

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: P458365

Luminaire Tested: **GLAN-SA9D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 63728 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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

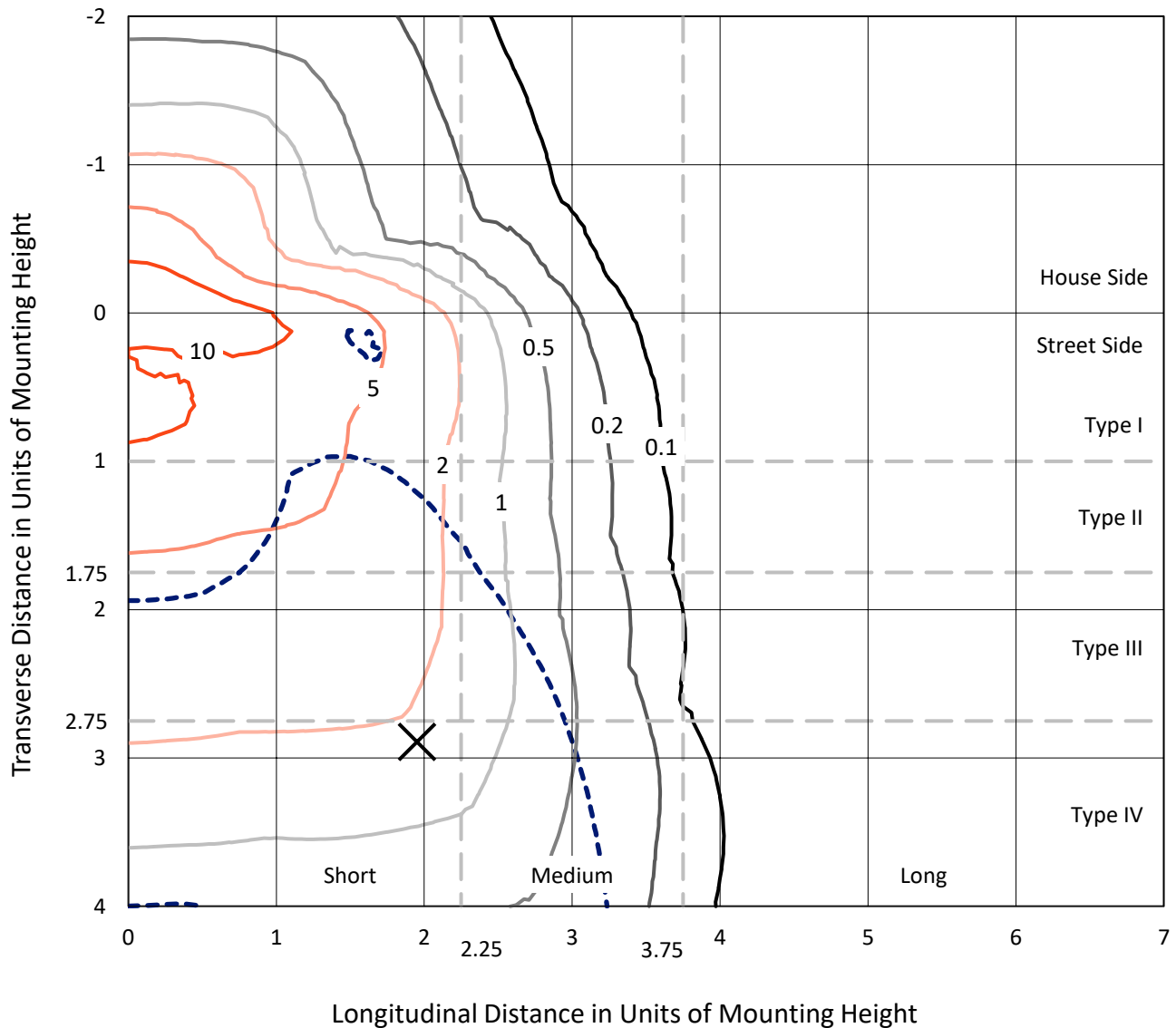


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

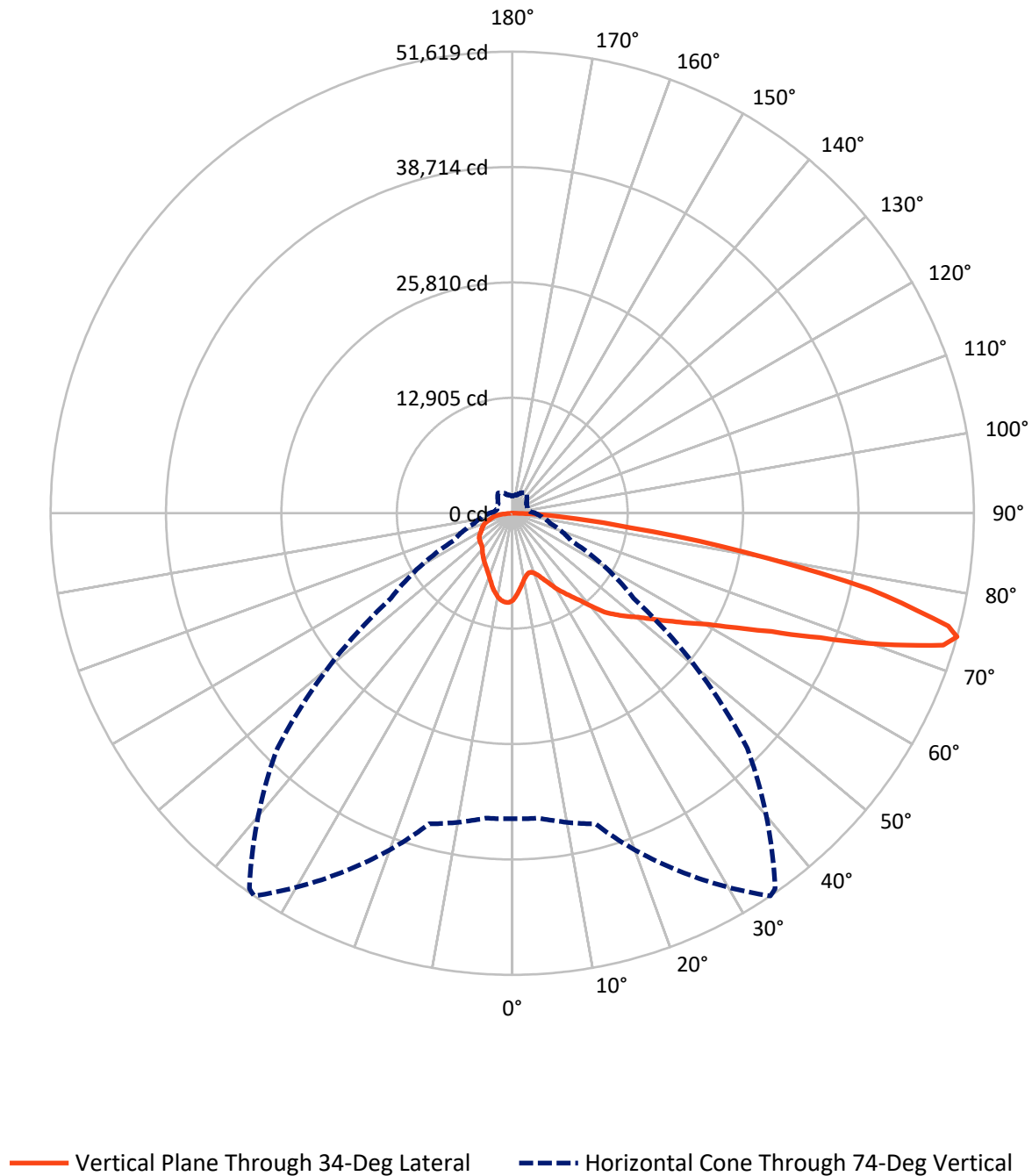


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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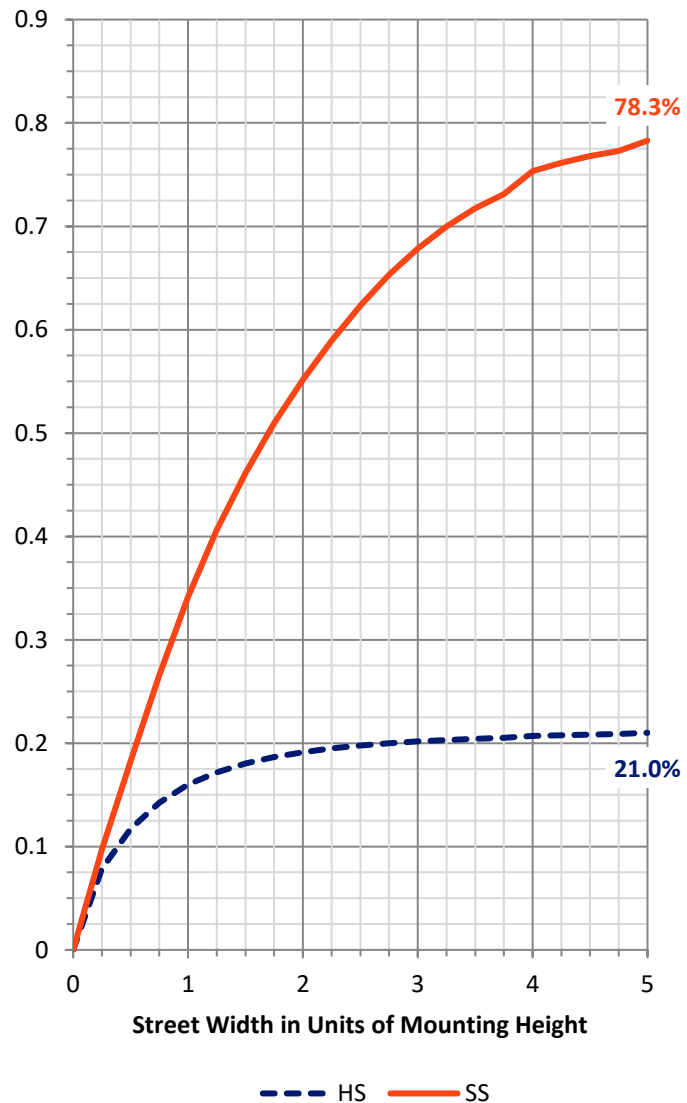
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13561.8	0.0	13561.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	50166.2	0.0	50166.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	63728.0	0.0	63728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.9	1.4
10°-20°	2422.4	3.8
20°-30°	3993.9	6.3
30°-40°	5982.4	9.4
40°-50°	8696.7	13.6
50°-60°	12147.3	19.1
60°-70°	15207.8	23.9
70°-80°	12575.6	19.7
80°-90°	1817.1	2.9
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°	63728.0	100.0
0°-180°	63728.0	100.0

Coefficient of Utilization



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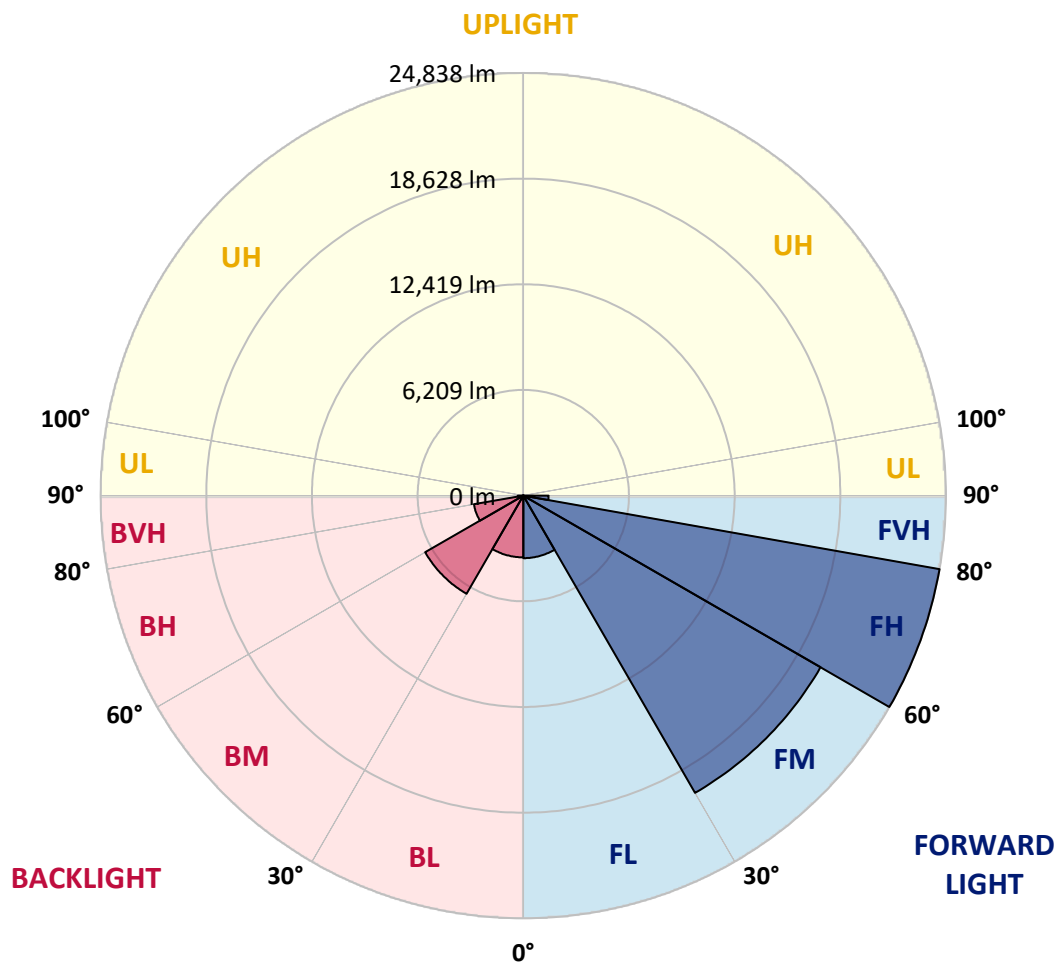
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3673.6	5.8			
FM	(30°-60°)	20166.2	31.6			
FH	(60°-80°)	24837.8	39.0			G5
FVH	(80°-90°)	1488.6	2.3			G5
BL	(0°-30°)	3627.6	5.7	B4/5000		
BM	(30°-60°)	6660.2	10.5	B4/8500		
BH	(60°-80°)	2945.5	4.6	B4/5000		G4/5000
BVH	(80°-90°)	328.5	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0
2.5°	8992.1	9038.0	9062.7	9151.0	9172.2	9200.4	9274.6	9373.4	9500.5	9613.5	9712.4
5°	8243.7	8314.3	8356.6	8434.3	8586.1	8600.3	8798.0	9023.9	9281.6	9521.7	9719.4
7.5°	7534.0	7611.7	7647.0	7788.2	7989.5	8021.3	8310.8	8667.3	9098.0	9461.7	9765.3
10°	7000.9	7039.8	7117.4	7223.4	7463.4	7484.6	7862.4	8339.0	8896.8	9433.4	9843.0
12.5°	6711.4	6732.6	6750.3	6863.3	7099.8	7131.6	7527.0	8067.1	8737.9	9454.6	9970.1
15°	6753.8	6760.9	6683.2	6704.4	6895.0	6940.9	7332.8	7887.1	8639.1	9507.6	10160.7
17.5°	7110.4	7085.7	6895.0	6796.2	6930.3	6951.5	7294.0	7816.5	8593.2	9606.4	10358.4
20°	7671.7	7636.4	7308.1	7089.2	7166.9	7184.5	7421.1	7869.4	8639.1	9768.8	10665.6
22.5°	8370.8	8356.6	7858.9	7594.1	7590.5	7590.5	7714.1	8060.1	8776.8	9991.3	10986.9
25°	9348.7	9274.6	8625.0	8282.5	8187.2	8180.1	8166.0	8374.3	8953.3	10227.8	11368.1
27.5°	10351.4	10224.3	9645.3	9119.2	8914.5	8889.8	8798.0	8819.1	9179.3	10496.1	11802.4
30°	11251.6	11170.4	10626.7	10044.2	9800.6	9744.1	9489.9	9373.4	9557.0	10979.8	12494.4
32.5°	11940.1	11890.7	11467.0	10937.4	10577.3	10566.7	10196.0	10100.7	10146.6	11565.9	13285.2
35°	12497.9	12515.6	12300.2	11841.2	11428.2	11368.1	11121.0	11001.0	10866.8	12413.2	14280.8
37.5°	13260.5	13299.3	13285.2	12889.8	12384.9	12399.0	12342.6	12144.9	11788.3	13359.3	15385.8
40°	14100.7	14129.0	14125.5	13973.6	13708.9	13723.0	13701.8	13475.8	12942.7	14563.2	16614.4
42.5°	15262.3	15128.1	14778.6	14930.4	15085.7	15152.8	15297.6	15082.2	14351.4	15848.3	17768.9
45°	16561.5	16307.3	15516.5	15587.1	16162.5	16289.6	17087.5	16791.0	15880.1	17324.1	19128.1
47.5°	17380.6	17129.9	16462.6	16448.5	17211.1	17334.7	18746.9	18637.4	17271.1	18916.3	20787.5
50°	18111.4	18076.1	17324.1	17504.1	18249.1	18432.6	20554.5	20452.1	18658.6	20794.5	22595.1
52.5°	19195.2	18909.3	18309.1	18679.8	19664.8	19904.9	22347.9	22047.9	19933.1	22453.9	24349.7
55°	19682.4	19615.4	19580.0	19901.3	21253.5	21426.5	24092.0	23403.6	21020.5	23859.0	25684.2
57.5°	20985.2	20861.6	21211.1	21430.0	23124.6	23389.4	25913.7	24819.3	21973.7	24974.6	26333.9
60°	22672.7	22605.7	22926.9	23322.4	25214.7	25617.2	27989.7	26026.7	22739.8	25536.0	25977.3
62.5°	25193.5	25186.5	25126.4	25973.7	28176.8	28547.5	30372.7	27202.4	22859.9	25115.8	24134.4
65°	28808.7	28681.6	28159.1	29084.1	31862.6	32296.8	32854.7	27859.0	22136.1	22958.7	20321.4
67.5°	32589.9	32582.8	32159.2	33359.5	37154.8	37603.2	35957.9	27714.3	20127.3	18598.6	14432.6
70°	35724.9	35573.1	36113.3	39311.9	43915.7	44434.6	38672.9	26009.1	16031.9	12282.5	8575.5
72.5°	36476.9	36484.0	37606.7	43901.5	50408.2	50489.4	39650.8	21080.5	10729.1	6775.0	4289.5
74°	34160.9	34221.0	35961.5	44131.0	51619.2	51252.0	37151.2	16568.5	7255.1	4423.7	3092.7
75°	31181.2	30803.4	33320.7	42602.3	50362.3	49966.9	34224.5	13295.8	5535.8	3534.0	2707.9
77.5°	16670.9	17055.8	20939.3	31792.0	40914.7	40459.3	23205.9	6376.0	2990.3	2460.7	1948.8
80°	5934.7	6545.5	9200.4	16635.6	26231.5	26372.7	11075.1	2923.2	2104.2	1814.7	1376.9
82.5°	2421.9	2489.0	3950.6	7382.2	13320.5	13447.6	4522.5	1737.0	1504.0	1249.8	822.6
85°	946.2	974.4	1747.6	3318.7	5684.1	6054.8	1564.0	917.9	925.0	716.7	420.1
87.5°	317.7	360.1	716.7	1105.0	1931.2	1892.3	455.4	271.8	331.9	310.7	130.6
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°	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0
2.5°	9761.8	9828.9	9874.8	9924.2	9970.1	9984.2	9973.6	10005.4	10008.9	10012.4	10016.0
5°	9818.3	9910.1	9998.3	10047.7	10068.9	10051.3	9991.3	9959.5	9931.2	9910.1	9917.1
7.5°	9895.9	10026.6	10107.8	10128.9	10072.5	9991.3	9843.0	9726.5	9652.3	9602.9	9599.4
10°	10016.0	10143.1	10210.2	10150.1	9994.8	9797.1	9564.1	9345.2	9179.3	9129.8	9126.3
12.5°	10167.8	10312.5	10309.0	10132.5	9860.6	9507.6	9129.8	8875.6	8649.7	8536.7	8582.6
15°	10365.5	10474.9	10372.6	10054.8	9624.1	9140.4	8674.4	8328.4	8074.2	7954.2	7961.2
17.5°	10595.0	10690.3	10418.4	9917.1	9292.2	8670.9	8130.7	7802.4	7601.1	7512.9	7505.8
20°	10880.9	10909.2	10418.4	9677.0	8865.0	8123.6	7608.2	7378.7	7265.7	7219.8	7234.0
22.5°	11188.1	11131.6	10362.0	9338.1	8303.7	7551.7	7205.7	7103.3	7046.8	7039.8	7046.8
25°	11534.1	11375.2	10245.5	8879.2	7717.6	7057.4	6856.2	6873.8	6884.4	6884.4	6909.2
27.5°	11957.7	11640.0	10051.3	8300.2	7032.7	6598.5	6542.0	6665.5	6722.0	6732.6	6750.3
30°	12515.6	11929.5	9730.0	7576.4	6450.2	6185.4	6284.3	6450.2	6513.7	6552.6	6545.5
32.5°	13179.3	12247.2	9295.8	6852.7	5980.6	5895.9	6015.9	6185.4	6256.0	6277.2	6249.0
35°	13959.5	12607.3	8723.8	6174.8	5571.1	5620.5	5761.7	5814.7	5878.3	5878.3	5892.4
37.5°	14799.8	12896.8	8024.8	5553.4	5253.4	5433.4	5535.8	5486.4	5458.1	5422.8	5440.5
40°	15654.2	13112.2	7117.4	4939.1	4935.6	5239.2	5267.5	5126.3	5013.3	4978.0	4960.3
42.5°	16399.1	13246.4	6298.4	4462.5	4635.5	5048.6	5069.8	4843.8	4663.8	4557.9	4522.5
45°	17278.2	13401.7	5497.0	4067.1	4356.6	4896.8	4949.7	4646.1	4381.3	4158.9	4102.4
47.5°	18482.1	13754.8	4865.0	3760.0	4155.4	4801.5	4875.6	4483.7	4134.2	3844.7	3798.8
50°	19841.3	14238.4	4374.3	3551.7	4000.0	4716.7	4808.5	4317.8	3904.7	3583.4	3548.1
52.5°	21087.6	14499.7	3950.6	3364.5	3848.2	4561.4	4720.3	4197.7	3678.8	3322.2	3290.4
55°	21768.9	14076.0	3534.0	3181.0	3639.9	4360.1	4596.7	4031.8	3459.9	3184.5	3138.6
57.5°	21860.7	13200.5	3156.2	2983.3	3421.0	4113.0	4367.2	3830.6	3318.7	3089.2	3050.3
60°	21151.1	11894.2	2863.2	2820.9	3198.6	3834.1	4109.5	3654.0	3173.9	2983.3	2944.4
62.5°	19385.9	10474.9	2658.5	2672.6	2972.7	3541.1	3918.8	3484.6	3036.2	2866.8	2831.4
65°	16349.7	8646.1	2460.7	2520.8	2771.4	3311.6	3745.8	3343.4	2898.5	2778.5	2746.7
67.5°	11357.6	6241.9	2298.3	2361.9	2580.8	3078.6	3544.6	3191.6	2743.2	2679.6	2630.2
70°	6287.8	3841.2	2107.7	2181.8	2383.1	2817.3	3318.7	2962.1	2517.2	2489.0	2418.4
72.5°	3304.5	2446.6	1892.3	1973.5	2114.8	2481.9	2972.7	2711.4	2294.8	2174.8	2083.0
74°	2580.8	2005.3	1747.6	1832.3	1927.6	2284.2	2767.9	2531.4	2135.9	1994.7	1924.1
75°	2248.9	1786.4	1624.0	1733.5	1818.2	2150.1	2609.0	2404.3	2047.7	1913.5	1850.0
77.5°	1588.7	1338.1	1327.5	1458.1	1504.0	1885.3	2351.3	2188.9	1825.3	1684.0	1624.0
80°	1115.6	1002.7	1052.1	1133.3	1196.8	1666.4	2181.8	1892.3	1496.9	1331.0	1309.8
82.5°	727.3	656.7	752.0	826.1	847.3	1228.6	1761.7	1436.9	1090.9	886.2	822.6
85°	335.4	328.3	430.7	420.1	416.6	600.2	1045.0	840.3	628.4	469.6	441.3
87.5°	84.7	81.2	105.9	88.3	105.9	91.8	95.3	24.7	3.5	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)