

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: P321064

Luminaire Tested: **GAN-SA0D-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78788 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

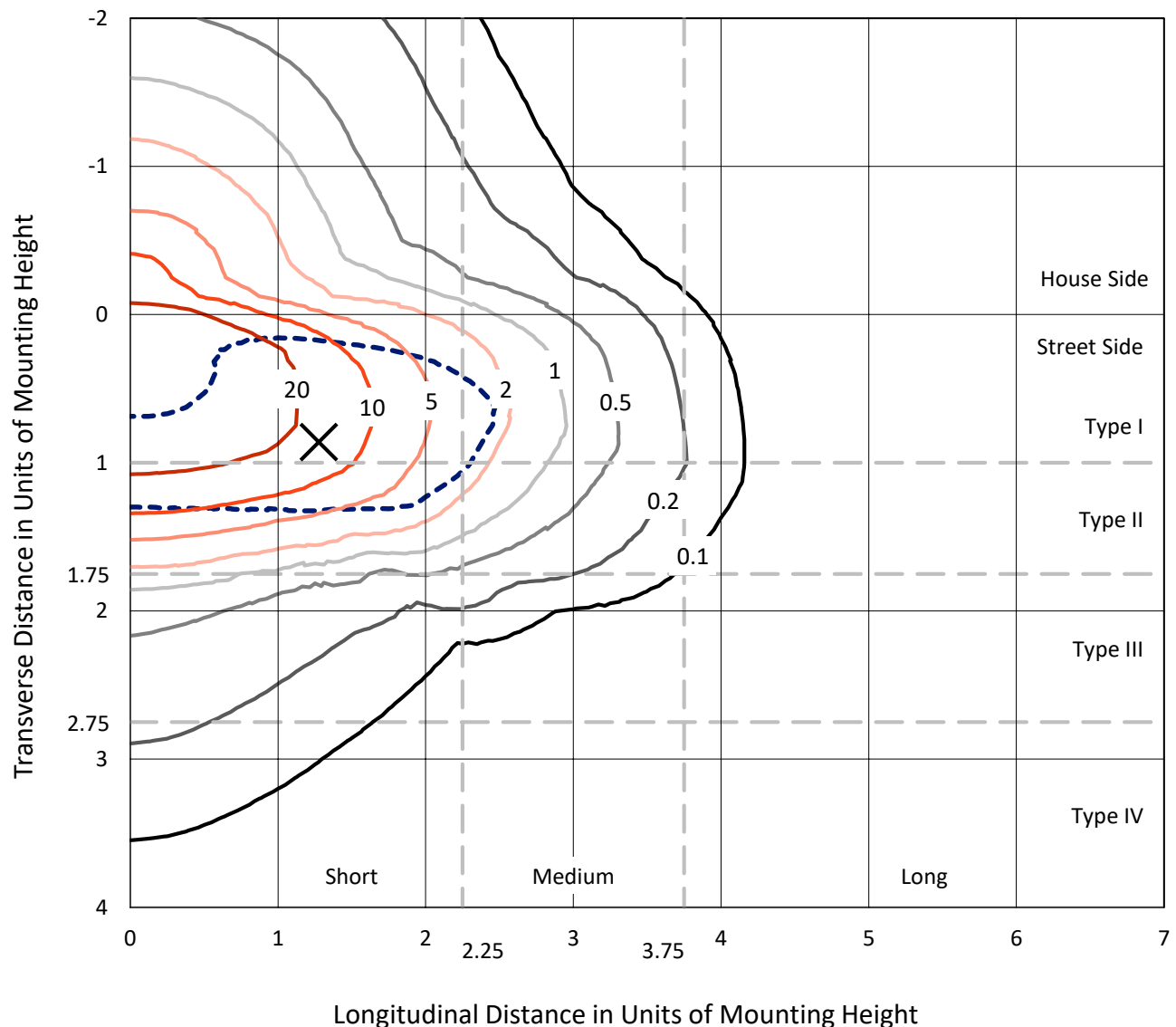


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Iso-Footcandle Lines of Horizontal Illumination

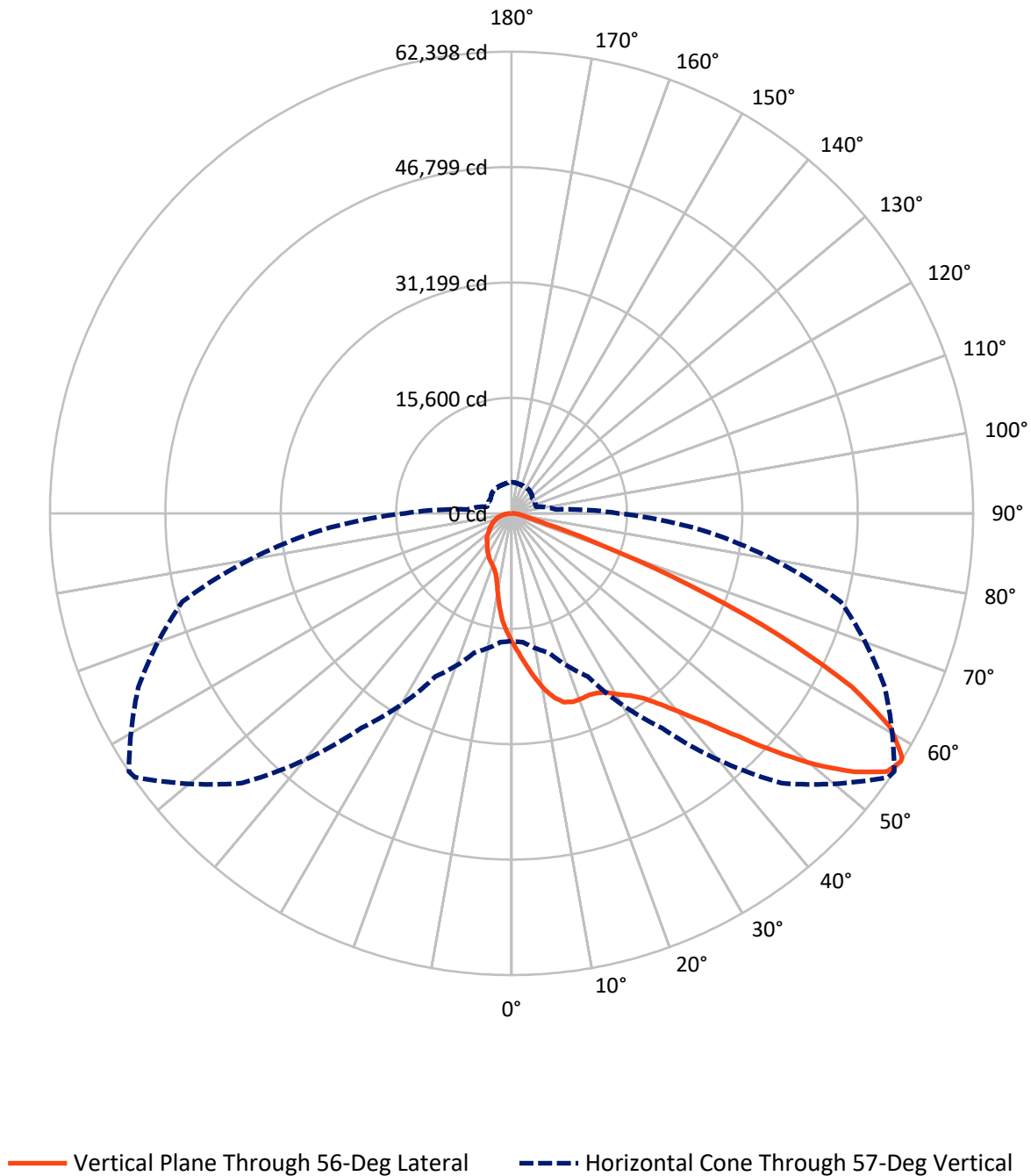
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 38.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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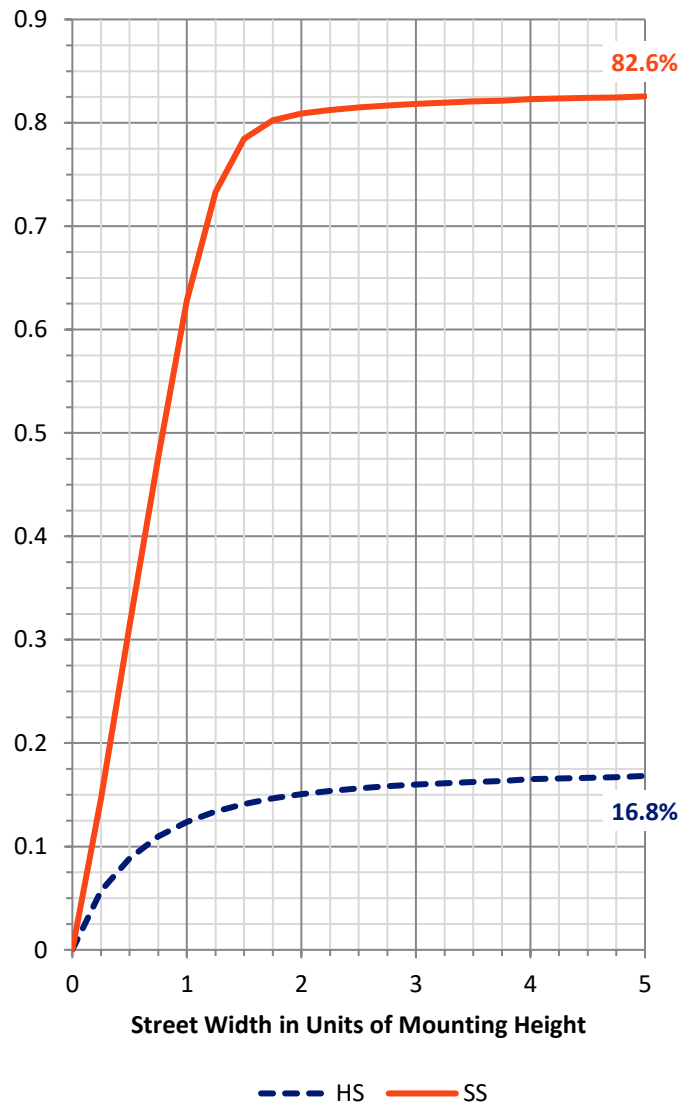
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13581.4	0.0	13581.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	65206.6	0.0	65206.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	78788.0	0.0	78788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1669.3	2.1
10°-20°	4719.6	6.0
20°-30°	7687.3	9.8
30°-40°	11491.6	14.6
40°-50°	17430.3	22.1
50°-60°	19536.3	24.8
60°-70°	11538.9	14.6
70°-80°	3780.6	4.8
80°-90°	934.0	1.2
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°	78788.0	100.0
0°-180°	78788.0	100.0

Coefficient of Utilization



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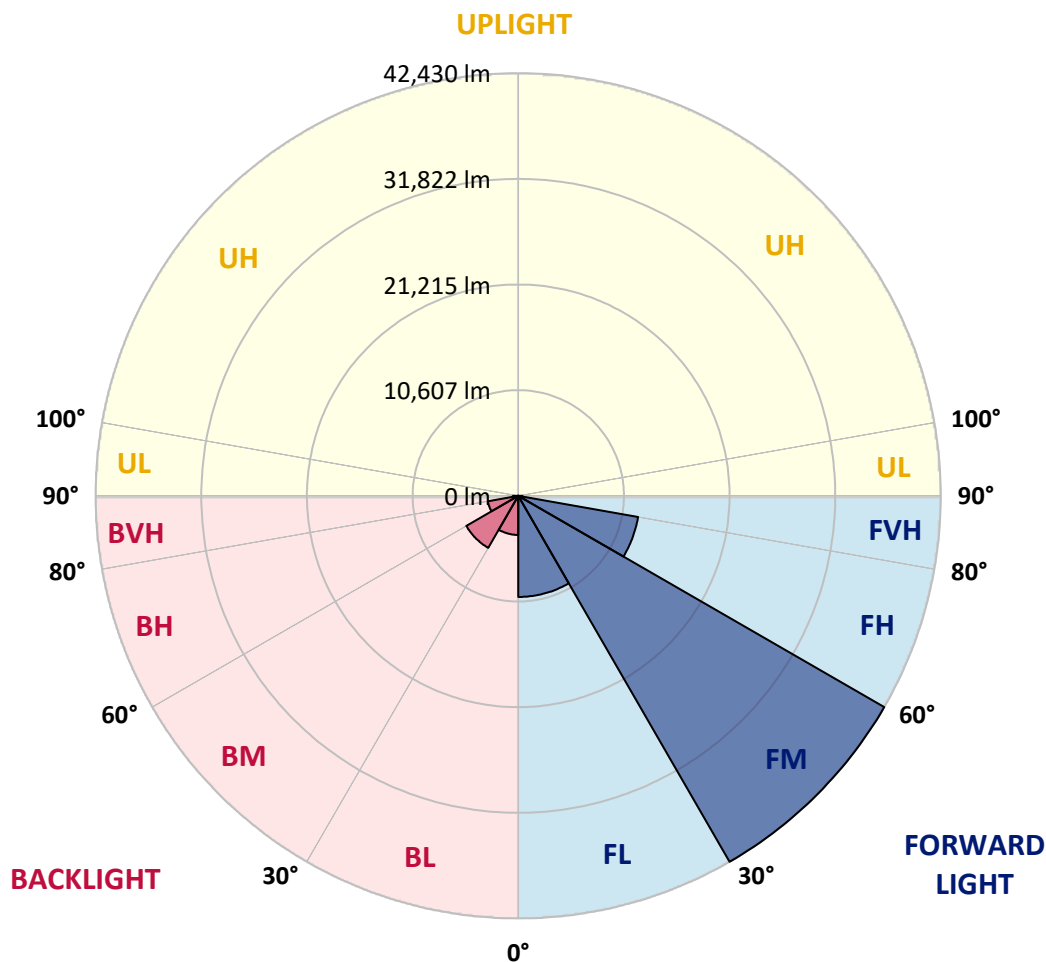
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10149.1	12.9			
FM	(30°-60°)	42430.0	53.9			
FH	(60°-80°)	12216.3	15.5			G5
FVH	(80°-90°)	411.3	0.5			G3/500
BL	(0°-30°)	3927.1	5.0	B4/5000		
BM	(30°-60°)	6028.3	7.7	B4/8500		
BH	(60°-80°)	3103.2	3.9	B4/5000		G4/5000
BVH	(80°-90°)	522.8	0.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3
2.5°	20066.5	20250.6	20169.4	19887.8	19671.2	19365.2	19024.0	18921.1	18561.0	18157.6	17672.9
5°	23242.6	23150.5	23017.8	22579.2	22116.2	21577.4	20721.7	20586.4	19784.9	18872.4	17908.5
7.5°	25051.3	25043.2	24964.6	24707.4	24285.0	23581.0	22549.4	22389.7	21179.3	19711.8	18217.1
10°	24788.6	24769.7	24899.7	25167.7	25295.0	25148.8	24279.6	24119.9	22633.3	20640.5	18574.6
12.5°	23296.7	23307.6	23516.0	24079.2	24845.5	25766.1	25625.3	25546.8	24141.5	21691.1	19007.8
15°	22135.1	22159.5	22324.7	22814.8	23719.1	25389.7	26443.0	26470.1	25600.9	22850.0	19514.1
17.5°	21626.1	21677.5	21753.4	22097.2	22925.8	24639.7	26638.0	26784.2	26879.0	24052.2	20001.5
20°	21788.6	21837.3	21859.0	22078.3	22757.9	24184.8	26502.6	26765.2	27859.1	25184.0	20488.9
22.5°	22516.9	22546.7	22560.2	22617.1	23145.1	24314.8	26413.2	26689.4	28568.5	26199.3	20857.1
25°	23724.5	23702.9	23616.2	23543.1	23897.8	24829.3	26619.0	26881.7	29145.3	27119.9	21098.1
27.5°	25170.4	25143.3	24975.5	24775.1	24978.2	25630.7	27212.0	27420.5	29662.4	27981.0	21219.9
30°	26906.0	26835.6	26518.8	26280.6	26359.1	26832.9	28189.5	28379.0	30461.2	28958.4	21339.1
32.5°	28912.4	28836.6	28379.0	27983.7	27983.7	28379.0	29196.7	29353.8	31138.1	30063.2	21531.3
35°	31425.1	31330.4	30734.7	30071.3	29884.5	30084.8	30569.5	30680.5	32356.6	31454.9	21880.6
37.5°	34387.3	34260.0	33488.4	32600.2	32191.4	32180.6	32529.9	32757.3	34303.4	33282.6	22473.6
40°	37357.6	37268.3	36594.1	35895.5	35094.0	34836.8	35375.6	35446.0	36848.6	35551.6	23231.7
42.5°	39653.7	39637.5	39512.9	39605.0	38784.5	38264.7	38687.1	38743.9	39957.0	38007.5	24038.6
45°	40866.7	40893.8	41497.6	42835.2	43138.5	42759.4	42967.9	42984.1	43509.4	40485.0	24777.8
47.5°	39894.7	40035.5	41562.6	44554.6	47037.5	48296.6	47950.0	48150.4	46953.6	42613.2	25357.3
50°	36106.7	36280.0	38879.3	43788.3	48857.1	53655.0	53473.6	53427.6	49731.6	44172.8	25671.3
52.5°	31414.3	31549.7	33694.1	39805.3	47522.2	56617.2	58282.4	58044.1	52201.0	45339.8	25730.9
55°	24268.8	24480.0	26535.1	31855.6	42123.1	55485.4	61818.6	61604.7	54451.1	45951.7	25660.5
57°	17253.2	17475.3	19516.8	24312.1	35435.2	51567.4	62170.6	62398.1	55666.8	46054.6	25739.0
57.5°	15395.8	15623.2	17645.8	22303.0	33350.3	50151.3	61867.4	62246.4	55886.1	46038.4	25782.4
60°	7752.0	7838.7	9127.5	12449.8	21081.9	40544.5	57911.5	58888.9	56083.8	45242.3	25969.2
62.5°	4819.6	4757.4	4716.7	5734.8	10256.6	26887.1	49747.9	51629.7	52301.2	43314.5	25517.0
65°	4237.5	4121.1	3674.3	3593.1	4529.9	13059.1	37463.2	39805.3	44218.8	40276.5	24439.4
67.5°	3980.3	3866.5	3362.9	3059.7	3062.4	5177.0	23258.8	25896.1	34446.9	35140.0	21896.9
70°	3714.9	3612.0	3140.9	2783.5	2607.5	2867.4	10700.7	12701.6	22454.6	27620.9	18301.1
72.5°	3373.7	3303.3	2856.6	2488.3	2301.5	2147.2	4096.7	4838.6	12999.5	18550.2	12709.8
75°	3016.3	2951.4	2569.6	2217.6	1990.1	1689.6	2306.9	2485.6	6604.0	9490.4	6257.4
77.5°	2623.7	2585.8	2285.3	1960.3	1778.9	1399.9	1632.7	1719.4	2832.2	4069.6	3138.2
80°	2087.6	2160.7	1998.3	1746.4	1578.6	1121.0	1156.2	1213.0	1649.0	1987.4	1781.6
82.5°	1359.2	1486.5	1565.0	1418.8	1299.7	882.7	831.3	855.6	1074.9	1213.0	774.4
85°	565.9	636.3	1028.9	928.7	863.7	644.4	557.8	568.6	666.1	690.5	316.8
87.5°	251.8	268.1	452.2	425.1	365.5	222.0	238.3	259.9	354.7	335.8	121.8
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°	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3	17475.3
2.5°	17491.5	17264.1	16874.1	16443.6	16091.6	15810.0	15525.7	15330.8	15103.3	14981.5	14919.2
5°	17505.0	17058.3	16237.8	15395.8	14643.0	13955.3	13300.0	12796.4	12325.3	12070.8	12000.4
7.5°	17561.9	16890.4	15563.6	14177.3	12839.7	11618.6	10676.3	10086.0	9660.9	9471.4	9417.2
10°	17607.9	16692.7	14729.7	12677.3	10857.7	9620.3	8889.3	8558.9	8412.7	8388.3	8364.0
12.5°	17716.2	16489.7	13852.4	11112.2	9317.1	8461.4	8206.9	8185.3	8225.9	8285.4	8285.4
15°	17886.8	16289.3	12850.6	9769.2	8336.9	8036.3	8087.8	8206.9	8317.9	8410.0	8423.5
17.5°	18011.4	16042.9	11772.9	8694.3	7814.3	7895.5	8079.7	8247.5	8361.3	8450.6	8458.7
20°	18100.7	15661.1	10622.2	7873.9	7513.8	7765.6	7995.7	8144.6	8223.2	8312.5	8326.1
22.5°	18054.7	15149.4	9601.4	7286.3	7270.1	7576.0	7795.4	7974.1	7914.5	7827.9	7884.7
25°	17832.7	14445.4	8550.8	6847.7	7012.8	7321.5	7592.3	7473.1	7272.8	7234.9	7256.5
27.5°	17437.3	13546.4	7578.7	6441.5	6715.0	7086.0	7069.7	6950.6	6880.2	6831.4	6861.2
30°	17012.2	12571.7	6728.5	6086.8	6384.7	6690.6	6628.4	6625.6	6555.2	6476.7	6514.6
32.5°	16592.6	11591.5	6054.3	5794.4	6135.6	6176.2	6311.6	6352.2	6214.1	6048.9	6038.1
35°	16227.0	10665.5	5542.6	5529.0	5835.0	5840.4	6038.1	5981.2	5637.4	5466.8	5466.8
37.5°	15953.5	9742.2	5152.7	5290.8	5439.7	5580.5	5680.7	5445.1	5388.2	5293.5	5290.8
40°	15834.4	8929.9	4909.0	5109.4	5160.8	5339.5	5082.3	5174.3	5201.4	5152.7	5152.7
42.5°	15709.9	8223.2	4697.8	4971.3	4963.1	4938.8	4808.8	4927.9	5036.3	5039.0	5030.8
45°	15585.3	7613.9	4511.0	4676.1	4789.9	4527.2	4551.6	4678.8	4830.5	4884.6	4884.6
47.5°	15447.2	7132.0	4340.4	4364.8	4540.7	4364.8	4345.8	4443.3	4622.0	4708.6	4727.6
50°	15144.0	6698.8	4145.4	4091.3	4140.0	4199.6	4215.8	4261.9	4459.5	4597.6	4630.1
52.5°	14724.3	6311.6	3896.3	3839.5	3839.5	4064.2	4140.0	4153.6	4321.4	4486.6	4519.1
55°	14375.0	6065.2	3639.1	3628.3	3617.4	3920.7	4050.7	4072.3	4188.8	4318.7	4335.0
57°	14399.3	6046.2	3441.4	3452.3	3449.6	3774.5	3966.7	4012.8	4072.3	4183.3	4202.3
57.5°	14412.9	6059.7	3398.1	3403.5	3400.8	3733.9	3942.4	3993.8	4039.8	4156.3	4175.2
60°	14616.0	6094.9	3222.1	3162.5	3176.1	3517.3	3804.3	3869.2	3899.0	4053.4	4077.7
62.5°	14315.4	5937.9	3081.3	2937.8	2937.8	3289.8	3612.0	3714.9	3760.9	3969.4	4010.0
65°	13443.5	5496.6	2916.2	2683.3	2710.4	3062.4	3381.9	3549.7	3620.1	3880.1	3923.4
67.5°	12097.8	4984.8	2740.2	2455.8	2482.9	2824.1	3143.6	3325.0	3436.0	3782.6	3817.8
70°	10346.0	4359.3	2501.9	2214.9	2247.4	2564.2	2862.0	3067.8	3232.9	3690.5	3701.4
72.5°	7627.5	3574.1	2168.8	1949.5	1984.7	2260.9	2577.7	2816.0	3038.0	3460.4	3455.0
75°	4535.3	2794.3	1800.6	1681.5	1705.8	1963.1	2320.5	2610.2	2943.2	3371.0	3422.5
77.5°	2751.0	2103.9	1467.6	1408.0	1437.8	1700.4	2136.3	2445.0	2902.6	3178.8	3162.5
80°	1662.5	1502.8	1172.4	1134.5	1164.3	1454.0	1976.6	2320.5	2537.1	2715.8	2715.8
82.5°	869.2	917.9	861.0	831.3	871.9	1180.5	1797.9	2025.3	2241.9	1925.1	1797.9
85°	354.7	479.3	522.6	519.9	544.2	817.7	1551.5	1732.9	1445.9	1372.8	1405.3
87.5°	119.1	203.1	254.5	219.3	230.2	514.5	1074.9	836.7	993.7	693.2	658.0
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)