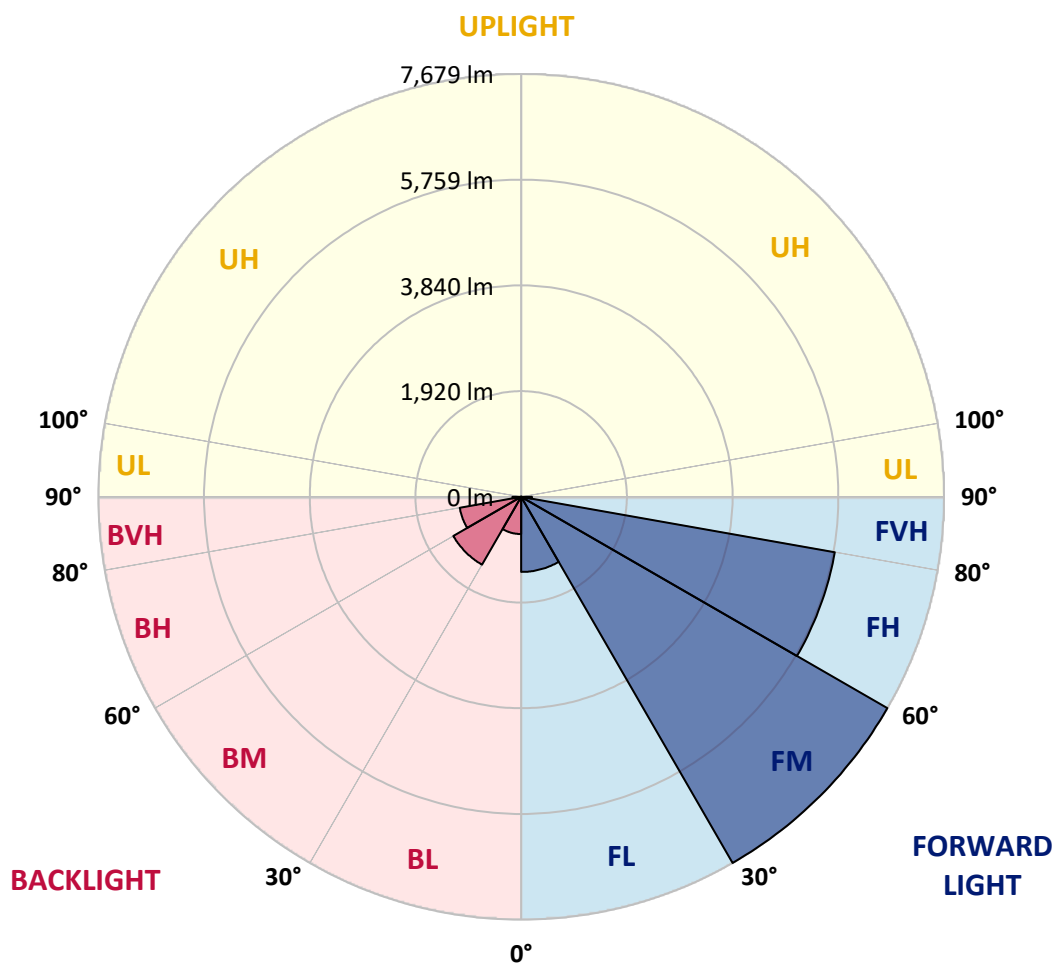
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.3	7.4			
FM	(30°-60°)	7679.3	41.7			
FH	(60°-80°)	5783.8	31.4			G3/7500
FVH	(80°-90°)	194.1	1.1			G2/225
BL	(0°-30°)	676.5	3.7	B2/1000		
BM	(30°-60°)	1422.7	7.7	B2/2500		
BH	(60°-80°)	1132.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	158.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0
2.5°	2798.2	2782.0	2784.6	2780.1	2766.5	2743.0	2717.5	2671.3	2623.4	2597.8	2578.0
5°	3032.1	3027.6	3021.2	3006.7	2972.3	2923.3	2862.6	2780.9	2693.0	2646.8	2602.4
7.5°	3207.1	3204.3	3196.2	3187.1	3153.5	3094.7	3003.1	2887.0	2759.3	2695.8	2626.9
10°	3221.5	3226.1	3232.4	3256.9	3261.4	3229.7	3136.3	2995.8	2828.1	2746.6	2658.6
12.5°	3098.3	3108.2	3132.7	3195.3	3261.4	3300.4	3252.3	3110.1	2908.8	2810.0	2698.4
15°	2935.1	2940.5	2970.4	3056.5	3175.3	3296.0	3341.1	3236.0	3013.1	2891.5	2758.4
17.5°	2865.4	2868.0	2889.0	2945.9	3056.5	3228.8	3391.1	3373.0	3140.8	2993.1	2831.8
20°	2830.0	2836.3	2866.2	2922.3	2992.2	3142.7	3398.3	3520.7	3293.2	3120.0	2924.3
22.5°	2930.6	2927.8	2938.7	2966.8	3025.7	3116.4	3392.8	3673.0	3487.1	3283.1	3044.7
25°	3165.3	3175.3	3156.3	3124.6	3143.6	3207.1	3421.9	3838.0	3730.1	3492.6	3202.5
27.5°	3499.8	3489.8	3461.8	3387.4	3348.5	3375.7	3517.9	4015.6	4031.8	3768.2	3411.0
30°	3833.4	3825.2	3798.1	3707.3	3627.6	3605.0	3704.7	4219.6	4391.7	4099.0	3666.6
32.5°	4179.7	4170.7	4145.2	4054.6	3958.5	3905.9	3970.3	4455.3	4816.0	4494.2	3967.5
35°	4606.6	4589.3	4535.9	4409.9	4315.6	4274.9	4304.7	4751.6	5305.5	4961.9	4332.9
37.5°	5008.1	5034.4	4980.0	4806.0	4683.6	4669.2	4702.7	5113.4	5833.1	5485.0	4752.6
40°	5411.5	5416.1	5367.2	5224.8	5098.8	5075.2	5159.6	5552.0	6455.8	6110.5	5262.9
42.5°	5828.6	5837.6	5755.1	5623.7	5531.1	5535.7	5631.8	6066.0	7170.0	6847.4	5850.3
45°	6322.5	6336.2	6245.5	6073.2	5988.9	6158.4	6118.5	6642.5	7953.2	7685.0	6524.6
47.5°	6839.2	6860.1	6791.1	6629.9	6524.6	6757.5	6605.4	7281.6	8796.3	8583.2	7265.2
50°	7121.1	7151.0	7218.1	7206.3	7183.7	7144.7	7148.3	7966.8	9665.5	9518.6	8026.6
52.5°	6969.7	6968.8	7213.6	7510.9	7828.1	7851.7	7810.0	8689.3	10477.8	10433.2	8743.7
55°	6277.2	6324.4	6695.1	7270.6	8137.2	8678.4	8801.7	9516.8	11275.3	11327.0	9471.5
57.5°	5124.2	5163.1	5663.6	6465.8	7720.3	9169.7	10212.1	10719.8	12167.3	12408.5	10440.5
60°	3475.3	3522.5	4052.8	5016.3	6598.0	8895.9	11554.6	12866.3	13235.1	13783.5	11800.2
62.5°	2042.3	2084.8	2517.3	3164.4	4645.6	7624.2	12143.7	15920.0	14931.2	15858.4	13874.2
65°	1405.9	1434.9	1645.2	1969.7	2669.5	5135.0	11413.1	18028.5	17540.8	18429.1	16279.0
67.5°	1131.3	1127.7	1294.4	1515.7	1718.6	2647.8	8630.4	17790.0	19835.9	20206.6	17527.2
70°	931.9	928.1	1041.6	1224.6	1373.3	1491.2	4700.9	15012.7	19368.2	19518.7	16377.9
72.5°	779.6	783.2	855.7	991.6	1126.7	1123.0	2065.8	10561.1	15236.6	16277.2	13055.6
75°	658.1	659.9	707.9	804.0	914.6	904.6	1120.4	5721.6	8857.0	9581.3	7237.2
77.5°	560.2	562.0	592.8	646.3	725.2	721.5	817.6	2471.9	3694.7	3649.4	2475.5
80°	499.5	499.5	513.9	523.9	567.5	551.1	606.4	1187.4	1561.9	1442.2	988.0
82.5°	391.5	393.5	482.3	478.5	446.9	426.0	426.0	699.8	827.6	765.1	578.3
85°	220.2	219.4	311.0	375.3	393.5	300.0	297.3	391.5	450.4	397.0	280.1
87.5°	94.3	96.0	144.1	166.8	223.0	186.8	184.0	202.1	229.3	198.6	129.6
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°	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0
2.5°	2559.0	2535.4	2483.7	2419.3	2361.3	2323.3	2288.8	2238.9	2241.7	2207.2	2181.8
5°	2557.1	2508.1	2388.5	2246.2	2109.4	2010.5	1936.2	1869.1	1852.8	1821.1	1802.0
7.5°	2559.0	2479.2	2277.9	2050.4	1880.9	1755.8	1692.3	1657.0	1648.8	1638.1	1638.9
10°	2565.3	2452.9	2156.4	1867.4	1689.5	1607.1	1591.7	1602.7	1615.3	1618.9	1619.9
12.5°	2579.7	2429.3	2023.2	1704.1	1569.9	1544.6	1570.9	1608.1	1632.6	1644.4	1643.4
15°	2612.4	2411.2	1895.4	1576.3	1503.9	1517.4	1566.3	1618.9	1654.3	1670.6	1671.4
17.5°	2647.8	2384.9	1764.0	1478.4	1454.9	1489.3	1550.1	1611.7	1655.2	1673.3	1676.9
20°	2694.0	2352.3	1626.3	1405.0	1408.7	1447.5	1504.7	1566.3	1614.5	1629.8	1637.0
22.5°	2754.8	2316.9	1505.6	1345.2	1356.0	1386.0	1430.4	1483.8	1525.6	1532.8	1539.1
25°	2836.3	2278.8	1409.6	1290.8	1295.3	1312.5	1342.5	1374.2	1403.2	1395.0	1401.4
27.5°	2945.9	2246.2	1337.9	1240.9	1232.8	1236.4	1251.8	1261.8	1277.2	1254.6	1257.2
30°	3074.7	2210.9	1282.6	1197.4	1174.7	1168.4	1172.1	1177.5	1189.3	1158.4	1153.9
32.5°	3224.2	2168.2	1231.0	1159.4	1127.7	1115.0	1116.7	1131.3	1176.6	1157.5	1147.5
35°	3398.3	2120.1	1176.6	1117.6	1095.9	1077.8	1075.9	1121.3	1256.4	1244.6	1235.5
37.5°	3602.3	2072.1	1122.2	1070.5	1072.4	1052.3	1046.0	1097.7	1271.8	1225.6	1219.3
40°	3861.4	2046.8	1075.9	1020.7	1043.3	1040.5	1027.9	1054.3	1170.2	1085.9	1075.0
42.5°	4182.3	2050.4	1041.6	967.2	1008.9	1037.9	1018.0	1018.9	1060.6	997.1	987.1
45°	4578.5	2093.0	1017.1	924.6	969.9	1035.1	1014.4	999.8	1003.4	969.9	964.4
47.5°	5040.7	2181.0	999.8	889.3	932.7	1025.2	1013.4	994.4	986.2	968.1	963.5
50°	5554.7	2308.7	987.1	855.7	899.2	1008.9	1014.4	988.9	979.8	972.6	969.9
52.5°	6059.6	2454.7	968.1	826.6	872.9	988.9	1017.1	983.6	973.5	968.1	965.5
55°	6622.5	2636.9	939.1	802.2	851.1	963.5	1017.1	975.3	964.4	965.5	964.4
57.5°	7383.0	2931.4	904.6	781.3	824.9	932.7	999.8	966.3	952.6	953.7	954.5
60°	8571.4	3450.9	862.9	760.6	792.2	896.5	976.2	946.3	932.7	936.4	937.2
62.5°	10319.1	4213.1	808.5	729.8	757.8	857.4	943.7	920.9	907.4	916.4	916.4
65°	12135.7	4885.7	741.5	690.7	721.5	814.8	902.8	889.3	875.6	896.5	895.6
67.5°	12624.2	4735.3	674.3	648.1	685.3	767.8	853.9	846.6	839.3	875.6	873.8
70°	11214.7	3801.6	612.7	604.6	645.4	717.0	801.3	801.3	796.8	824.0	817.6
72.5°	8544.2	2695.8	553.8	558.5	600.1	661.7	744.2	750.5	743.3	756.8	751.4
75°	4573.9	1542.7	495.0	507.6	543.9	605.6	680.8	687.1	682.6	681.7	684.4
77.5°	1520.2	754.2	433.3	453.2	485.0	547.5	614.6	624.5	613.7	611.9	611.0
80°	677.1	474.0	365.3	391.5	419.7	481.3	544.7	553.0	541.2	557.4	536.6
82.5°	435.1	311.8	292.9	321.8	349.0	415.1	474.9	476.8	465.9	541.2	461.4
85°	211.2	193.1	220.2	246.6	270.1	326.3	393.5	394.3	367.1	334.5	322.8
87.5°	105.1	112.4	146.9	170.5	182.3	223.9	286.5	281.1	269.3	244.7	225.7
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)