

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: P318663

Luminaire Tested: **GAN-SA9D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58357 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

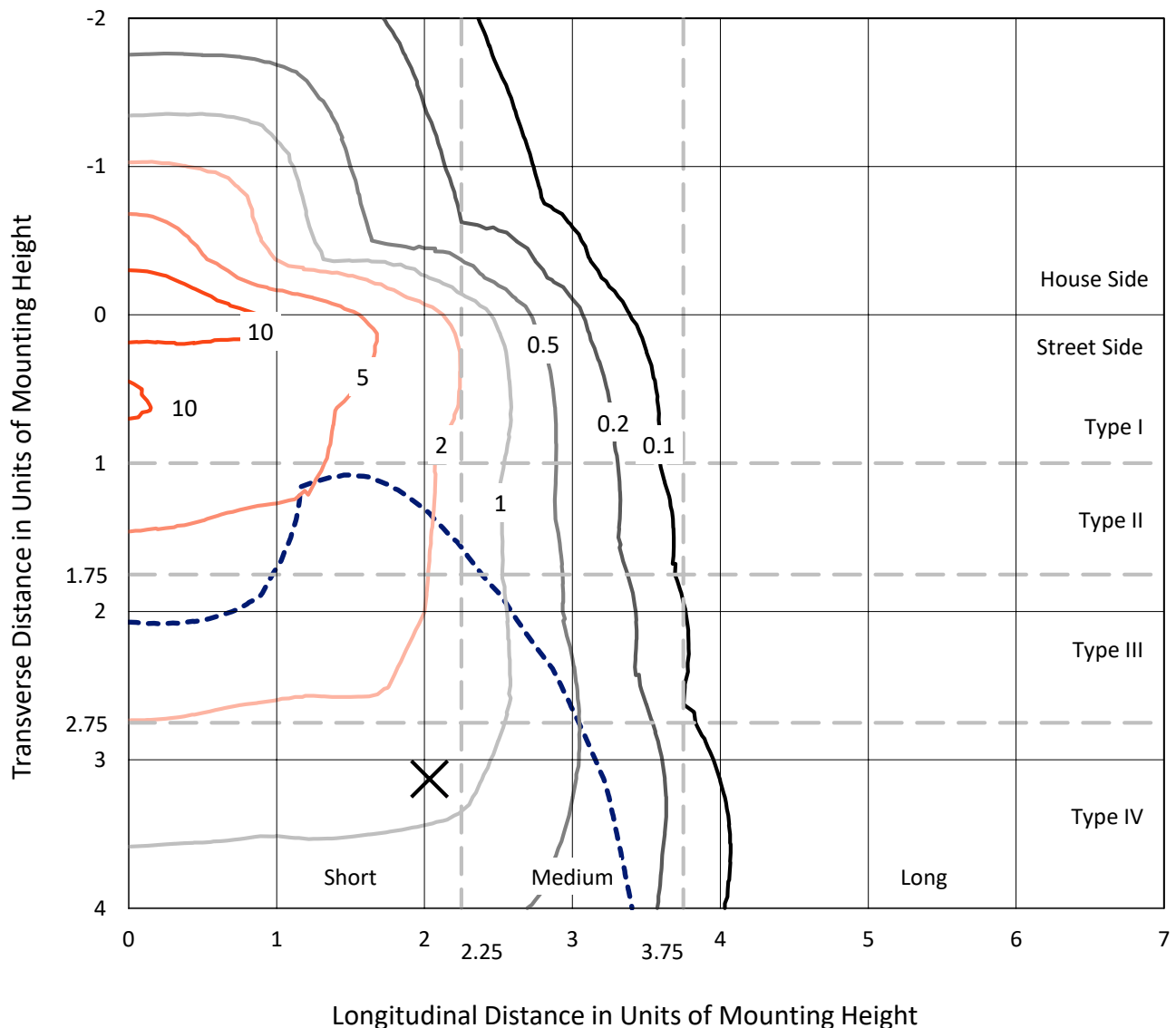
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

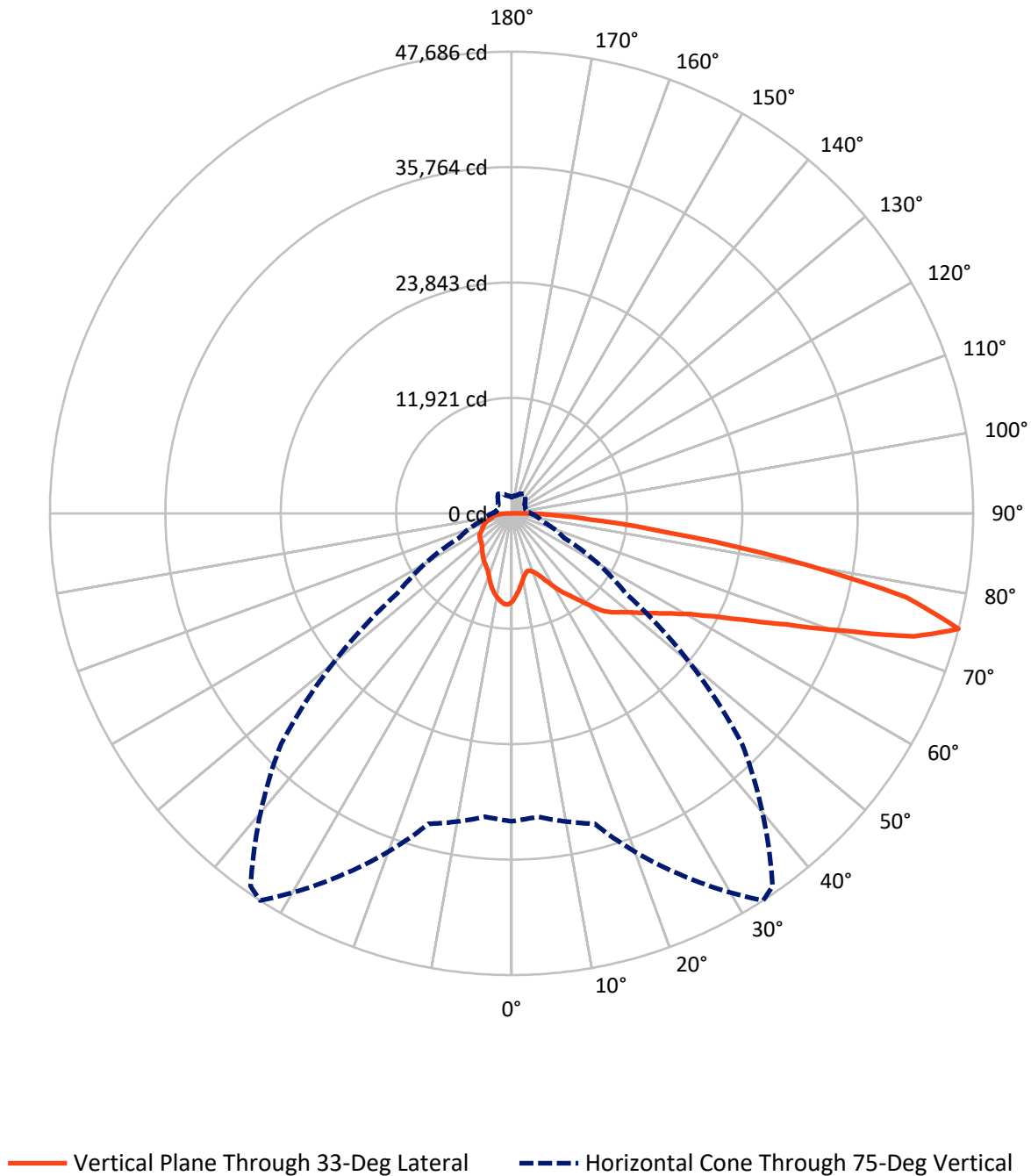
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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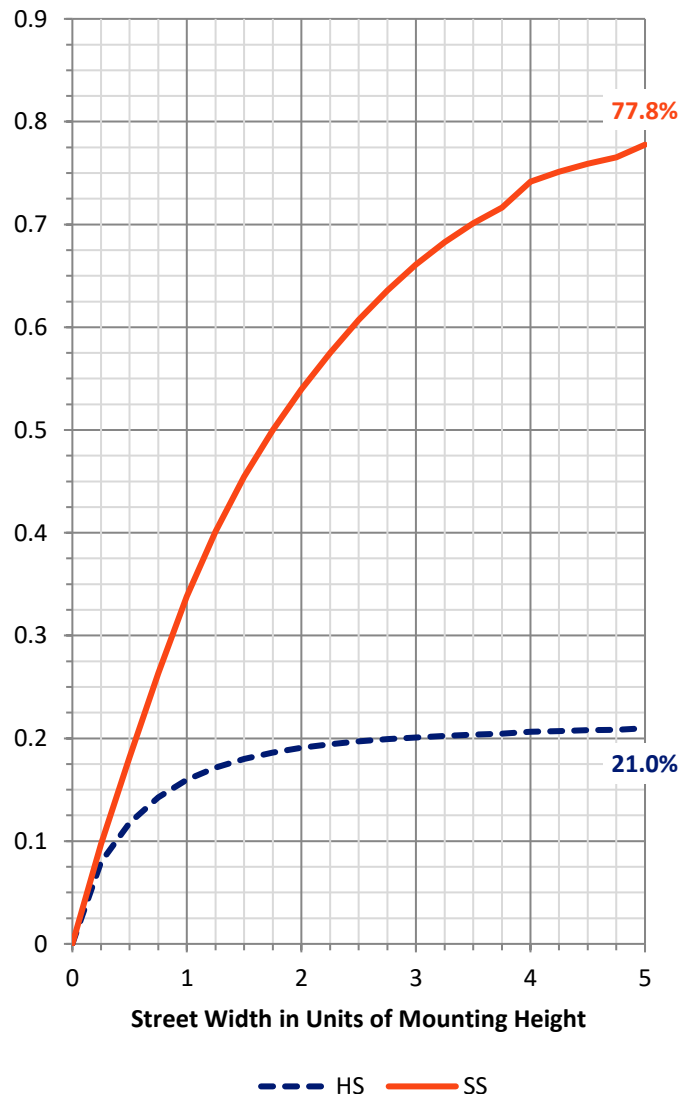
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12530.8	0.0	12530.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	45826.2	0.0	45826.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	58357.0	0.0	58357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	1.4
10°-20°	2234.2	3.8
20°-30°	3648.9	6.3
30°-40°	5434.0	9.3
40°-50°	7793.8	13.4
50°-60°	10699.7	18.3
60°-70°	13395.6	23.0
70°-80°	12118.4	20.8
80°-90°	2207.4	3.8
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°	58357.0	100.0
0°-180°	58357.0	100.0

Coefficient of Utilization



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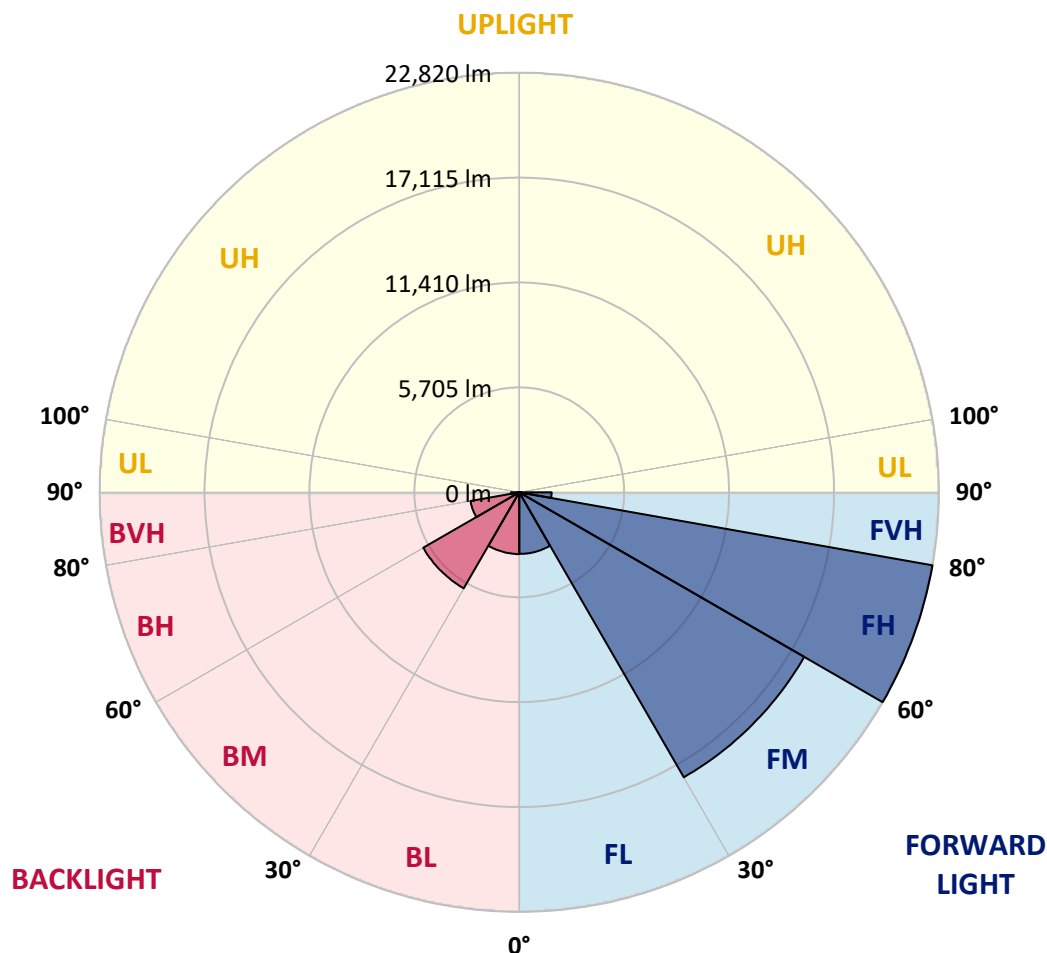
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3351.7	5.7			
FM	(30°-60°)	17896.9	30.7			
FH	(60°-80°)	22819.6	39.1			G5
FVH	(80°-90°)	1758.0	3.0			G5
BL	(0°-30°)	3356.3	5.8	B4/5000		
BM	(30°-60°)	6030.7	10.3	B4/8500		
BH	(60°-80°)	2694.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	449.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5
2.5°	8470.4	8438.2	8498.6	8506.7	8559.1	8579.3	8651.8	8764.7	8857.5	8964.3	9061.1
5°	7702.4	7680.2	7764.9	7825.4	7940.3	7988.6	8160.0	8399.9	8613.5	8855.4	9075.2
7.5°	6972.7	6960.6	7055.3	7192.4	7325.4	7392.0	7688.3	8037.0	8393.8	8784.9	9121.5
10°	6357.9	6353.8	6444.5	6579.6	6775.1	6849.7	7232.7	7692.3	8192.2	8730.5	9200.1
12.5°	6013.2	6027.3	6069.6	6182.5	6363.9	6438.5	6863.8	7404.1	8022.9	8712.3	9315.0
15°	6097.8	6120.0	6047.4	6043.4	6172.4	6230.9	6630.0	7198.4	7902.0	8742.6	9482.4
17.5°	6458.6	6462.7	6271.2	6150.2	6228.8	6259.1	6557.4	7081.5	7831.4	8811.1	9692.0
20°	6966.6	6956.5	6617.9	6416.3	6458.6	6466.7	6660.2	7083.5	7825.4	8930.0	9964.1
22.5°	7639.9	7565.3	7109.8	6835.6	6825.5	6813.4	6924.3	7232.7	7914.1	9123.5	10288.7
25°	8518.8	8448.2	7821.3	7446.4	7365.8	7335.5	7351.6	7551.2	8089.4	9331.2	10651.5
27.5°	9496.5	9373.5	8768.8	8238.6	8071.3	8029.0	7932.2	8000.7	8280.9	9530.7	11082.9
30°	10314.9	10248.4	9720.2	9091.3	8893.7	8833.3	8579.3	8504.7	8557.1	9802.9	11627.2
32.5°	10772.5	10728.1	10407.6	9899.6	9716.2	9631.5	9272.7	9123.5	9000.6	10232.2	12365.0
35°	11326.8	11298.6	11105.1	10736.2	10464.1	10375.4	10097.2	9942.0	9625.5	10822.9	13318.4
37.5°	12032.4	12002.1	12006.1	11707.8	11383.3	11300.6	11117.2	10953.9	10435.8	11599.0	14354.6
40°	12830.6	12772.2	12750.0	12735.9	12530.3	12483.9	12387.1	12165.4	11451.8	12526.2	15376.6
42.5°	14032.0	13824.4	13380.9	13548.2	13751.8	13727.6	13806.3	13487.8	12580.7	13622.8	16374.4
45°	15191.1	14850.4	14084.4	14120.7	14566.2	14701.3	15289.9	15064.1	13804.2	14824.2	17406.5
47.5°	15719.3	15461.2	14810.1	14812.1	15253.6	15533.8	16823.9	16662.7	15090.3	16188.9	18666.4
50°	16309.9	16051.9	15467.3	15687.0	16072.0	16370.4	18305.5	18222.9	16313.9	17682.7	20176.2
52.5°	16955.0	16517.5	16146.6	16539.7	17079.9	17426.7	19789.2	19563.4	17436.7	19186.5	21911.8
55°	16963.0	16844.1	17126.3	17414.6	18222.9	18648.2	21343.4	20746.7	18351.9	20664.0	23324.9
57.5°	17928.6	17735.1	18333.8	18466.8	19523.1	20002.9	22889.5	21776.8	19283.2	21796.9	24086.9
60°	19206.6	19041.3	19531.2	19881.9	21131.7	21772.7	24540.4	22835.1	20014.9	22651.6	24050.6
62.5°	21413.9	21226.4	21220.4	21712.3	23395.5	24141.3	26393.0	23873.2	20305.2	22821.0	23024.5
65°	24645.3	24346.9	23784.5	24018.3	26522.0	27265.8	28463.2	24625.1	19922.2	21913.8	20381.8
67.5°	27789.9	27779.8	27088.4	27568.2	30650.3	31247.0	30821.7	24699.7	18726.8	18755.1	15693.1
70°	30924.5	30964.8	30847.9	32517.0	36228.1	36849.0	33333.4	23697.8	16039.8	13544.2	9401.7
72.5°	33408.0	33397.9	33986.5	38290.3	43466.8	43327.8	35450.0	20662.0	11516.3	7311.3	4493.2
75°	31799.4	31448.6	33202.4	41148.7	47685.9	47006.6	33649.9	14413.0	5976.9	3328.1	2419.0
77.5°	20740.6	21073.2	23647.4	33992.6	41711.1	40884.6	24687.6	6724.7	2816.1	2183.1	1753.8
80°	7510.9	7861.6	11072.8	19255.0	28737.3	28602.3	12157.3	2763.7	1904.9	1648.9	1278.0
82.5°	2584.3	2713.3	4368.3	8551.1	16225.2	16830.0	4573.9	1570.3	1384.9	1169.2	874.9
85°	1014.0	1161.1	1997.7	4114.3	8184.2	8244.7	1852.5	939.4	963.6	766.0	479.8
87.5°	385.0	467.7	955.5	1911.0	3737.3	3432.9	663.2	447.5	548.3	455.6	227.8
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°	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5	9121.5
2.5°	9135.6	9178.0	9266.7	9327.1	9391.6	9409.8	9417.8	9434.0	9450.1	9444.1	9446.1
5°	9192.1	9274.7	9417.8	9478.3	9506.5	9474.3	9411.8	9361.4	9325.1	9305.0	9298.9
7.5°	9284.8	9401.7	9554.9	9544.8	9480.3	9337.2	9176.0	9055.0	8954.2	8917.9	8897.8
10°	9407.8	9544.8	9651.7	9536.8	9349.3	9101.4	8859.5	8672.0	8520.8	8462.4	8452.3
12.5°	9565.0	9704.1	9724.3	9480.3	9169.9	8831.3	8502.7	8254.7	8029.0	7956.4	7940.3
15°	9768.6	9899.6	9774.6	9381.6	8948.2	8492.6	8067.3	7730.6	7492.8	7404.1	7371.8
17.5°	9982.3	10107.3	9784.7	9218.3	8657.9	8091.4	7557.3	7212.6	6940.4	6837.6	6825.5
20°	10238.3	10294.7	9742.4	8984.5	8258.8	7571.4	7009.0	6684.4	6539.3	6466.7	6458.6
22.5°	10554.8	10494.3	9645.6	8668.0	7752.8	6970.7	6513.1	6361.9	6325.6	6309.5	6315.5
25°	10889.4	10703.9	9502.5	8254.7	7113.8	6369.9	6150.2	6192.6	6240.9	6234.9	6234.9
27.5°	11258.3	10917.6	9282.8	7706.4	6406.2	5878.1	5904.3	6059.5	6132.1	6130.1	6128.1
30°	11732.0	11159.5	9002.6	7047.3	5745.0	5531.4	5690.6	5880.1	5978.9	5974.9	5976.9
32.5°	12314.6	11425.6	8621.6	6311.5	5267.3	5275.4	5458.8	5646.3	5761.2	5751.1	5753.1
35°	12995.9	11723.9	8105.6	5585.8	4950.8	5071.8	5216.9	5347.9	5456.8	5442.7	5428.6
37.5°	13737.7	12016.2	7420.2	4936.7	4692.8	4882.3	5003.2	5025.4	5075.8	5039.5	5013.3
40°	14443.3	12240.0	6537.3	4404.5	4432.8	4721.0	4799.6	4710.9	4620.2	4608.1	4571.9
42.5°	15058.1	12314.6	5644.3	3979.2	4158.6	4551.7	4600.1	4414.6	4251.3	4174.7	4142.5
45°	15707.2	12340.8	4811.7	3622.4	3894.5	4400.5	4452.9	4205.0	3975.2	3809.9	3755.4
47.5°	16555.8	12530.3	4164.7	3358.3	3693.0	4299.7	4374.3	4037.7	3739.3	3503.5	3453.1
50°	17666.5	12905.2	3638.5	3156.8	3561.9	4233.2	4317.9	3874.4	3545.8	3261.6	3211.2
52.5°	18900.2	13249.9	3213.2	2993.5	3434.9	4116.3	4245.3	3757.5	3364.4	3037.8	2983.4
55°	19763.0	12985.8	2870.5	2824.1	3269.6	3949.0	4144.5	3658.7	3104.3	2820.1	2771.7
57.5°	19928.3	12082.7	2610.5	2648.8	3070.1	3739.3	3989.3	3439.0	2963.2	2725.4	2675.0
60°	19476.7	10824.9	2417.0	2487.5	2856.4	3475.3	3699.0	3283.7	2828.2	2624.6	2582.2
62.5°	18341.8	9536.8	2273.8	2342.4	2656.8	3207.1	3517.6	3120.5	2691.1	2509.7	2467.3
65°	16049.9	8006.8	2136.8	2213.4	2471.4	2975.3	3354.3	2969.3	2556.0	2417.0	2376.6
67.5°	12115.0	5997.0	2007.7	2076.3	2306.1	2773.8	3176.9	2820.1	2425.0	2336.3	2287.9
70°	7133.9	3755.4	1860.6	1933.2	2132.7	2564.1	2987.4	2656.8	2261.7	2221.4	2158.9
72.5°	3320.0	2259.7	1693.3	1763.8	1915.0	2283.9	2743.5	2443.2	2068.2	1979.5	1894.9
75°	1981.5	1653.0	1495.7	1558.2	1665.1	1985.6	2437.1	2225.5	1884.8	1767.9	1679.2
77.5°	1481.6	1263.9	1278.0	1344.5	1431.2	1737.6	2158.9	2054.1	1743.7	1653.0	1592.5
80°	1066.4	959.5	1042.2	1114.7	1205.5	1580.4	2068.2	1898.9	1576.4	1455.4	1399.0
82.5°	711.6	689.4	784.1	858.7	947.4	1382.8	1943.2	1663.0	1346.6	1193.4	1068.4
85°	393.1	415.3	528.1	560.4	637.0	973.6	1592.5	1336.5	1014.0	816.4	780.1
87.5°	163.3	191.5	284.2	274.1	338.7	580.6	1048.2	806.3	645.1	481.8	374.9
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)