

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: P193186

Luminaire Tested: **GAN-AF-08-LED-U-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193186
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: GAN-AF-08-LED-U-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 37284.7 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

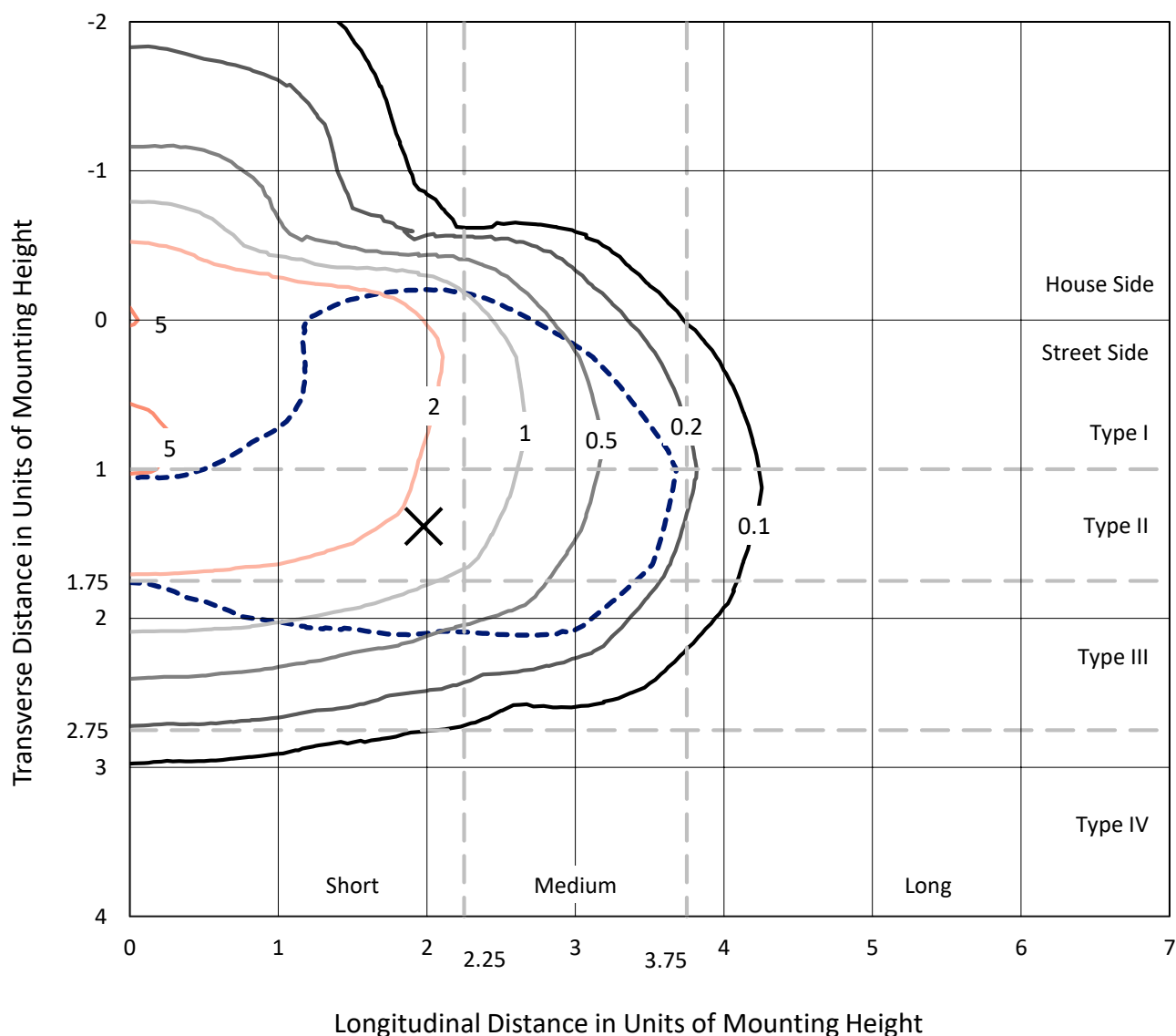


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

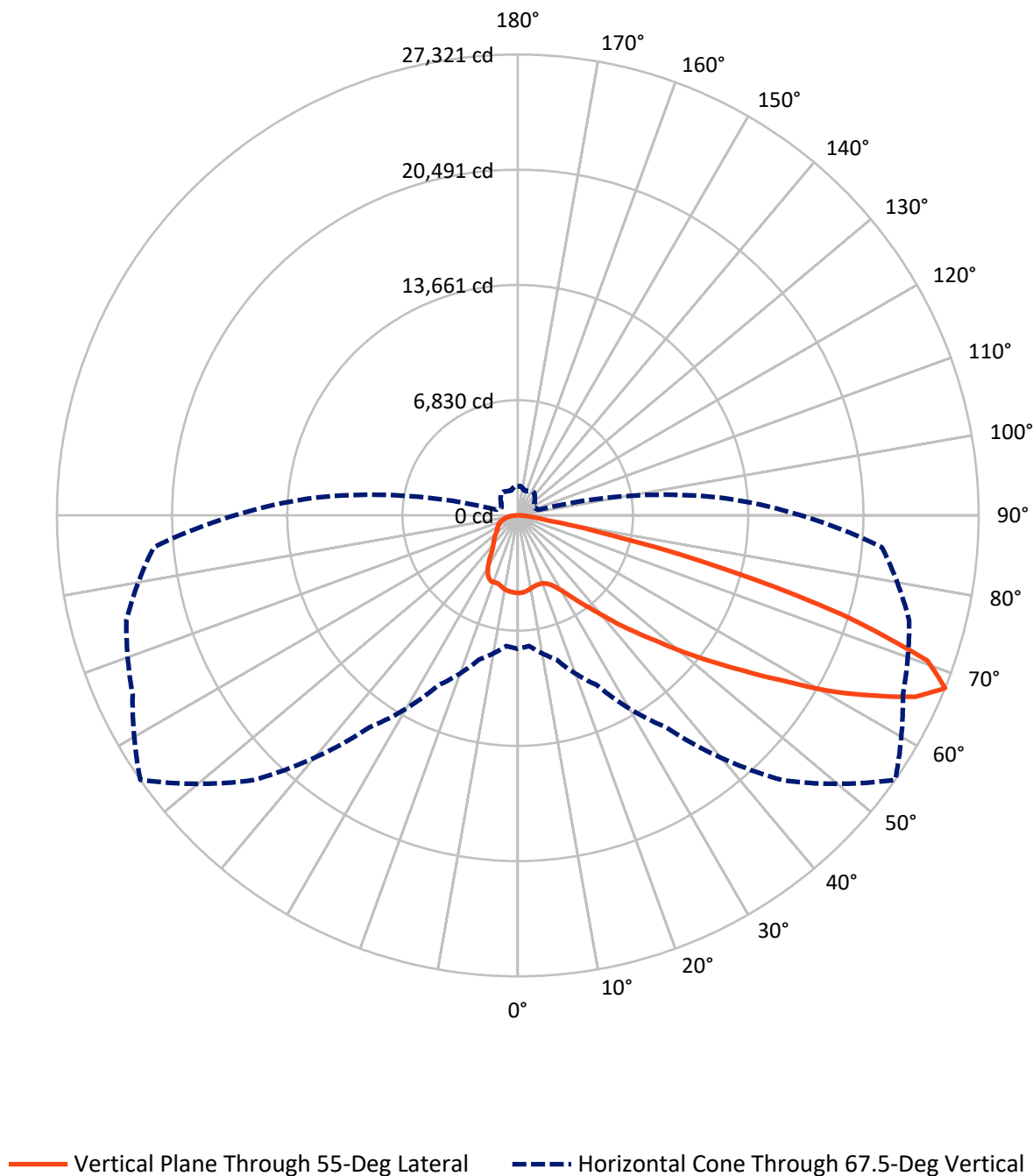


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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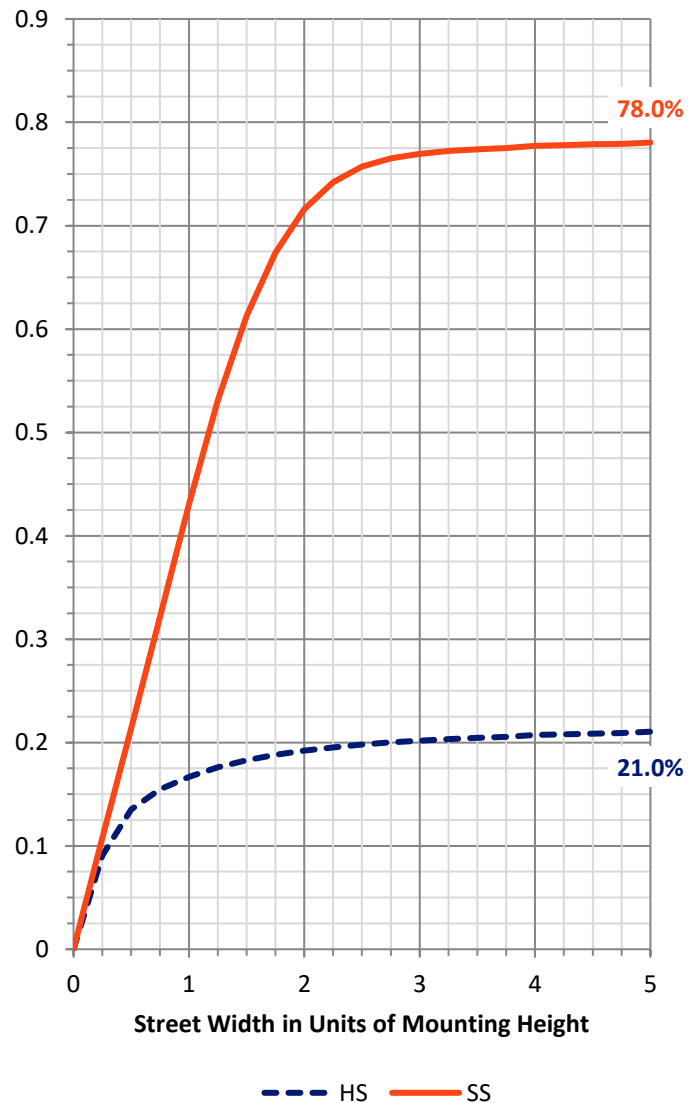
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8054.3	0.0	8054.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29230.4	0.0	29230.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	37284.7	0.0	37284.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.1	1.2
10°-20°	1215.4	3.3
20°-30°	2035.9	5.5
30°-40°	3347.9	9.0
40°-50°	5635.6	15.1
50°-60°	8870.0	23.8
60°-70°	10585.4	28.4
70°-80°	4545.6	12.2
80°-90°	619.7	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°	37284.7	100.0
0°-180°	37284.7	100.0

Coefficient of Utilization



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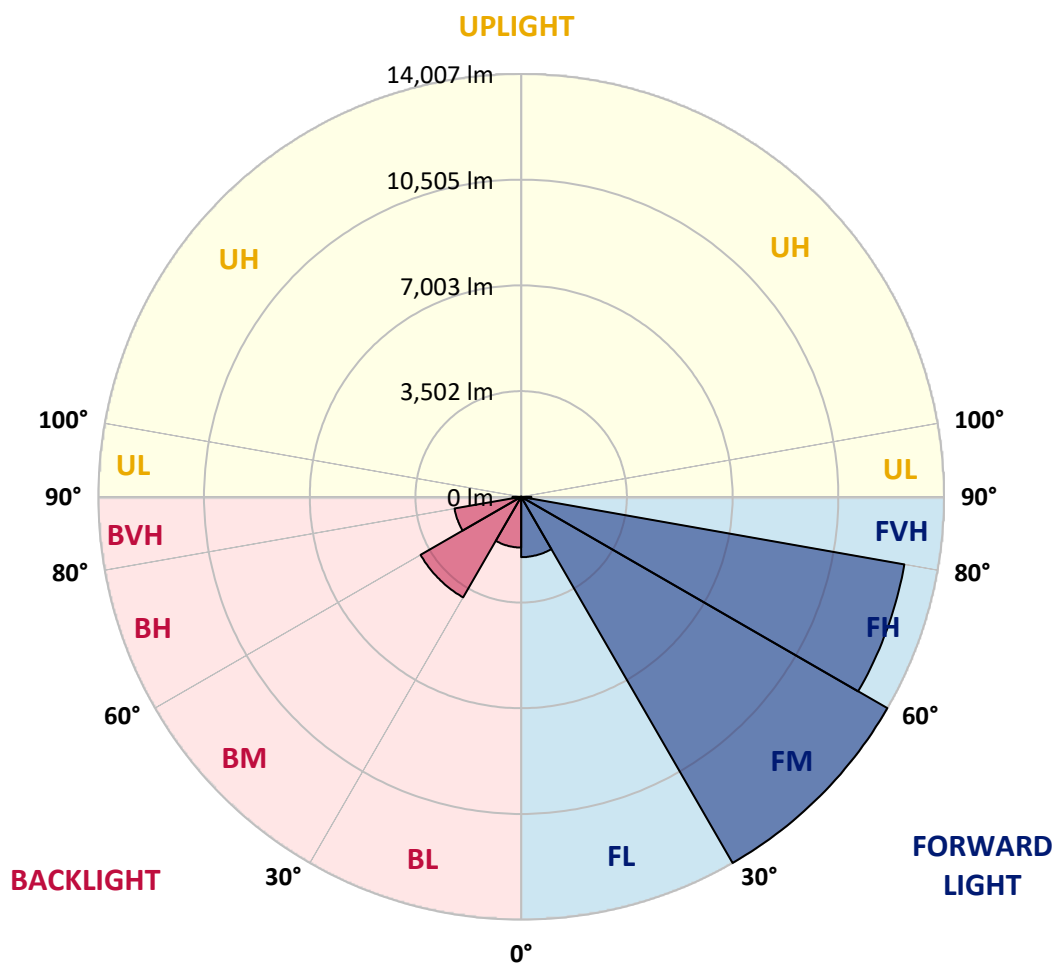
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.5	5.4			
FM	(30°-60°)	14006.9	37.6			
FH	(60°-80°)	12889.5	34.6			G5
FVH	(80°-90°)	335.5	0.9			G3/500
BL	(0°-30°)	1681.9	4.5	B3/2500		
BM	(30°-60°)	3846.6	10.3	B3/5000		
BH	(60°-80°)	2241.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	284.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6
2.5°	4558.0	4559.8	4563.4	4577.9	4590.4	4586.8	4588.6	4581.5	4579.6	4568.7	4579.6
5°	4500.4	4505.8	4507.6	4531.0	4545.4	4549.0	4543.5	4534.6	4523.8	4513.0	4518.4
7.5°	4368.9	4383.3	4385.1	4417.6	4441.0	4471.6	4473.4	4475.2	4469.8	4462.5	4473.4
10°	4286.0	4289.6	4287.9	4311.3	4329.3	4363.5	4383.3	4417.6	4431.9	4435.5	4442.7
12.5°	4280.7	4277.1	4271.7	4271.7	4266.2	4280.7	4316.8	4365.4	4399.6	4410.4	4419.3
15°	4338.2	4336.5	4318.5	4291.4	4257.3	4246.5	4277.1	4331.0	4376.2	4399.6	4408.5
17.5°	4467.9	4457.1	4428.3	4367.1	4293.3	4264.5	4268.1	4313.1	4365.4	4395.9	4404.9
20°	4705.7	4705.7	4644.4	4529.3	4397.6	4329.3	4296.8	4323.9	4374.3	4415.7	4428.3
22.5°	5116.3	5119.9	5017.1	4828.1	4606.6	4460.7	4379.6	4374.3	4433.7	4480.5	4494.9
25°	5698.0	5683.5	5539.5	5269.3	4932.6	4691.3	4550.7	4518.4	4568.7	4621.0	4639.0
27.5°	6375.1	6322.9	6151.8	5825.8	5390.0	5037.1	4820.9	4768.7	4817.3	4876.8	4894.7
30°	7045.0	6991.0	6787.5	6430.9	5946.4	5499.9	5190.2	5105.4	5173.9	5258.5	5269.3
32.5°	7714.9	7714.9	7488.0	7072.1	6544.3	6052.8	5681.7	5580.9	5694.4	5797.0	5820.3
35°	8516.3	8519.9	8300.2	7799.6	7232.3	6711.8	6303.0	6229.2	6400.3	6472.3	6528.1
37.5°	9501.4	9521.2	9238.4	8633.3	8012.1	7464.6	6978.4	6877.6	7048.7	7244.9	7424.9
40°	10565.7	10590.9	10279.3	9533.8	8912.5	8339.9	7814.0	7632.1	7916.6	8291.1	8523.6
42.5°	11581.4	11711.1	11410.3	10643.2	9975.1	9382.5	8849.5	8584.7	8941.3	9506.7	9708.4
45°	13049.1	13142.7	12618.7	11923.6	11295.0	10632.3	9926.4	9647.3	10146.1	10859.3	10900.7
47.5°	14026.9	13956.7	13690.1	13257.9	12860.1	12240.6	11178.0	10871.9	11534.5	12373.7	12141.4
50°	14547.5	14569.0	14533.0	14558.2	14572.6	14183.6	12712.4	12292.8	13083.2	14097.1	13562.4
52.5°	15033.6	14889.6	15008.4	15599.2	16312.3	16168.1	14381.7	13944.1	14743.7	16009.8	15064.2
55°	15022.8	14803.1	15190.4	16232.9	17780.0	17945.7	16256.4	15752.2	16499.6	18060.9	16656.2
57.5°	14491.6	14502.4	15098.4	16463.5	18802.9	19616.9	18431.9	17675.5	18361.7	20139.1	18109.5
60°	13760.4	13859.4	14718.6	16425.7	19622.2	20987.3	21100.8	19748.3	20185.8	22028.2	19312.4
62.5°	12580.8	12685.3	13870.3	16033.1	19498.0	22307.4	23513.9	22100.2	22093.0	23173.6	19665.5
65°	10720.5	10689.9	11934.4	14565.5	18455.3	23283.3	25910.9	24133.4	23530.1	23191.6	18955.9
67.5°	7905.8	7769.0	8836.9	11093.3	15339.8	22190.3	27321.0	25192.4	24020.0	21666.2	16787.6
70°	4102.3	3965.4	4830.0	6477.8	10088.5	17318.9	25759.6	24644.8	22937.7	18161.7	13151.7
72.5°	1754.0	1730.6	2081.8	2841.8	4880.4	9989.3	20198.5	21331.2	19681.6	13531.8	9042.2
75°	1179.6	1172.4	1303.8	1548.7	2195.2	4053.7	12640.3	15141.7	14399.8	8390.2	5085.7
77.5°	925.7	916.6	994.0	1113.0	1422.7	1599.1	5609.7	8129.1	7524.0	3652.2	2225.8
80°	724.0	716.7	765.4	830.2	1022.8	1008.5	1845.9	3234.4	2503.2	1399.3	1082.3
82.5°	570.9	570.9	610.5	612.3	725.7	687.9	963.4	1424.5	1249.8	815.8	662.7
85°	522.3	522.3	563.7	457.5	473.6	434.0	597.8	844.6	792.3	335.0	288.1
87.5°	262.9	255.7	473.6	405.3	257.6	230.5	291.7	408.8	439.4	185.5	144.1
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°	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6	4597.6
2.5°	4576.0	4574.2	4577.9	4579.6	4594.1	4613.8	4622.9	4635.5	4642.7	4639.0
5°	4522.0	4525.6	4539.9	4550.7	4576.0	4608.4	4626.5	4640.8	4653.5	4648.0
7.5°	4477.0	4485.9	4507.6	4516.6	4531.0	4539.9	4538.2	4543.5	4554.4	4541.8
10°	4451.8	4462.5	4478.7	4466.2	4431.9	4383.3	4338.2	4314.8	4322.1	4313.1
12.5°	4426.5	4441.0	4428.3	4368.9	4273.4	4210.5	4176.2	4179.8	4196.0	4199.6
15°	4412.1	4417.6	4363.5	4251.9	4154.6	4145.7	4163.7	4160.0	4161.8	4161.8
17.5°	4412.1	4397.6	4296.8	4185.1	4143.7	4127.6	4071.8	4001.5	3970.9	3960.1
20°	4435.5	4397.6	4275.2	4201.4	4111.4	3972.6	3825.0	3695.3	3637.8	3621.5
22.5°	4505.8	4441.0	4336.5	4208.6	3952.9	3720.6	3486.5	3331.7	3227.2	3209.2
25°	4648.0	4576.0	4457.1	4113.2	3700.8	3369.4	3102.9	2930.0	2825.6	2811.1
27.5°	4896.6	4849.7	4522.0	3902.5	3365.8	3011.0	2764.4	2631.1	2553.6	2548.3
30°	5271.1	5247.7	4489.6	3591.0	2953.4	2663.5	2544.6	2467.2	2409.6	2407.7
32.5°	5869.1	5680.0	4383.3	3210.9	2577.0	2416.9	2368.2	2321.3	2276.3	2276.3
35°	6638.0	6029.3	4181.6	2803.9	2348.3	2279.9	2218.6	2144.9	2085.4	2081.8
37.5°	7542.0	6245.4	3819.6	2476.2	2240.3	2188.0	2098.0	1988.2	1883.7	1865.7
40°	8455.0	6310.3	3310.0	2274.4	2171.8	2096.2	1986.4	1856.7	1755.8	1750.5
42.5°	9292.5	6185.9	2769.7	2135.8	2103.5	2002.6	1887.4	1772.0	1692.9	1691.0
45°	9994.8	5863.6	2316.0	2004.4	2031.3	1917.9	1815.3	1721.6	1660.4	1647.7
47.5°	10655.7	5408.0	1997.2	1865.7	1959.3	1871.1	1784.6	1696.5	1637.0	1628.0
50°	11422.9	4916.3	1773.9	1730.6	1896.3	1854.9	1809.9	1718.0	1619.0	1608.2
52.5°	12352.2	4491.3	1599.1	1611.8	1847.7	1876.5	1874.7	1779.3	1606.3	1592.0
55°	13389.4	4019.5	1467.7	1514.6	1827.9	1916.1	1891.0	1836.8	1617.1	1595.6
57.5°	14410.5	3468.4	1375.9	1440.7	1799.1	1912.5	1813.4	1736.0	1642.3	1611.8
60°	15175.9	2728.3	1305.6	1375.9	1736.0	1853.1	1728.8	1626.3	1637.0	1613.5
62.5°	15226.4	2108.8	1221.0	1320.1	1640.6	1793.7	1673.0	1577.6	1660.4	1638.8
65°	14331.3	1593.8	1139.9	1253.4	1538.0	1755.8	1619.0	1550.5	1709.1	1685.7
67.5°	12065.8	1282.2	1071.5	1184.9	1435.3	1676.6	1570.4	1525.4	1752.2	1710.8
70°	8710.8	1093.1	1004.8	1102.1	1343.5	1586.6	1527.1	1480.4	1635.2	1570.4
72.5°	5363.0	947.3	929.2	992.3	1273.2	1492.9	1462.3	1395.7	1473.2	1420.9
75°	2677.8	821.2	844.6	884.2	1174.2	1386.7	1354.3	1287.6	1298.4	1287.6
77.5°	1282.2	702.3	745.5	776.2	1046.2	1266.0	1231.8	1163.4	1150.7	1152.5
80°	812.3	587.0	628.5	650.1	934.6	1125.6	1091.3	1022.8	1167.0	1082.3
82.5°	507.8	477.3	488.1	527.6	814.0	979.6	934.6	873.4	1051.7	832.0
85°	280.9	333.1	347.6	381.8	626.7	819.5	774.3	697.0	624.9	614.1
87.5°	167.5	198.1	203.5	228.7	421.4	592.5	524.0	497.0	412.4	410.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)