

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: P193259

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193259
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-01-LED-U-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4899.2 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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



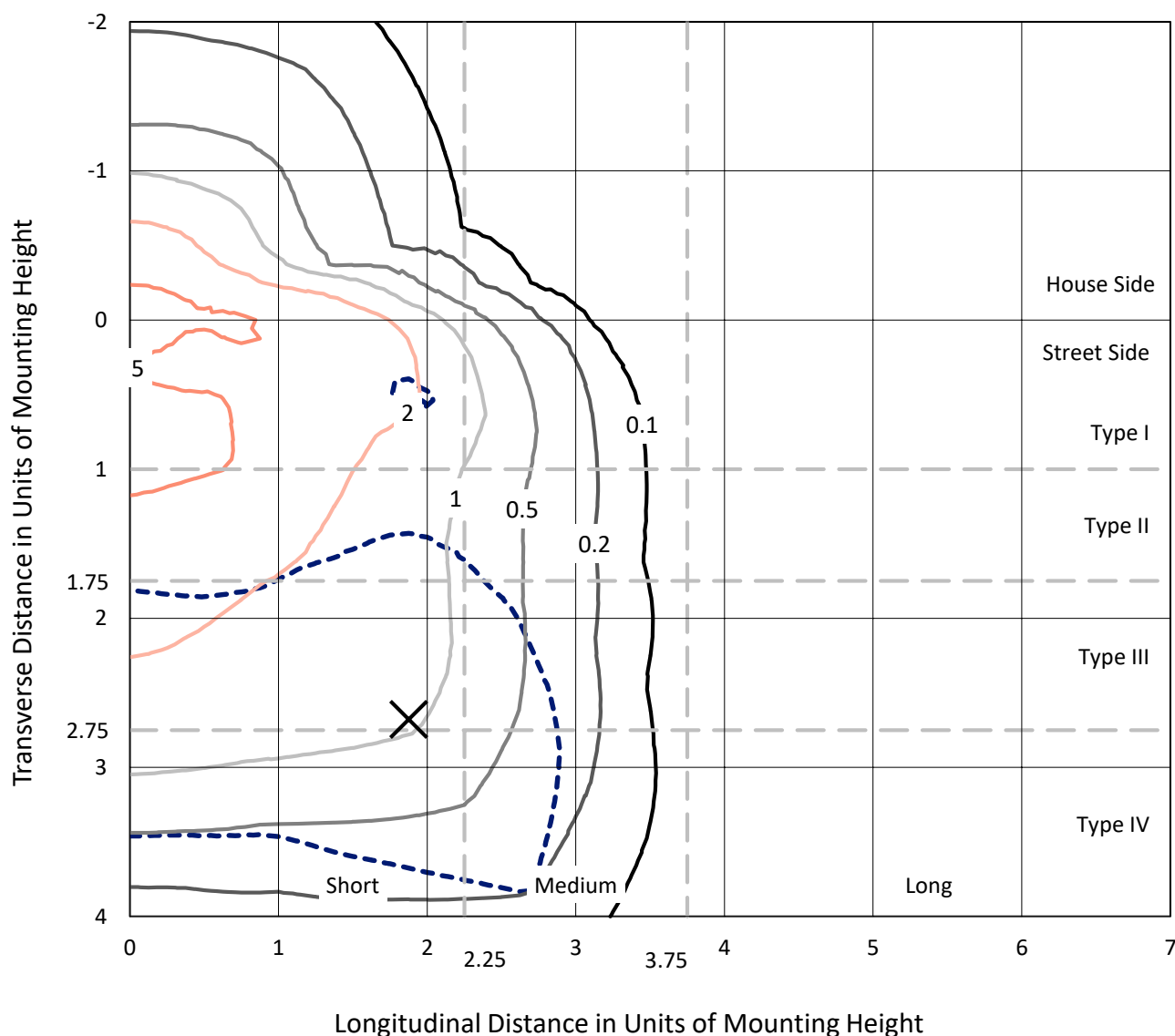
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

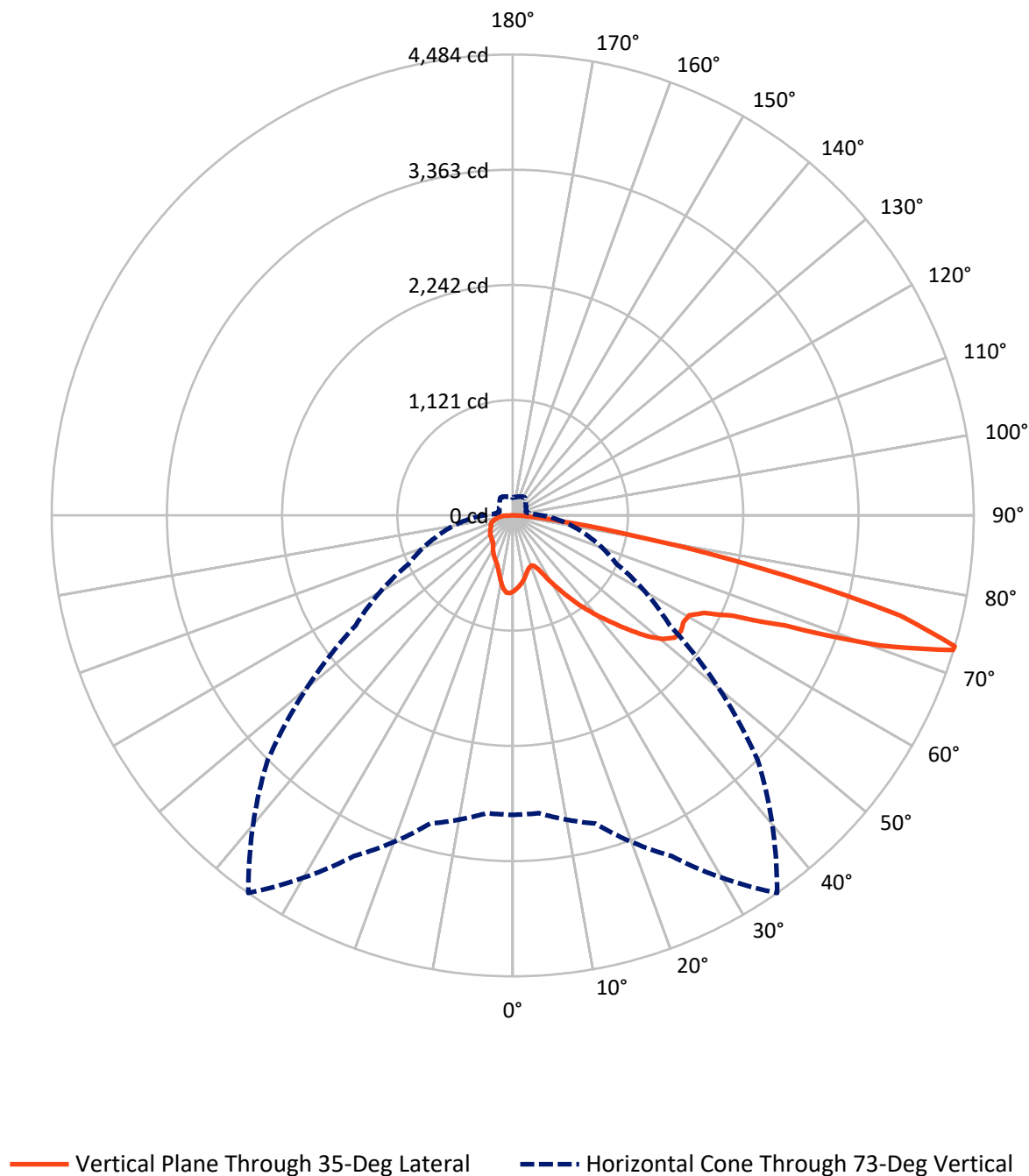


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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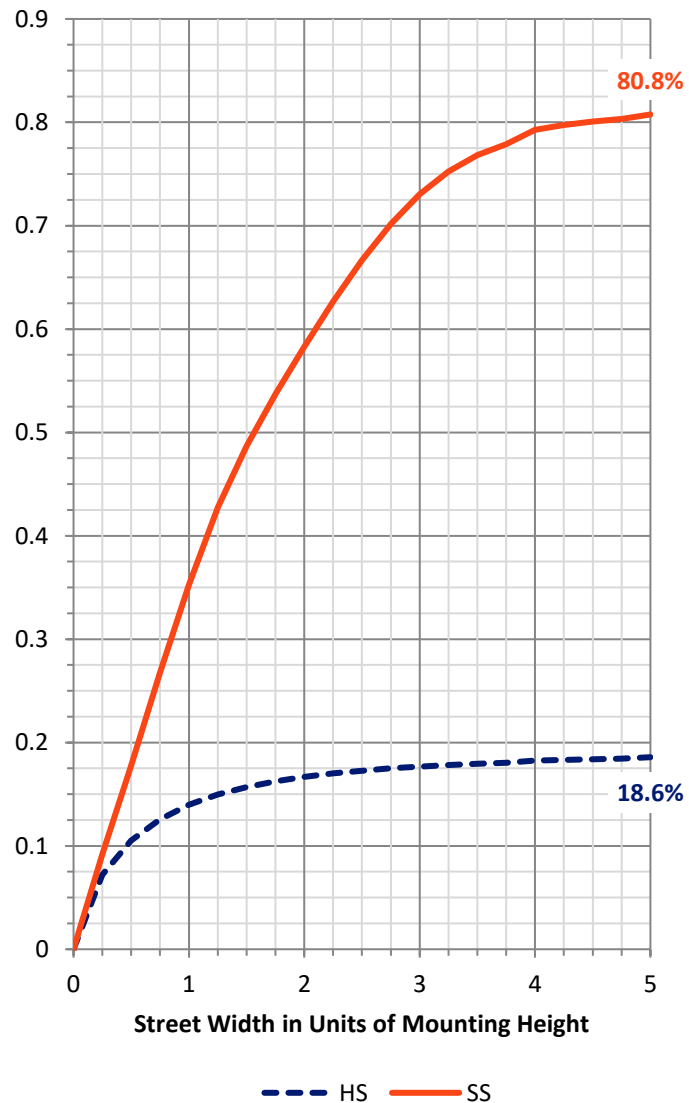
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.4	0.0	934.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3964.8	0.0	3964.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	4899.2	0.0	4899.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.4
10°-20°	167.1	3.4
20°-30°	270.1	5.5
30°-40°	452.9	9.2
40°-50°	698.1	14.3
50°-60°	936.6	19.1
60°-70°	1247.8	25.5
70°-80°	951.7	19.4
80°-90°	107.9	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°	4899.2	100.0
0°-180°	4899.2	100.0

Coefficient of Utilization



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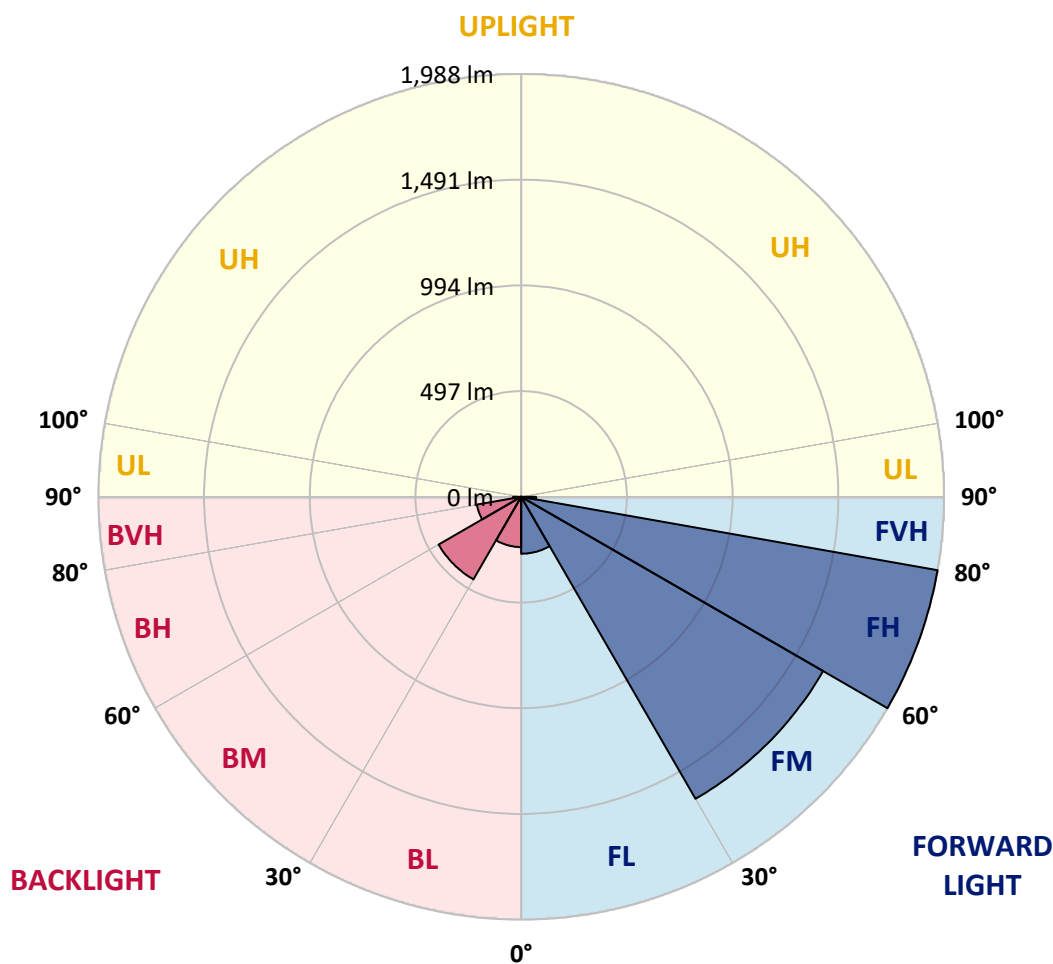
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.7	5.5			
FM	(30°-60°)	1639.3	33.5			
FH	(60°-80°)	1988.1	40.6			G2/5000
FVH	(80°-90°)	69.7	1.4			G1/100
BL	(0°-30°)	236.5	4.8	B1/500		
BM	(30°-60°)	448.4	9.2	B1/1000		
BH	(60°-80°)	211.4	4.3	B1/500		G1/500
BVH	(80°-90°)	38.1	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°	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4
2.5°	710.3	711.8	710.0	712.2	715.6	719.5	721.9	725.8	730.1	735.9	737.3
5°	676.9	678.9	678.9	682.8	689.5	695.7	701.3	707.5	716.4	726.5	730.5
7.5°	640.1	641.4	643.4	649.1	659.0	667.7	675.7	685.6	697.8	711.2	718.3
10°	595.9	597.5	600.8	608.9	622.2	634.2	645.8	659.5	675.0	691.7	700.6
12.5°	564.7	564.3	565.5	571.4	583.2	597.7	614.5	631.9	650.9	670.6	681.3
15°	554.1	551.4	546.1	544.6	551.0	565.5	584.9	606.3	629.2	652.6	666.1
17.5°	560.6	556.1	541.4	530.6	529.6	540.7	561.1	585.1	611.5	640.1	656.8
20°	602.0	591.4	555.0	529.8	521.1	526.5	544.4	569.8	600.8	638.9	660.4
22.5°	701.1	685.6	608.1	561.4	532.0	525.3	538.7	565.9	602.0	653.6	680.9
25°	845.3	823.2	699.5	639.9	579.2	544.2	547.3	575.0	618.7	687.5	720.3
27.5°	959.2	944.9	818.7	750.7	665.3	595.0	574.7	598.0	652.9	743.0	776.7
30°	1026.9	1018.2	946.1	876.4	775.2	675.9	627.4	641.4	706.3	819.9	847.7
32.5°	1105.4	1100.4	1065.1	1000.9	893.7	782.3	710.9	706.1	777.8	912.4	925.1
35°	1186.9	1185.3	1164.6	1118.5	1021.0	922.4	821.7	788.5	855.6	1008.4	1000.4
37.5°	1262.7	1259.9	1247.8	1221.1	1154.3	1073.0	934.7	872.9	939.6	1100.1	1064.6
40°	1402.3	1380.1	1338.9	1318.6	1288.8	1199.8	1024.3	951.6	1026.7	1187.6	1120.1
42.5°	1572.2	1536.3	1459.6	1431.9	1427.6	1299.8	1085.5	1028.1	1114.5	1274.4	1174.6
45°	1706.2	1672.2	1606.1	1571.1	1586.7	1390.5	1146.9	1109.7	1204.8	1365.5	1231.0
47.5°	1849.0	1795.7	1708.3	1718.8	1752.7	1476.1	1209.5	1197.5	1303.8	1467.4	1300.7
50°	1854.1	1813.3	1775.0	1838.4	1891.1	1554.9	1287.8	1289.5	1425.0	1595.6	1393.7
52.5°	1746.6	1737.9	1798.9	1898.4	1974.4	1617.2	1377.0	1384.6	1580.0	1742.8	1495.9
55°	1709.0	1699.1	1769.5	1877.4	1985.7	1668.7	1473.7	1487.3	1767.6	1898.2	1595.3
57.5°	1800.7	1778.8	1783.5	1867.6	1958.2	1725.2	1579.2	1606.6	1971.2	2033.9	1659.3
60°	2057.2	2010.4	1921.5	1919.2	1972.9	1809.9	1700.9	1734.6	2183.0	2098.8	1634.4
62.5°	2417.0	2370.1	2203.5	2095.0	2087.1	1949.6	1850.7	1859.5	2305.4	2010.8	1482.2
65°	2806.3	2764.4	2578.3	2425.1	2351.3	2181.2	2024.5	1915.4	2265.4	1768.7	1215.8
67.5°	3278.9	3234.0	3074.0	2932.6	2861.5	2554.7	2146.5	1861.9	2011.6	1370.2	874.0
70°	3609.5	3563.6	3500.5	3615.1	3789.0	3093.7	2162.3	1644.8	1502.5	910.6	526.1
72.5°	3178.3	3156.8	3271.9	3754.3	4478.5	3420.8	1954.5	1197.5	872.7	483.5	304.4
73°	2911.9	2907.2	3103.4	3656.7	4483.5	3370.4	1863.5	1113.1	748.4	427.7	278.3
75°	1314.9	1352.7	1782.9	2793.1	3895.3	2777.3	1311.6	638.5	422.8	295.5	210.1
77.5°	316.0	329.1	557.8	1326.4	2460.0	1655.1	594.3	315.8	270.3	208.6	153.4
80°	134.6	139.1	214.8	490.0	1158.2	666.5	273.8	211.5	187.1	145.7	107.5
82.5°	74.9	79.5	121.9	222.4	467.5	227.3	167.0	147.3	123.0	87.7	69.9
85°	42.4	44.9	71.2	124.2	198.1	91.2	100.0	97.9	69.4	45.2	34.3
87.5°	20.0	21.7	34.3	57.7	77.7	35.7	50.8	55.9	43.4	27.6	17.9
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°	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4
2.5°	738.9	743.2	748.1	750.7	753.2	755.8	758.7	758.7	759.3	759.5
5°	733.7	742.5	750.3	753.6	754.2	754.2	753.6	749.7	746.5	747.9
7.5°	723.0	735.7	742.3	741.1	732.1	721.7	713.1	702.5	697.1	696.2
10°	707.5	721.9	723.2	711.5	689.3	667.2	648.9	631.0	622.6	620.4
12.5°	690.3	703.6	696.2	672.0	636.4	604.2	580.8	562.8	554.7	552.7
15°	676.5	685.6	666.5	628.4	583.7	549.6	530.2	516.9	511.3	509.5
17.5°	669.1	671.0	636.1	584.6	537.1	508.6	496.7	490.2	488.2	487.0
20°	672.6	659.5	607.3	543.9	499.0	479.0	476.2	474.5	474.0	473.3
22.5°	690.3	655.9	580.6	505.4	465.6	456.9	459.2	459.0	458.6	458.1
25°	721.7	659.0	554.7	468.6	437.6	435.7	440.0	440.0	438.0	438.0
27.5°	763.4	665.3	525.9	433.9	412.2	412.5	415.7	414.7	412.7	411.3
30°	814.2	669.3	492.0	402.5	388.4	387.5	388.4	384.4	378.0	377.6
32.5°	866.2	664.4	452.7	374.8	363.3	361.1	360.4	354.8	347.5	345.4
35°	913.3	646.3	412.7	352.7	339.2	334.6	337.8	336.0	329.4	327.8
37.5°	947.6	612.6	376.6	333.1	322.1	320.9	323.0	323.7	316.0	314.3
40°	970.7	566.9	345.8	316.7	318.8	314.3	307.2	302.3	299.9	299.3
42.5°	989.4	519.4	319.9	308.8	319.5	306.6	291.2	283.3	287.5	289.4
45°	1010.6	473.1	298.3	299.3	316.0	297.6	280.2	272.4	274.1	274.6
47.5°	1040.1	416.6	275.0	283.7	304.2	291.5	273.3	262.3	254.6	251.1
50°	1080.8	349.8	250.7	266.4	292.7	287.1	262.8	251.1	236.6	233.4
52.5°	1109.1	287.5	230.7	251.8	282.3	278.1	254.3	239.1	224.0	221.1
55°	1093.8	238.8	213.4	235.5	268.7	267.0	247.3	226.8	215.0	212.7
57.5°	1017.3	207.9	200.0	220.1	252.0	257.7	237.8	216.5	207.9	206.3
60°	871.5	188.7	191.5	209.9	238.3	248.2	228.5	210.8	205.2	204.0
62.5°	676.2	175.7	185.2	202.3	227.7	241.6	223.2	210.1	207.9	206.6
65°	484.4	165.4	178.3	194.8	218.1	235.5	221.4	209.1	209.7	208.4
67.5°	329.1	156.2	170.1	186.3	208.6	230.1	218.8	205.9	211.8	210.4
70°	230.3	147.3	160.5	175.5	196.8	222.6	214.0	200.9	200.5	194.8
72.5°	179.7	135.5	147.3	160.5	181.8	212.0	204.7	189.9	182.1	176.2
73°	171.5	132.6	144.0	157.2	178.5	209.3	202.1	186.9	178.1	172.7
75°	141.8	120.4	130.8	142.6	164.4	197.1	189.3	172.9	161.8	158.5
77.5°	111.6	103.0	113.0	123.5	144.9	179.3	170.6	154.8	148.7	145.9
80°	82.6	85.4	94.1	103.5	125.6	160.2	152.4	136.7	164.0	157.2
82.5°	58.1	64.7	72.6	81.2	105.4	141.6	132.2	116.1	119.9	99.8
85°	34.3	42.4	49.8	57.2	76.1	117.4	109.2	92.5	75.7	72.2
87.5°	20.0	23.5	25.6	33.3	52.2	88.5	76.9	68.5	39.4	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)