

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: P322823

Luminaire Tested: **GAN-SA9D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322823
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-SA9D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 42046 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

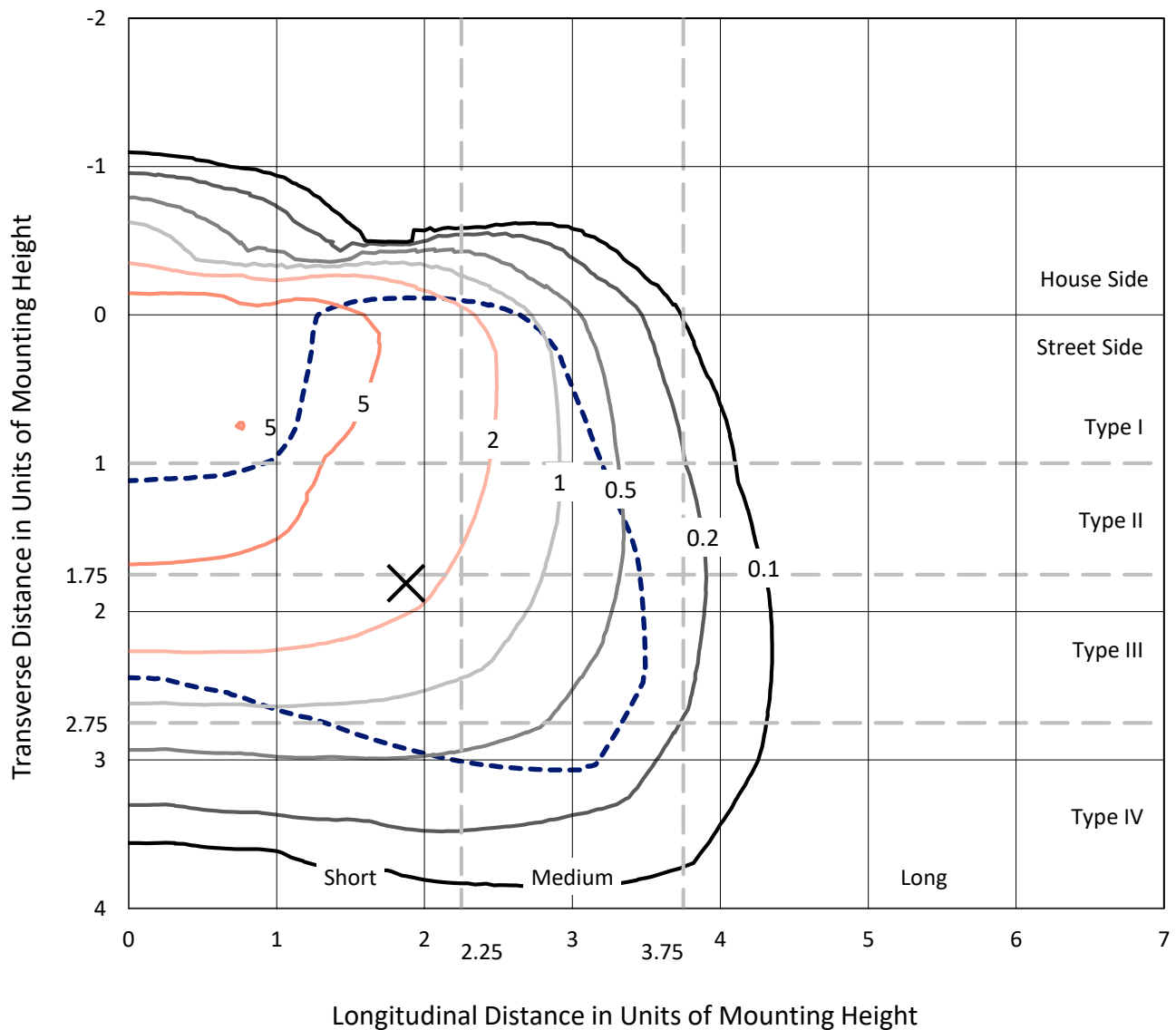
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

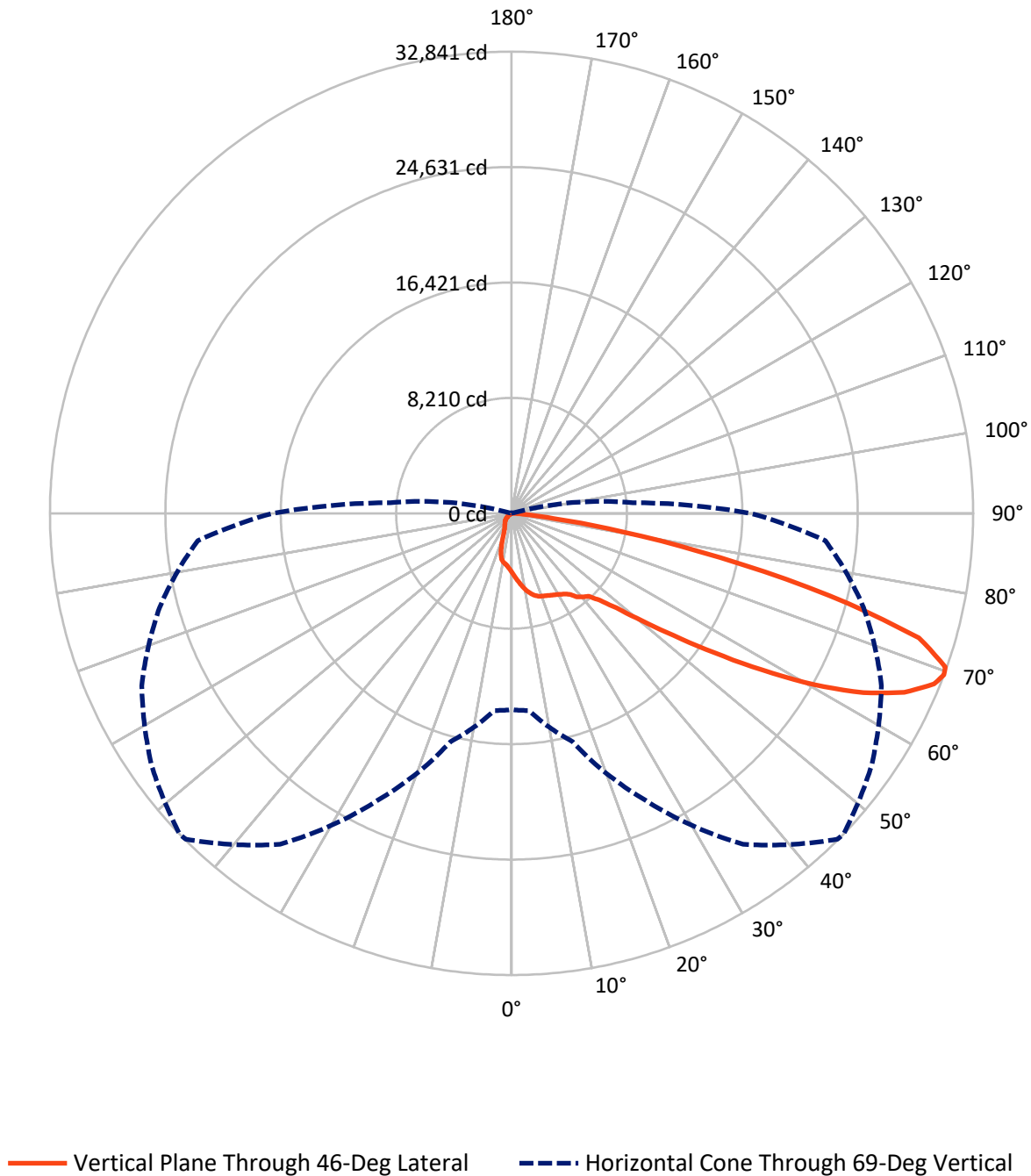
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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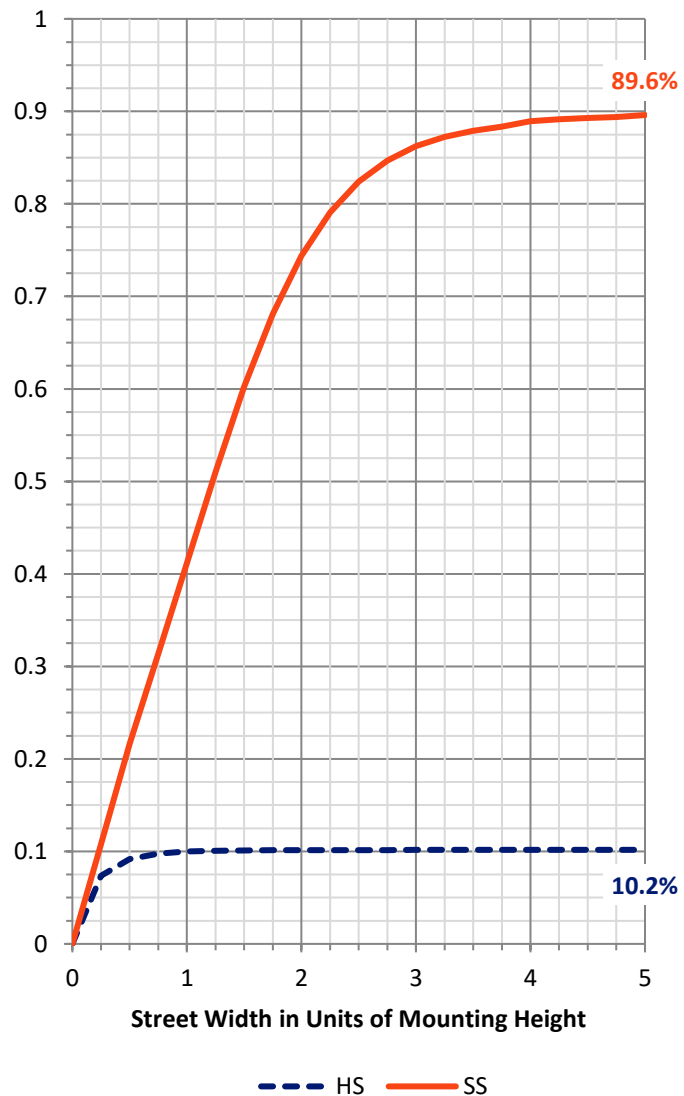
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4315.1	0.0	4315.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	37730.9	0.0	37730.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	42046.0	0.0	42046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.3	1.0
10°-20°	1272.1	3.0
20°-30°	2000.6	4.8
30°-40°	2868.9	6.8
40°-50°	4958.6	11.8
50°-60°	9796.1	23.3
60°-70°	13690.9	32.6
70°-80°	6614.2	15.7
80°-90°	425.1	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°	42046.0	100.0
0°-180°	42046.0	100.0

Coefficient of Utilization



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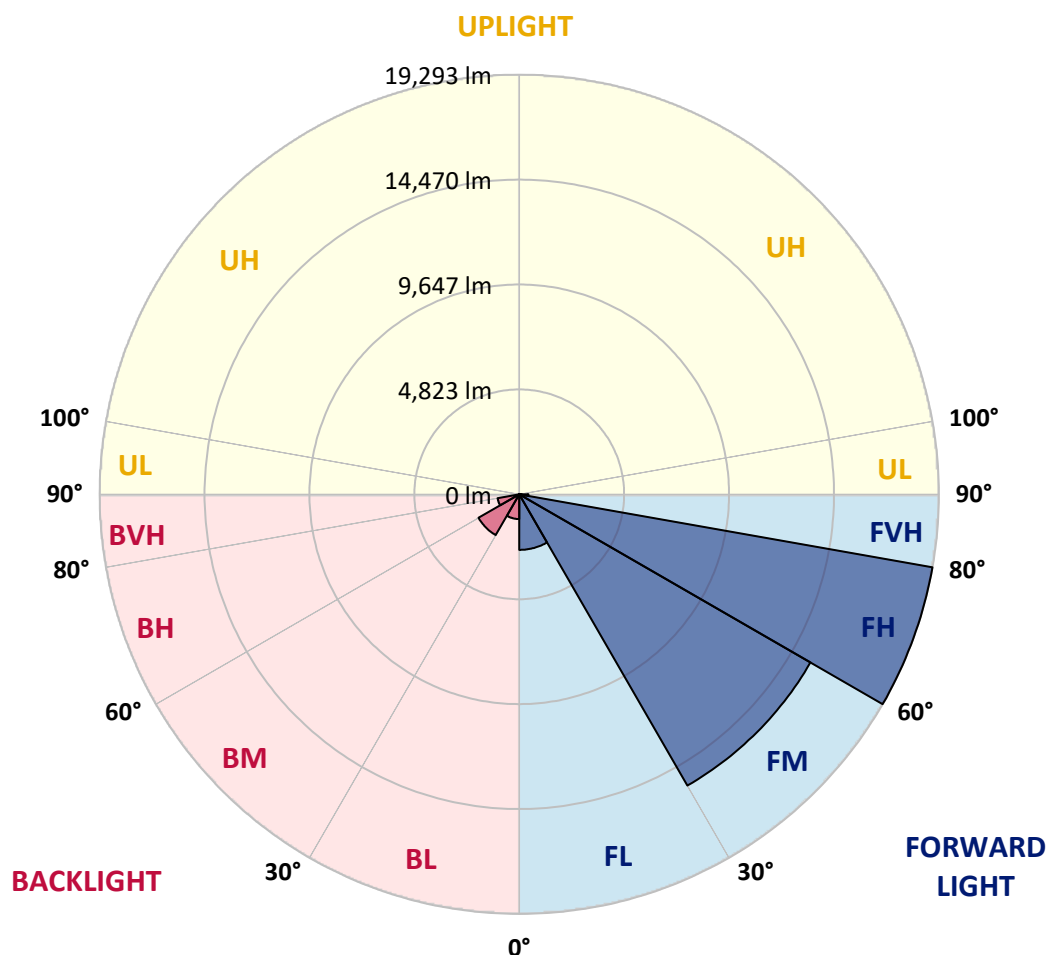
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2554.8	6.1			
FM	(30°-60°)	15461.2	36.8			
FH	(60°-80°)	19293.4	45.9			G5
FVH	(80°-90°)	421.5	1.0			G3/500
BL	(0°-30°)	1137.3	2.7	B3/2500		
BM	(30°-60°)	2162.4	5.1	B2/2500		
BH	(60°-80°)	1011.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	3.6	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°	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9
2.5°	4680.1	4674.2	4646.6	4634.7	4567.7	4528.3	4512.5	4463.2	4392.2	4321.3	4242.4
5°	5212.3	5210.4	5159.1	5109.8	4983.7	4865.4	4843.7	4729.4	4569.7	4419.8	4270.0
7.5°	5756.4	5730.8	5679.6	5584.9	5401.6	5212.3	5194.6	5032.9	4806.2	4589.4	4374.5
10°	6217.8	6202.0	6135.0	5991.0	5776.2	5561.3	5539.6	5340.5	5084.2	4818.1	4544.0
12.5°	6576.5	6564.7	6476.0	6296.6	6067.9	5845.2	5815.6	5638.2	5364.1	5066.5	4743.2
15°	6795.4	6789.5	6681.0	6489.8	6265.1	6071.9	6046.2	5890.5	5636.2	5324.7	4960.0
17.5°	6846.6	6848.6	6736.2	6543.0	6357.7	6219.7	6200.0	6081.7	5868.8	5559.3	5176.9
20°	6732.3	6755.9	6655.4	6487.8	6373.5	6300.5	6284.8	6213.8	6034.4	5742.6	5350.3
22.5°	6570.6	6582.5	6513.5	6401.1	6353.8	6367.6	6359.7	6320.3	6168.5	5900.4	5521.9
25°	6472.1	6472.1	6430.7	6336.0	6367.6	6452.3	6454.3	6446.4	6326.2	6093.6	5730.8
27.5°	6468.1	6456.3	6409.0	6338.0	6424.7	6554.9	6562.7	6616.0	6541.1	6328.1	5991.0
30°	6625.8	6612.0	6511.5	6418.8	6529.2	6669.2	6688.9	6805.2	6767.8	6582.5	6280.8
32.5°	6994.5	6945.2	6722.4	6570.6	6653.4	6821.0	6846.6	7031.9	7091.1	6895.9	6560.8
35°	7499.2	7343.4	7022.1	6858.5	6866.3	7041.8	7065.4	7337.5	7513.0	7183.7	6777.6
37.5°	8195.1	8118.2	7595.8	7158.1	7193.6	7459.7	7528.7	7824.4	7775.1	7341.4	7024.0
40°	9720.9	9600.7	9044.7	7997.9	7507.0	7798.8	7820.5	7978.2	7982.1	7698.3	7536.6
42.5°	11798.7	11749.5	11164.0	9521.8	8124.1	8025.5	8064.9	8331.1	8628.8	8451.3	8443.4
45°	14099.4	14073.7	13452.7	11544.4	9372.0	8768.7	8818.0	9174.8	9744.6	9784.0	10034.4
47.5°	15950.5	15938.7	15581.8	13801.7	11282.2	10028.4	10044.2	10422.7	11424.2	11919.0	12319.2
50°	17638.0	17695.2	17413.3	16244.2	13884.5	12001.8	11964.3	12216.7	13825.3	14635.6	15132.4
52.5°	19983.9	20064.8	19274.2	18523.1	16614.8	14450.3	14420.7	14684.9	16711.4	17318.6	17407.3
55°	22055.9	21917.9	21292.9	21076.1	19944.5	17474.4	17466.5	17699.1	19502.9	19761.2	19924.8
57.5°	22970.6	22917.4	23219.0	23715.8	23431.9	21048.5	21030.7	20853.3	22000.7	22028.3	22531.0
60°	23548.2	23613.3	24537.8	26069.6	26777.3	24894.7	24780.3	23698.0	24386.0	24324.9	24863.1
62.5°	23114.5	23242.6	24906.5	27459.4	29281.0	28251.9	28090.3	26304.2	26424.5	26213.5	26714.3
65°	20811.9	21011.0	23737.5	27197.2	30523.0	30875.8	30712.2	28604.8	28043.0	27696.0	27418.0
67.5°	16898.7	17017.0	19863.7	24916.3	29963.1	32441.1	32407.6	30621.5	29265.2	27445.6	25288.9
69°	13965.3	14081.6	16821.8	22515.2	28731.0	32776.3	32841.3	31268.2	29032.6	25923.7	22406.8
70°	11828.3	11952.5	14505.5	20457.1	27301.7	32620.5	32736.8	31207.0	28366.3	24161.3	19877.5
72.5°	6204.0	6310.4	8930.4	14093.4	22256.9	29953.2	30306.1	28569.3	24045.0	17547.3	11753.4
75°	1949.7	2010.8	3487.4	7367.1	15238.8	23290.0	23370.8	22410.7	17074.2	9651.9	4895.0
77.5°	743.2	725.5	1161.1	2714.6	7704.2	14665.1	15160.0	14004.7	8959.9	3412.5	1129.6
80°	400.2	402.2	603.2	1123.7	3296.2	7536.6	7954.5	6787.5	3183.8	1064.5	260.2
82.5°	173.5	181.4	339.1	595.4	1514.0	2779.7	2988.6	2487.9	1216.3	715.6	96.6
85°	37.5	41.4	163.6	323.3	617.0	780.7	818.1	806.3	774.8	555.9	37.5
87.5°	0.0	0.0	72.9	116.3	155.7	177.4	155.7	203.1	427.8	374.6	19.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9
2.5°	4216.8	4181.3	4120.2	4053.2	4005.9	3956.6	3917.1	3899.4	3879.7	3865.9	3883.6
5°	4208.9	4139.9	4021.6	3907.3	3824.5	3757.5	3702.3	3680.6	3658.9	3643.1	3641.2
7.5°	4277.9	4181.3	3999.9	3832.4	3704.2	3613.6	3538.6	3507.1	3481.5	3469.6	3459.8
10°	4410.0	4285.8	4043.3	3824.5	3658.9	3505.1	3343.5	3219.3	3138.4	3101.0	3087.2
12.5°	4581.5	4425.8	4126.1	3865.9	3625.4	3329.7	2986.6	2690.9	2499.7	2436.6	2399.2
15°	4782.6	4589.4	4234.5	3919.1	3503.2	2963.0	2381.4	1995.0	1817.6	1782.1	1742.7
17.5°	4975.8	4762.9	4364.6	3929.0	3235.0	2367.6	1744.7	1482.5	1413.5	1437.1	1443.1
20°	5145.3	4934.4	4492.8	3842.2	2748.1	1776.2	1350.4	1285.3	1311.0	1356.3	1364.2
22.5°	5316.8	5100.0	4611.1	3613.6	2125.2	1348.4	1216.3	1232.1	1257.7	1303.1	1311.0
25°	5525.8	5301.1	4721.5	3193.6	1594.9	1147.3	1155.2	1178.9	1204.5	1245.9	1249.9
27.5°	5766.3	5555.4	4794.4	2647.6	1182.8	1054.7	1080.3	1115.8	1141.4	1180.9	1188.7
30°	6085.7	5890.5	4818.1	2081.8	991.6	971.9	983.7	1027.1	1064.5	1100.0	1105.9
32.5°	6385.3	6221.7	4739.2	1571.2	918.7	895.0	895.0	920.6	964.0	997.5	1005.4
35°	6661.3	6554.9	4486.9	1149.3	863.5	824.0	804.3	804.3	831.9	859.5	867.4
37.5°	7026.0	7022.1	4078.8	916.7	810.2	764.9	723.5	692.0	682.1	688.0	692.0
40°	7650.9	7656.9	3546.5	822.1	764.9	703.8	640.7	583.5	530.3	512.6	510.6
42.5°	8626.8	8538.1	2988.6	776.7	725.5	640.7	546.1	469.2	386.4	360.8	358.8
45°	10176.3	9649.9	2397.2	735.3	684.1	569.7	451.4	347.0	279.9	260.2	260.2
47.5°	12433.5	11110.7	1857.0	690.0	628.9	488.9	341.0	250.4	205.0	195.2	197.1
50°	14767.7	12542.0	1423.3	632.8	561.8	404.1	252.3	181.4	155.7	155.7	157.7
52.5°	16837.6	13590.7	1109.9	571.7	479.0	317.4	191.2	141.9	130.1	128.1	130.1
55°	18775.5	14266.9	849.7	500.7	380.5	236.6	145.9	116.3	108.4	104.5	102.5
57.5°	20644.4	14602.1	636.8	404.1	276.0	171.5	116.3	98.6	90.7	84.8	82.8
60°	21888.3	14330.0	437.6	297.7	191.2	124.2	96.6	84.8	74.9	69.0	67.0
62.5°	22590.1	13586.8	281.9	214.9	136.0	92.7	76.9	71.0	57.2	51.3	51.3
65°	22306.2	12360.6	197.1	153.8	98.6	69.0	57.2	57.2	41.4	33.5	31.5
67.5°	19767.1	10442.4	149.8	114.3	71.0	51.3	43.4	49.3	25.6	15.8	15.8
69°	17007.1	8654.4	128.1	94.6	59.1	41.4	37.5	45.3	17.7	11.8	9.9
70°	14781.5	7465.6	116.3	82.8	49.3	35.5	33.5	43.4	17.7	9.9	7.9
72.5°	8843.6	4163.6	88.7	59.1	31.5	27.6	27.6	49.3	17.7	9.9	7.9
75°	3574.1	1466.7	65.1	41.4	23.7	23.7	33.5	63.1	15.8	7.9	5.9
77.5°	810.2	321.3	37.5	25.6	15.8	23.7	39.4	49.3	9.9	3.9	0.0
80°	197.1	78.9	23.7	15.8	9.9	17.7	29.6	27.6	2.0	0.0	0.0
82.5°	65.1	27.6	9.9	7.9	2.0	5.9	13.8	7.9	0.0	0.0	0.0
85°	27.6	15.8	3.9	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.7	5.9	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)