

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: P193196

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193196
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46147.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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



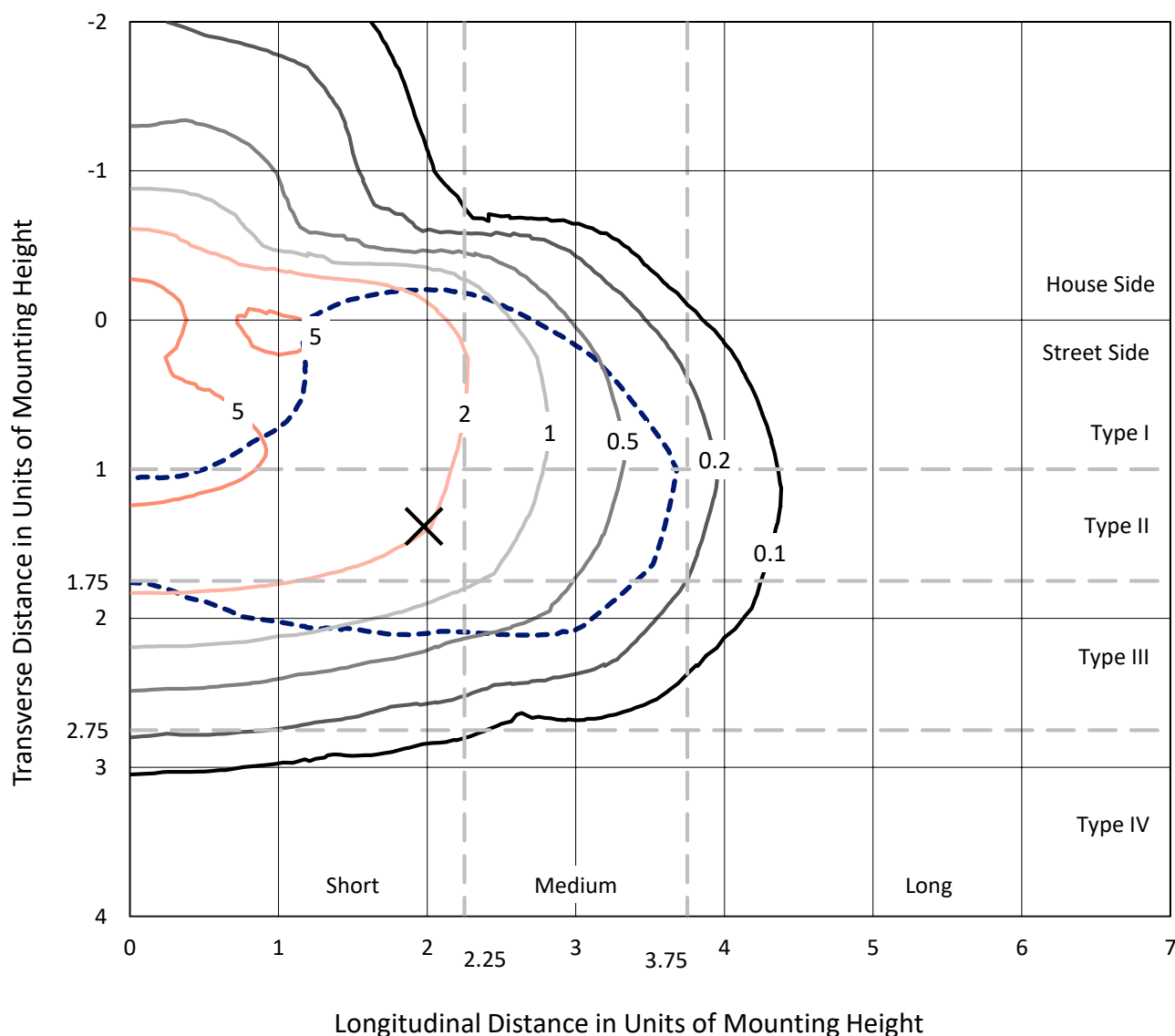
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

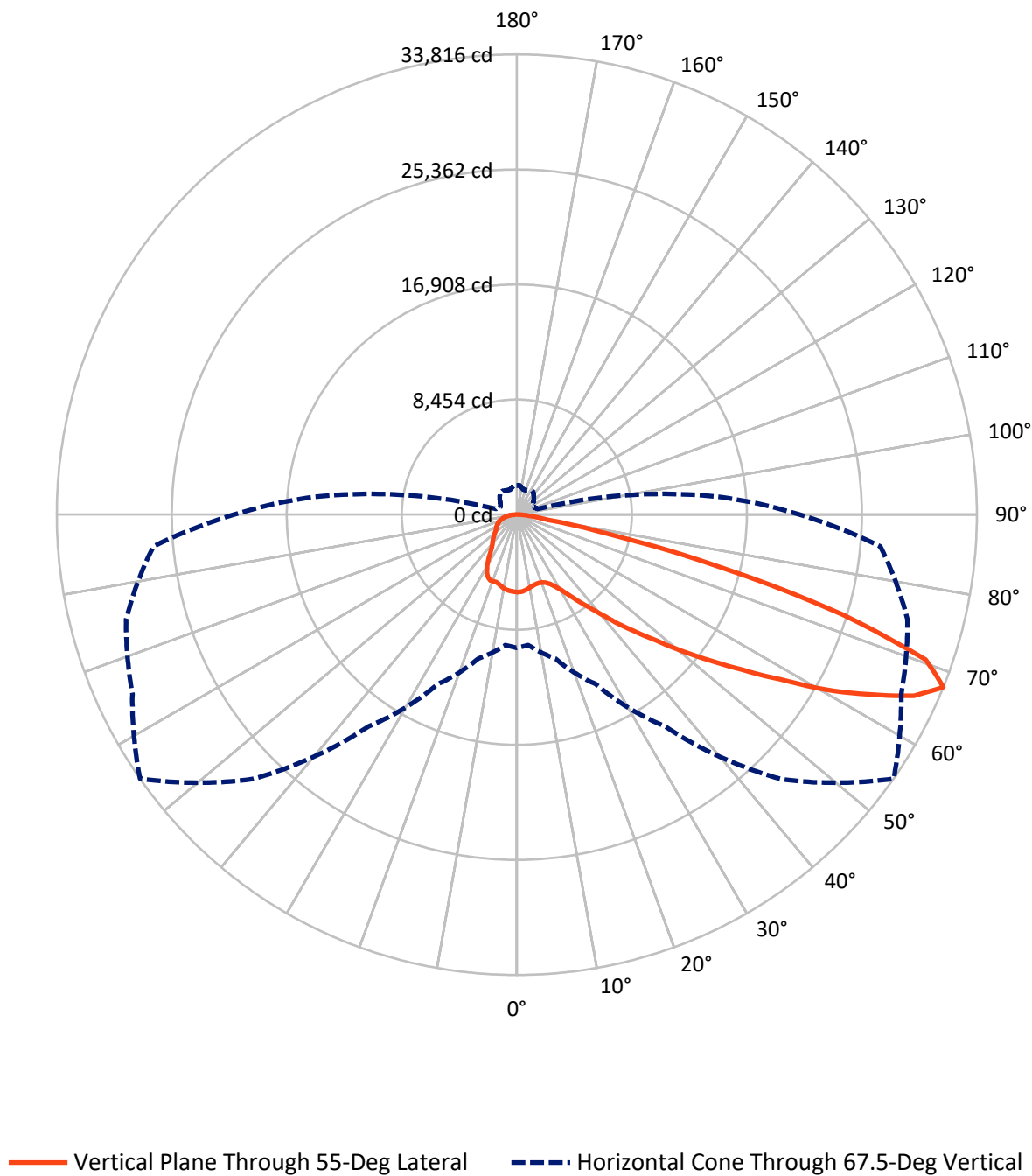


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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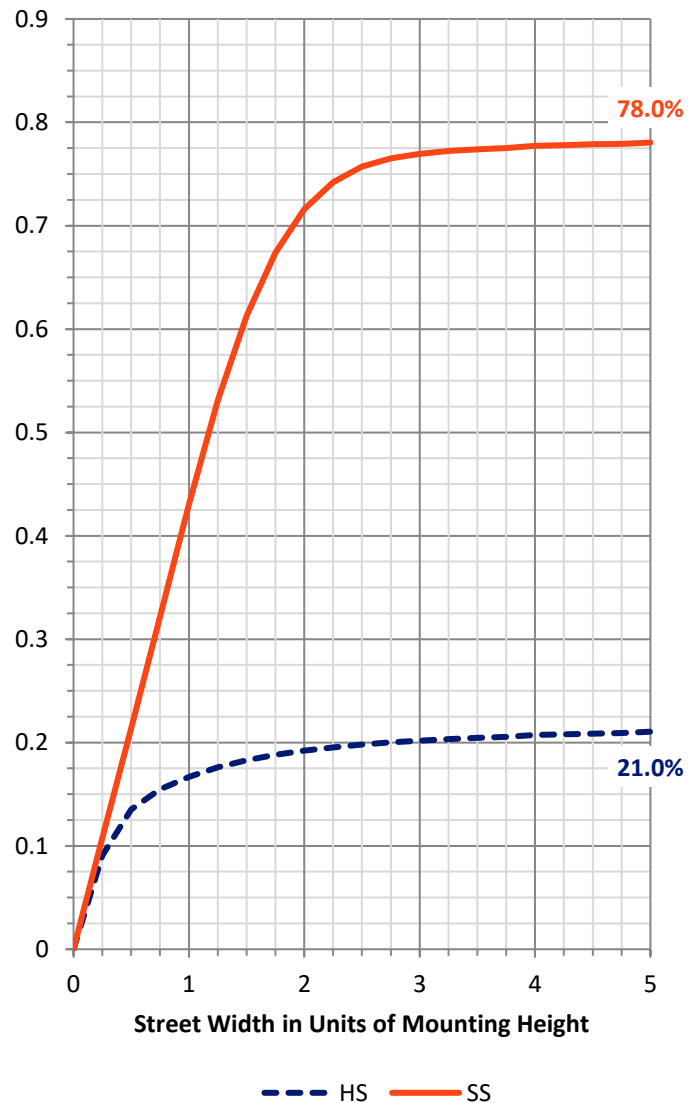
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9968.9	0.0	9968.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	36178.9	0.0	36178.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	46147.8	0.0	46147.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.2	1.2
10°-20°	1504.3	3.3
20°-30°	2519.9	5.5
30°-40°	4143.8	9.0
40°-50°	6975.3	15.1
50°-60°	10978.5	23.8
60°-70°	13101.7	28.4
70°-80°	5626.1	12.2
80°-90°	767.1	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°	46147.8	100.0
0°-180°	46147.8	100.0

Coefficient of Utilization



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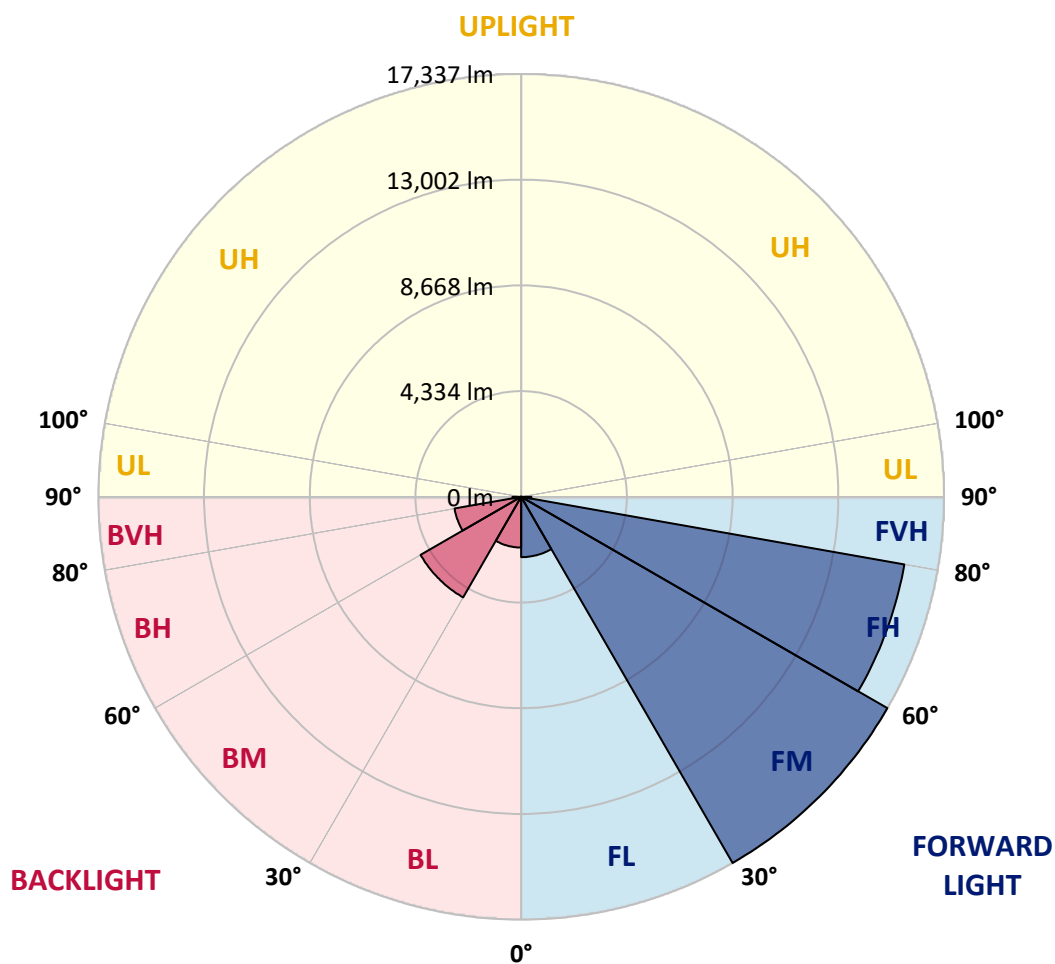
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2473.6	5.4			
FM	(30°-60°)	17336.5	37.6			
FH	(60°-80°)	15953.5	34.6			G5
FVH	(80°-90°)	415.2	0.9			G3/500
BL	(0°-30°)	2081.7	4.5	B3/2500		
BM	(30°-60°)	4761.1	10.3	B3/5000		
BH	(60°-80°)	2774.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	351.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6
2.5°	5641.5	5643.7	5648.1	5665.9	5681.6	5677.1	5679.4	5670.4	5668.3	5654.8	5668.3
5°	5570.1	5576.8	5579.1	5608.1	5625.9	5630.3	5623.7	5612.5	5599.1	5585.8	5592.4
7.5°	5407.5	5425.3	5427.6	5467.7	5496.7	5534.5	5536.7	5539.0	5532.3	5523.4	5536.7
10°	5305.0	5309.4	5307.2	5336.1	5358.4	5400.8	5425.3	5467.7	5485.5	5489.9	5498.8
12.5°	5298.2	5293.8	5287.0	5287.0	5280.4	5298.2	5342.8	5403.0	5445.4	5458.7	5469.8
15°	5369.5	5367.4	5345.1	5311.6	5269.2	5255.9	5293.8	5360.7	5416.4	5445.4	5456.5
17.5°	5530.0	5516.7	5481.0	5405.3	5313.9	5278.2	5282.6	5338.4	5403.0	5440.9	5452.0
20°	5824.3	5824.3	5748.4	5605.9	5443.1	5358.4	5318.3	5351.7	5414.2	5465.3	5481.0
22.5°	6332.4	6336.9	6209.9	5975.8	5701.7	5521.1	5420.8	5414.2	5487.6	5545.7	5563.5
25°	7052.4	7034.5	6856.2	6521.9	6105.1	5806.5	5632.6	5592.4	5654.8	5719.5	5741.8
27.5°	7890.4	7825.9	7614.2	7210.7	6671.3	6234.5	5966.9	5902.3	5962.5	6036.0	6058.3
30°	8719.7	8652.8	8401.0	7959.6	7360.0	6807.3	6423.9	6319.1	6403.8	6508.6	6521.9
32.5°	9548.8	9548.8	9268.0	8753.1	8100.1	7491.6	7032.4	6907.6	7048.0	7175.0	7204.0
35°	10540.8	10545.1	10273.3	9653.6	8951.5	8307.3	7801.3	7710.0	7921.8	8010.9	8079.9
37.5°	11760.0	11784.4	11434.5	10685.7	9916.6	9239.1	8637.2	8512.4	8724.2	8967.1	9190.1
40°	13077.4	13108.5	12722.9	11800.1	11031.2	10322.3	9671.4	9446.3	9798.5	10262.1	10549.6
42.5°	14334.5	14494.9	14122.7	13173.2	12346.2	11612.8	10953.1	10625.5	11066.8	11766.6	12016.4
45°	16151.0	16266.9	15618.3	14757.9	13980.0	13159.7	12285.9	11940.5	12557.9	13440.6	13491.9
47.5°	17361.4	17274.4	16944.6	16409.6	15917.0	15150.2	13835.2	13456.3	14276.5	15315.2	15027.6
50°	18005.5	18032.2	17987.7	18018.9	18036.7	17555.2	15734.2	15214.9	16193.5	17448.2	16786.3
52.5°	18607.4	18429.0	18576.1	19307.2	20189.9	20011.6	17800.5	17258.8	18248.5	19815.5	18645.2
55°	18594.0	18322.0	18801.3	20091.8	22006.6	22211.6	20120.8	19496.7	20421.7	22354.2	20615.7
57.5°	17936.4	17949.7	18687.6	20377.2	23272.5	24280.0	22813.5	21877.2	22726.5	24926.4	22414.4
60°	17031.5	17154.0	18217.3	20330.3	24286.7	25976.3	26116.7	24442.7	24984.5	27264.7	23903.3
62.5°	15571.5	15700.8	17167.5	19844.4	24132.9	27610.2	29103.5	27353.8	27344.9	28682.2	24340.2
65°	13269.0	13231.1	14771.3	18027.8	22842.4	28818.2	32070.3	29870.3	29123.6	28704.5	23462.0
67.5°	9785.1	9615.7	10937.5	13730.4	18986.3	27465.3	33815.5	31181.0	29729.9	26816.6	20778.4
70°	5077.6	4908.2	5978.1	8017.6	12486.5	21435.9	31883.1	30503.3	28390.3	22479.0	16278.1
72.5°	2171.0	2142.0	2576.7	3517.3	6040.5	12364.0	25000.0	26402.1	24360.3	16748.4	11191.7
75°	1459.9	1451.1	1613.8	1917.0	2717.1	5017.4	15645.1	18741.1	17822.8	10384.8	6294.5
77.5°	1145.7	1134.5	1230.4	1377.5	1760.9	1979.3	6943.2	10061.4	9312.6	4520.3	2755.0
80°	896.0	887.0	947.3	1027.6	1266.1	1248.2	2284.7	4003.3	3098.3	1731.9	1339.6
82.5°	706.6	706.6	755.6	757.8	898.2	851.4	1192.4	1763.1	1546.9	1009.7	820.2
85°	646.4	646.4	697.6	566.2	586.1	537.2	740.0	1045.4	980.7	414.6	356.6
87.5°	325.4	316.6	586.1	501.5	318.7	285.2	361.1	506.0	543.9	229.6	178.3
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°	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6	5690.6
2.5°	5663.8	5661.6	5665.9	5668.3	5686.1	5710.6	5721.7	5737.3	5746.3	5741.8
5°	5597.0	5601.4	5619.2	5632.6	5663.8	5703.9	5726.2	5744.0	5759.6	5752.9
7.5°	5541.2	5552.3	5579.1	5590.2	5608.1	5619.2	5617.0	5623.7	5637.0	5621.4
10°	5510.0	5523.4	5543.4	5527.9	5485.5	5425.3	5369.5	5340.6	5349.6	5338.4
12.5°	5478.8	5496.7	5481.0	5407.5	5289.3	5211.3	5168.9	5173.4	5193.4	5197.9
15°	5461.0	5467.7	5400.8	5262.6	5142.2	5131.1	5153.3	5148.9	5151.1	5151.1
17.5°	5461.0	5443.1	5318.3	5180.1	5128.8	5108.8	5039.7	4952.7	4914.8	4901.5
20°	5489.9	5443.1	5291.5	5200.2	5088.8	4917.1	4734.3	4573.8	4502.5	4482.5
22.5°	5576.8	5496.7	5367.4	5209.1	4892.5	4605.1	4315.3	4123.6	3994.3	3972.0
25°	5752.9	5663.8	5516.7	5090.9	4580.4	4170.4	3840.5	3626.6	3497.3	3479.4
27.5°	6060.5	6002.6	5597.0	4830.2	4165.9	3726.9	3421.5	3256.5	3160.7	3154.0
30°	6524.2	6495.1	5556.8	4444.5	3655.5	3296.7	3149.5	3053.7	2982.3	2980.1
32.5°	7264.2	7030.2	5425.3	3974.2	3189.6	2991.3	2931.1	2873.1	2817.4	2817.4
35°	8216.0	7462.5	5175.6	3470.5	2906.6	2821.8	2746.1	2654.7	2581.1	2576.7
37.5°	9334.9	7730.0	4727.6	3064.8	2772.8	2708.2	2596.8	2460.7	2331.5	2309.2
40°	10465.0	7810.3	4096.7	2815.2	2688.1	2594.5	2458.6	2298.0	2173.2	2166.5
42.5°	11501.4	7656.5	3428.1	2643.5	2603.4	2478.6	2336.0	2193.3	2095.3	2093.0
45°	12370.8	7257.4	2866.4	2480.8	2514.3	2373.8	2246.8	2130.9	2055.0	2039.6
47.5°	13188.8	6693.6	2471.9	2309.2	2425.1	2315.9	2208.9	2099.6	2026.1	2015.0
50°	14138.2	6085.0	2195.6	2142.0	2347.1	2295.9	2240.2	2126.4	2003.9	1990.4
52.5°	15288.4	5559.0	1979.3	1995.0	2286.9	2322.6	2320.3	2202.2	1988.2	1970.4
55°	16572.3	4975.0	1816.7	1874.6	2262.4	2371.6	2340.5	2273.5	2001.6	1974.9
57.5°	17836.1	4293.1	1703.0	1783.2	2226.7	2367.1	2244.5	2148.7	2032.8	1995.0
60°	18783.5	3376.8	1616.0	1703.0	2148.7	2293.6	2139.9	2012.8	2026.1	1997.2
62.5°	18845.8	2610.1	1511.3	1633.9	2030.6	2220.0	2070.7	1952.6	2055.0	2028.4
65°	17738.0	1972.6	1411.0	1551.4	1903.6	2173.2	2003.9	1919.1	2115.3	2086.3
67.5°	14934.0	1587.0	1326.2	1466.7	1776.4	2075.2	1943.6	1887.9	2168.8	2117.6
70°	10781.4	1352.9	1243.8	1364.1	1662.8	1963.7	1890.1	1832.2	2023.9	1943.6
72.5°	6637.8	1172.5	1150.2	1228.2	1575.8	1847.8	1809.9	1727.4	1823.3	1758.6
75°	3314.5	1016.4	1045.4	1094.4	1453.2	1716.3	1676.1	1593.6	1607.1	1593.6
77.5°	1587.0	869.2	922.8	960.7	1295.0	1567.0	1524.6	1439.9	1424.3	1426.5
80°	1005.3	726.7	777.9	804.7	1156.8	1393.0	1350.8	1266.1	1444.4	1339.6
82.5°	628.6	590.6	604.1	653.1	1007.5	1212.6	1156.8	1081.0	1301.8	1029.8
85°	347.7	412.4	430.2	472.5	775.6	1014.2	958.4	862.6	773.4	760.1
87.5°	207.3	245.2	251.9	283.1	521.6	733.3	648.7	615.2	510.5	508.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)