

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: P319802

Luminaire Tested: **GAN-SA8B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33671 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

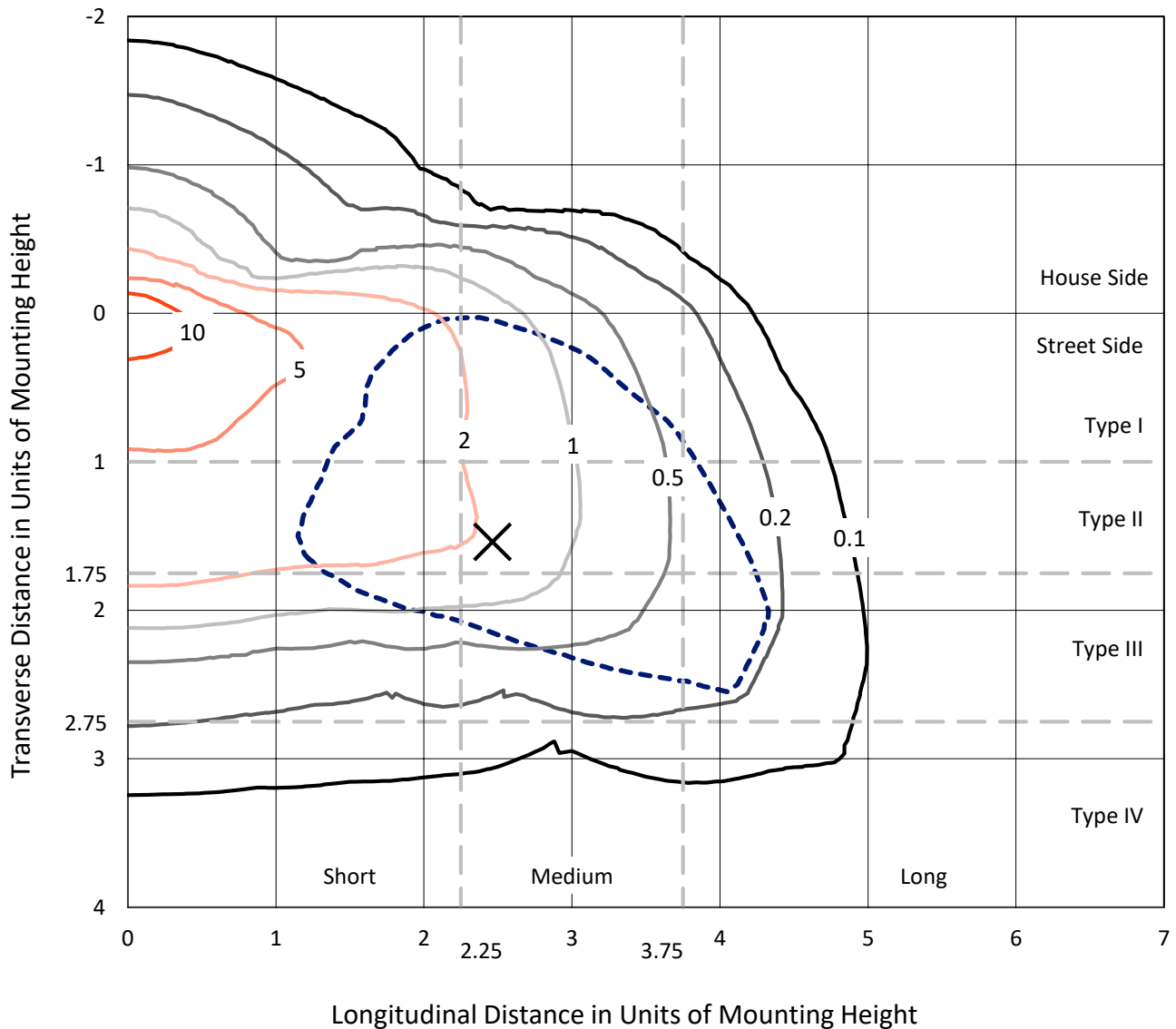
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

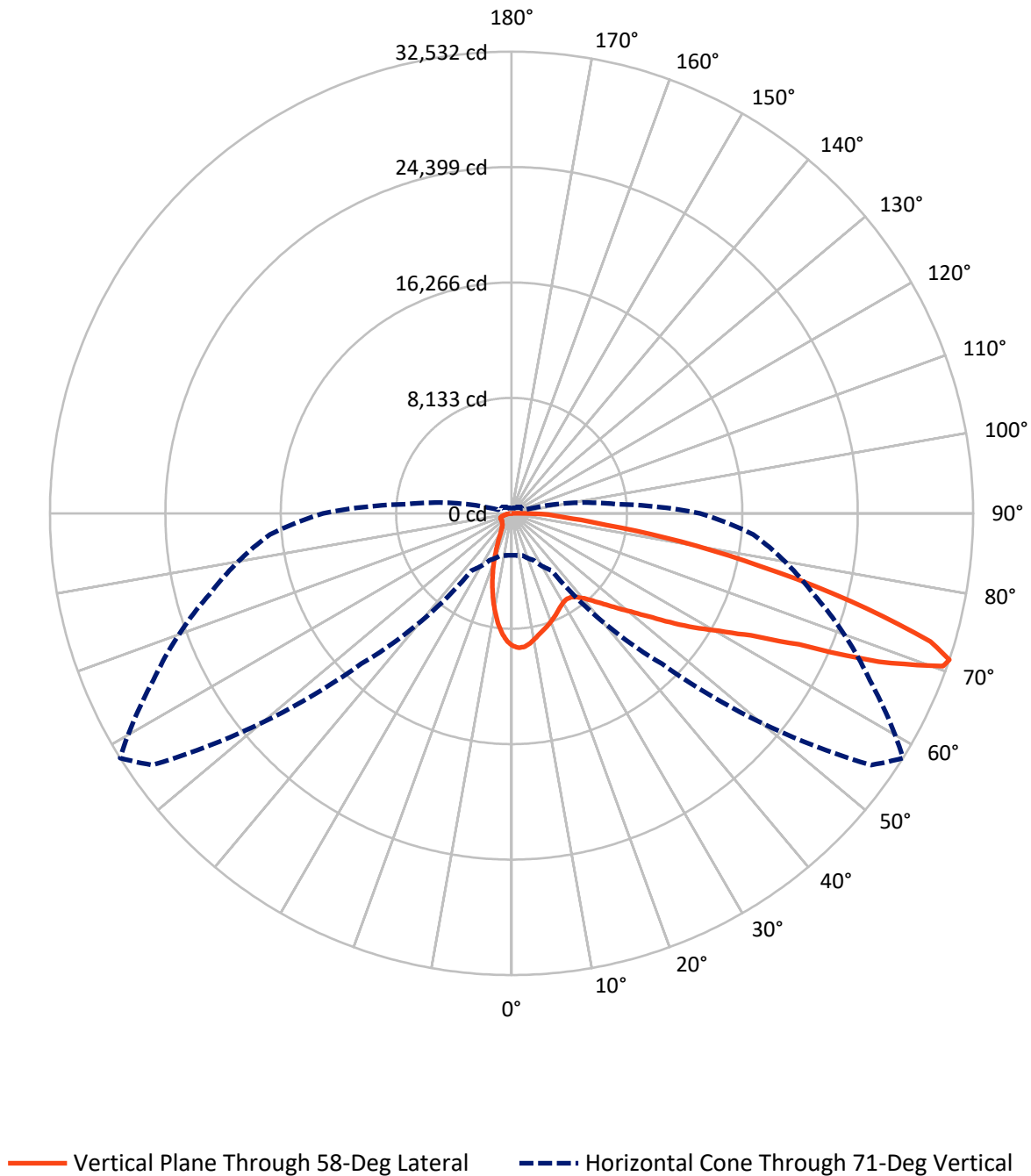
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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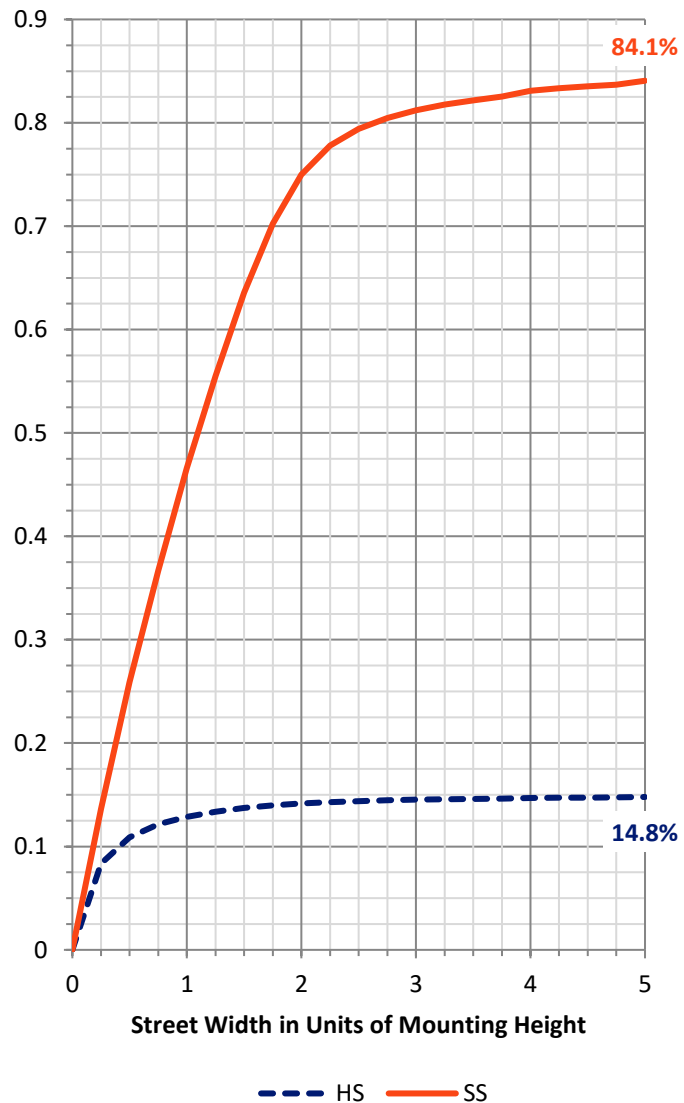
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5034.1	0.0	5034.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28637.0	0.0	28637.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	33671.0	0.0	33671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.8	2.4
10°-20°	1789.6	5.3
20°-30°	2274.4	6.8
30°-40°	2897.2	8.6
40°-50°	4108.3	12.2
50°-60°	6357.8	18.9
60°-70°	8655.3	25.7
70°-80°	5774.1	17.1
80°-90°	1009.5	3.0
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°	33671.0	100.0
0°-180°	33671.0	100.0

Coefficient of Utilization



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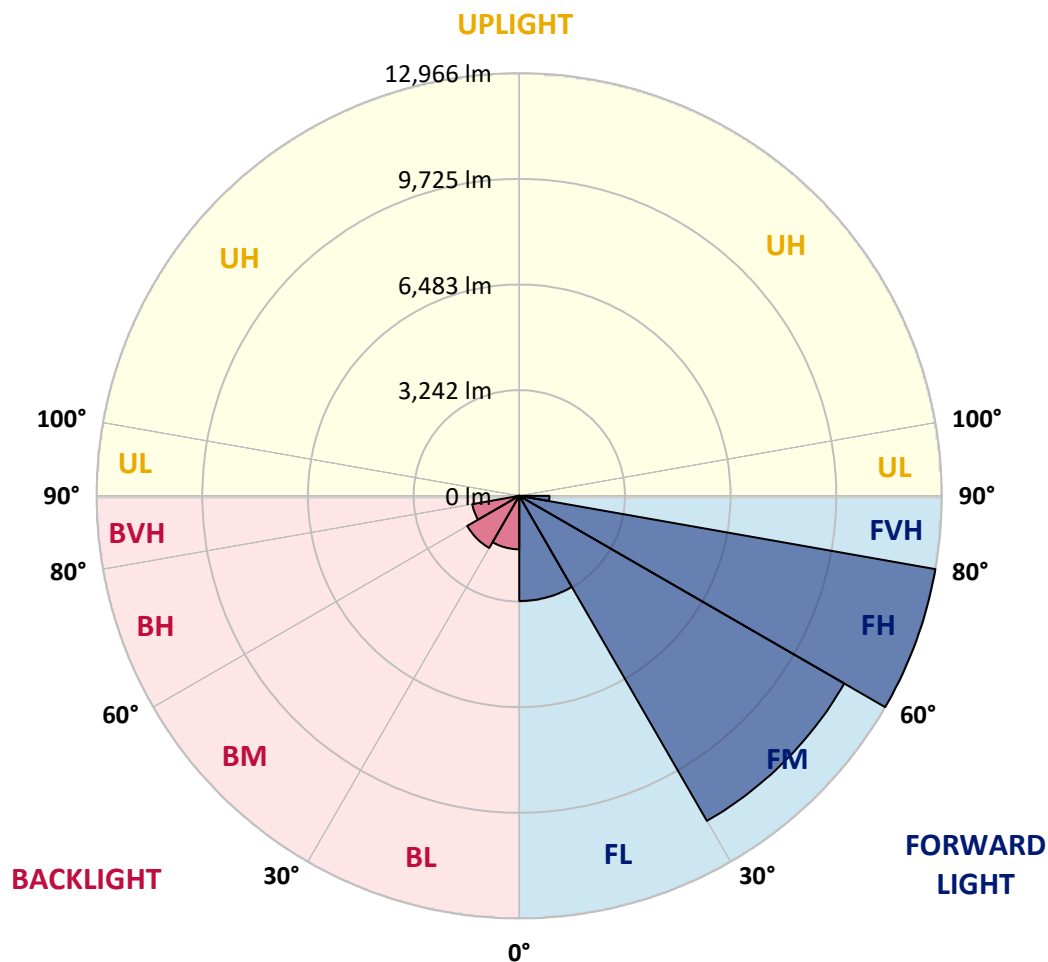
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3227.9	9.6			
FM	(30°-60°)	11517.1	34.2			
FH	(60°-80°)	12966.3	38.5			G5
FVH	(80°-90°)	925.6	2.7			G5
BL	(0°-30°)	1641.0	4.9	B3/2500		
BM	(30°-60°)	1846.1	5.5	B2/2500		
BH	(60°-80°)	1463.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	83.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1
2.5°	9576.6	9563.7	9568.4	9559.0	9536.7	9514.4	9481.6	9487.5	9441.7	9373.7	9289.2
5°	9396.0	9391.3	9426.5	9446.4	9462.8	9449.9	9440.5	9452.3	9385.4	9291.6	9145.0
7.5°	9017.1	8965.5	9010.1	9076.9	9140.3	9188.4	9251.7	9259.9	9217.7	9119.2	8926.8
10°	8478.8	8429.5	8495.2	8599.6	8726.3	8841.2	8969.0	8992.5	9000.7	8911.6	8678.2
12.5°	7920.5	7883.0	7948.6	8095.2	8305.2	8482.3	8686.4	8721.6	8794.3	8734.5	8448.3
15°	7420.8	7406.8	7486.5	7630.8	7872.4	8143.3	8437.7	8502.2	8625.4	8605.4	8268.8
17.5°	6989.2	6985.7	7046.7	7198.0	7465.4	7807.9	8190.2	8299.3	8482.3	8505.8	8121.0
20°	6667.8	6660.8	6703.0	6814.5	7090.1	7478.3	7922.8	8073.0	8336.9	8419.0	7968.6
22.5°	6495.4	6494.3	6495.4	6548.2	6773.4	7134.7	7662.4	7845.4	8194.9	8349.8	7799.7
25°	6466.1	6462.6	6436.8	6430.9	6558.8	6847.3	7404.4	7606.2	8060.1	8301.7	7639.0
27.5°	6542.3	6547.0	6513.0	6457.9	6483.7	6658.5	7180.4	7396.2	7952.2	8292.3	7527.6
30°	6700.7	6698.3	6669.0	6611.5	6561.1	6588.1	7020.9	7236.7	7879.4	8333.3	7451.3
32.5°	6875.4	6888.3	6882.5	6850.8	6775.7	6667.8	6972.8	7183.9	7858.3	8431.9	7418.5
35°	7085.4	7099.5	7141.7	7166.3	7078.4	6904.8	7076.0	7259.0	7919.3	8617.2	7471.3
37.5°	7284.8	7321.1	7439.6	7544.0	7468.9	7275.4	7350.5	7480.7	8108.1	8909.2	7613.2
40°	7514.7	7546.3	7739.9	7961.5	7949.8	7749.2	7792.6	7879.4	8441.2	9327.9	7870.1
42.5°	7741.0	7804.4	8084.7	8399.0	8489.3	8312.2	8381.4	8427.2	8910.4	9882.7	8318.1
45°	8042.5	8110.5	8499.9	8878.7	9089.8	8990.2	9100.4	9118.0	9500.4	10638.1	8969.0
47.5°	8498.7	8576.1	9030.0	9427.6	9750.2	9760.7	9942.5	9935.5	10236.9	11502.5	9788.9
50°	9209.5	9320.9	9692.7	10064.5	10456.3	10674.4	10917.2	10883.2	11120.1	12423.2	10733.1
52.5°	10140.8	10192.4	10468.0	10742.4	11229.2	11718.3	12066.6	12036.1	12121.8	13369.7	11805.1
55°	11106.0	11144.7	11258.5	11408.6	12063.1	12860.7	13597.2	13549.2	13332.2	14352.6	12864.2
57.5°	11974.0	12052.6	12131.1	12193.3	12902.9	14054.7	15163.0	15166.6	14645.8	15412.9	13958.5
60°	12108.9	12178.1	12697.6	13187.9	14339.7	15647.4	16839.1	16803.9	16005.2	16563.5	15178.3
62.5°	10703.7	10859.7	11727.7	13031.9	15723.7	18560.9	18977.3	18933.9	17630.8	17981.5	16598.7
65°	7670.7	7847.8	8895.2	10855.0	15052.8	21771.1	22836.0	22252.0	19847.5	19725.6	18261.8
67.5°	4425.3	4467.5	4921.4	6495.4	11461.4	21938.8	28722.8	27905.3	23290.0	21704.2	19075.8
70°	3272.3	3271.2	3379.1	3997.2	6202.2	17905.2	31522.4	32255.5	26914.2	22355.2	17925.2
71°	2959.2	2962.7	3083.5	3638.3	4912.0	14987.1	30927.8	32532.3	27868.9	22033.8	17092.4
72.5°	2531.1	2542.8	2710.5	3263.0	4132.1	10335.5	28366.2	30871.5	28321.6	21240.9	15789.4
75°	1920.0	1947.0	2179.2	2750.4	3776.7	5241.6	20818.7	24651.7	25159.5	18742.7	11732.4
77.5°	1369.9	1400.4	1663.1	2312.9	3590.2	3950.3	13942.1	17981.5	18515.1	12011.5	5292.1
80°	865.6	901.9	1100.2	1840.3	3373.2	3750.9	8761.4	12086.6	10096.2	3843.5	1346.5
82.5°	507.9	536.0	682.6	1202.2	2755.1	3612.5	5154.8	6699.5	3929.2	1161.2	612.2
85°	294.4	307.3	425.8	765.9	2000.9	3409.6	3787.2	3745.0	1705.4	567.7	289.7
87.5°	137.2	152.5	252.2	400.0	1110.7	2471.3	2993.2	2586.2	1060.3	266.2	136.1
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°	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1	9329.1
2.5°	9248.2	9228.2	9145.0	9071.1	8993.7	8892.8	8781.4	8767.3	8699.3	8712.2	8688.7
5°	9065.2	9014.8	8814.2	8632.4	8417.8	8225.4	8016.7	7920.5	7782.1	7772.7	7737.5
7.5°	8803.7	8709.8	8399.0	8054.2	7709.4	7381.0	7056.1	6842.6	6624.4	6531.8	6523.6
10°	8509.3	8349.8	7892.3	7382.1	6884.8	6405.1	5940.7	5597.0	5287.4	5140.7	5134.9
12.5°	8230.1	7994.4	7366.9	6672.5	5992.3	5370.6	4733.8	4282.2	3894.0	3763.8	3708.7
15°	7993.2	7661.3	6855.5	5967.6	5141.9	4278.7	3553.8	3078.8	2719.9	2595.6	2572.1
17.5°	7763.3	7336.4	6331.2	5255.7	4257.6	3308.7	2582.7	2229.7	2038.5	1988.0	1986.9
20°	7534.6	7002.1	5783.5	4527.3	3402.5	2474.8	1985.7	1827.4	1762.8	1757.0	1747.6
22.5°	7275.4	6647.9	5207.6	3796.6	2655.4	1945.8	1687.8	1624.4	1616.2	1637.3	1637.3
25°	7032.6	6296.0	4623.5	3081.2	2065.4	1623.3	1507.2	1494.3	1516.5	1554.1	1557.6
27.5°	6806.2	5957.1	4053.5	2445.5	1654.9	1429.7	1381.7	1396.9	1436.8	1480.2	1481.4
30°	6619.8	5636.9	3499.9	1927.0	1398.1	1285.5	1277.3	1307.8	1351.2	1385.2	1393.4
32.5°	6475.5	5363.6	2965.1	1549.4	1230.4	1177.6	1184.6	1210.4	1237.4	1256.2	1269.1
35°	6408.6	5129.0	2471.3	1306.6	1123.6	1094.3	1103.7	1117.8	1129.5	1143.6	1154.1
37.5°	6420.4	4947.2	2030.3	1155.3	1052.1	1036.8	1036.8	1036.8	1036.8	1043.9	1045.0
40°	6529.4	4842.8	1671.4	1059.1	1004.0	987.6	974.7	962.9	953.6	958.2	955.9
42.5°	6808.6	4833.5	1408.6	998.1	965.3	938.3	912.5	896.1	884.4	889.0	891.4
45°	7282.4	4950.7	1231.5	954.7	928.9	887.9	855.0	837.4	829.2	844.5	846.8
47.5°	7895.9	5206.4	1123.6	923.1	894.9	841.0	805.8	789.4	791.7	814.0	819.8
50°	8686.4	5621.6	1072.0	903.1	871.5	801.1	764.7	750.6	757.7	789.4	796.4
52.5°	9554.3	6219.8	1077.9	897.3	856.2	771.8	733.1	716.6	728.4	757.7	763.5
55°	10556.0	6938.8	1175.2	905.5	833.9	753.0	707.2	679.1	688.5	715.5	720.2
57.5°	11669.0	7762.1	1371.1	903.1	805.8	735.4	680.3	638.0	645.1	661.5	666.2
60°	12827.8	8756.8	1674.9	910.2	792.9	714.3	643.9	591.1	588.8	602.9	605.2
62.5°	14218.9	9907.3	2022.1	914.8	801.1	687.3	595.8	544.2	537.2	540.7	543.0
65°	15652.1	10740.1	1891.9	896.1	826.9	665.0	553.6	498.5	485.6	483.2	484.4
67.5°	15696.7	9847.5	1326.5	858.6	837.4	653.3	521.9	459.8	438.7	430.4	429.3
70°	14077.0	8000.2	1033.3	818.7	795.2	634.5	492.6	428.1	396.4	383.5	382.4
71°	13286.4	7364.5	979.4	798.7	763.5	615.8	479.7	414.0	381.2	367.1	364.8
72.5°	12046.7	6602.2	913.7	767.1	702.6	567.7	455.1	394.1	360.1	343.7	340.1
75°	8645.3	4317.4	784.7	683.8	581.8	452.7	398.8	354.2	324.9	304.9	302.6
77.5°	3331.0	1718.3	593.5	568.8	445.7	354.2	328.4	306.1	285.0	265.1	263.9
80°	1029.8	768.2	432.8	428.1	322.5	263.9	255.7	249.8	241.6	220.5	215.8
82.5°	550.1	441.0	297.9	276.8	211.1	175.9	185.3	187.7	188.8	166.5	164.2
85°	262.7	233.4	167.7	157.2	123.2	98.5	113.8	123.2	124.3	102.0	95.0
87.5°	125.5	122.0	78.6	59.8	45.7	32.8	39.9	49.3	54.0	38.7	34.0
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)