

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: P322043

Luminaire Tested: **GAN-SA9B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26716 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 374
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



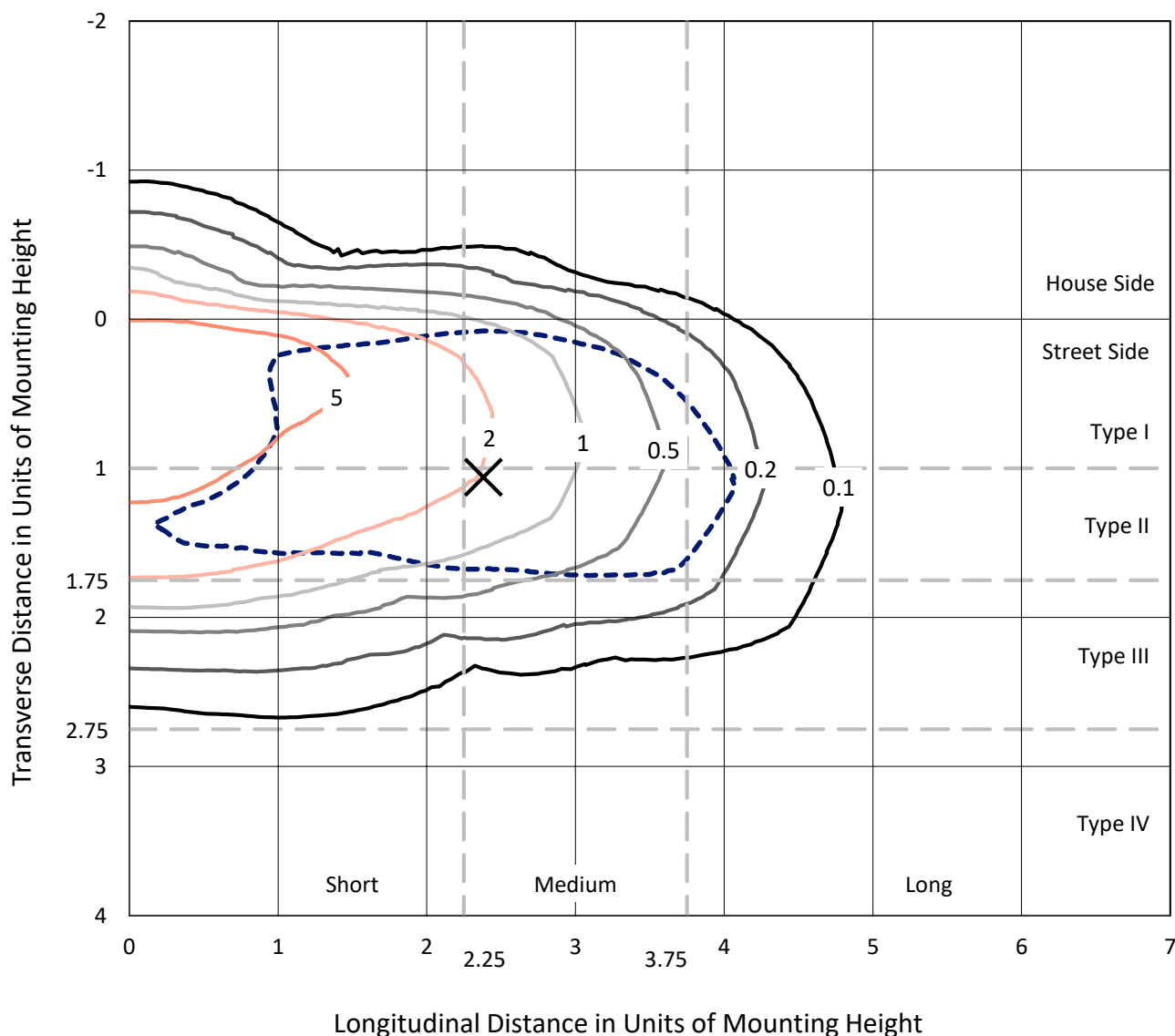
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

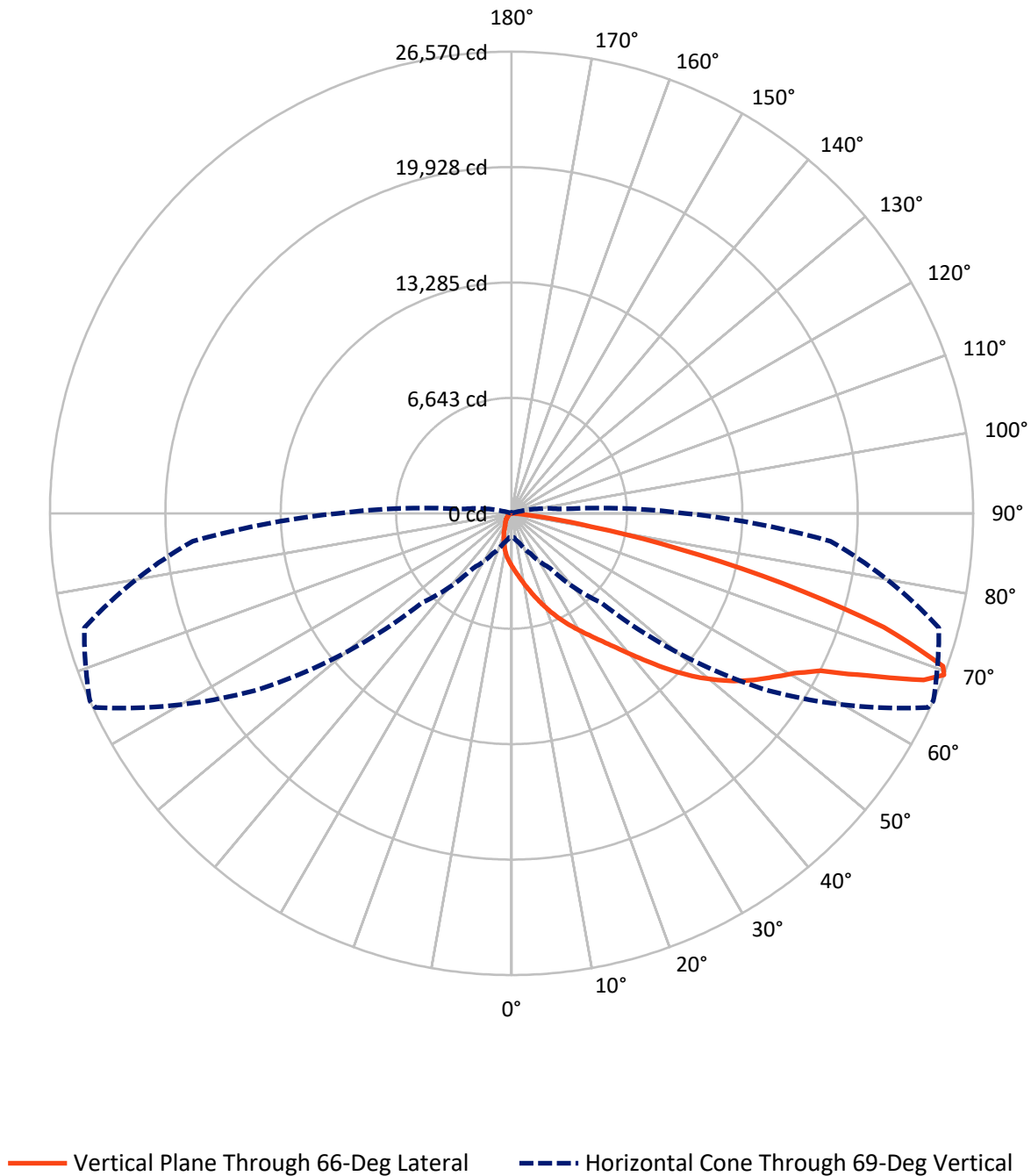
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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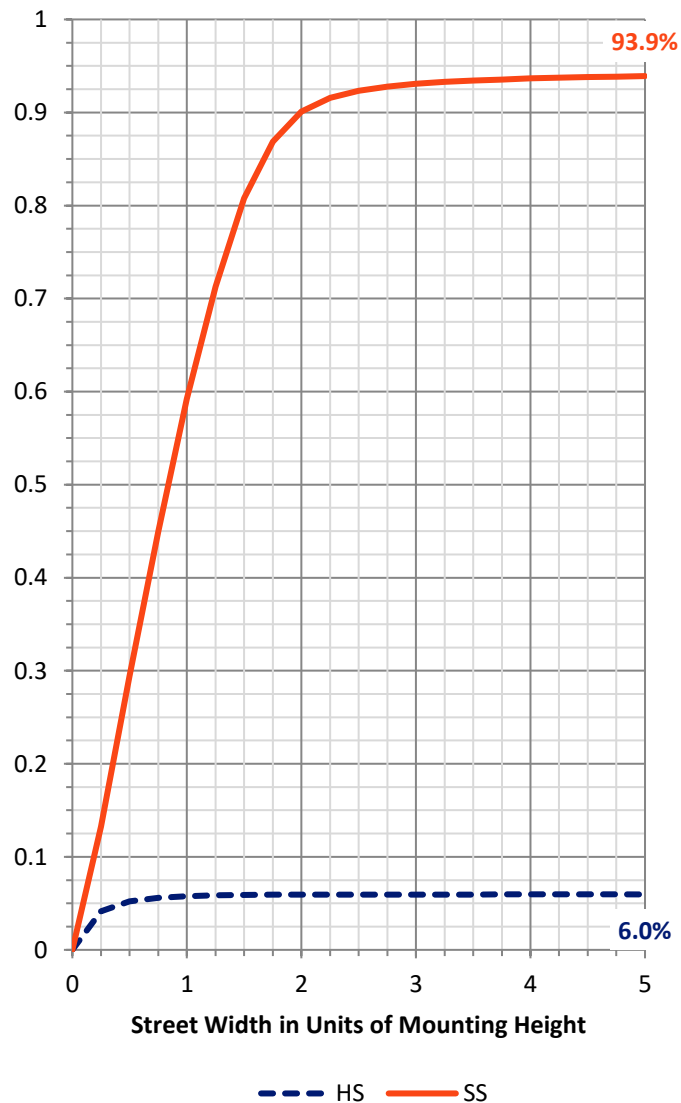
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.6	0.0	1602.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25113.4	0.0	25113.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	26716.0	0.0	26716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.1
10°-20°	874.7	3.3
20°-30°	1523.1	5.7
30°-40°	2672.3	10.0
40°-50°	4473.1	16.7
50°-60°	6575.0	24.6
60°-70°	6750.9	25.3
70°-80°	3332.7	12.5
80°-90°	220.4	0.8
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°	26716.0	100.0
0°-180°	26716.0	100.0

Coefficient of Utilization



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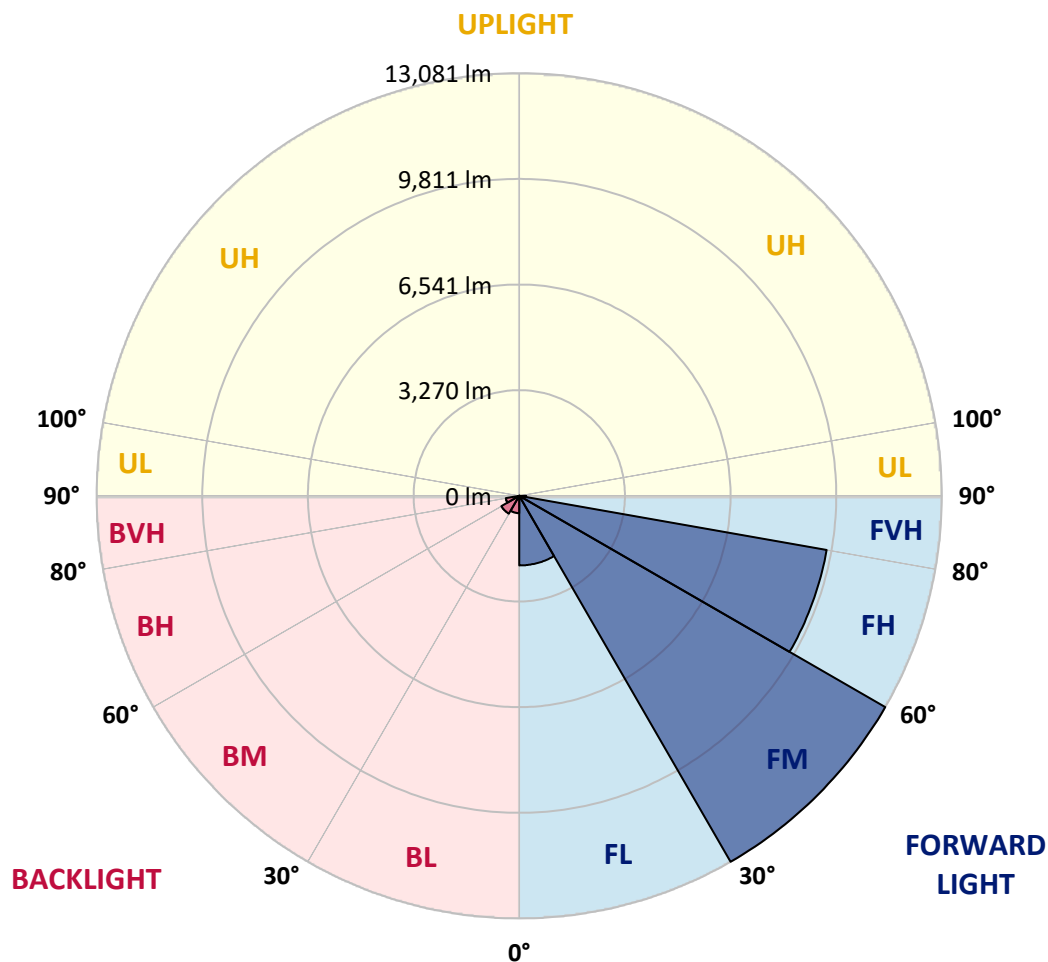
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2155.7	8.1			
FM	(30°-60°)	13081.4	49.0			
FH	(60°-80°)	9661.2	36.2			G4/12000
FVH	(80°-90°)	215.0	0.8			G2/225
BL	(0°-30°)	536.0	2.0	B2/1000		
BM	(30°-60°)	639.0	2.4	B1/1000		
BH	(60°-80°)	422.3	1.6	B1/500		G1/500
BVH	(80°-90°)	5.3	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4
2.5°	3578.4	3563.2	3556.8	3528.9	3480.7	3443.9	3372.8	3290.3	3275.1	3195.2	3097.5
5°	4042.8	4030.1	4021.3	3981.9	3932.4	3839.8	3710.4	3556.8	3527.6	3375.4	3179.9
7.5°	4366.4	4389.2	4389.2	4363.9	4301.7	4231.9	4073.3	3863.9	3827.1	3593.6	3290.3
10°	4555.5	4583.4	4605.0	4626.5	4617.7	4589.7	4440.0	4204.0	4159.6	3849.9	3418.5
12.5°	4573.2	4601.2	4662.1	4752.2	4839.7	4903.2	4809.3	4580.9	4530.1	4146.9	3570.8
15°	4474.3	4503.4	4597.3	4772.5	4984.4	5169.6	5200.1	4998.3	4946.3	4500.9	3761.1
17.5°	4301.7	4320.7	4455.2	4697.6	5030.1	5370.1	5554.1	5446.3	5398.0	4905.7	3973.0
20°	4173.5	4187.5	4305.5	4565.6	5002.1	5495.8	5889.1	5922.1	5871.4	5339.7	4202.7
22.5°	4393.1	4418.4	4422.2	4545.3	4926.0	5557.9	6183.5	6390.4	6352.3	5800.3	4428.6
25°	4993.3	5022.4	4926.0	4849.9	4990.7	5585.8	6436.0	6870.0	6839.6	6296.5	4655.7
27.5°	5786.3	5816.8	5692.4	5465.3	5329.5	5691.2	6660.6	7357.3	7356.0	6821.8	4900.6
30°	6565.5	6595.9	6469.0	6241.9	5929.7	5989.4	6854.8	7867.4	7875.0	7363.6	5160.8
32.5°	7382.7	7420.7	7290.0	6998.2	6672.1	6504.6	7127.6	8380.0	8423.2	7991.7	5453.9
35°	8311.5	8316.6	8132.6	7826.8	7451.2	7193.6	7565.4	8954.9	9057.7	8769.6	5825.7
37.5°	9222.6	9259.4	9108.4	8626.2	8281.1	7989.2	8216.3	9673.1	9819.0	9720.0	6311.7
40°	9897.7	9975.1	9953.5	9433.3	9105.9	8897.8	9024.7	10527.1	10712.3	10826.5	6924.6
42.5°	10321.5	10379.9	10478.9	10165.4	9868.5	9902.8	9978.9	11521.9	11750.3	12087.9	7628.8
45°	10807.5	10835.4	10917.9	10779.6	10579.1	10924.3	10991.5	12642.4	12882.2	13444.4	8410.5
47.5°	11401.4	11467.4	11490.2	11363.3	11271.9	11827.7	11967.3	13661.3	13997.6	14897.3	9237.8
50°	12157.7	12175.4	12214.8	12132.3	12040.9	12604.3	12842.9	14731.1	15036.9	16355.3	10053.8
52.5°	12897.4	12960.9	13097.9	13045.9	13009.1	13265.4	13623.3	15695.4	16036.8	17570.9	10868.4
55°	13110.6	13165.2	13638.5	13962.1	14261.6	14080.1	14369.4	16559.6	16928.9	18657.1	11652.6
57.5°	12259.2	12369.6	13189.3	14031.9	15274.2	15346.5	15394.7	17446.6	17777.8	19489.6	12468.5
60°	10107.1	10128.6	11473.7	12919.0	15106.7	16451.7	16892.1	18399.5	18677.4	20264.9	13445.6
62.5°	6428.4	6647.9	8123.7	10164.2	13335.2	16291.8	18702.8	19841.1	19942.6	21195.0	14846.5
65°	3061.9	3204.1	4267.4	6280.0	9659.1	14245.1	19952.7	22448.7	22494.4	23038.8	16718.2
67.5°	1695.3	1763.8	2270.1	3380.4	5646.8	10074.1	19447.7	25537.3	25580.4	24921.9	18360.2
69°	1326.0	1384.4	1782.9	2548.0	3828.4	7240.5	17598.8	26442.1	26570.2	25461.2	18418.6
70°	1125.5	1182.6	1535.4	2152.1	3078.4	5594.7	15665.0	26217.5	26353.2	25410.4	17983.3
72.5°	689.0	722.0	1022.8	1515.1	2063.3	2814.5	9660.4	22172.1	22401.8	23309.1	15455.6
75°	464.4	482.2	639.5	1045.6	1475.8	1449.1	5018.6	15628.2	16125.6	18131.8	11415.3
77.5°	332.5	349.0	428.9	676.3	1034.2	956.8	2272.7	9712.4	9819.0	10874.8	6225.4
80°	189.1	204.3	303.3	402.3	701.7	638.3	903.5	4639.2	4692.5	4663.3	2078.5
82.5°	99.0	111.7	166.2	265.2	450.5	417.5	375.6	1553.2	1560.8	1298.1	455.5
85°	19.0	22.8	82.5	181.5	232.2	181.5	153.5	364.2	371.8	328.7	112.9
87.5°	0.0	1.3	33.0	40.6	45.7	47.0	49.5	71.1	76.1	102.8	30.5
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°	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4
2.5°	3054.3	3008.6	2921.1	2819.6	2740.9	2663.5	2602.6	2539.1	2516.3	2504.9	2503.6
5°	3084.8	2988.3	2803.1	2612.7	2456.7	2309.5	2204.1	2103.9	2056.9	2035.4	2026.5
7.5°	3135.5	2980.7	2682.5	2391.9	2167.3	1983.3	1837.4	1728.3	1673.7	1650.9	1642.0
10°	3195.2	2970.6	2541.7	2158.5	1871.7	1681.3	1536.7	1428.8	1369.2	1343.8	1331.1
12.5°	3265.0	2952.8	2379.3	1922.4	1619.2	1428.8	1253.7	1120.5	1051.9	1022.8	1008.8
15°	3351.3	2935.0	2209.2	1700.4	1397.1	1164.9	973.3	883.2	869.2	864.1	865.4
17.5°	3436.3	2907.1	2024.0	1480.8	1163.6	909.8	812.1	807.0	809.6	809.6	809.6
20°	3512.4	2843.7	1822.2	1293.0	941.5	767.7	747.4	738.5	732.2	727.1	720.8
22.5°	3572.1	2758.7	1628.0	1106.5	769.0	703.0	671.3	643.3	620.5	605.3	597.7
25°	3612.7	2645.7	1450.4	927.6	691.6	639.5	582.4	535.5	500.0	478.4	469.5
27.5°	3643.1	2523.9	1291.8	776.6	638.3	565.9	491.1	435.2	398.4	379.4	371.8
30°	3664.7	2385.6	1152.2	682.7	578.6	488.5	408.6	354.0	327.4	317.2	312.2
32.5°	3685.0	2232.1	1020.2	638.3	522.8	417.5	342.6	300.7	284.2	271.6	267.7
35°	3735.7	2089.9	894.6	591.3	465.7	356.6	294.4	263.9	247.4	239.8	237.3
37.5°	3856.3	1984.6	774.0	543.1	408.6	308.4	257.6	236.0	220.8	213.2	210.6
40°	4050.4	1931.3	672.5	491.1	352.8	271.6	233.5	213.2	196.7	185.3	182.7
42.5°	4335.9	1938.9	601.5	439.1	308.4	242.4	210.6	186.5	168.8	158.6	156.1
45°	4682.4	1994.8	552.0	388.3	271.6	219.5	185.3	159.9	143.4	134.5	132.0
47.5°	5058.0	2084.9	511.4	342.6	242.4	198.0	159.9	133.2	119.3	111.7	110.4
50°	5453.9	2172.4	469.5	298.2	217.0	176.4	134.5	110.4	99.0	92.6	90.1
52.5°	5854.9	2273.9	431.4	257.6	195.4	151.0	111.7	90.1	81.2	76.1	73.6
55°	6286.3	2350.1	394.6	225.9	173.8	128.2	92.6	74.9	67.3	60.9	59.6
57.5°	6793.9	2468.1	356.6	195.4	148.5	106.6	76.1	59.6	53.3	47.0	45.7
60°	7479.1	2606.4	316.0	172.6	121.8	87.6	62.2	48.2	40.6	35.5	34.3
62.5°	8382.6	2759.9	265.2	151.0	99.0	71.1	49.5	38.1	29.2	22.8	22.8
65°	9528.4	3009.9	217.0	126.9	81.2	58.4	38.1	27.9	16.5	10.2	10.2
67.5°	10197.2	3053.1	175.1	104.1	66.0	49.5	31.7	19.0	5.1	1.3	0.0
69°	9982.7	2803.1	148.5	88.8	57.1	47.0	29.2	14.0	2.5	0.0	0.0
70°	9579.2	2563.2	130.7	78.7	52.0	44.4	27.9	10.2	2.5	0.0	0.0
72.5°	7915.6	1824.7	99.0	58.4	38.1	39.3	25.4	6.3	2.5	0.0	0.0
75°	5766.0	1109.0	71.1	40.6	24.1	29.2	17.8	2.5	1.3	0.0	0.0
77.5°	3207.9	522.8	44.4	22.8	15.2	17.8	8.9	0.0	0.0	0.0	0.0
80°	1041.8	142.1	20.3	12.7	8.9	10.2	3.8	0.0	0.0	0.0	0.0
82.5°	192.9	40.6	11.4	6.3	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.9	16.5	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	5.1	1.3	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)