

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: P321383

Luminaire Tested: **GAN-SA9D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55989 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

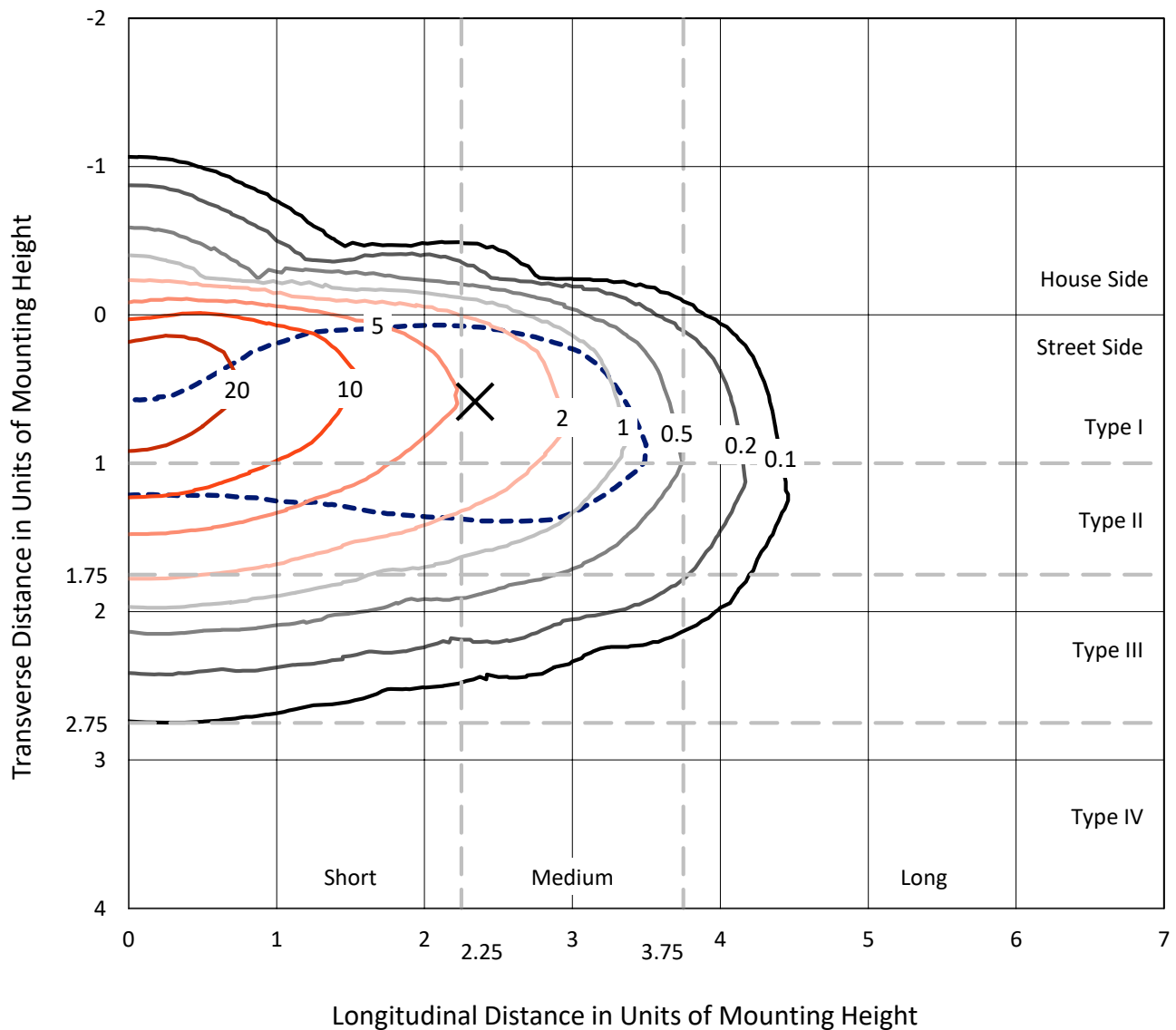
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

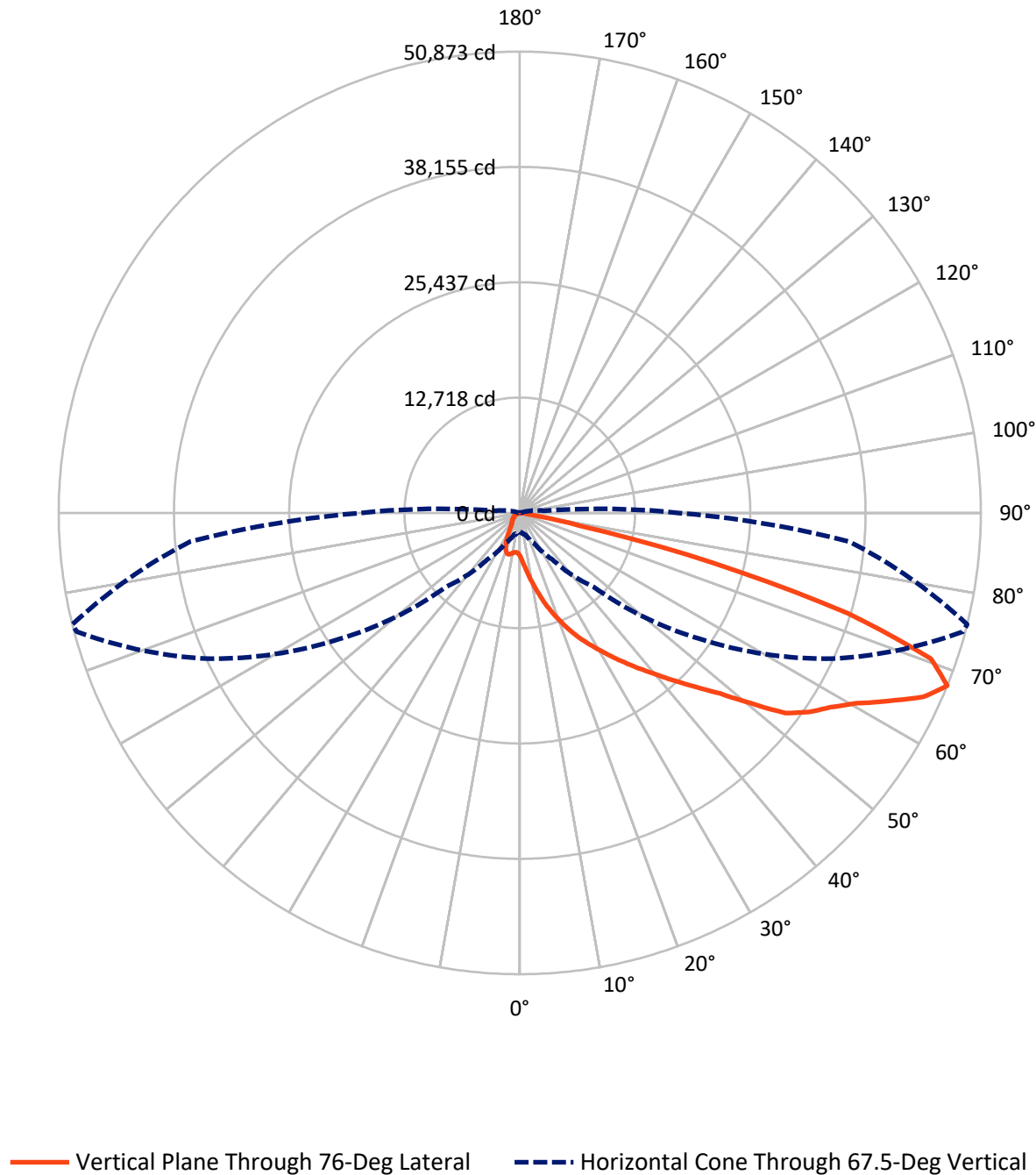
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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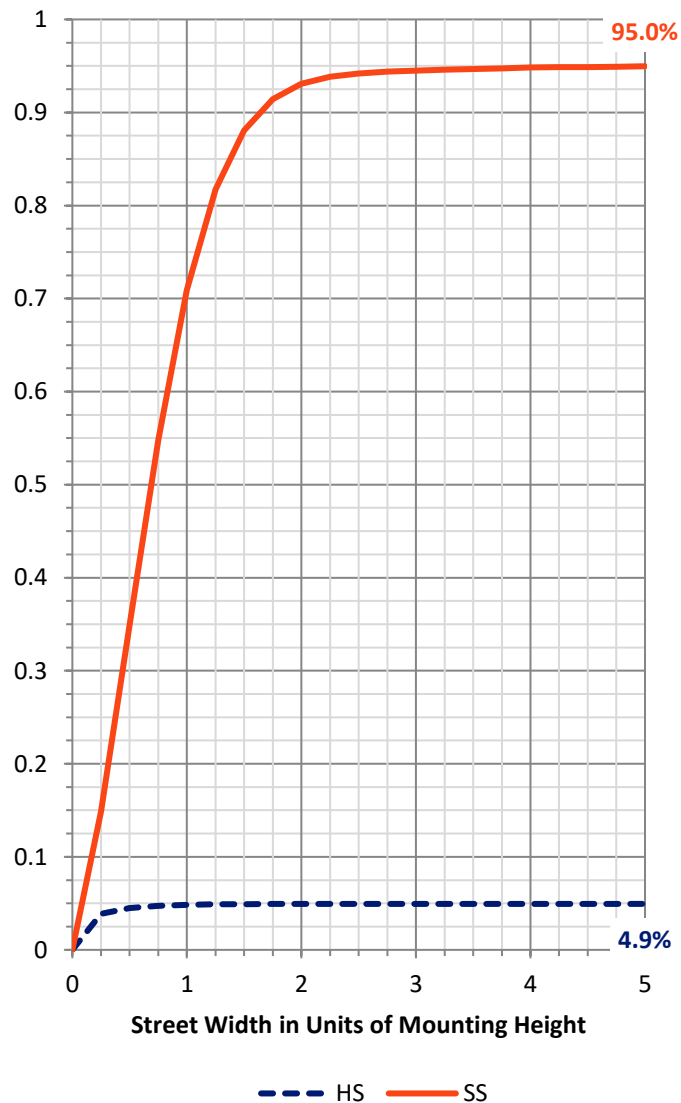
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.3	0.0	2780.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	53208.7	0.0	53208.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	55989.0	0.0	55989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	1.1
10°-20°	2341.2	4.2
20°-30°	4763.6	8.5
30°-40°	8268.0	14.8
40°-50°	11681.6	20.9
50°-60°	13247.5	23.7
60°-70°	10987.5	19.6
70°-80°	3980.0	7.1
80°-90°	129.1	0.2
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°	55989.0	100.0
0°-180°	55989.0	100.0

Coefficient of Utilization



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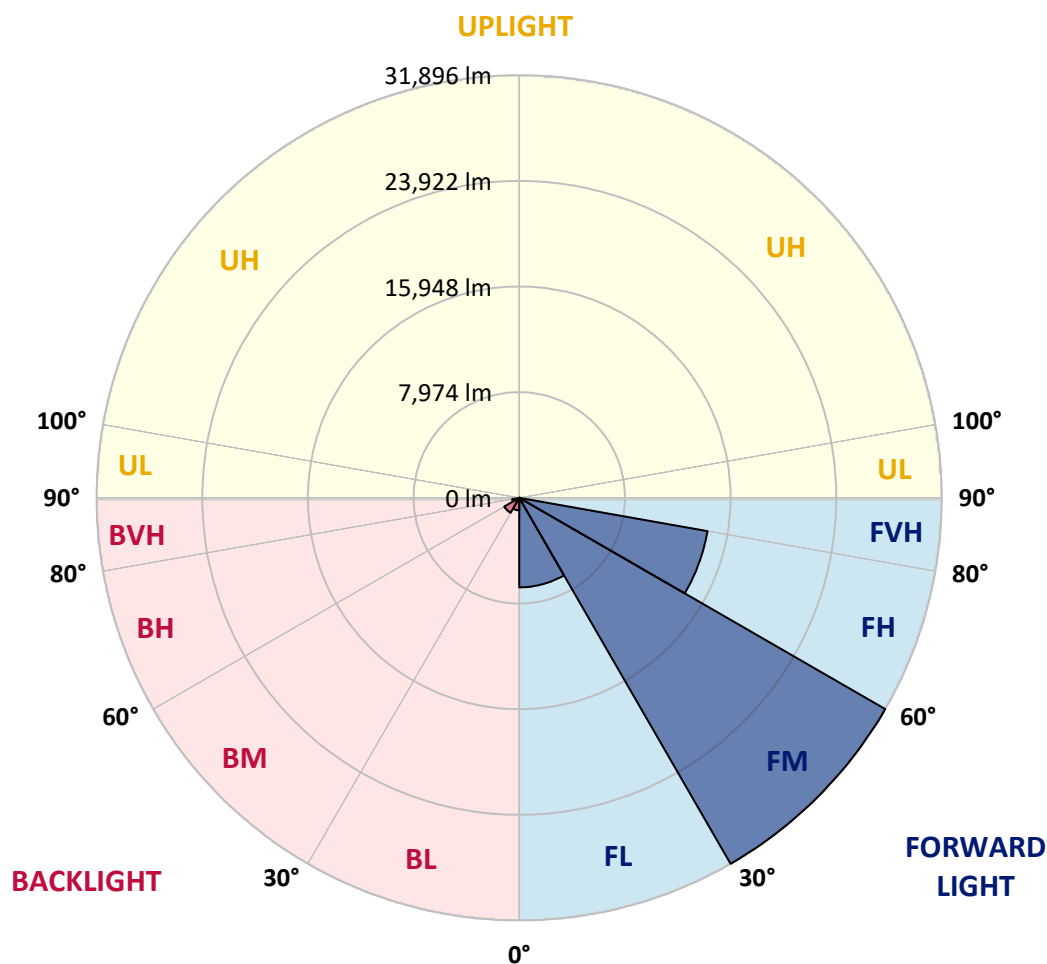
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6757.7	12.1			
FM	(30°-60°)	31895.8	57.0			
FH	(60°-80°)	14430.2	25.8			G5
FVH	(80°-90°)	125.0	0.2			G2/225
BL	(0°-30°)	937.6	1.7	B2/1000		
BM	(30°-60°)	1301.3	2.3	B2/2500		
BH	(60°-80°)	537.3	1.0	B2/1000		G2/1000
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5
2.5°	7089.9	6930.4	6967.2	6864.2	6677.7	6295.0	5968.8	5659.6	5299.0	5286.8	4989.9
5°	9560.3	9425.4	9408.2	9199.7	8861.1	8211.0	7578.1	6856.8	6052.2	5993.3	5362.8
7.5°	11802.6	11694.6	11655.4	11407.6	10777.1	10144.2	9319.9	8260.1	7001.6	6893.6	5865.7
10°	13524.8	13473.2	13483.1	13306.4	12766.7	12177.9	11096.0	9744.3	8078.5	7911.7	6469.2
12.5°	14829.9	14842.2	14930.5	14822.5	14520.8	14084.1	12928.6	11326.6	9270.8	9042.7	7158.6
15°	15789.1	15850.4	16012.4	16147.3	16125.2	15747.4	14687.6	12933.5	10536.7	10284.0	7926.4
17.5°	16409.8	16478.5	16714.0	17013.3	17288.0	17199.7	16385.2	14484.0	11817.3	11525.4	8748.3
20°	16954.4	17035.4	17288.0	17683.0	18195.7	18306.1	17771.3	15987.8	13095.4	12739.7	9597.1
22.5°	18134.4	18132.0	18286.5	18517.1	19005.3	19289.9	18951.3	17383.7	14358.9	13988.4	10463.1
25°	20268.7	20187.8	20133.8	19952.3	20060.2	20236.8	20047.9	18688.8	15629.6	15254.3	11341.4
27.5°	22805.4	22854.5	22417.8	21929.6	21551.8	21370.2	21061.1	19898.3	16851.4	16439.2	12200.0
30°	25481.9	25496.6	24981.4	24358.3	23526.7	22837.3	22302.5	21053.8	18107.4	17658.5	13034.1
32.5°	27895.9	27800.2	27289.9	26441.1	25391.1	24615.9	23504.6	22344.2	19437.1	19002.9	13961.4
35°	29809.4	29696.6	29075.9	28303.1	27213.9	26433.8	25096.7	23632.1	20835.4	20411.0	14891.2
37.5°	31207.8	31075.3	30437.5	29642.6	28703.0	28249.2	26944.0	25032.9	22361.4	21905.1	15870.1
40°	31693.5	31578.2	31178.3	30596.9	29841.3	29738.3	28904.2	26644.7	24022.2	23536.5	16978.9
42.5°	31404.0	31291.2	31148.9	30952.6	30638.6	30736.7	30753.9	28482.2	25867.1	25388.7	18203.1
45°	30255.9	30155.3	30302.5	30589.6	30979.6	31465.4	32441.8	30457.1	27927.8	27417.5	19618.6
47.5°	28565.6	28492.0	28899.3	29615.6	30756.4	32095.8	33984.8	32532.5	30241.2	29767.7	21385.0
50°	26161.4	26149.2	26963.7	28271.2	30025.3	32400.1	35579.5	34892.6	33454.9	32956.9	23840.7
52.5°	22417.8	22442.3	24044.3	26136.9	28742.3	32194.0	36604.9	37924.8	37193.7	36676.1	25967.6
55°	18853.2	19000.4	20136.3	23153.8	26774.8	31428.6	36958.2	39340.3	39256.9	38766.2	27150.1
57.5°	15362.2	15629.6	16723.8	19542.6	23902.0	29664.7	36764.4	39953.6	40792.6	40417.3	28710.4
60°	11579.3	11702.0	12963.0	15597.8	20214.8	26446.0	35358.7	40287.2	42892.6	42632.5	30974.7
62.5°	7367.1	7673.8	8792.4	11334.0	15740.0	21976.2	32988.8	40282.3	45520.0	45662.3	33896.5
65°	3881.0	4239.2	4832.9	7023.6	10816.4	16983.8	29424.3	39904.5	48743.6	48942.3	36180.5
67.5°	2092.6	2195.7	2509.7	3645.5	6273.0	11505.7	24186.6	38040.1	50610.5	50873.0	36499.4
70°	1530.8	1587.3	1705.0	2016.6	3157.3	6682.6	17648.7	33813.1	48203.9	48105.7	32429.5
72.5°	1175.1	1263.4	1351.7	1476.9	1815.4	3567.0	10988.1	26477.9	38462.0	37814.4	24240.5
75°	927.3	942.0	1067.2	1180.0	1361.6	2031.3	4879.5	15421.1	23475.1	21941.9	12570.4
77.5°	740.9	750.7	824.3	922.4	1094.1	1334.6	1511.2	6066.9	7494.7	6687.6	2728.0
80°	439.1	463.7	613.3	711.4	907.7	841.5	552.0	1317.4	1170.2	1059.8	458.8
82.5°	245.3	265.0	345.9	561.8	632.9	402.3	274.8	355.7	274.8	267.4	130.0
85°	0.0	12.3	223.2	348.4	257.6	88.3	115.3	117.8	81.0	76.1	51.5
87.5°	0.0	0.0	68.7	66.2	9.8	14.7	27.0	39.3	31.9	31.9	27.0
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°	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5
2.5°	4842.7	4710.2	4460.0	4214.7	4008.6	3839.3	3687.2	3625.9	3576.8	3569.5	3530.2
5°	5058.6	4791.2	4312.8	3920.3	3657.8	3471.3	3311.9	3213.8	3137.7	3108.3	3081.3
7.5°	5384.9	4980.1	4293.2	3841.8	3527.8	3213.8	2919.4	2600.4	2401.7	2325.7	2281.5
10°	5782.3	5230.3	4366.8	3819.7	3270.2	2607.8	2119.6	1714.8	1550.5	1496.5	1481.8
12.5°	6246.0	5541.9	4494.4	3682.3	2720.7	1852.2	1462.1	1324.8	1288.0	1270.8	1270.8
15°	6778.3	5882.9	4585.1	3284.9	2011.7	1400.8	1265.9	1202.1	1162.8	1140.8	1143.2
17.5°	7322.9	6216.5	4541.0	2708.4	1484.2	1246.3	1145.7	1077.0	1023.0	1000.9	996.0
20°	7872.5	6525.6	4295.6	2016.6	1256.1	1130.9	1018.1	942.0	888.1	866.0	861.1
22.5°	8441.6	6788.1	3863.9	1479.3	1128.5	1003.4	893.0	816.9	765.4	745.8	736.0
25°	8996.1	7001.6	3260.4	1197.2	1008.3	883.2	777.7	706.5	659.9	640.3	637.8
27.5°	9513.7	7136.5	2561.2	1057.4	902.8	775.2	679.5	615.8	576.5	561.8	559.3
30°	9979.8	7148.8	1893.9	954.3	809.6	682.0	593.7	537.3	502.9	488.2	483.3
32.5°	10450.8	7045.7	1378.7	861.1	723.7	601.0	515.2	471.0	446.5	434.2	434.2
35°	10894.9	6807.8	1074.5	780.1	640.3	522.5	453.9	422.0	407.2	395.0	395.0
37.5°	11329.1	6466.8	912.6	709.0	561.8	456.3	399.9	380.3	368.0	355.7	355.7
40°	11770.7	6037.4	829.2	642.8	498.0	404.8	355.7	338.5	326.3	316.5	314.0
42.5°	12312.9	5541.9	775.2	581.4	441.6	358.2	314.0	294.4	284.6	274.8	269.9
45°	12940.9	5115.0	731.1	520.1	395.0	318.9	272.3	252.7	238.0	225.7	223.2
47.5°	13846.1	4805.9	672.2	453.9	350.8	277.2	235.5	213.4	191.4	179.1	176.6
50°	15001.6	4550.8	596.1	395.0	306.7	235.5	196.3	169.3	149.6	137.4	137.4
52.5°	15575.7	4217.1	527.4	343.5	257.6	198.7	159.5	127.6	117.8	105.5	105.5
55°	15806.3	3962.0	458.8	291.9	213.4	164.4	125.1	98.1	90.8	83.4	81.0
57.5°	16453.9	3888.4	399.9	247.8	176.6	130.0	95.7	73.6	68.7	58.9	58.9
60°	17496.6	3925.2	345.9	211.0	142.3	100.6	71.1	56.4	51.5	41.7	41.7
62.5°	18622.6	3878.6	291.9	181.5	110.4	73.6	49.1	41.7	41.7	24.5	22.1
65°	18838.5	3454.2	250.2	149.6	85.9	54.0	31.9	27.0	36.8	4.9	0.0
67.5°	17484.3	2678.9	215.9	115.3	63.8	41.7	24.5	12.3	31.9	0.0	0.0
70°	13981.1	1702.6	174.2	83.4	49.1	34.3	19.6	4.9	24.5	0.0	0.0
72.5°	9886.6	988.7	137.4	58.9	41.7	27.0	14.7	0.0	14.7	0.0	0.0
75°	4999.7	527.4	85.9	44.2	31.9	19.6	9.8	0.0	2.5	0.0	0.0
77.5°	1081.9	245.3	54.0	31.9	22.1	12.3	4.9	0.0	0.0	0.0	0.0
80°	235.5	107.9	34.3	19.6	12.3	7.4	0.0	0.0	0.0	0.0	0.0
82.5°	85.9	56.4	17.2	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.6	29.4	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.5	9.8	2.5	2.5	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)