

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: P193250

Luminaire Tested: **GAN-AF-02-LED-U-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806.6 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



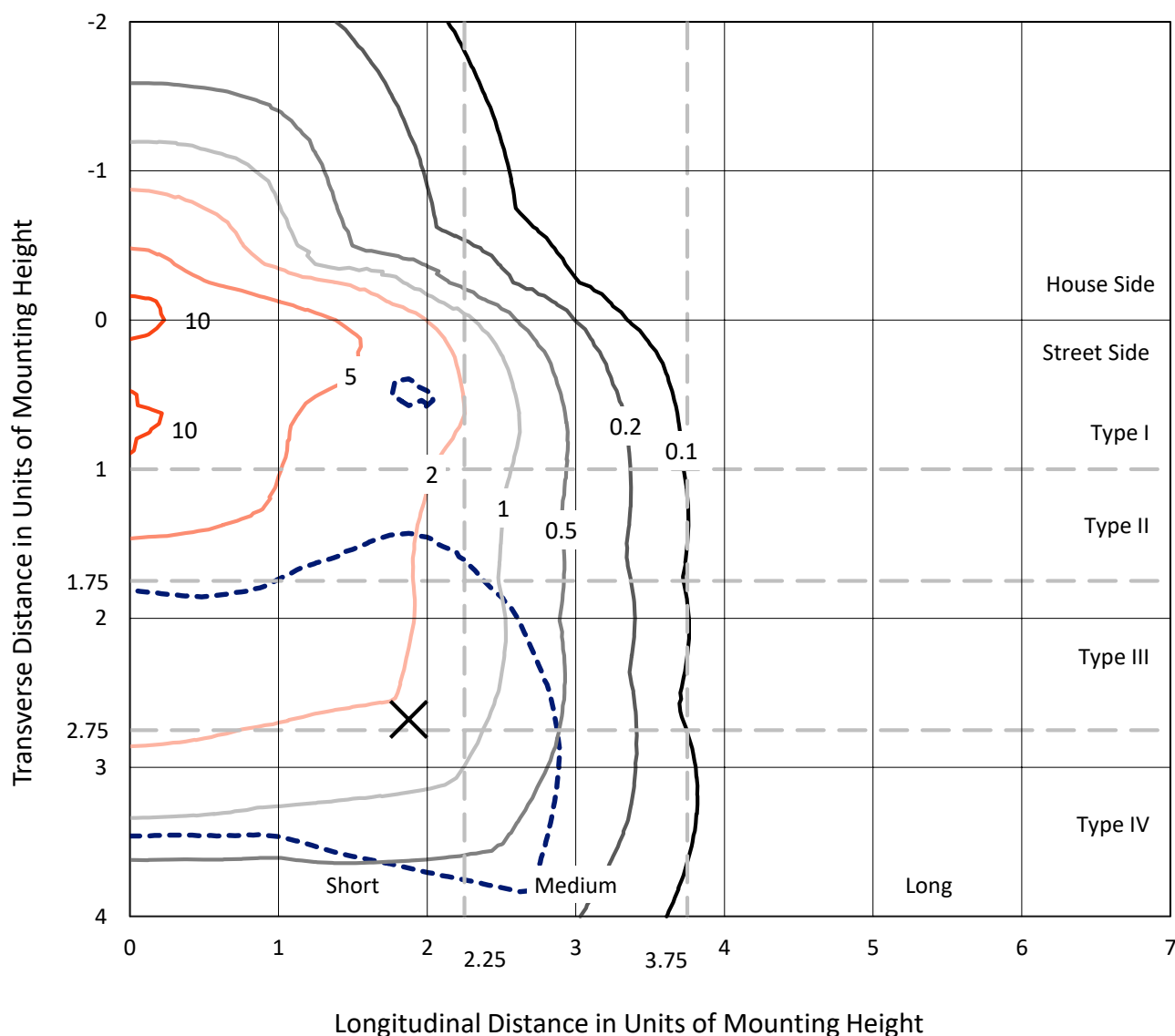
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

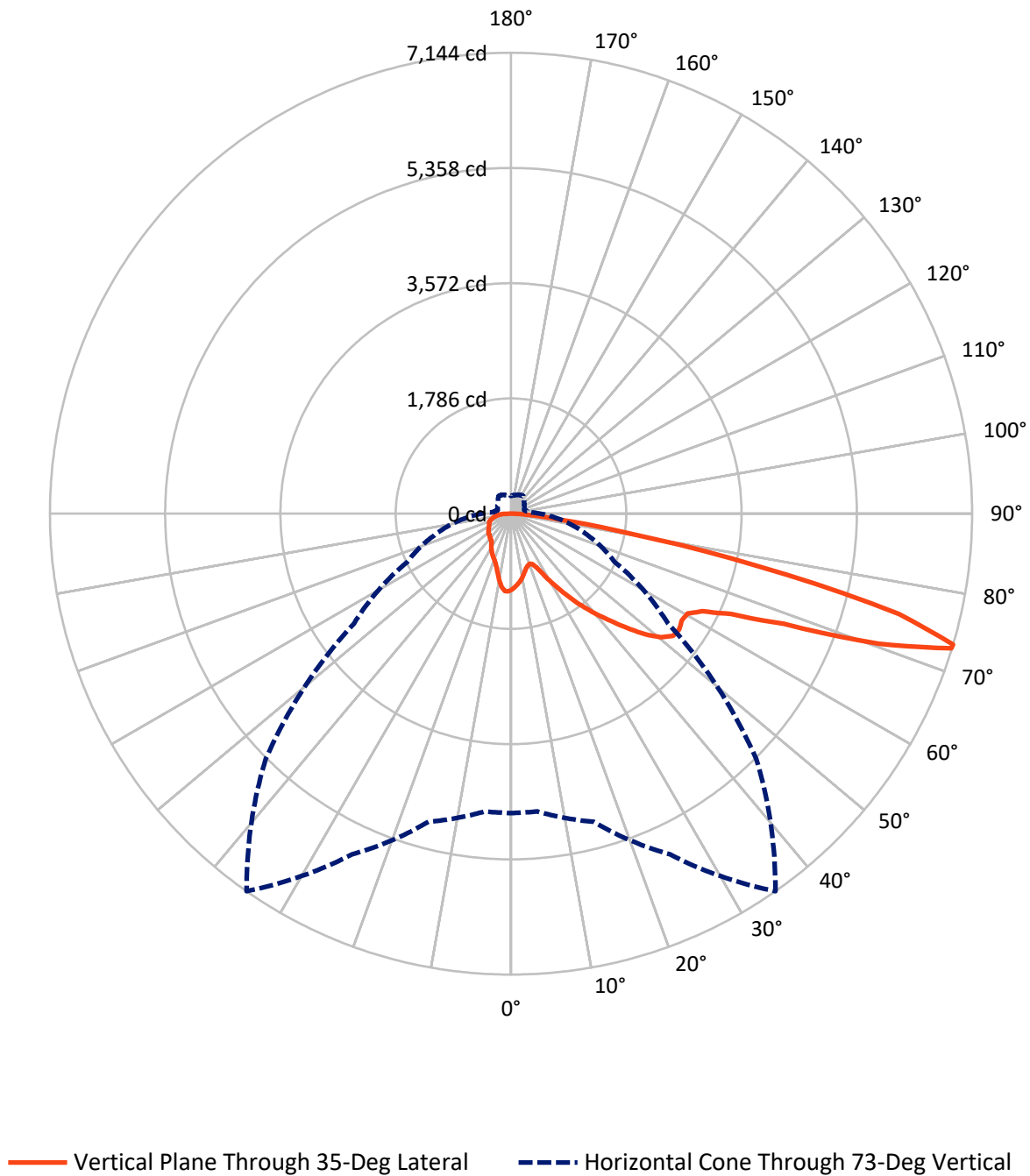


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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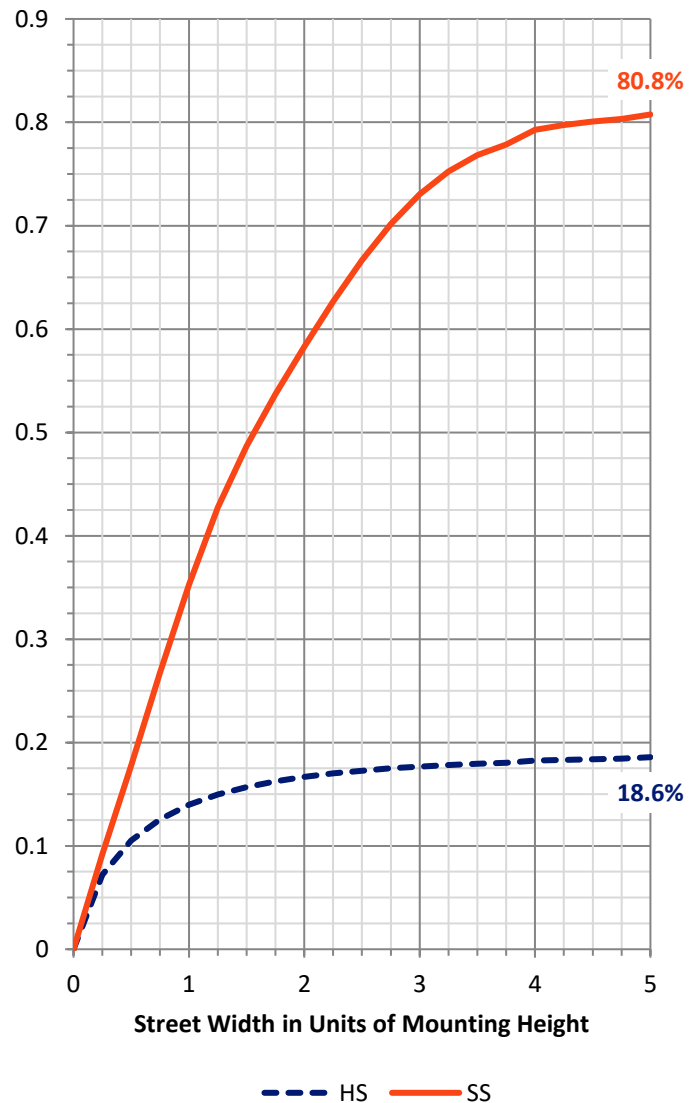
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.9	0.0	1488.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6317.6	0.0	6317.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	7806.6	0.0	7806.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.4
10°-20°	266.2	3.4
20°-30°	430.4	5.5
30°-40°	721.7	9.2
40°-50°	1112.5	14.3
50°-60°	1492.5	19.1
60°-70°	1988.3	25.5
70°-80°	1516.5	19.4
80°-90°	171.9	2.2
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°	7806.6	100.0
0°-180°	7806.6	100.0

Coefficient of Utilization



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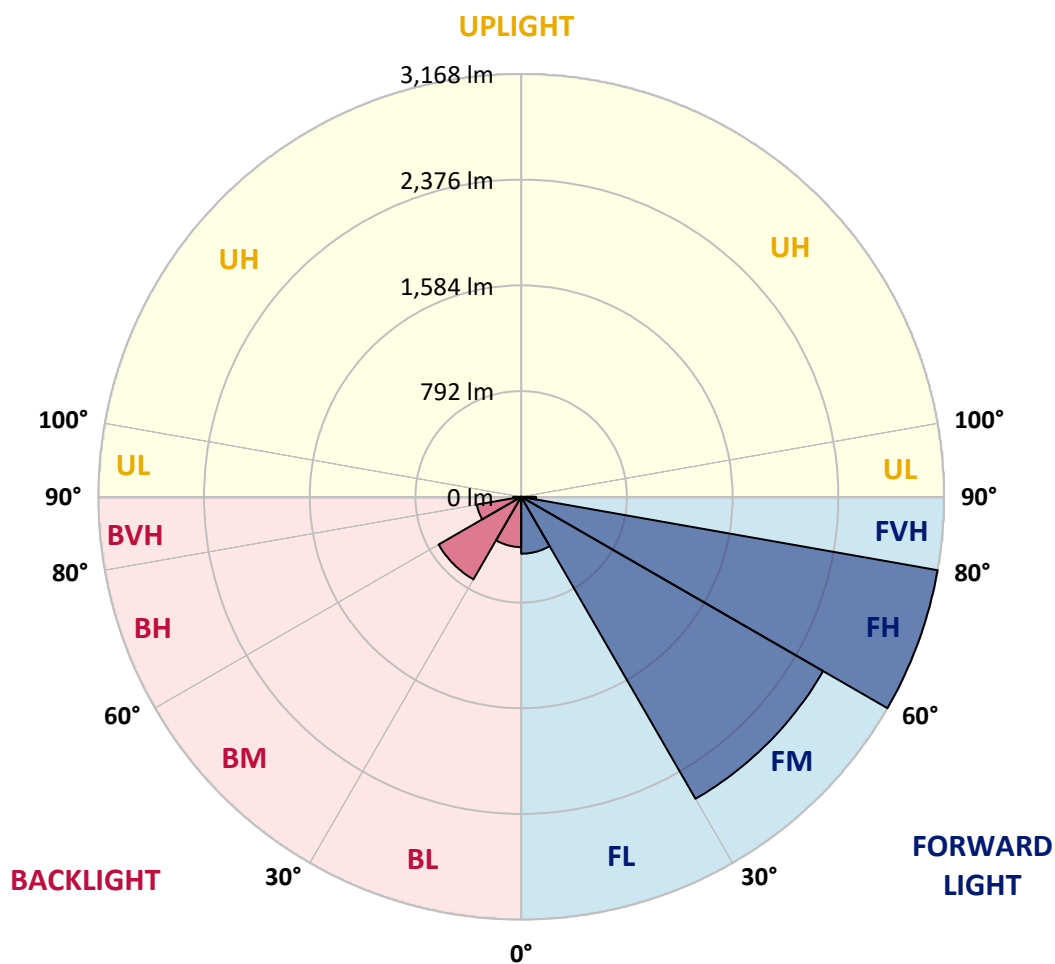
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.5	5.5			
FM	(30°-60°)	2612.1	33.5			
FH	(60°-80°)	3167.9	40.6			G2/5000
FVH	(80°-90°)	111.1	1.4			G2/225
BL	(0°-30°)	376.8	4.8	B1/500		
BM	(30°-60°)	714.5	9.2	B1/1000		
BH	(60°-80°)	336.9	4.3	B1/500		G1/500
BVH	(80°-90°)	60.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1131.8	1134.0	1131.4	1134.7	1140.3	1146.3	1150.5	1156.5	1163.3	1172.7	1174.9
5°	1078.5	1081.8	1081.8	1087.9	1098.8	1108.6	1117.5	1127.2	1141.5	1157.6	1164.0
7.5°	1020.1	1021.9	1025.3	1034.2	1050.1	1063.9	1076.6	1092.4	1111.9	1133.2	1144.5
10°	949.6	952.2	957.4	970.2	991.5	1010.6	1029.0	1050.7	1075.5	1102.2	1116.4
12.5°	899.7	898.9	901.2	910.5	929.4	952.5	979.2	1007.0	1037.3	1068.4	1085.7
15°	882.9	878.8	870.1	867.8	878.0	901.2	932.0	966.1	1002.5	1039.9	1061.4
17.5°	893.3	886.2	862.6	845.3	843.8	861.5	894.1	932.3	974.3	1020.1	1046.7
20°	959.3	942.5	884.4	844.2	830.4	839.0	867.5	908.0	957.4	1018.2	1052.2
22.5°	1117.1	1092.4	969.0	894.5	847.7	837.2	858.4	901.6	959.3	1041.5	1085.0
25°	1346.9	1311.7	1114.6	1019.7	922.9	867.1	872.0	916.2	985.9	1095.5	1147.9
27.5°	1528.4	1505.5	1304.5	1196.3	1060.2	948.1	915.8	953.0	1040.2	1183.9	1237.5
30°	1636.3	1622.5	1507.8	1396.5	1235.2	1077.1	999.8	1021.9	1125.4	1306.4	1350.7
32.5°	1761.6	1753.3	1697.2	1594.7	1424.2	1246.4	1132.9	1125.1	1239.3	1453.8	1474.0
35°	1891.3	1888.6	1855.7	1782.2	1627.0	1469.9	1309.5	1256.3	1363.4	1606.7	1594.0
37.5°	2012.0	2007.5	1988.4	1945.7	1839.2	1709.8	1489.4	1390.8	1497.3	1752.9	1696.4
40°	2234.4	2199.1	2133.5	2101.2	2053.6	1911.9	1632.3	1516.4	1635.9	1892.4	1784.9
42.5°	2505.4	2448.0	2325.8	2281.6	2274.8	2071.2	1729.7	1638.3	1775.8	2030.7	1871.8
45°	2718.7	2664.7	2559.3	2503.4	2528.3	2215.6	1827.6	1768.4	1919.8	2175.8	1961.4
47.5°	2946.1	2861.5	2721.9	2738.9	2792.8	2352.1	1927.3	1908.1	2077.6	2338.1	2072.7
50°	2954.5	2889.6	2828.5	2929.3	3013.3	2477.6	2052.1	2054.7	2270.6	2542.5	2220.8
52.5°	2783.2	2769.2	2866.3	3025.0	3146.0	2577.0	2194.2	2206.2	2517.7	2777.2	2383.5
55°	2723.2	2707.5	2819.4	2991.5	3164.0	2659.1	2348.3	2370.1	2816.4	3024.6	2542.0
57.5°	2869.3	2834.5	2842.0	2975.7	3120.1	2749.0	2516.2	2560.1	3141.1	3240.8	2644.1
60°	3278.0	3203.4	3061.7	3058.2	3143.7	2884.0	2710.4	2764.0	3478.5	3344.3	2604.3
62.5°	3851.2	3776.5	3511.1	3338.3	3325.7	3106.7	2948.8	2963.1	3673.6	3204.1	2361.7
65°	4471.6	4404.9	4108.3	3864.3	3746.6	3475.5	3225.9	3051.9	3609.7	2818.4	1937.3
67.5°	5224.8	5153.1	4898.2	4672.9	4559.7	4070.9	3420.5	2966.8	3205.2	2183.3	1392.7
70°	5751.4	5678.3	5577.9	5760.4	6037.4	4929.7	3445.5	2620.8	2394.0	1451.2	838.2
72.5°	5064.2	5030.2	5213.6	5982.4	7136.3	5450.8	3114.6	1908.1	1390.5	770.4	485.1
73°	4639.9	4632.4	4945.1	5826.8	7144.1	5370.5	2969.4	1773.6	1192.4	681.6	443.5
75°	2095.3	2155.5	2840.8	4450.5	6206.9	4425.4	2090.0	1017.4	673.7	470.8	334.8
77.5°	503.4	524.5	888.9	2113.6	3919.7	2637.3	947.0	503.1	430.7	332.4	244.4
80°	214.4	221.6	342.3	780.8	1845.5	1062.0	436.4	337.1	298.1	232.0	171.3
82.5°	119.2	126.7	194.2	354.2	744.9	362.0	266.1	234.7	196.0	139.9	111.3
85°	67.5	71.6	113.6	198.0	315.6	145.5	159.3	155.9	110.6	72.0	54.7
87.5°	31.9	34.5	54.7	91.9	123.7	57.1	81.0	89.3	69.4	43.8	28.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1177.5	1184.3	1192.1	1196.3	1200.0	1204.5	1209.0	1209.0	1209.7	1210.1
5°	1169.3	1183.2	1195.6	1200.8	1201.9	1201.9	1200.8	1194.8	1189.5	1191.8
7.5°	1152.0	1172.3	1182.7	1180.9	1166.7	1150.2	1136.3	1119.4	1110.7	1109.3
10°	1127.2	1150.5	1152.3	1133.7	1098.4	1063.2	1033.9	1005.4	992.0	988.6
12.5°	1099.9	1121.2	1109.3	1070.6	1014.0	962.7	925.5	896.7	884.0	880.6
15°	1077.8	1092.4	1062.0	1001.4	930.2	875.7	845.0	823.6	814.6	812.1
17.5°	1066.2	1069.2	1013.7	931.6	855.8	810.4	791.4	781.2	777.9	776.0
20°	1071.9	1050.7	967.6	866.8	795.1	763.2	758.8	756.2	755.4	754.2
22.5°	1099.9	1045.2	925.2	805.2	741.9	728.0	731.8	731.4	730.6	729.9
25°	1150.2	1050.1	884.0	746.8	697.3	694.3	701.0	701.0	698.0	698.0
27.5°	1216.5	1060.2	837.9	691.3	656.7	657.2	662.4	660.9	657.5	655.3
30°	1297.5	1066.6	783.8	641.5	619.0	617.5	619.0	612.5	602.4	601.7
32.5°	1380.3	1058.6	721.2	597.2	578.8	575.5	574.2	565.3	553.7	550.3
35°	1455.4	1029.8	657.5	561.9	540.7	533.0	538.3	535.4	524.9	522.3
37.5°	1510.1	976.2	600.2	530.8	513.2	511.4	514.7	515.8	503.4	500.9
40°	1546.8	903.5	551.1	504.6	507.9	500.9	489.6	481.8	478.0	476.8
42.5°	1576.4	827.7	509.8	492.2	509.0	488.5	464.2	451.4	458.2	461.1
45°	1610.5	753.9	475.4	476.8	503.4	474.1	446.5	434.1	436.7	437.5
47.5°	1657.4	664.0	438.2	452.2	484.7	464.5	435.6	418.0	405.6	400.0
50°	1722.3	557.4	399.7	424.4	466.3	457.4	418.8	400.0	377.2	371.9
52.5°	1767.2	458.2	367.7	401.1	449.8	443.1	405.3	380.9	356.8	352.4
55°	1742.8	380.6	340.1	375.3	428.1	425.4	394.0	361.4	342.6	338.9
57.5°	1621.0	331.4	318.6	350.9	401.5	410.5	379.0	344.9	331.4	328.8
60°	1388.5	300.7	305.2	334.5	379.7	395.5	364.1	335.9	326.9	325.0
62.5°	1077.4	280.0	295.0	322.5	362.8	385.0	355.7	334.8	331.4	329.2
65°	771.9	263.6	284.2	310.4	347.6	375.3	352.8	333.2	334.0	332.1
67.5°	524.5	248.9	271.1	296.8	332.4	366.7	348.6	328.0	337.4	335.1
70°	367.0	234.7	255.6	279.7	313.8	354.6	341.1	320.1	319.4	310.4
72.5°	286.4	215.9	234.7	255.6	289.7	337.7	326.1	302.5	290.2	280.8
73°	273.2	211.4	229.5	250.4	284.5	333.7	322.0	297.6	283.7	275.2
75°	226.0	192.0	208.4	227.2	262.0	314.1	301.8	275.6	258.0	252.7
77.5°	177.6	164.2	180.0	196.7	231.0	285.7	271.8	246.7	236.9	232.4
80°	131.5	136.0	149.9	165.0	200.2	255.3	242.9	217.8	261.2	250.4
82.5°	92.6	103.1	115.9	129.4	167.9	225.7	210.7	184.8	191.2	159.0
85°	54.7	67.5	79.4	91.1	121.1	187.1	173.9	147.3	120.7	115.0
87.5°	31.9	37.4	40.9	52.9	83.2	141.0	122.6	109.0	62.6	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)