

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: P322824

Luminaire Tested: **GAN-SA0D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46550 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

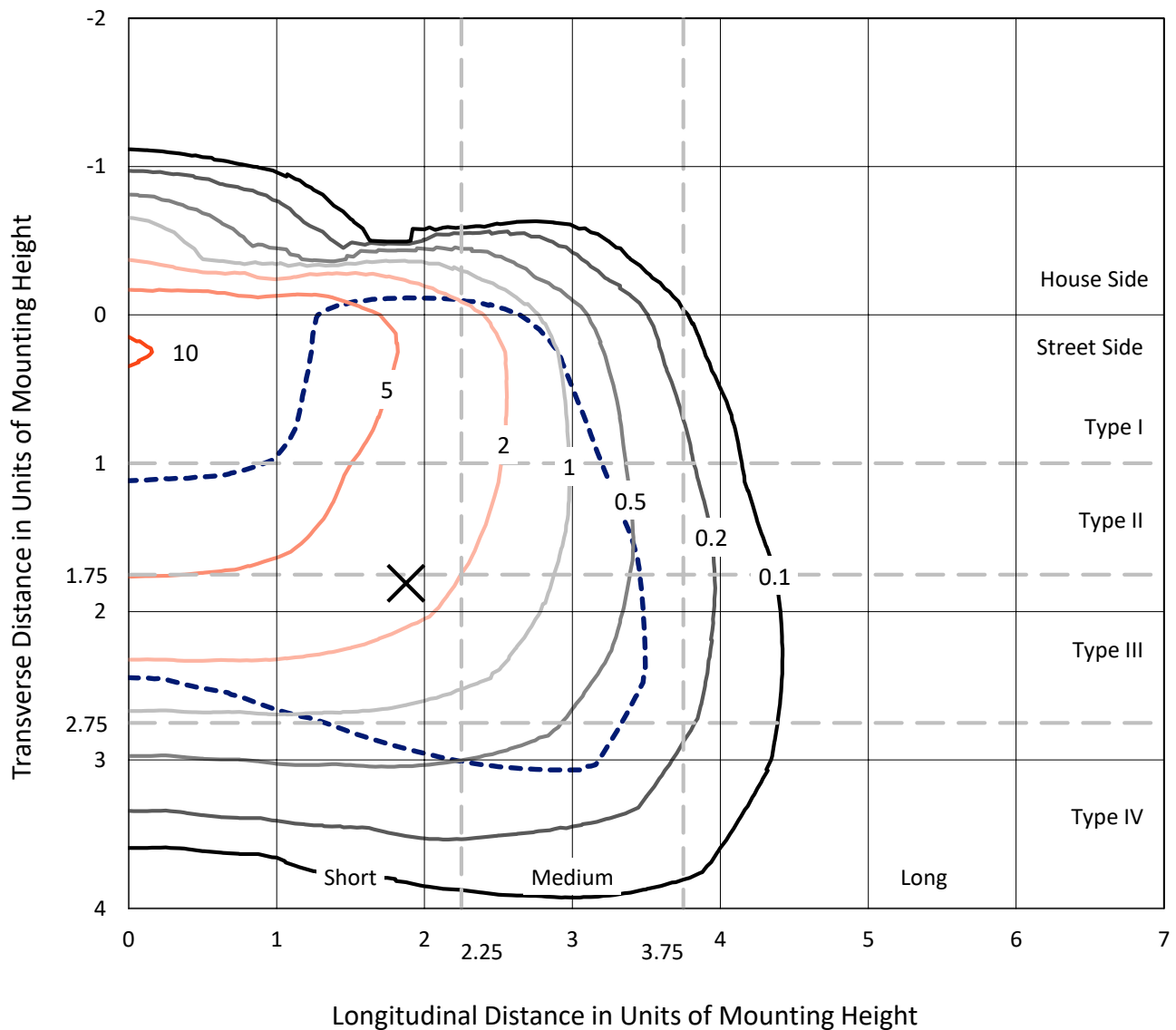
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

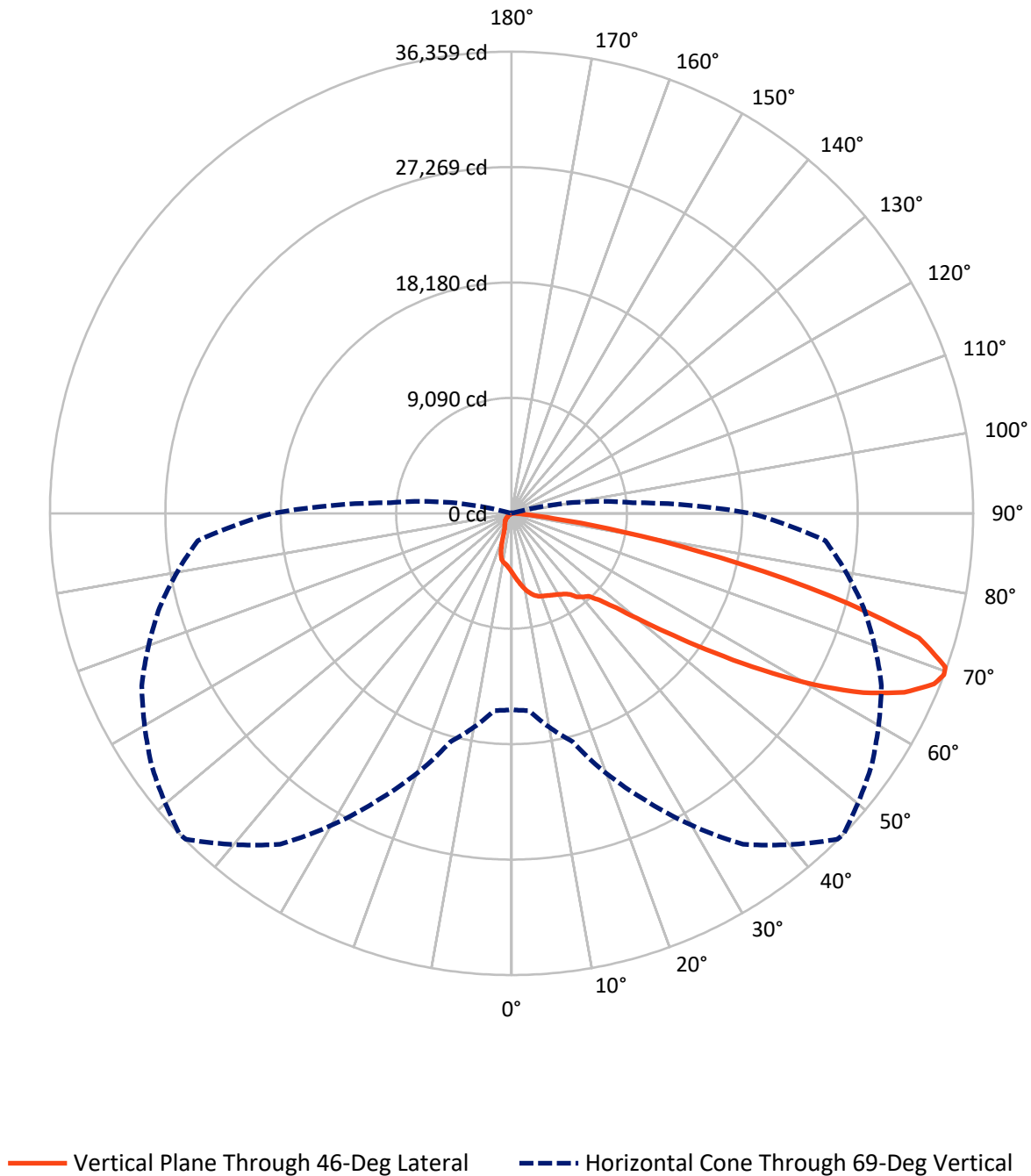
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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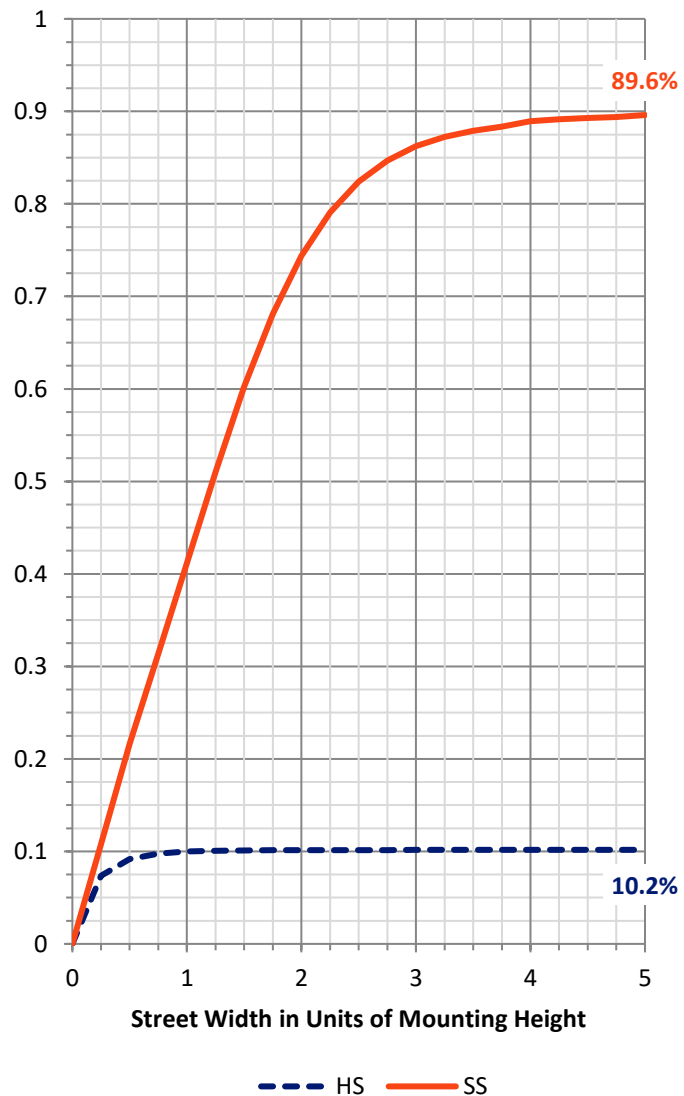
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4777.3	0.0	4777.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	41772.7	0.0	41772.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	46550.0	0.0	46550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	1.0
10°-20°	1408.4	3.0
20°-30°	2214.9	4.8
30°-40°	3176.2	6.8
40°-50°	5489.7	11.8
50°-60°	10845.5	23.3
60°-70°	15157.5	32.6
70°-80°	7322.7	15.7
80°-90°	470.7	1.0
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°	46550.0	100.0
0°-180°	46550.0	100.0

Coefficient of Utilization



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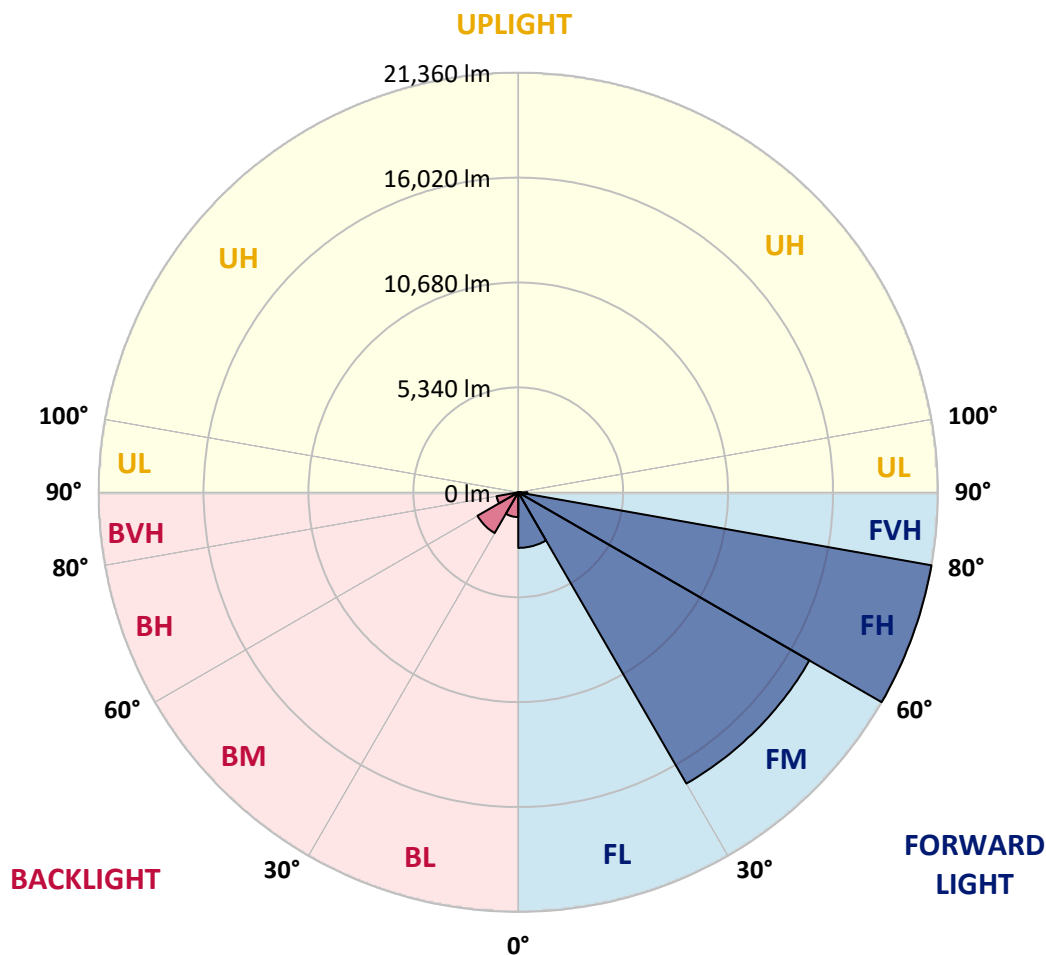
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2828.5	6.1			
FM	(30°-60°)	17117.5	36.8			
FH	(60°-80°)	21360.1	45.9			G5
FVH	(80°-90°)	466.7	1.0			G3/500
BL	(0°-30°)	1259.1	2.7	B3/2500		
BM	(30°-60°)	2394.0	5.1	B2/2500		
BH	(60°-80°)	1120.2	2.4	B3/2500		G3/2500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1
2.5°	5181.4	5174.9	5144.3	5131.2	5057.0	5013.3	4995.9	4941.3	4862.7	4784.2	4696.9
5°	5770.7	5768.5	5711.8	5657.2	5517.5	5386.6	5362.6	5236.0	5059.2	4893.3	4727.4
7.5°	6373.1	6344.7	6288.0	6183.2	5980.2	5770.7	5751.1	5572.1	5321.1	5081.0	4843.1
10°	6883.8	6866.3	6792.1	6632.8	6394.9	6157.0	6133.0	5912.6	5628.8	5334.2	5030.8
12.5°	7281.0	7267.9	7169.7	6971.1	6717.9	6471.3	6438.6	6242.1	5938.8	5609.2	5251.2
15°	7523.3	7516.7	7396.7	7185.0	6936.2	6722.3	6693.9	6521.5	6239.9	5895.1	5491.3
17.5°	7580.0	7582.2	7457.8	7243.9	7038.8	6886.0	6864.2	6733.2	6497.5	6154.8	5731.4
20°	7453.5	7479.6	7368.3	7182.8	7056.2	6975.5	6958.0	6879.4	6680.8	6357.8	5923.5
22.5°	7274.5	7287.6	7211.2	7086.8	7034.4	7049.7	7040.9	6997.3	6829.2	6532.4	6113.4
25°	7165.4	7165.4	7119.5	7014.8	7049.7	7143.5	7145.7	7137.0	7003.8	6746.3	6344.7
27.5°	7161.0	7147.9	7095.5	7016.9	7113.0	7257.0	7265.8	7324.7	7241.7	7006.0	6632.8
30°	7335.6	7320.3	7209.0	7106.4	7228.6	7383.6	7405.4	7534.2	7492.7	7287.6	6953.6
32.5°	7743.7	7689.2	7442.5	7274.5	7366.1	7551.7	7580.0	7785.2	7850.7	7634.6	7263.6
35°	8302.5	8130.0	7774.3	7593.1	7601.9	7796.1	7822.3	8123.5	8317.7	7953.3	7503.6
37.5°	9072.9	8987.8	8409.4	7924.9	7964.2	8258.8	8335.2	8662.6	8608.0	8127.9	7776.5
40°	10762.2	10629.1	10013.6	8854.7	8311.2	8634.2	8658.2	8832.8	8837.2	8522.9	8343.9
42.5°	13062.6	13008.1	12359.9	10541.8	8994.3	8885.2	8928.9	9223.5	9553.1	9356.6	9347.9
45°	15609.7	15581.3	14893.8	12781.1	10375.9	9708.0	9762.6	10157.6	10788.4	10832.1	11109.2
47.5°	17659.1	17646.0	17251.0	15280.1	12490.8	11102.7	11120.2	11539.2	12647.9	13195.8	13638.8
50°	19527.4	19590.7	19278.6	17984.3	15371.8	13287.4	13246.0	13525.3	15306.3	16203.3	16753.3
52.5°	22124.6	22214.1	21338.9	20507.4	18394.6	15998.2	15965.4	16257.9	18501.6	19173.8	19272.0
55°	24418.5	24265.7	23573.9	23333.8	22081.0	19346.2	19337.5	19595.0	21592.1	21878.0	22059.2
57.5°	25431.2	25372.3	25706.2	26256.2	25941.9	23303.2	23283.6	23087.1	24357.4	24388.0	24944.5
60°	26070.7	26142.7	27166.4	28862.2	29645.7	27561.4	27434.8	26236.6	26998.3	26930.6	27526.5
62.5°	25590.5	25732.4	27574.5	30400.9	32417.6	31278.3	31099.3	29121.9	29255.1	29021.5	29575.9
65°	23041.3	23261.8	26280.2	30110.6	33792.6	34183.3	34002.1	31669.0	31047.0	30662.8	30355.1
67.5°	18708.9	18839.9	21991.5	27585.4	33172.8	35916.2	35879.1	33901.7	32400.1	30385.6	27997.9
69°	15461.3	15590.0	18623.8	24927.0	31808.7	36287.3	36359.3	34617.6	32142.6	28700.7	24807.0
70°	13095.4	13232.9	16059.3	22648.5	30226.3	36114.9	36243.6	34550.0	31404.9	26749.5	22006.8
72.5°	6868.5	6986.4	9887.0	15603.1	24641.1	33161.9	33552.5	31629.7	26620.7	19427.0	13012.4
75°	2158.6	2226.2	3861.0	8156.2	16871.2	25784.8	25874.3	24811.4	18903.2	10685.8	5419.3
77.5°	822.8	803.2	1285.5	3005.4	8529.5	16236.1	16783.9	15504.9	9919.7	3778.0	1250.6
80°	443.1	445.2	667.9	1244.1	3649.2	8343.9	8806.6	7514.6	3524.8	1178.6	288.1
82.5°	192.1	200.8	375.4	659.1	1676.2	3077.4	3308.8	2754.4	1346.6	792.3	106.9
85°	41.5	45.8	181.2	357.9	683.1	864.3	905.8	892.7	857.7	615.5	41.5
87.5°	0.0	0.0	80.8	128.8	172.4	196.4	172.4	224.8	473.6	414.7	21.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1	4664.1
2.5°	4668.5	4629.2	4561.6	4487.3	4435.0	4380.4	4336.8	4317.1	4295.3	4280.0	4299.6
5°	4659.8	4583.4	4452.4	4325.8	4234.2	4160.0	4098.9	4074.8	4050.8	4033.4	4031.2
7.5°	4736.2	4629.2	4428.4	4242.9	4101.0	4000.6	3917.7	3882.8	3854.4	3841.3	3830.4
10°	4882.4	4744.9	4476.4	4234.2	4050.8	3880.6	3701.6	3564.1	3474.6	3433.2	3417.9
12.5°	5072.3	4899.9	4568.1	4280.0	4013.7	3686.3	3306.6	2979.2	2767.5	2697.6	2656.2
15°	5294.9	5081.0	4688.1	4338.9	3878.4	3280.4	2636.5	2208.8	2012.3	1973.0	1929.4
17.5°	5508.8	5273.1	4832.2	4349.8	3581.6	2621.3	1931.6	1641.3	1564.9	1591.1	1597.6
20°	5696.5	5463.0	4974.1	4253.8	3042.5	1966.5	1495.1	1423.0	1451.4	1501.6	1510.3
22.5°	5886.4	5646.3	5105.0	4000.6	2352.8	1492.9	1346.6	1364.1	1392.5	1442.7	1451.4
25°	6117.7	5868.9	5227.2	3535.8	1765.7	1270.3	1279.0	1305.2	1333.5	1379.4	1383.7
27.5°	6384.0	6150.5	5308.0	2931.2	1309.5	1167.7	1196.0	1235.3	1263.7	1307.4	1316.1
30°	6737.6	6521.5	5334.2	2304.8	1097.8	1076.0	1089.1	1137.1	1178.6	1217.9	1224.4
32.5°	7069.3	6888.2	5246.9	1739.5	1017.1	990.9	990.9	1019.3	1067.3	1104.4	1113.1
35°	7374.9	7257.0	4967.5	1272.4	956.0	912.3	890.5	890.5	921.0	951.6	960.3
37.5°	7778.7	7774.3	4515.7	1014.9	897.0	846.8	801.0	766.1	755.2	761.7	766.1
40°	8470.5	8477.1	3926.4	910.1	846.8	779.2	709.3	646.0	587.1	567.5	565.3
42.5°	9550.9	9452.7	3308.8	859.9	803.2	709.3	604.6	519.4	427.8	399.4	397.2
45°	11266.4	10683.6	2654.0	814.1	757.3	630.8	499.8	384.1	309.9	288.1	288.1
47.5°	13765.4	12300.9	2056.0	763.9	696.2	541.3	377.6	277.2	227.0	216.1	218.3
50°	16349.6	13885.5	1575.8	700.6	622.0	447.4	279.4	200.8	172.4	172.4	174.6
52.5°	18641.3	15046.6	1228.8	632.9	530.4	351.4	211.7	157.1	144.0	141.9	144.0
55°	20786.7	15795.2	940.7	554.4	421.2	261.9	161.5	128.8	120.0	115.7	113.5
57.5°	22855.8	16166.2	705.0	447.4	305.6	189.9	128.8	109.1	100.4	93.9	91.7
60°	24233.0	15865.0	484.5	329.6	211.7	137.5	106.9	93.9	82.9	76.4	74.2
62.5°	25010.0	15042.2	312.1	237.9	150.6	102.6	85.1	78.6	63.3	56.7	56.7
65°	24695.7	13684.7	218.3	170.2	109.1	76.4	63.3	63.3	45.8	37.1	34.9
67.5°	21884.6	11561.0	165.9	126.6	78.6	56.7	48.0	54.6	28.4	17.5	17.5
69°	18829.0	9581.4	141.9	104.8	65.5	45.8	41.5	50.2	19.6	13.1	10.9
70°	16364.9	8265.4	128.8	91.7	54.6	39.3	37.1	48.0	19.6	10.9	8.7
72.5°	9791.0	4609.6	98.2	65.5	34.9	30.6	30.6	54.6	19.6	10.9	8.7
75°	3957.0	1623.8	72.0	45.8	26.2	26.2	37.1	69.8	17.5	8.7	6.5
77.5°	897.0	355.8	41.5	28.4	17.5	26.2	43.7	54.6	10.9	4.4	0.0
80°	218.3	87.3	26.2	17.5	10.9	19.6	32.7	30.6	2.2	0.0	0.0
82.5°	72.0	30.6	10.9	8.7	2.2	6.5	15.3	8.7	0.0	0.0	0.0
85°	30.6	17.5	4.4	2.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0
87.5°	19.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)