

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: P319304

Luminaire Tested: **GAN-SA0D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62917 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

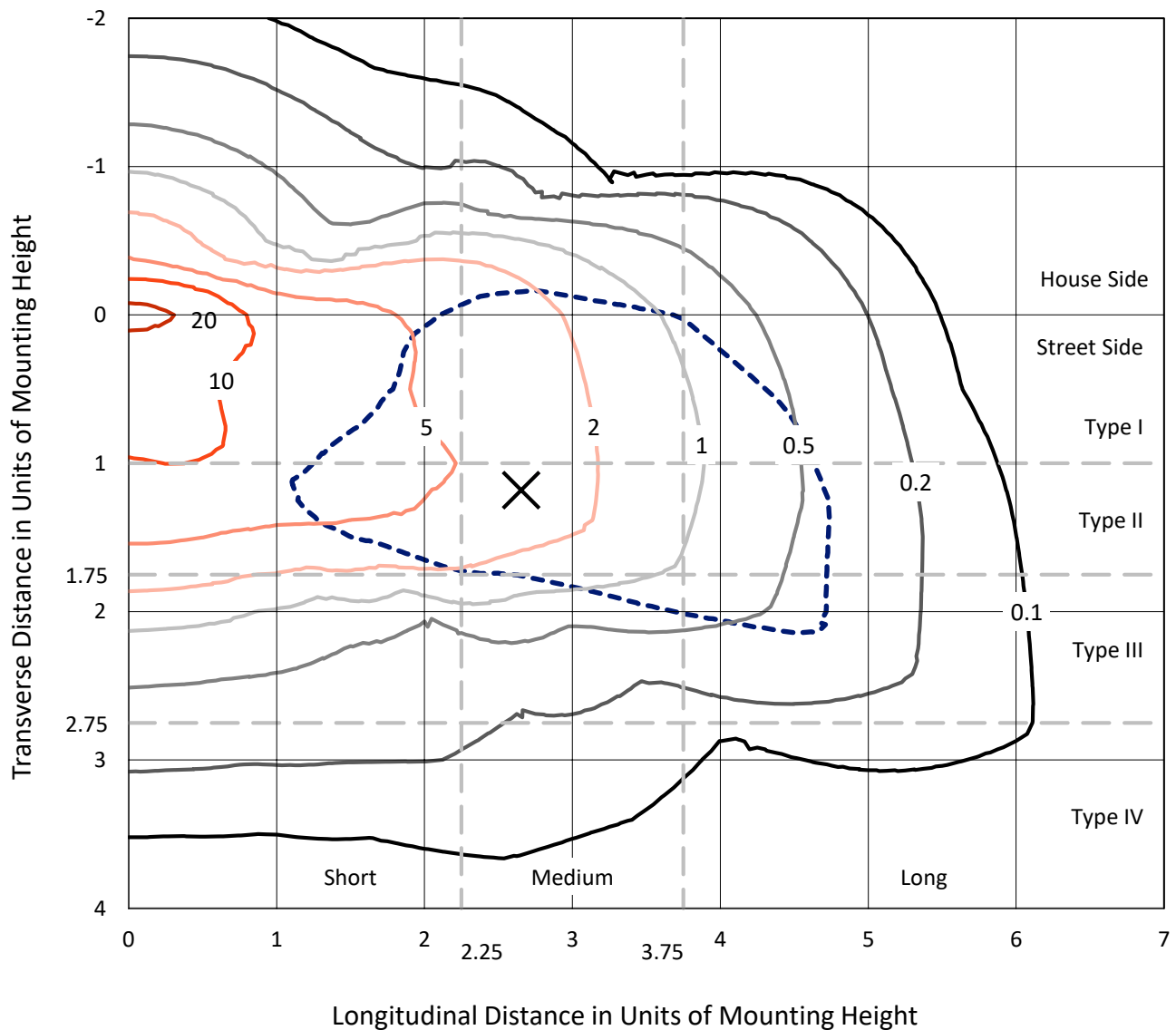


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Iso-Footcandle Lines of Horizontal Illumination

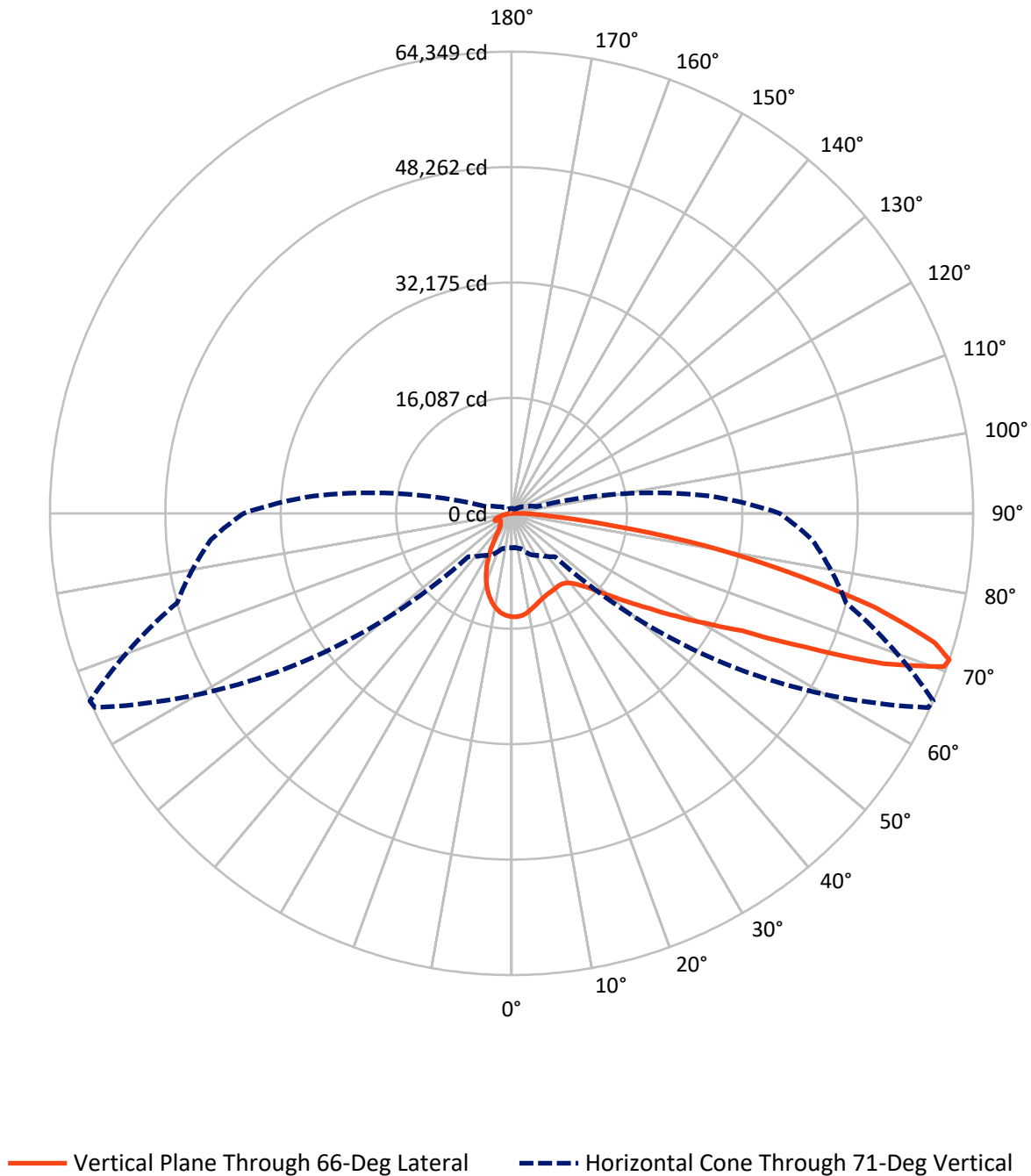
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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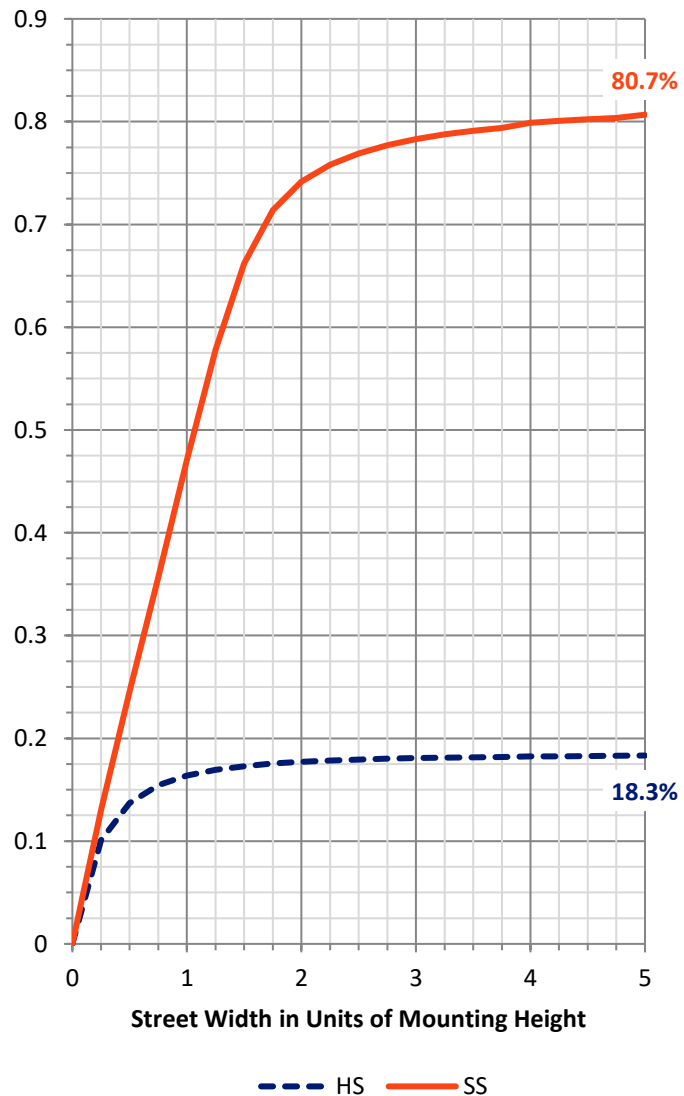
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11660.2	0.0	11660.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	51256.8	0.0	51256.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	62917.0	0.0	62917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1268.7	2.0
10°-20°	3042.9	4.8
20°-30°	4087.3	6.5
30°-40°	5376.8	8.5
40°-50°	7821.9	12.4
50°-60°	12218.6	19.4
60°-70°	15305.8	24.3
70°-80°	11674.9	18.6
80°-90°	2120.0	3.4
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°	62917.0	100.0
0°-180°	62917.0	100.0

Coefficient of Utilization



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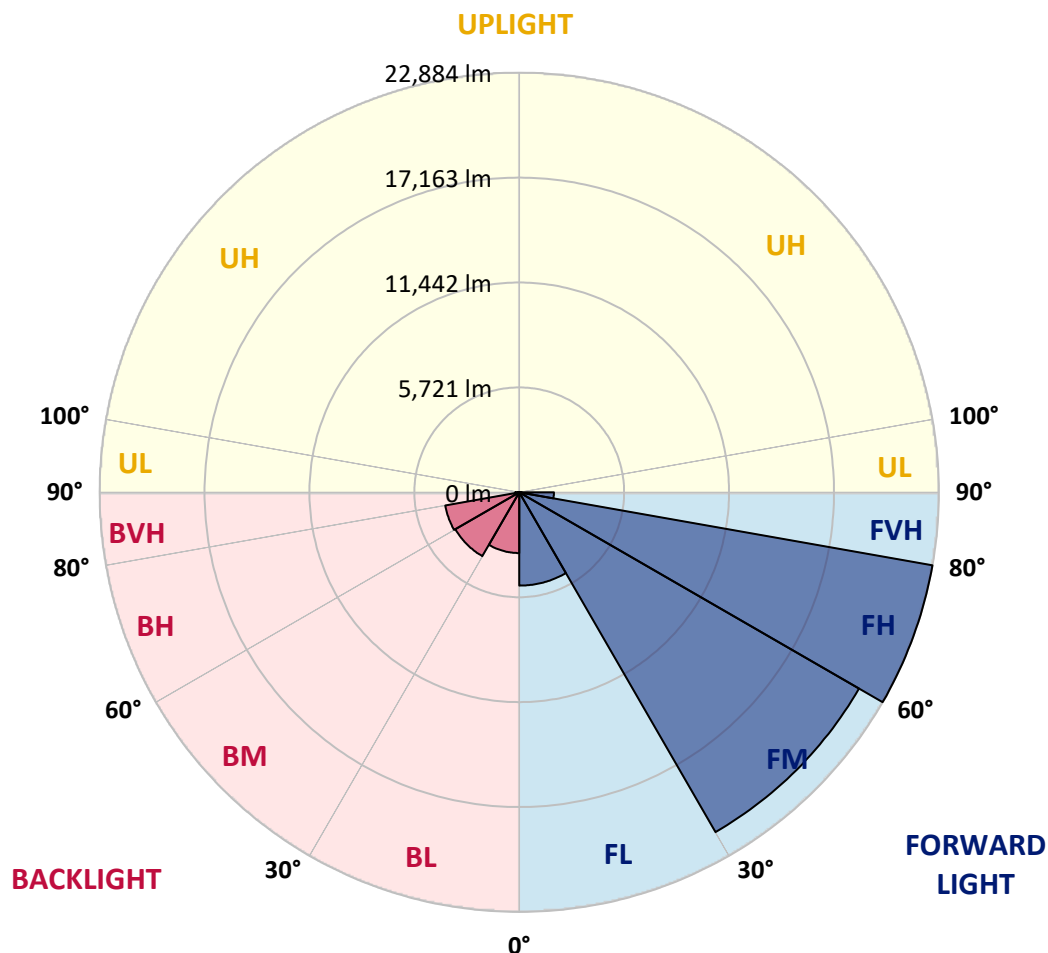
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5087.7	8.1			
FM	(30°-60°)	21394.9	34.0			
FH	(60°-80°)	22883.6	36.4			G5
FVH	(80°-90°)	1890.5	3.0			G5
BL	(0°-30°)	3311.2	5.3	B4/5000		
BM	(30°-60°)	4022.4	6.4	B3/5000		
BH	(60°-80°)	4097.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	229.5	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1
2.5°	14145.9	14124.2	14189.3	14256.7	14282.7	14326.2	14391.3	14428.3	14426.1	14432.6	14410.9
5°	13207.5	13179.2	13309.5	13416.0	13620.2	13850.4	14130.7	14330.5	14334.9	14447.8	14478.2
7.5°	12319.0	12299.4	12449.3	12620.9	12857.7	13209.6	13663.6	14093.7	14119.8	14426.1	14532.5
10°	11606.5	11602.1	11747.7	11934.5	12210.4	12603.6	13124.9	13754.9	13794.0	14321.8	14541.2
12.5°	11050.4	11059.1	11185.1	11397.9	11689.0	12099.6	12664.4	13374.7	13437.7	14156.7	14491.3
15°	10639.8	10674.6	10776.7	10991.7	11278.5	11695.5	12275.5	13022.8	13118.4	13972.1	14463.0
17.5°	10405.2	10444.3	10516.0	10694.1	10963.5	11365.4	11914.9	12733.9	12820.8	13830.9	14465.2
20°	10335.7	10368.3	10409.6	10518.2	10746.3	11111.2	11630.4	12473.2	12566.6	13717.9	14486.9
22.5°	10472.6	10496.4	10500.8	10492.1	10631.1	10928.7	11424.0	12282.1	12382.0	13644.1	14502.1
25°	10765.8	10798.4	10774.5	10694.1	10648.5	10831.0	11317.6	12156.1	12256.0	13589.8	14471.7
27.5°	11206.8	11211.1	11191.6	11087.3	10872.3	10841.8	11285.0	12082.2	12177.8	13526.8	14408.7
30°	11806.3	11834.6	11799.8	11658.6	11306.7	11015.6	11324.1	12010.5	12097.4	13446.4	14306.6
32.5°	12508.0	12577.5	12575.3	12427.6	11923.6	11404.5	11484.8	11967.1	12034.4	13361.7	14182.8
35°	13235.7	13331.3	13509.4	13446.4	12823.0	12019.2	11793.3	12036.6	12082.2	13350.8	14095.9
37.5°	13991.6	14087.2	14454.3	14623.8	13893.9	12899.0	12279.9	12282.1	12303.8	13483.3	14089.4
40°	14782.4	14884.5	15436.2	15877.2	15282.0	14013.4	13064.1	12794.7	12770.8	13809.2	14217.6
42.5°	15890.2	15981.5	16644.0	17206.6	16822.1	15440.6	14148.0	13585.4	13535.5	14447.8	14628.1
45°	17291.3	17369.5	18073.4	18675.1	18477.4	17069.8	15510.1	14673.7	14665.1	15512.2	15460.1
47.5°	18957.5	19018.3	19650.4	20232.6	20304.3	18944.4	17221.8	16352.9	16211.7	16972.0	16748.3
50°	20693.1	20760.5	21190.6	21816.2	22348.4	21453.4	19424.5	18410.1	18221.1	18898.8	18573.0
52.5°	21842.3	21931.3	22305.0	23097.8	24646.7	24203.5	22029.1	20903.8	20617.1	21234.0	20984.2
55°	21329.6	21529.5	22100.8	23371.5	26484.4	28404.7	25241.9	23812.5	23488.8	24001.5	23853.8
57.5°	18998.7	19272.5	20052.3	22013.9	26742.9	32106.3	30099.1	27238.2	27010.1	26862.4	26929.7
60°	14738.9	15001.8	15968.4	18525.2	24942.1	34808.6	37408.8	31461.1	31130.9	29734.1	29795.0
62.5°	10431.3	10298.8	10961.3	12831.6	20267.4	35125.7	45726.5	37109.0	36022.9	32766.6	32499.5
65°	7954.9	7924.5	8222.1	8817.3	12275.5	31330.8	50681.4	46601.9	44905.3	36333.5	35703.6
67.5°	6536.4	6482.1	6775.3	7642.1	7904.9	20213.0	50790.0	57615.3	55949.2	40773.7	39409.5
70°	5374.2	5313.4	5587.1	6705.8	7305.4	10251.0	42746.1	64064.8	63975.8	46395.5	42207.4
71°	4818.1	4774.7	5102.7	6345.2	7177.2	8543.6	36907.0	64082.2	64349.4	48298.4	42042.3
72.5°	3923.1	3938.3	4285.9	5647.9	7081.6	7544.3	27125.2	61095.3	61660.1	50112.3	40541.2
75°	2606.7	2619.8	3075.9	4344.6	6866.6	7381.4	14908.3	51265.8	52304.1	49026.1	36993.9
77.5°	1750.9	1746.5	2057.1	2980.4	5982.5	7381.4	8741.2	38342.9	39483.3	39009.8	28519.8
80°	1205.6	1196.9	1416.3	2057.1	4529.2	7470.5	6758.0	26871.1	27216.5	21066.8	11591.3
82.5°	738.6	745.1	925.4	1453.3	3082.5	6723.2	6380.0	14652.0	14276.2	5908.6	2895.6
85°	423.6	421.4	590.9	984.0	1978.9	5674.0	6221.4	6306.1	5784.8	1779.1	1047.0
87.5°	152.1	162.9	317.2	545.2	1133.9	3951.4	5278.6	3280.1	2956.5	803.7	473.6
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°	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1	14413.1
2.5°	14395.7	14408.7	14393.5	14306.6	14232.8	14113.3	14046.0	13952.5	13924.3	13911.3	13946.0
5°	14450.0	14454.3	14326.2	14098.1	13841.8	13539.8	13322.6	13055.4	12929.4	12875.1	12909.9
7.5°	14500.0	14480.4	14200.2	13763.6	13290.0	12764.3	12297.3	11869.3	11619.5	11517.4	11526.1
10°	14506.5	14423.9	13974.3	13298.7	12564.5	11793.3	11076.4	10416.1	9999.0	9727.5	9810.0
12.5°	14439.1	14300.1	13641.9	12697.0	11678.2	10626.8	9657.9	8667.4	8072.2	7796.3	7805.0
15°	14387.0	14135.0	13233.5	11988.8	10620.3	9227.8	7904.9	6740.6	6106.3	5823.9	5691.4
17.5°	14343.6	13956.9	12760.0	11191.6	9371.2	7605.1	6015.0	4976.7	4629.1	4546.6	4511.8
20°	14282.7	13767.9	12232.1	10268.4	7948.4	5789.1	4392.3	3879.7	3881.9	3977.4	3990.5
22.5°	14198.0	13552.8	11669.5	9232.2	6421.3	4216.4	3443.1	3295.3	3445.2	3627.7	3660.3
25°	14072.0	13298.7	11043.9	8087.4	4896.3	3241.0	2941.3	2934.7	3117.2	3308.4	3336.6
27.5°	13893.9	12966.3	10348.7	6857.9	3608.2	2754.4	2635.0	2680.6	2815.3	2954.3	2965.2
30°	13654.9	12579.7	9581.9	5561.0	2828.3	2452.5	2439.5	2480.7	2563.3	2661.0	2669.7
32.5°	13392.1	12186.5	8763.0	4305.5	2422.1	2289.6	2302.6	2322.2	2361.3	2400.4	2409.1
35°	13153.1	11784.6	7924.5	3271.5	2228.8	2183.1	2174.5	2170.1	2174.5	2161.4	2163.6
37.5°	12998.9	11452.3	7051.2	2604.6	2118.0	2089.7	2063.7	2031.1	1994.2	1972.4	1976.8
40°	12942.4	11204.6	6167.1	2250.5	2026.7	2007.2	1957.2	1887.7	1844.3	1831.2	1831.2
42.5°	13094.5	11076.4	5313.4	2072.4	1950.7	1918.1	1835.6	1755.2	1722.6	1720.4	1718.3
45°	13559.4	11128.6	4501.0	1974.6	1881.2	1818.2	1709.6	1642.2	1620.5	1624.9	1622.7
47.5°	14393.5	11456.6	3805.8	1909.4	1811.7	1729.1	1607.5	1553.2	1527.1	1527.1	1529.3
50°	15812.0	12223.4	3251.9	1855.1	1753.0	1646.6	1533.6	1466.3	1431.5	1429.4	1429.4
52.5°	17877.9	13596.3	2906.5	1809.5	1687.9	1572.7	1459.8	1375.1	1333.8	1325.1	1320.7
55°	20467.2	15564.4	2810.9	1779.1	1601.0	1492.4	1370.7	1286.0	1240.4	1220.8	1218.6
57.5°	23362.9	17958.2	2999.9	1742.2	1511.9	1396.8	1273.0	1192.6	1144.8	1120.9	1118.7
60°	26293.3	20571.5	3771.1	1690.0	1438.0	1292.5	1173.0	1099.2	1051.4	1025.3	1021.0
62.5°	29228.0	23325.9	5346.0	1685.7	1385.9	1192.6	1070.9	1007.9	962.3	934.1	927.6
65°	32538.6	26341.0	7135.9	1800.8	1368.5	1101.3	966.7	916.7	877.6	851.5	849.4
67.5°	36340.0	29745.0	6964.3	2037.6	1427.2	1018.8	868.9	829.8	801.6	779.8	777.7
70°	38123.5	29212.8	4329.4	2204.9	1509.7	938.4	775.5	747.3	725.5	710.3	703.8
71°	37376.2	27737.8	3629.9	2185.3	1501.0	903.7	738.6	716.9	695.1	682.1	675.6
72.5°	35338.6	25296.2	3028.2	2033.3	1403.3	840.7	690.8	669.1	649.5	634.3	630.0
75°	31710.9	22591.7	2424.3	1624.9	1118.7	710.3	606.1	582.2	567.0	558.3	549.6
77.5°	23310.7	16122.6	1874.7	1283.8	823.3	580.0	517.0	499.6	484.4	471.4	464.9
80°	8930.2	6245.3	1262.1	958.0	603.9	458.4	417.1	408.4	393.2	384.5	384.5
82.5°	2404.7	1866.0	673.4	580.0	404.0	334.5	319.3	315.0	301.9	284.6	286.7
85°	973.2	823.3	378.0	319.3	247.6	197.7	215.1	217.2	202.0	180.3	182.5
87.5°	427.9	349.7	210.7	141.2	108.6	76.0	97.8	97.8	89.1	73.9	67.3
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)