

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: P193273

Luminaire Tested: **GAN-AF-05-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193273
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-05-LED-U-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 28946.1 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

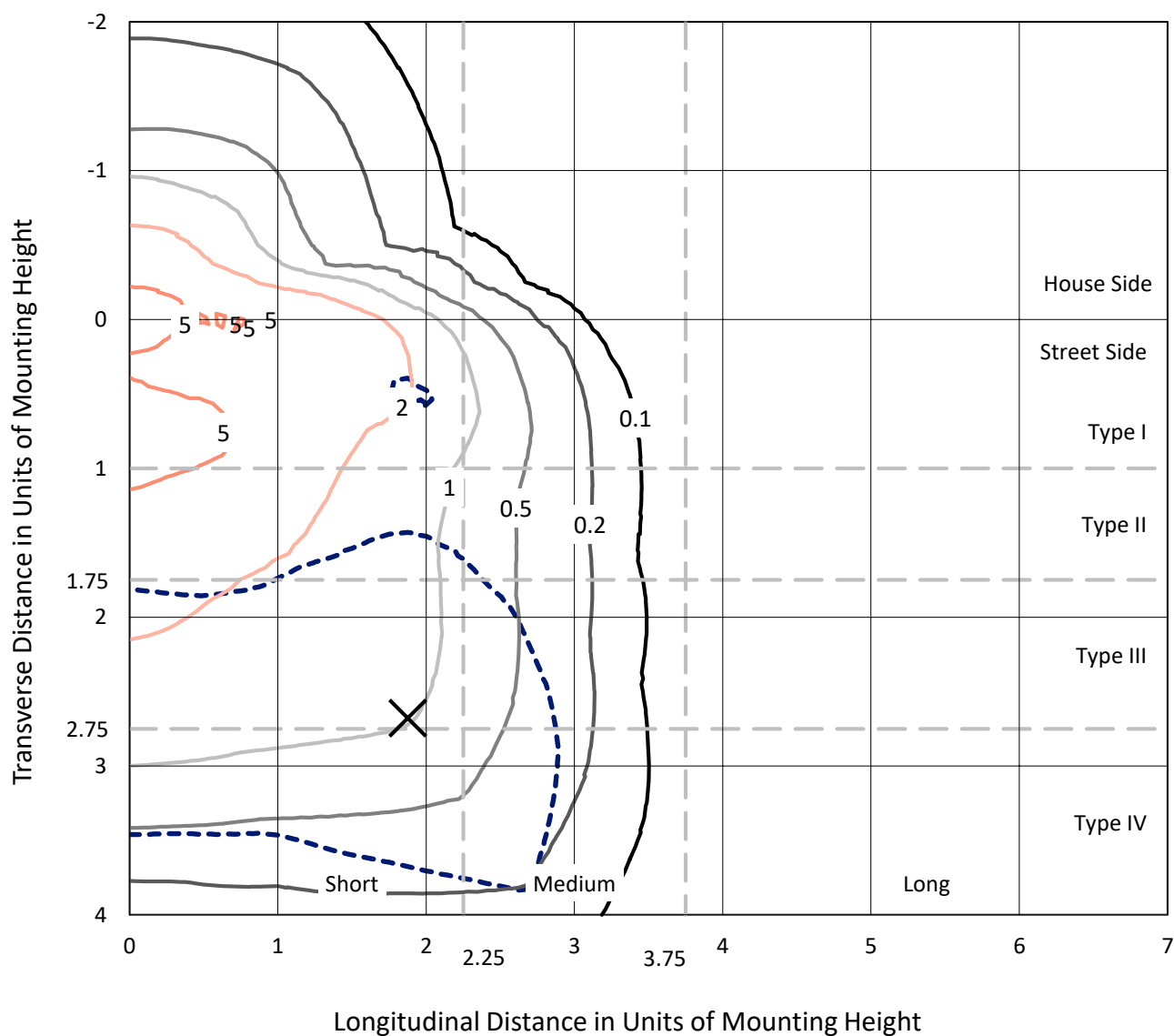


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

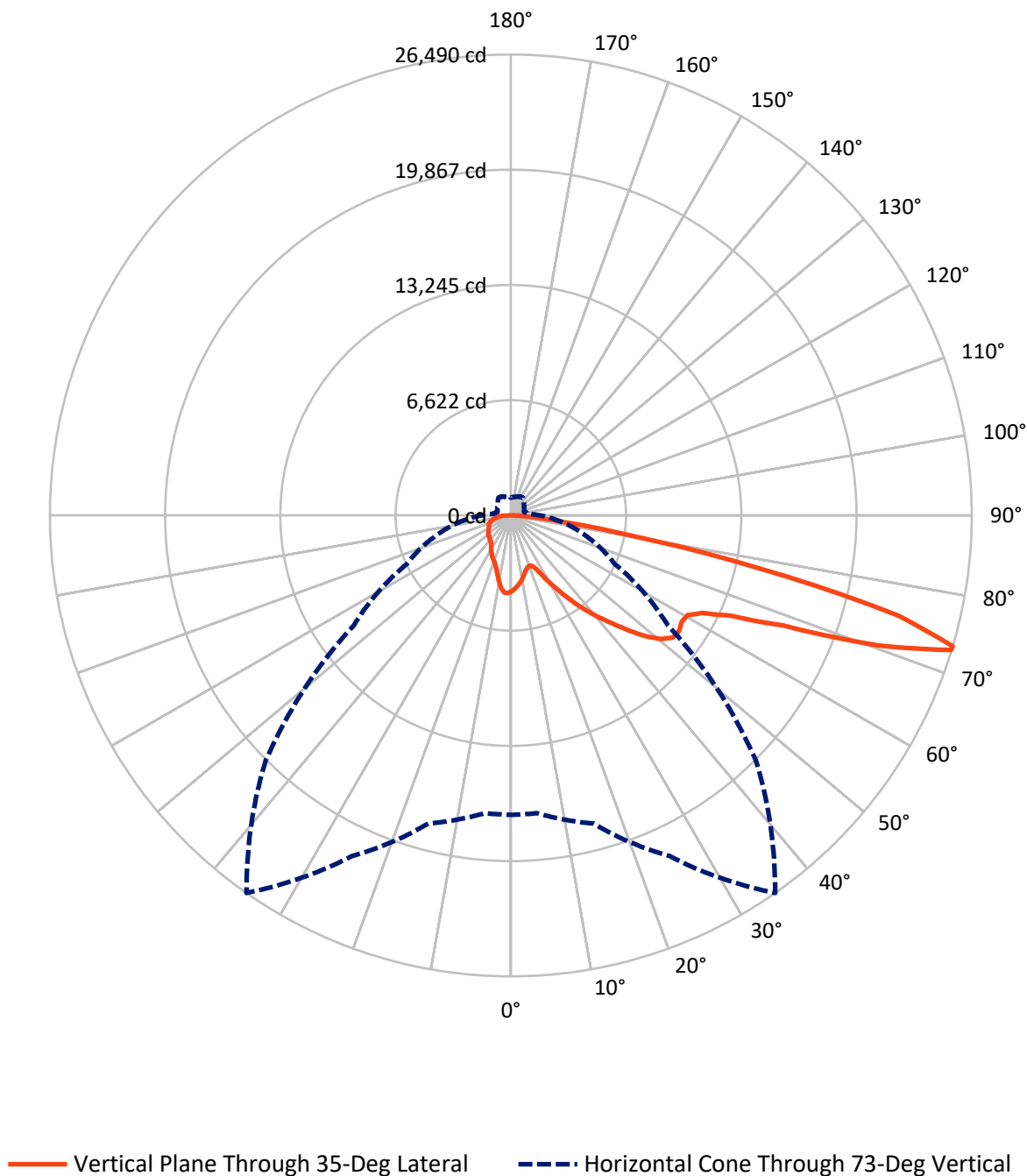


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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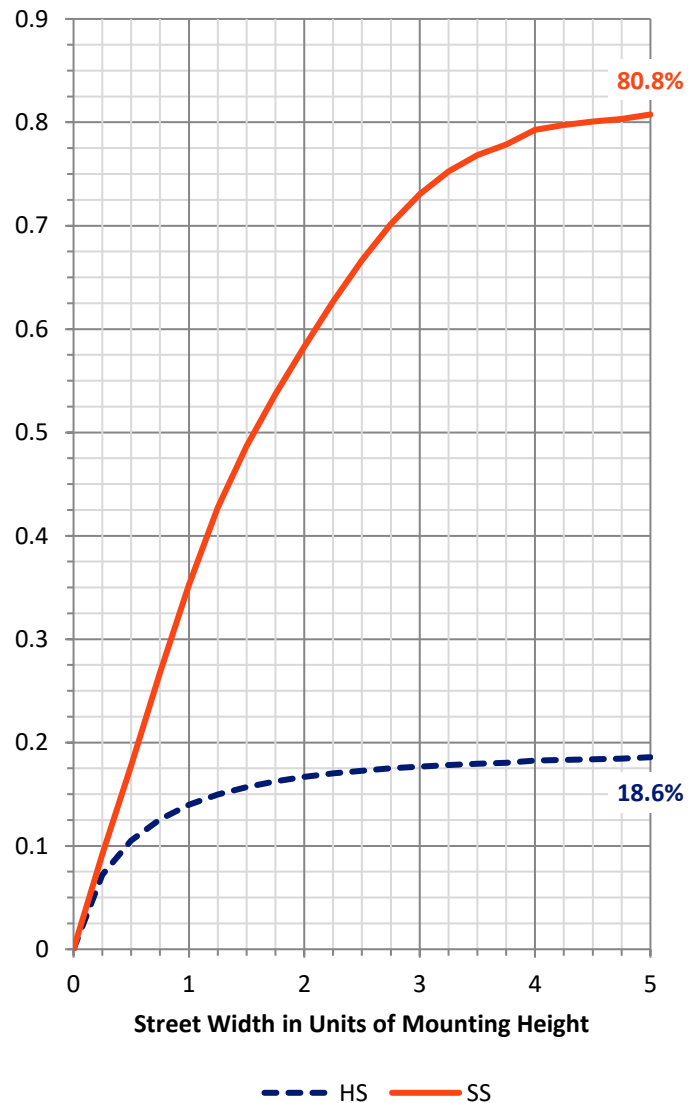
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5520.8	0.0	5520.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23425.2	0.0	23425.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	28946.1	0.0	28946.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	1.4
10°-20°	987.1	3.4
20°-30°	1595.8	5.5
30°-40°	2676.0	9.2
40°-50°	4124.9	14.3
50°-60°	5534.0	19.1
60°-70°	7372.4	25.5
70°-80°	5622.9	19.4
80°-90°	637.3	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°	28946.1	100.0
0°-180°	28946.1	100.0

Coefficient of Utilization



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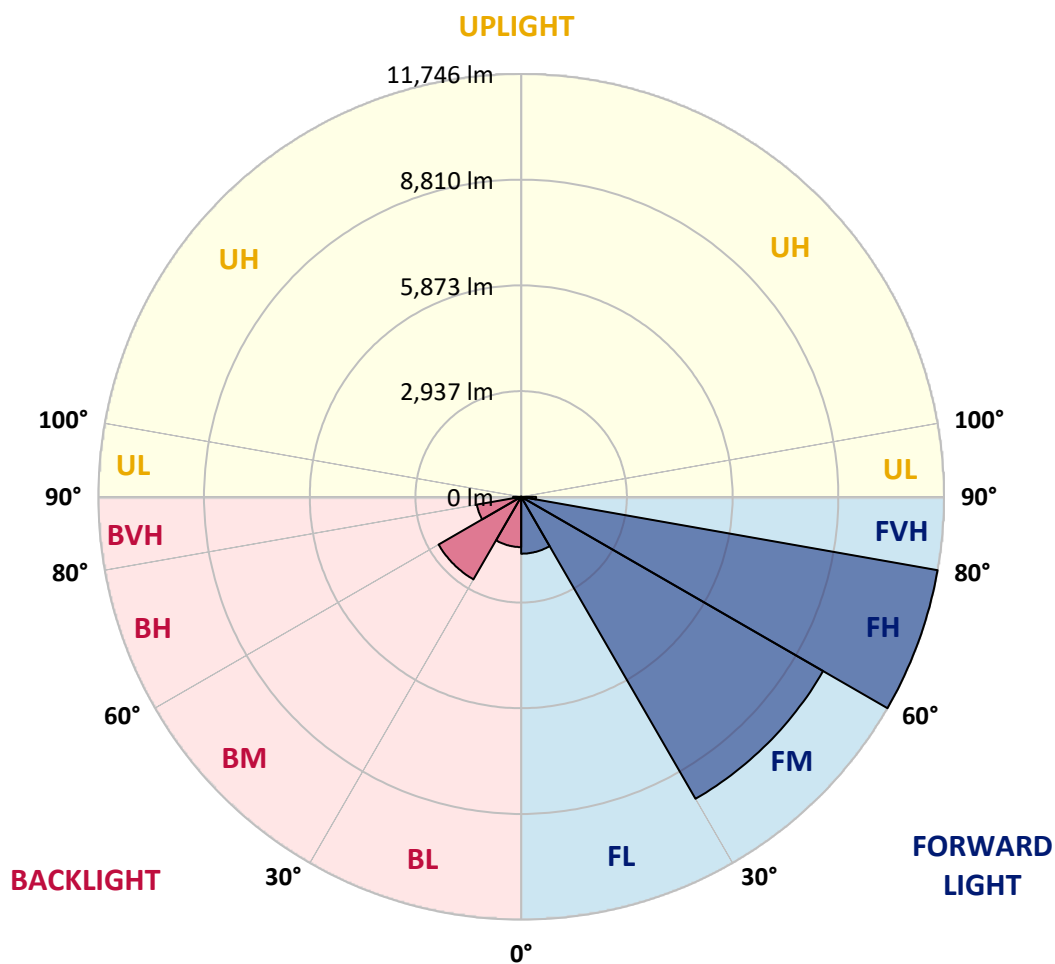
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1581.4	5.5			
FM	(30°-60°)	9685.5	33.5			
FH	(60°-80°)	11746.3	40.6			G4/12000
FVH	(80°-90°)	412.0	1.4			G3/500
BL	(0°-30°)	1397.0	4.8	B3/2500		
BM	(30°-60°)	2649.4	9.2	B3/5000		
BH	(60°-80°)	1249.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	225.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8
2.5°	4196.5	4204.9	4195.1	4207.6	4228.5	4250.7	4266.0	4288.2	4313.2	4348.0	4356.3
5°	3999.1	4011.7	4011.7	4033.9	4074.2	4110.4	4143.6	4179.8	4232.6	4292.4	4316.1
7.5°	3782.2	3789.2	3801.6	3835.1	3893.5	3945.0	3992.2	4050.6	4122.8	4202.0	4243.7
10°	3521.0	3530.7	3550.2	3597.4	3676.6	3747.5	3815.7	3896.3	3988.0	4086.8	4139.5
12.5°	3336.1	3333.3	3341.5	3376.3	3445.9	3532.1	3630.8	3733.6	3846.3	3961.6	4025.5
15°	3273.5	3258.2	3226.2	3217.9	3255.5	3341.5	3455.7	3582.1	3716.9	3856.0	3935.2
17.5°	3312.4	3286.1	3198.4	3134.5	3128.9	3194.3	3315.3	3457.0	3612.6	3782.2	3881.0
20°	3557.1	3494.5	3279.1	3130.4	3078.9	3110.8	3216.5	3366.6	3550.2	3775.4	3901.7
22.5°	4142.2	4050.6	3593.2	3316.6	3142.9	3103.9	3183.2	3343.0	3557.1	3861.6	4022.7
25°	4994.3	4863.6	4132.5	3780.9	3422.2	3215.2	3233.2	3397.2	3655.9	4061.7	4256.3
27.5°	5667.2	5582.4	4837.4	4435.6	3931.0	3515.4	3395.9	3533.5	3857.3	4389.7	4588.5
30°	6067.5	6016.1	5590.7	5177.9	4580.1	3993.5	3707.1	3789.2	4172.8	4844.2	5008.2
32.5°	6531.7	6501.2	6292.7	5913.2	5280.7	4621.8	4200.7	4171.5	4595.5	5390.6	5465.5
35°	7012.7	7003.0	6880.6	6608.2	6032.8	5450.3	4855.4	4657.9	5055.5	5957.7	5910.4
37.5°	7460.3	7443.7	7372.7	7214.3	6819.5	6339.9	5522.6	5157.0	5551.8	6499.8	6289.8
40°	8284.6	8153.9	7910.7	7791.1	7614.6	7089.2	6052.2	5622.7	6066.1	7016.8	6618.0
42.5°	9289.6	9076.9	8623.8	8459.7	8434.7	7680.0	6413.6	6074.4	6584.6	7529.8	6940.3
45°	10080.5	9880.4	9489.7	9282.5	9374.3	8215.1	6776.4	6556.7	7118.4	8067.7	7272.7
47.5°	10924.3	10610.0	10093.1	10155.5	10355.7	8721.1	7146.1	7075.2	7703.6	8669.6	7685.6
50°	10954.8	10714.3	10487.8	10861.7	11173.1	9186.7	7609.1	7618.7	8419.4	9427.2	8234.6
52.5°	10319.5	10268.1	10628.2	11216.1	11665.1	9555.0	8135.9	8180.4	9335.4	10297.3	8837.8
55°	10097.2	10038.7	10454.4	11092.4	11731.8	9859.4	8707.1	8787.7	10443.3	11214.7	9425.8
57.5°	10639.2	10509.9	10537.8	11034.1	11569.3	10193.2	9329.8	9492.6	11647.0	12016.8	9803.9
60°	12154.4	11877.8	11352.4	11339.8	11656.8	10693.5	10049.8	10248.6	12898.0	12400.5	9656.6
62.5°	14279.7	14003.1	13019.0	12378.2	12330.9	11519.2	10934.0	10986.8	13621.0	11880.6	8757.1
65°	16580.3	16332.8	15233.4	14328.4	13892.0	12886.9	11961.1	11316.2	13384.6	10450.2	7183.7
67.5°	19372.9	19107.4	18162.0	17326.7	16906.9	15094.2	12682.6	11000.7	11884.7	8095.6	5163.9
70°	21325.8	21054.8	20682.2	21359.2	22386.4	18278.8	12775.8	9717.7	8876.8	5380.8	3108.1
72.5°	18777.9	18651.4	19331.1	22182.1	26460.6	20211.0	11548.3	7075.2	5155.6	2856.5	1798.7
73°	17204.4	17176.5	18335.9	21605.3	26489.8	19913.6	11010.4	6576.2	4421.7	2527.0	1644.4
75°	7768.9	7992.7	10533.6	16502.4	23014.7	16409.3	7749.4	3772.5	2497.8	1745.9	1241.3
77.5°	1866.8	1944.6	3295.8	7836.9	14534.1	9778.8	3511.3	1865.4	1597.2	1233.0	906.3
80°	795.1	821.5	1269.0	2895.5	6843.1	3937.9	1618.0	1249.6	1105.0	860.4	635.3
82.5°	442.1	469.9	720.0	1313.7	2762.0	1342.8	986.9	870.1	727.0	518.4	412.9
85°	250.2	265.5	421.2	733.9	1170.3	539.3	590.8	578.2	410.0	266.9	202.9
87.5°	118.1	127.9	202.9	340.6	458.7	211.3	300.3	330.8	257.2	162.7	105.7
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°	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8
2.5°	4366.1	4391.1	4420.3	4435.6	4449.5	4466.2	4482.8	4482.8	4485.6	4487.1
5°	4335.5	4387.0	4432.7	4452.4	4456.4	4456.4	4452.4	4430.0	4410.6	4418.9
7.5°	4271.6	4346.7	4385.5	4378.6	4325.8	4264.6	4213.1	4150.6	4118.6	4113.1
10°	4179.8	4266.0	4272.9	4203.4	4072.7	3942.1	3833.7	3728.0	3678.0	3665.5
12.5°	4078.3	4157.6	4113.1	3969.9	3760.0	3569.6	3432.0	3325.0	3277.7	3265.2
15°	3996.3	4050.6	3937.9	3712.7	3448.7	3247.0	3133.1	3053.9	3020.6	3010.7
17.5°	3953.2	3964.4	3758.6	3454.2	3173.4	3005.2	2934.3	2896.8	2884.3	2877.4
20°	3974.1	3896.3	3587.6	3213.8	2948.3	2830.2	2813.4	2803.7	2800.9	2796.7
22.5°	4078.3	3875.4	3430.6	2985.7	2750.8	2699.5	2713.4	2712.0	2709.2	2706.4
25°	4264.6	3893.5	3277.7	2768.9	2585.4	2574.3	2599.4	2599.4	2588.3	2588.3
27.5°	4510.7	3931.0	3106.7	2563.2	2435.3	2436.7	2456.1	2450.5	2438.1	2429.8
30°	4810.9	3954.6	2906.6	2378.3	2295.0	2289.4	2295.0	2271.3	2233.8	2231.0
32.5°	5118.0	3925.4	2674.4	2214.3	2146.2	2133.8	2129.6	2096.1	2053.1	2040.5
35°	5396.1	3818.4	2438.1	2083.7	2004.5	1976.6	1996.0	1984.9	1946.0	1936.3
37.5°	5599.0	3619.6	2225.4	1968.3	1903.0	1895.9	1908.5	1912.7	1866.8	1857.1
40°	5735.2	3350.0	2043.3	1870.9	1883.5	1857.1	1815.4	1786.2	1772.3	1768.2
42.5°	5845.1	3069.2	1890.4	1825.0	1887.7	1811.2	1720.9	1673.7	1698.7	1709.7
45°	5971.6	2795.4	1762.6	1768.2	1866.8	1758.4	1655.5	1609.6	1619.3	1622.2
47.5°	6145.3	2461.7	1624.9	1676.4	1797.4	1722.3	1615.2	1549.9	1504.1	1483.2
50°	6385.7	2066.9	1481.8	1573.6	1729.2	1695.8	1552.7	1483.2	1398.4	1379.0
52.5°	6552.6	1698.7	1363.7	1487.3	1668.1	1643.0	1502.7	1412.2	1323.3	1306.6
55°	6462.2	1410.9	1260.8	1391.4	1587.4	1577.7	1460.9	1339.9	1270.4	1256.6
57.5°	6010.5	1228.8	1181.5	1301.1	1488.7	1522.1	1405.3	1278.9	1228.8	1219.0
60°	5148.7	1114.8	1131.5	1239.9	1408.2	1466.5	1349.7	1245.4	1212.1	1205.1
62.5°	3994.9	1038.4	1093.9	1195.4	1345.5	1427.6	1319.1	1241.3	1228.8	1220.4
65°	2862.0	977.3	1053.6	1150.9	1288.6	1391.4	1308.1	1235.7	1238.6	1231.6
67.5°	1944.6	923.0	1004.9	1100.9	1233.0	1359.4	1292.7	1216.3	1251.0	1242.8
70°	1360.9	870.1	948.1	1037.0	1163.5	1314.9	1264.9	1187.1	1184.3	1150.9
72.5°	1062.0	800.7	870.1	948.1	1074.4	1252.4	1209.3	1121.8	1075.8	1041.1
73°	1013.4	783.9	850.7	928.4	1055.0	1237.2	1193.9	1103.7	1052.2	1020.3
75°	838.2	711.8	772.9	842.4	971.7	1164.8	1119.0	1021.7	956.3	936.9
77.5°	658.9	608.8	667.2	729.8	856.3	1059.2	1007.8	914.6	878.5	861.8
80°	488.0	504.6	556.0	611.7	742.3	946.6	900.8	807.7	968.8	928.4
82.5°	343.3	382.3	429.5	479.5	622.8	836.8	781.2	685.3	708.9	589.4
85°	202.9	250.2	294.7	337.8	448.9	693.6	644.9	546.3	447.6	426.7
87.5°	118.1	139.0	151.6	196.0	308.5	522.7	454.5	404.5	232.1	157.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)