

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: P192968

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50732.4 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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: 28.75 FT



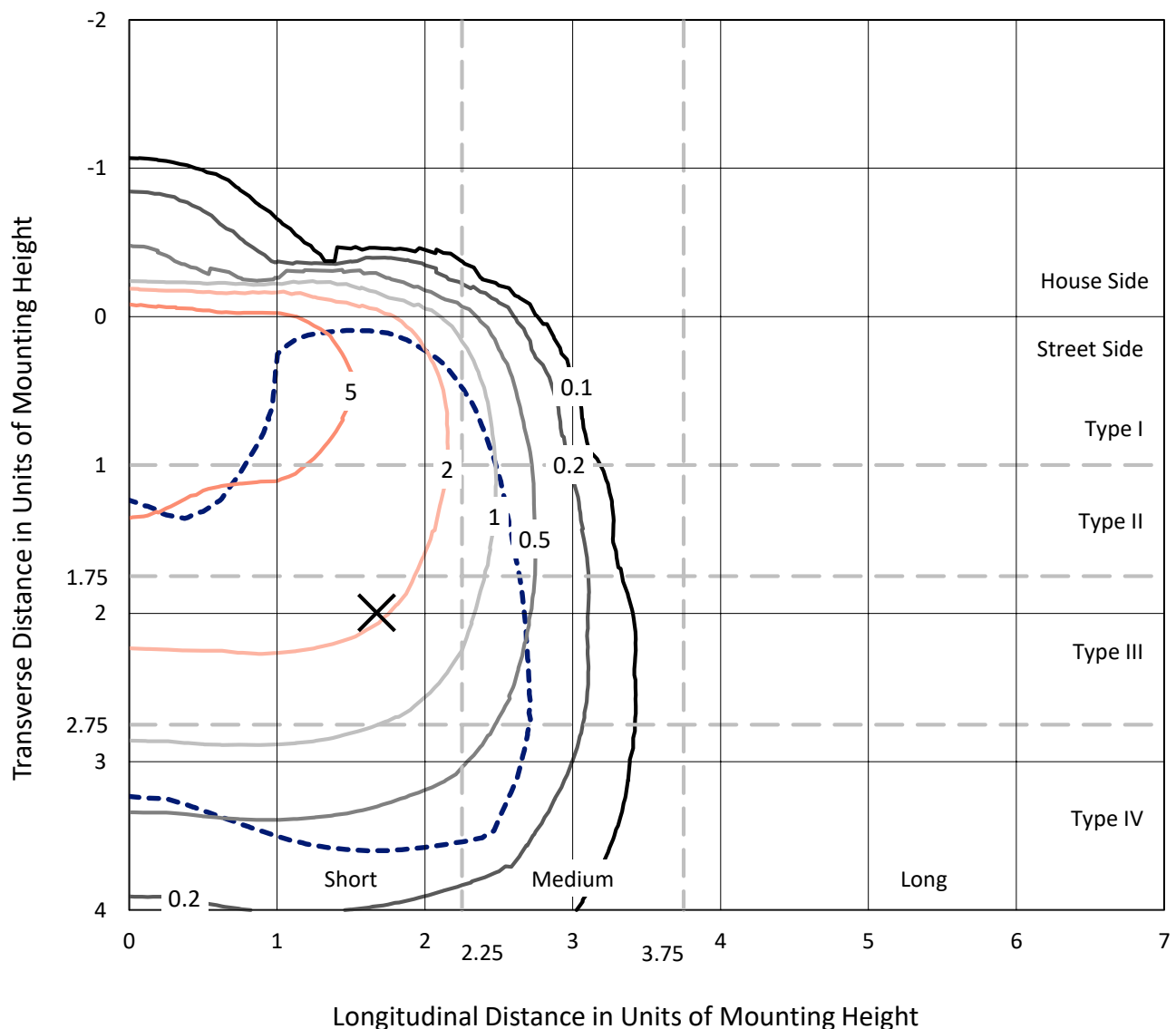
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



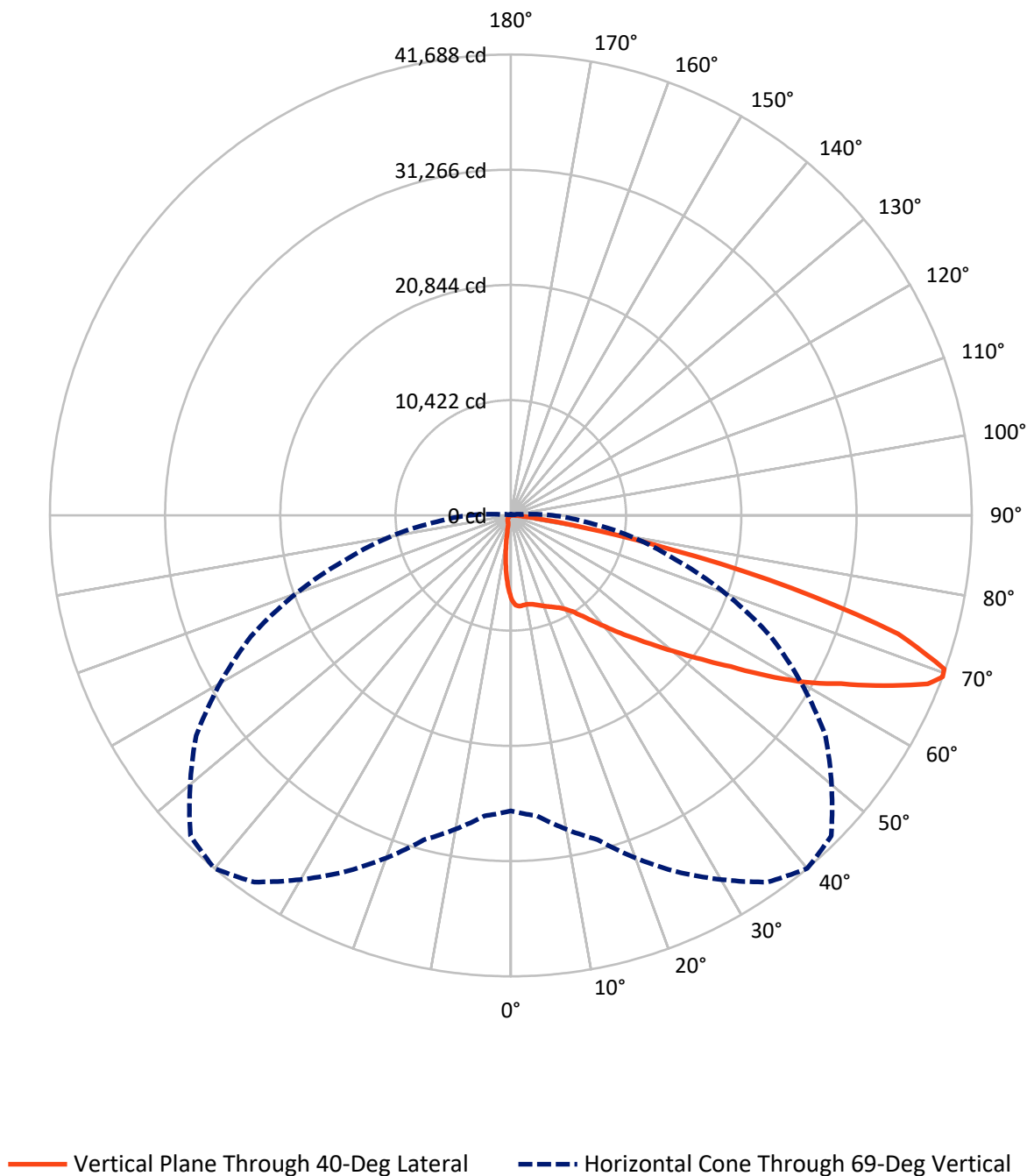
Based on 30 foot mounting height. Maximum calculated value = 9.2 fc

Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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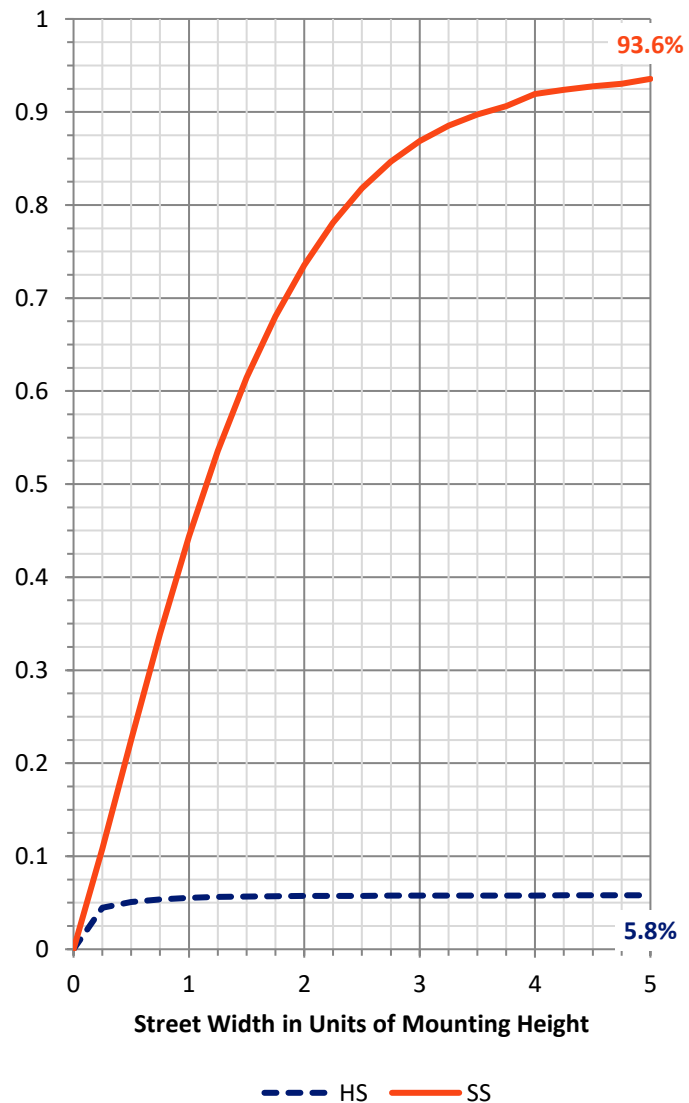
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2968.1	0.0	2968.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	47764.2	0.0	47764.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	50732.4	0.0	50732.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.6	1.2
10°-20°	1511.3	3.0
20°-30°	2545.6	5.0
30°-40°	4167.2	8.2
40°-50°	7215.4	14.2
50°-60°	11364.9	22.4
60°-70°	14842.1	29.3
70°-80°	7644.4	15.1
80°-90°	826.9	1.6
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°	50732.4	100.0
0°-180°	50732.4	100.0

Coefficient of Utilization



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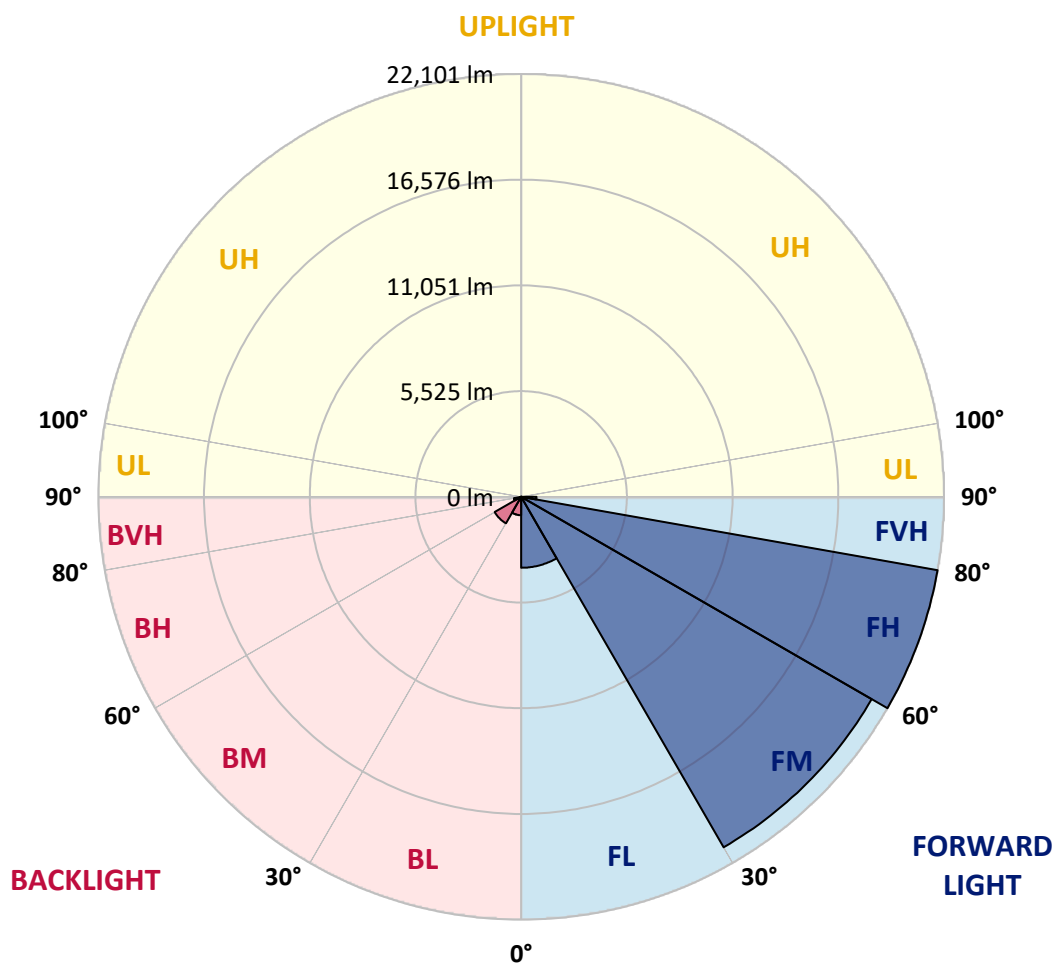
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3710.0	7.3			
FM	(30°-60°)	21152.2	41.7			
FH	(60°-80°)	22101.1	43.6			G5
FVH	(80°-90°)	800.9	1.6			G5
BL	(0°-30°)	961.5	1.9	B2/1000		
BM	(30°-60°)	1595.3	3.1	B2/2500		
BH	(60°-80°)	385.4	0.8	B1/500		G1/500
BVH	(80°-90°)	26.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7
2.5°	8322.5	8277.3	8250.0	8213.8	8168.6	8129.3	8114.1	8002.4	7896.7	7751.8	7585.8
5°	8476.6	8461.5	8413.2	8364.8	8310.5	8250.0	8216.9	8084.0	7933.0	7721.6	7431.7
7.5°	8491.6	8473.5	8413.2	8346.8	8271.3	8198.7	8141.4	8008.4	7869.6	7655.1	7301.9
10°	8467.5	8446.4	8401.1	8328.7	8235.0	8165.5	8108.1	7981.3	7863.5	7670.2	7277.6
12.5°	8440.3	8419.2	8398.0	8361.8	8280.2	8231.9	8183.6	8062.8	7957.2	7794.1	7365.2
15°	8467.5	8455.5	8479.6	8464.5	8419.2	8376.9	8328.7	8219.9	8123.2	7987.4	7525.3
17.5°	8582.2	8582.2	8657.7	8666.8	8624.5	8564.2	8494.7	8385.9	8304.5	8189.6	7715.6
20°	8851.0	8842.0	8938.6	8956.7	8854.1	8760.4	8657.7	8524.9	8461.5	8388.9	7902.8
22.5°	9313.0	9270.7	9328.1	9310.0	9107.8	8962.7	8835.9	8672.9	8639.5	8606.4	8111.2
25°	9913.9	9889.8	9929.1	9751.0	9394.5	9198.3	9047.3	8863.1	8863.1	8896.3	8346.8
27.5°	10786.7	10696.1	10563.1	10249.2	9714.7	9464.0	9300.9	9104.7	9156.0	9279.8	8657.7
30°	11680.6	11580.9	11275.9	10792.7	10104.2	9841.5	9651.2	9445.9	9566.7	9793.2	9074.4
32.5°	12562.3	12450.6	12018.7	11408.8	10662.8	10400.2	10216.0	9989.5	10191.8	10572.3	9684.5
35°	13416.9	13317.3	12819.1	12100.4	11405.8	11188.3	11019.3	10822.9	11082.6	11614.1	10545.1
37.5°	14377.2	14268.5	13661.6	12882.4	12308.7	12151.6	12027.8	11831.5	12284.4	13063.6	11743.9
40°	15558.0	15373.8	14555.4	13779.3	13353.5	13278.1	13193.5	13166.3	13869.9	14948.0	13341.4
42.5°	16910.8	16608.8	15491.6	14724.6	14501.0	14555.4	14534.2	14655.1	15853.8	17291.4	15286.1
45°	18263.7	17874.2	16533.3	15733.2	15763.3	15953.6	16071.3	16554.5	18339.1	19978.9	17378.9
47.5°	19411.2	19027.7	17533.0	16823.3	17185.6	17560.0	17880.2	18795.3	20893.9	22624.4	19006.5
50°	20392.7	20030.3	18592.8	18022.1	18837.5	19441.4	19960.8	21316.7	23641.9	24638.5	20148.1
52.5°	21195.9	20954.3	19692.1	19396.1	20724.9	21609.7	22370.7	23995.3	26076.0	26275.2	21035.9
55°	21978.0	21805.9	20872.8	21029.7	22941.3	24146.3	25109.5	26837.0	28171.6	27640.2	21887.5
57.5°	22877.9	22720.9	22219.6	23101.4	25855.4	27371.4	28422.2	29355.3	30016.7	29035.3	22690.8
60°	23795.9	23705.3	23717.5	25402.4	29201.4	30656.9	31236.6	31478.2	31828.7	30349.0	22736.0
62.5°	24671.8	24843.8	25429.6	27963.3	32405.4	33522.7	33815.6	34054.2	33643.4	30557.3	21005.6
65°	26154.4	26435.3	27833.4	31390.7	35929.5	37125.3	37427.3	36609.0	33930.4	27863.7	17086.0
67.5°	26879.2	27392.5	29886.9	34585.7	39347.9	40676.5	40564.8	36775.0	30448.6	21247.2	10964.8
69°	26728.2	27274.7	30361.0	35564.1	40483.3	41688.2	40978.6	34742.7	25940.0	15391.9	6731.1
70°	26130.2	26682.9	30116.3	35527.9	40628.3	41582.6	40211.6	32233.2	21932.7	11254.8	4209.5
72.5°	21821.0	22298.1	26737.3	32112.5	37427.3	36651.2	33640.5	22331.4	10687.0	3065.0	948.3
75°	13432.0	13697.8	19184.8	24191.5	28268.2	26275.2	22412.9	11109.8	3185.9	866.7	525.4
77.5°	7096.5	7217.3	10502.9	14259.4	17919.4	14827.1	11487.3	4333.4	1467.6	543.6	380.4
80°	4194.5	4285.0	5656.1	6519.7	7754.7	6477.4	4593.2	2660.5	1050.8	341.2	338.2
82.5°	2400.8	2458.2	4100.8	3623.8	3056.0	2609.1	2286.0	2521.4	631.2	229.6	350.2
85°	881.8	893.8	2307.1	2757.0	1818.0	1081.1	1135.4	2089.7	169.2	145.0	274.8
87.5°	410.7	401.6	1186.8	1688.0	1063.0	685.5	884.8	459.0	66.4	93.6	75.5
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°	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7	7579.7
2.5°	7489.0	7377.3	7175.0	6966.7	6755.3	6592.1	6432.2	6305.4	6263.1	6184.5	6190.5
5°	7259.6	7054.3	6631.5	6202.6	5755.7	5387.3	5040.0	4759.3	4623.3	4484.4	4484.4
7.5°	7060.3	6761.3	6100.0	5402.5	4680.6	4073.7	3527.1	3116.4	2889.9	2708.7	2705.7
10°	6984.7	6580.1	5656.1	4656.5	3650.9	2823.5	2174.3	1757.6	1543.1	1404.2	1398.2
12.5°	7017.9	6516.7	5314.8	3968.0	2705.7	1814.9	1259.2	990.6	899.9	857.5	857.5
15°	7114.6	6498.6	4973.6	3294.6	1911.5	1135.4	836.5	764.0	757.9	757.9	757.9
17.5°	7232.4	6504.6	4623.3	2639.2	1301.5	812.4	721.7	712.7	718.7	718.7	718.7
20°	7353.1	6507.7	4245.9	2032.3	918.0	706.6	679.5	676.5	682.5	682.5	685.5
22.5°	7501.2	6522.8	3868.4	1518.9	757.9	667.3	646.3	646.3	649.2	649.2	646.3
25°	7670.2	6553.0	3475.7	1126.4	691.5	640.1	622.1	619.1	622.1	619.1	616.0
27.5°	7881.6	6595.2	3038.0	881.8	661.3	613.1	597.8	597.8	594.9	591.8	588.9
30°	8147.4	6643.5	2545.6	748.9	631.2	588.9	573.7	570.8	567.7	561.7	561.7
32.5°	8552.0	6749.3	2059.5	679.5	597.8	555.7	543.6	543.6	537.5	531.4	528.5
35°	9174.2	6957.6	1624.6	637.2	561.7	519.4	504.3	504.3	498.2	495.3	492.2
37.5°	10034.8	7274.7	1262.3	597.8	525.4	480.2	465.0	462.0	455.9	449.9	447.0
40°	11179.3	7667.3	993.5	561.7	489.2	440.9	428.9	422.8	410.7	401.6	401.6
42.5°	12616.7	8114.1	806.4	522.5	447.0	404.7	395.6	386.6	365.4	356.3	353.4
45°	14120.5	8515.7	682.5	477.1	404.7	368.4	362.4	347.2	320.1	311.1	311.1
47.5°	15204.6	8609.4	600.9	434.9	365.4	329.2	326.1	299.0	274.8	268.8	265.7
50°	15881.1	8425.2	534.5	392.6	329.2	293.0	283.8	250.6	235.6	229.6	226.5
52.5°	16337.1	8096.1	480.2	356.3	296.0	259.7	238.5	214.3	202.3	196.3	196.3
55°	16702.5	7631.0	425.8	323.1	268.8	232.5	202.3	184.2	172.1	166.1	166.1
57.5°	16805.1	6999.9	371.5	296.0	241.6	205.3	172.1	160.1	145.0	141.9	141.9
60°	16059.3	5861.4	329.2	262.8	217.4	178.2	151.0	135.9	120.8	117.8	114.7
62.5°	14093.4	4535.7	289.9	232.5	190.2	154.0	129.8	111.8	99.7	99.7	99.7
65°	10750.4	3040.9	253.7	202.3	166.1	129.8	111.8	90.5	84.5	84.5	87.6
67.5°	6435.2	1654.8	217.4	172.1	141.9	108.7	93.6	78.5	75.5	78.5	78.5
69°	3771.7	972.4	196.3	154.0	123.8	96.5	81.5	69.5	75.5	78.5	78.5
70°	2328.2	655.3	181.2	138.9	111.8	87.6	75.5	66.4	72.4	75.5	75.5
72.5°	649.2	338.2	145.0	108.7	90.5	72.4	60.4	60.4	69.5	72.4	72.4
75°	422.8	250.6	111.8	81.5	69.5	57.4	51.4	57.4	66.4	69.5	69.5
77.5°	350.2	205.3	90.5	66.4	57.4	54.3	48.3	51.4	60.4	63.4	63.4
80°	320.1	145.0	72.4	60.4	51.4	48.3	45.4	42.3	54.3	57.4	57.4
82.5°	305.1	114.7	63.4	54.3	48.3	42.3	39.3	42.3	48.3	51.4	54.3
85°	190.2	75.5	57.4	51.4	42.3	39.3	39.3	39.3	45.4	48.3	48.3
87.5°	69.5	60.4	51.4	42.3	36.3	36.3	36.3	36.3	39.3	45.4	45.4
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)