

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: P200670

Luminaire Tested: **GAW-AF-02-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-E1-T3-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8192 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

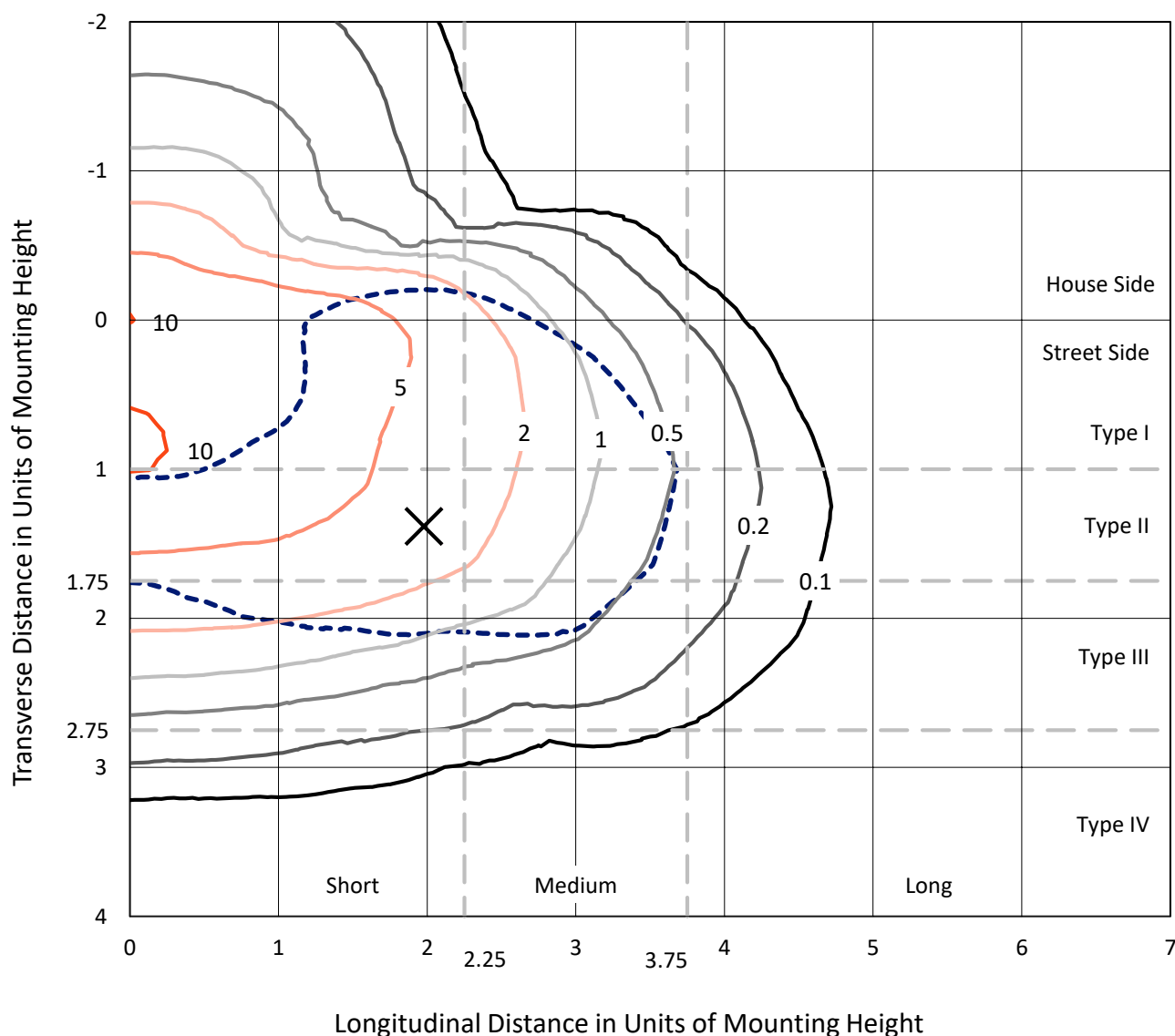


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

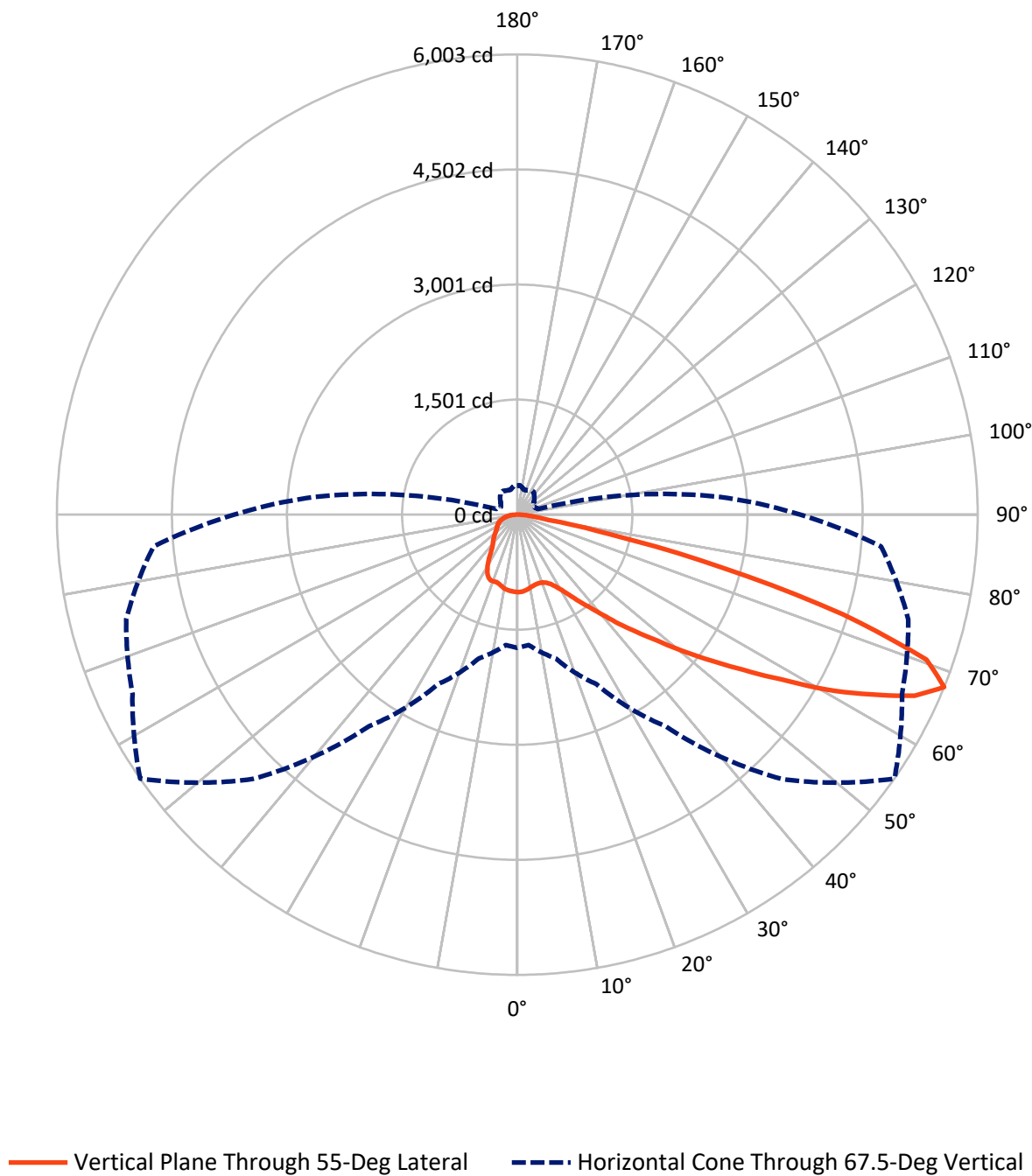


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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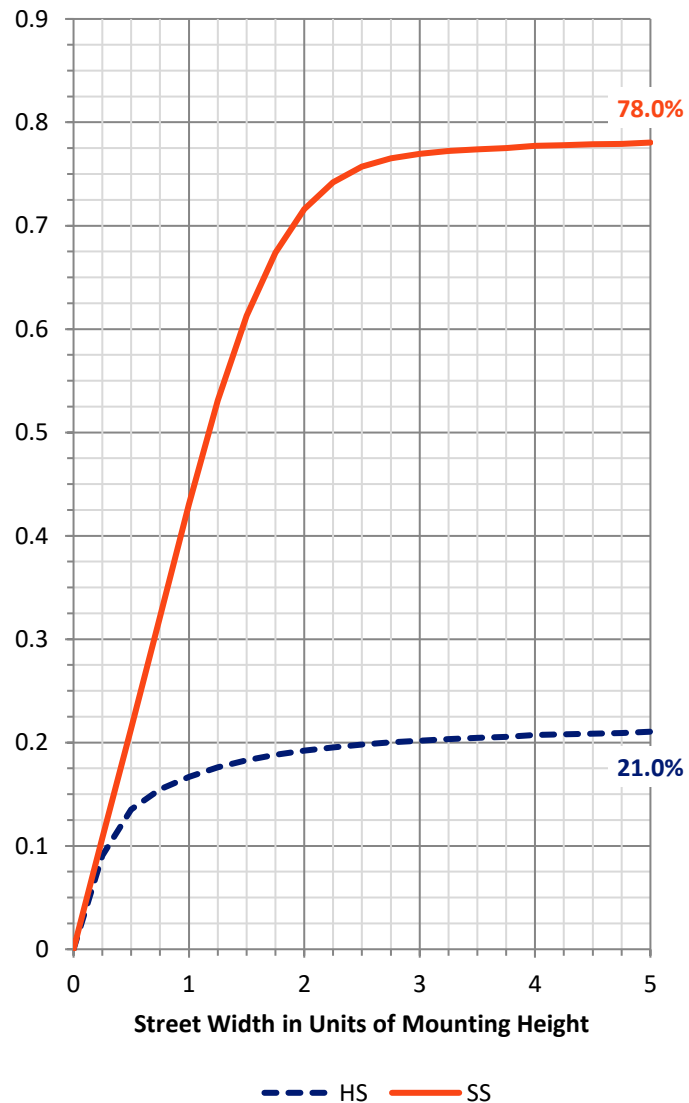
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.6	0.0	1769.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6422.4	0.0	6422.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	8192.0	0.0	8192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.2
10°-20°	267.0	3.3
20°-30°	447.3	5.5
30°-40°	735.6	9.0
40°-50°	1238.2	15.1
50°-60°	1948.9	23.8
60°-70°	2325.8	28.4
70°-80°	998.7	12.2
80°-90°	136.2	1.7
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°	8192.0	100.0
0°-180°	8192.0	100.0

Coefficient of Utilization



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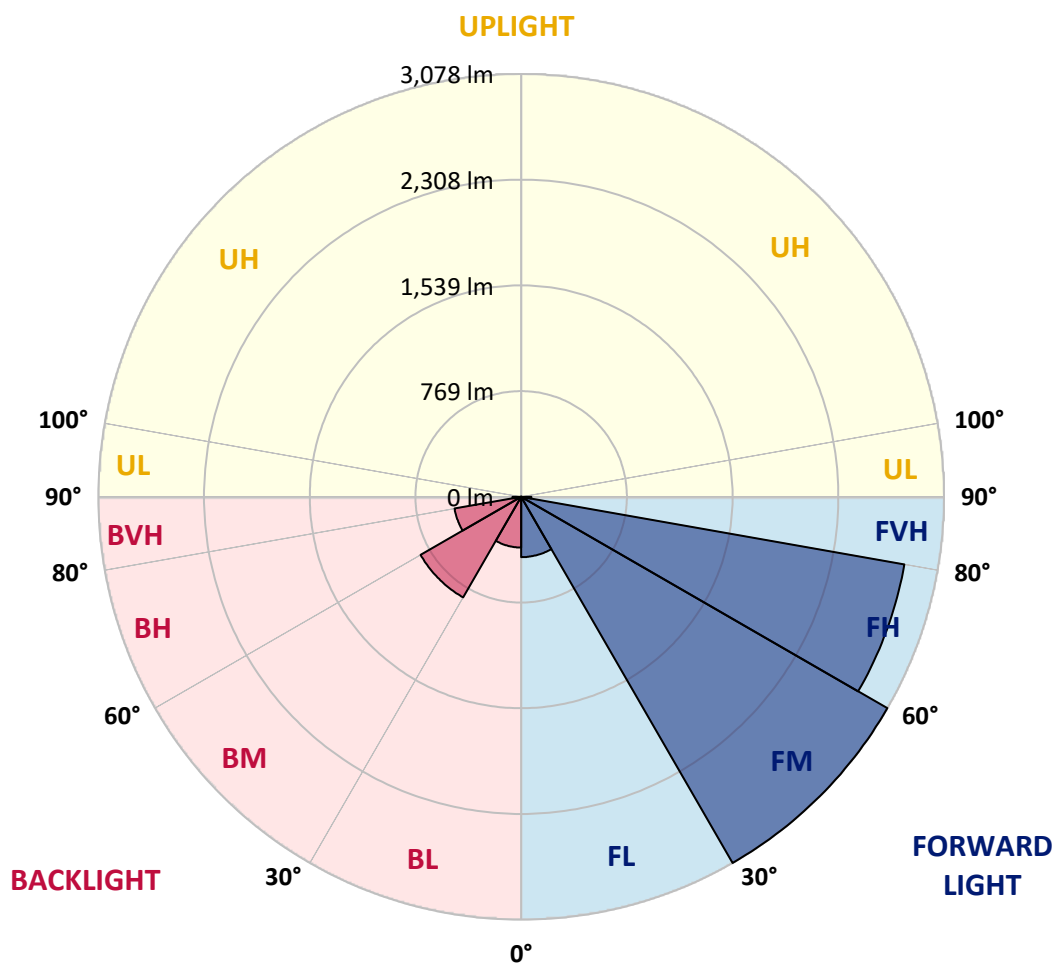
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.1	5.4			
FM	(30°-60°)	3077.5	37.6			
FH	(60°-80°)	2832.0	34.6			G2/5000
FVH	(80°-90°)	73.7	0.9			G1/100
BL	(0°-30°)	369.5	4.5	B1/500		
BM	(30°-60°)	845.2	10.3	B1/1000		
BH	(60°-80°)	492.5	6.0	B1/500		G1/500
BVH	(80°-90°)	62.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2
2.5°	1001.5	1001.9	1002.6	1005.8	1008.6	1007.8	1008.2	1006.6	1006.2	1003.8	1006.2
5°	988.8	990.0	990.4	995.5	998.7	999.5	998.3	996.3	993.9	991.6	992.8
7.5°	959.9	963.1	963.5	970.6	975.7	982.5	982.9	983.3	982.1	980.5	982.9
10°	941.7	942.5	942.1	947.3	951.2	958.7	963.1	970.6	973.8	974.6	976.1
12.5°	940.5	939.7	938.5	938.5	937.4	940.5	948.4	959.1	966.6	969.0	971.0
15°	953.2	952.8	948.8	942.9	935.4	933.0	939.7	951.6	961.5	966.6	968.6
17.5°	981.7	979.3	973.0	959.5	943.3	937.0	937.8	947.6	959.1	965.8	967.8
20°	1033.9	1033.9	1020.5	995.1	966.2	951.2	944.1	950.0	961.1	970.2	973.0
22.5°	1124.1	1124.9	1102.4	1060.8	1012.1	980.1	962.3	961.1	974.2	984.4	987.6
25°	1251.9	1248.8	1217.1	1157.8	1083.8	1030.7	999.9	992.8	1003.8	1015.3	1019.3
27.5°	1400.7	1389.2	1351.6	1280.0	1184.3	1106.7	1059.2	1047.8	1058.4	1071.5	1075.4
30°	1547.9	1536.0	1491.3	1413.0	1306.5	1208.4	1140.3	1121.7	1136.8	1155.4	1157.8
32.5°	1695.1	1695.1	1645.2	1553.8	1437.9	1329.9	1248.4	1226.2	1251.1	1273.7	1278.8
35°	1871.2	1871.9	1823.7	1713.7	1589.0	1474.7	1384.9	1368.6	1406.2	1422.1	1434.3
37.5°	2087.6	2091.9	2029.8	1896.9	1760.4	1640.1	1533.2	1511.1	1548.7	1591.8	1631.4
40°	2321.4	2327.0	2258.5	2094.7	1958.2	1832.4	1716.8	1676.9	1739.4	1821.7	1872.7
42.5°	2544.6	2573.1	2507.0	2338.5	2191.7	2061.5	1944.4	1886.2	1964.5	2088.8	2133.1
45°	2867.1	2887.6	2772.5	2619.8	2481.7	2336.1	2181.0	2119.6	2229.2	2385.9	2395.0
47.5°	3081.9	3066.5	3007.9	2913.0	2825.5	2689.4	2456.0	2388.7	2534.3	2718.7	2667.7
50°	3196.3	3201.0	3193.1	3198.7	3201.8	3116.4	2793.1	2700.9	2874.6	3097.4	2979.8
52.5°	3303.1	3271.5	3297.6	3427.4	3584.0	3552.4	3159.9	3063.7	3239.4	3517.6	3309.8
55°	3300.7	3252.5	3337.5	3566.6	3906.5	3942.9	3571.8	3461.0	3625.2	3968.2	3659.6
57.5°	3184.0	3186.4	3317.4	3617.3	4131.3	4310.1	4049.8	3883.6	4034.3	4424.9	3978.9
60°	3023.4	3045.1	3233.9	3609.0	4311.3	4611.2	4636.1	4339.0	4435.1	4839.9	4243.2
62.5°	2764.2	2787.1	3047.5	3522.7	4284.0	4901.2	5166.4	4855.7	4854.2	5091.6	4320.8
65°	2355.5	2348.7	2622.2	3200.2	4054.9	5115.7	5693.0	5302.5	5169.9	5095.5	4164.9
67.5°	1737.0	1707.0	1941.6	2437.4	3370.4	4875.5	6002.8	5535.1	5277.5	4760.4	3688.5
70°	901.4	871.3	1061.2	1423.2	2216.6	3805.2	5659.8	5414.8	5039.7	3990.4	2889.6
72.5°	385.4	380.2	457.4	624.4	1072.3	2194.8	4437.9	4686.8	4324.4	2973.1	1986.7
75°	259.2	257.6	286.5	340.3	482.3	890.7	2777.3	3326.9	3163.8	1843.5	1117.4
77.5°	203.4	201.4	218.4	244.5	312.6	351.4	1232.5	1786.1	1653.1	802.4	489.1
80°	159.1	157.5	168.2	182.4	224.7	221.6	405.6	710.6	550.0	307.4	237.8
82.5°	125.4	125.4	134.1	134.5	159.5	151.1	211.7	313.0	274.6	179.2	145.6
85°	114.7	114.7	123.8	100.5	104.1	95.4	131.4	185.6	174.1	73.6	63.3
87.5°	57.8	56.2	104.1	89.0	56.6	50.6	64.1	89.8	96.5	40.8	31.7
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°	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2	1010.2
2.5°	1005.4	1005.0	1005.8	1006.2	1009.4	1013.7	1015.7	1018.5	1020.1	1019.3
5°	993.5	994.3	997.5	999.9	1005.4	1012.5	1016.5	1019.7	1022.4	1021.2
7.5°	983.7	985.6	990.4	992.4	995.5	997.5	997.1	998.3	1000.7	997.9
10°	978.1	980.5	984.0	981.3	973.8	963.1	953.2	948.0	949.6	947.6
12.5°	972.6	975.7	973.0	959.9	938.9	925.1	917.6	918.4	921.9	922.7
15°	969.4	970.6	958.7	934.2	912.8	910.8	914.8	914.0	914.4	914.4
17.5°	969.4	966.2	944.1	919.6	910.5	906.9	894.6	879.2	872.5	870.1
20°	974.6	966.2	939.3	923.1	903.3	872.9	840.4	811.9	799.3	795.7
22.5°	990.0	975.7	952.8	924.7	868.5	817.5	766.0	732.0	709.1	705.1
25°	1021.2	1005.4	979.3	903.7	813.1	740.3	681.8	643.8	620.8	617.7
27.5°	1075.8	1065.6	993.5	857.4	739.5	661.6	607.4	578.1	561.1	559.9
30°	1158.1	1153.0	986.4	789.0	648.9	585.2	559.1	542.1	529.4	529.0
32.5°	1289.5	1248.0	963.1	705.5	566.2	531.0	520.3	510.0	500.1	500.1
35°	1458.5	1324.7	918.8	616.1	516.0	500.9	487.5	471.3	458.2	457.4
37.5°	1657.1	1372.2	839.2	544.1	492.2	480.7	461.0	436.8	413.9	409.9
40°	1857.7	1386.5	727.3	499.7	477.2	460.6	436.4	407.9	385.8	384.6
42.5°	2041.7	1359.2	608.6	469.3	462.2	440.0	414.7	389.3	371.9	371.5
45°	2196.0	1288.3	508.8	440.4	446.3	421.4	398.8	378.3	364.8	362.0
47.5°	2341.2	1188.2	438.8	409.9	430.5	411.1	392.1	372.7	359.7	357.7
50°	2509.8	1080.2	389.7	380.2	416.6	407.5	397.7	377.5	355.7	353.3
52.5°	2713.9	986.8	351.4	354.1	406.0	412.3	411.9	390.9	352.9	349.8
55°	2941.9	883.2	322.5	332.8	401.6	421.0	415.5	403.6	355.3	350.6
57.5°	3166.2	762.1	302.3	316.5	395.3	420.2	398.4	381.4	360.9	354.1
60°	3334.4	599.5	286.9	302.3	381.4	407.2	379.8	357.3	359.7	354.5
62.5°	3345.4	463.3	268.3	290.0	360.5	394.1	367.6	346.6	364.8	360.1
65°	3148.8	350.2	250.5	275.4	337.9	385.8	355.7	340.7	375.5	370.4
67.5°	2651.0	281.7	235.4	260.4	315.4	368.4	345.0	335.1	385.0	375.9
70°	1913.9	240.2	220.8	242.2	295.2	348.6	335.5	325.2	359.3	345.0
72.5°	1178.3	208.1	204.2	218.0	279.7	328.0	321.3	306.6	323.7	312.2
75°	588.4	180.4	185.6	194.3	258.0	304.7	297.5	282.9	285.3	282.9
77.5°	281.7	154.3	163.8	170.5	229.9	278.2	270.6	255.6	252.8	253.2
80°	178.5	129.0	138.1	142.8	205.4	247.3	239.8	224.7	256.4	237.8
82.5°	111.6	104.9	107.2	115.9	178.8	215.2	205.4	191.9	231.1	182.8
85°	61.7	73.2	76.4	83.9	137.7	180.0	170.1	153.1	137.3	134.9
87.5°	36.8	43.5	44.7	50.3	92.6	130.2	115.1	109.2	90.6	90.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)