

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: P317367

Luminaire Tested: **GAN-SA3C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18814 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

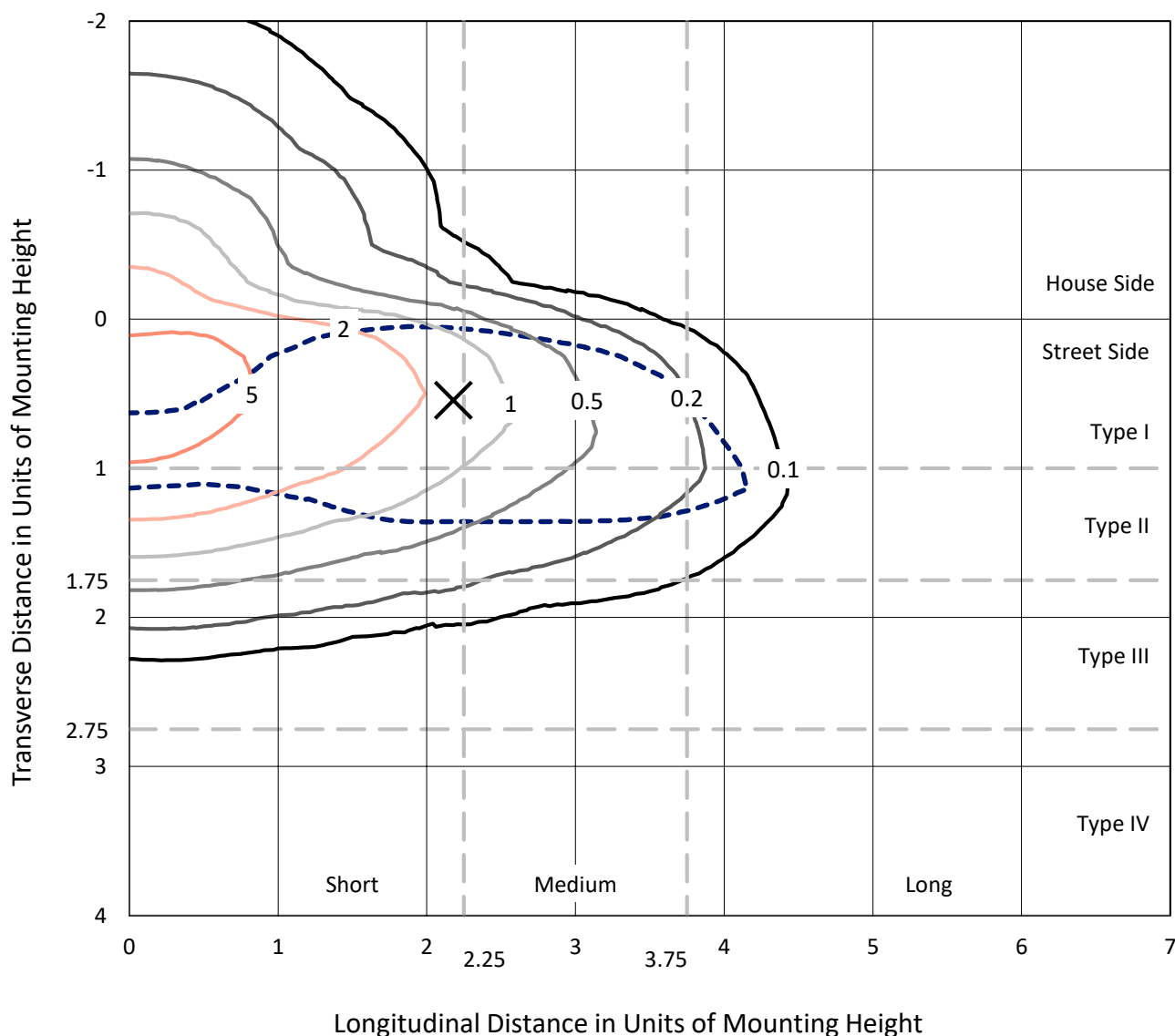
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

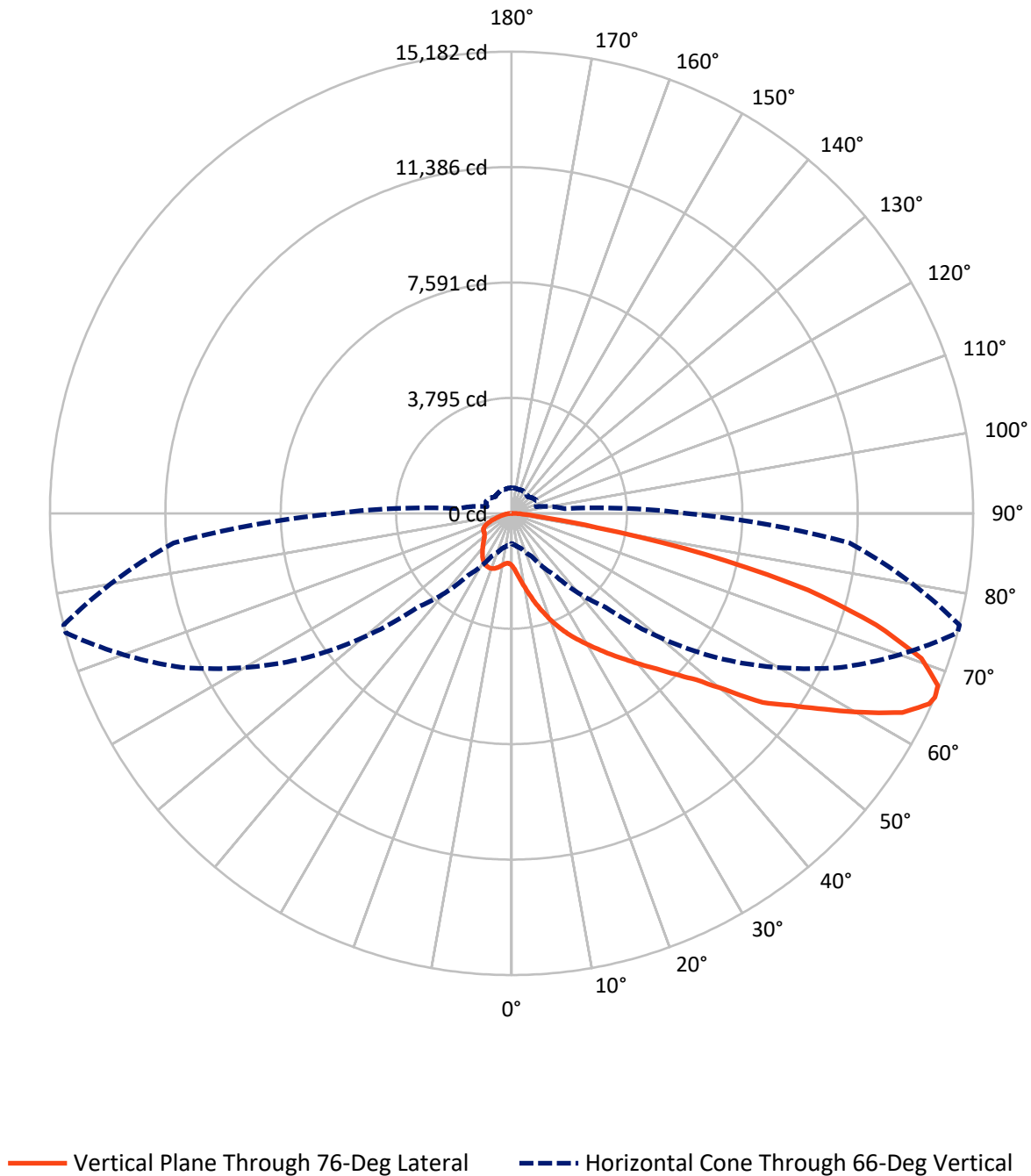
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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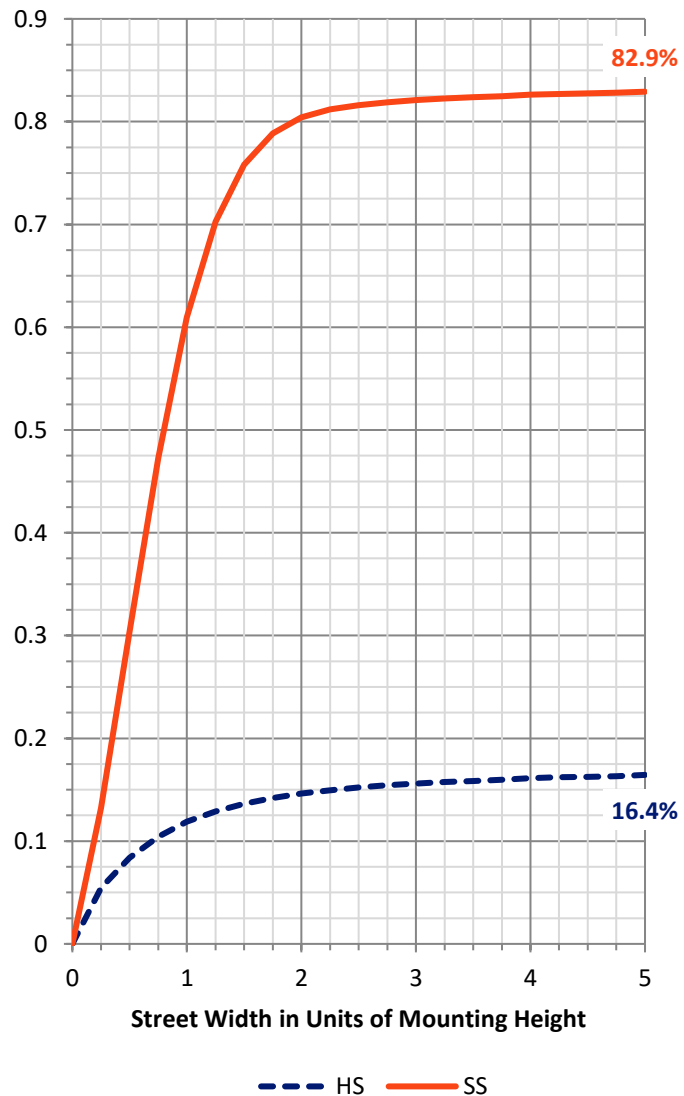
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.7	0.0	3165.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15648.3	0.0	15648.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	18814.0	0.0	18814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	1.1
10°-20°	820.5	4.4
20°-30°	1594.4	8.5
30°-40°	2602.4	13.8
40°-50°	3555.5	18.9
50°-60°	4141.4	22.0
60°-70°	3712.8	19.7
70°-80°	1876.3	10.0
80°-90°	303.0	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°	18814.0	100.0
0°-180°	18814.0	100.0

Coefficient of Utilization



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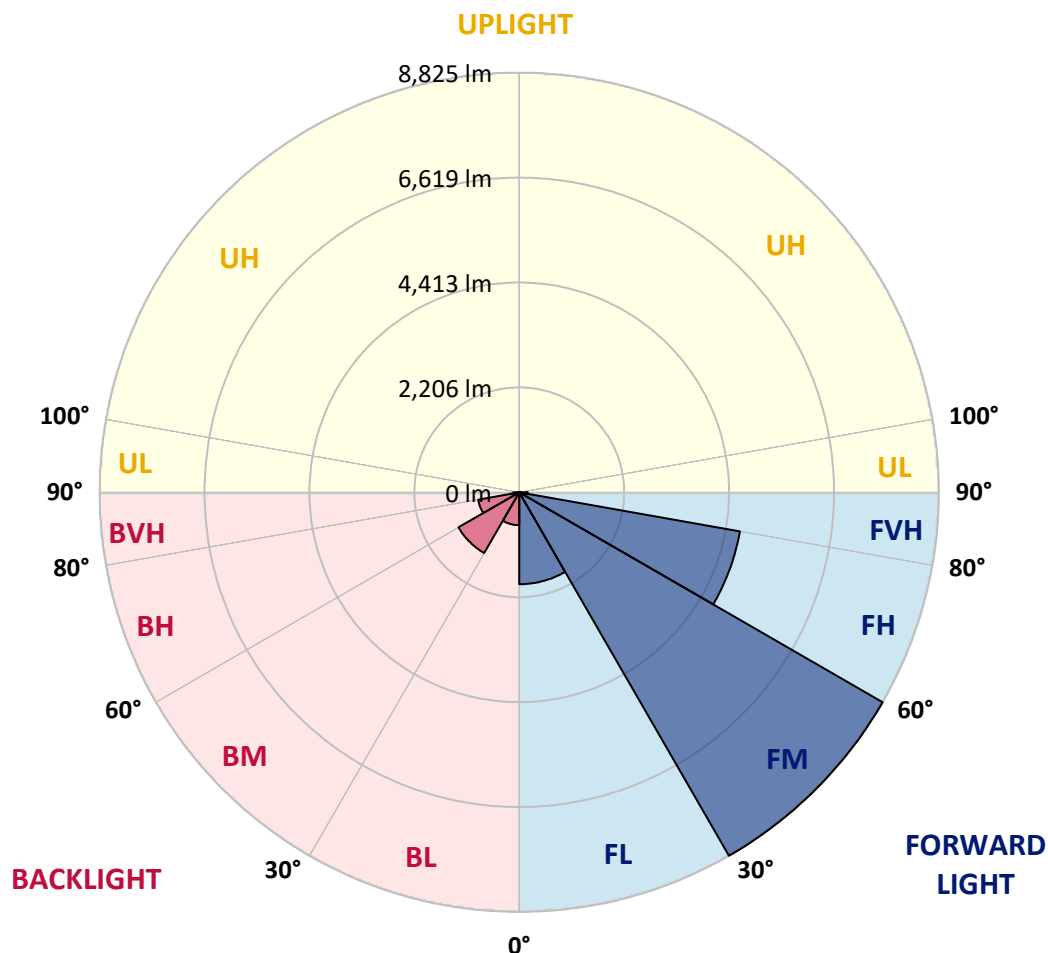
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.1	10.3			
FM	(30°-60°)	8825.1	46.9			
FH	(60°-80°)	4712.1	25.0			G2/5000
FVH	(80°-90°)	178.9	1.0			G2/225
BL	(0°-30°)	690.5	3.7	B2/1000		
BM	(30°-60°)	1474.2	7.8	B2/2500		
BH	(60°-80°)	877.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	124.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	2280.9	2246.4	2243.2	2192.7	2181.2	2084.8	2013.9	1939.8	1855.5	1838.9	1772.4
5°	2929.8	2926.6	2882.5	2800.1	2735.6	2570.8	2408.0	2235.5	2046.4	2015.8	1866.3
7.5°	3513.6	3508.5	3474.6	3385.8	3292.6	3090.1	2857.6	2593.2	2286.6	2241.2	1993.4
10°	3956.8	3954.9	3943.4	3878.3	3799.1	3604.9	3348.1	2987.3	2565.7	2503.8	2152.5
12.5°	4299.2	4303.0	4310.7	4287.7	4250.0	4084.6	3821.4	3405.0	2863.4	2802.0	2329.4
15°	4531.0	4542.5	4582.1	4614.7	4634.5	4533.0	4278.1	3832.3	3196.8	3123.3	2525.5
17.5°	4647.9	4660.7	4729.0	4827.4	4918.1	4907.9	4705.4	4239.8	3516.8	3445.9	2736.3
20°	4748.8	4758.4	4835.1	4953.2	5113.5	5184.4	5070.8	4632.0	3867.4	3783.1	2959.8
22.5°	5041.4	5053.5	5076.5	5143.6	5285.4	5415.7	5360.7	5003.1	4188.7	4110.1	3171.9
25°	5606.0	5620.7	5570.9	5514.0	5540.8	5631.5	5641.8	5341.6	4514.4	4425.7	3399.9
27.5°	6286.2	6307.3	6222.4	6076.1	5948.3	5913.2	5901.1	5618.8	4825.5	4722.7	3625.3
30°	6952.4	6988.8	6878.3	6688.6	6454.2	6289.4	6167.4	5890.2	5132.1	5033.7	3838.0
32.5°	7603.3	7588.6	7428.3	7243.0	6968.4	6762.1	6467.0	6181.5	5477.0	5363.9	4049.5
35°	8049.1	8054.2	7905.4	7685.7	7423.8	7265.4	6868.1	6495.7	5828.9	5724.8	4289.6
37.5°	8428.5	8404.8	8236.2	8031.2	7805.7	7738.0	7337.6	6841.9	6210.2	6096.5	4545.1
40°	8554.9	8527.5	8417.0	8269.4	8088.7	8082.9	7855.6	7234.1	6641.4	6528.9	4833.2
42.5°	8478.3	8443.2	8397.8	8357.6	8302.0	8327.6	8342.3	7694.0	7115.3	6989.5	5166.6
45°	8195.3	8142.3	8174.3	8261.8	8382.5	8526.8	8781.7	8203.0	7646.1	7540.7	5558.1
47.5°	7760.4	7712.5	7812.1	7999.3	8327.6	8692.9	9197.5	8765.1	8279.7	8174.9	6115.7
50°	7148.5	7162.5	7305.0	7645.4	8141.7	8769.6	9709.7	9509.2	9200.7	9103.0	6876.4
52.5°	6144.4	6147.0	6548.1	7107.0	7812.1	8730.0	9994.0	10460.2	10458.3	10340.2	7600.7
55°	5211.9	5268.8	5586.2	6329.0	7278.2	8571.6	10192.6	10922.7	11284.2	11145.6	8275.8
57.5°	4301.1	4334.3	4635.2	5381.2	6516.2	8149.4	10396.4	11477.7	12235.9	12148.4	9115.1
60°	3265.1	3316.2	3627.3	4316.4	5541.5	7400.1	10415.5	12057.0	13373.4	13285.3	10052.1
62.5°	2119.3	2207.4	2498.7	3144.4	4362.4	6322.6	9971.0	12435.8	14451.6	14420.3	10883.7
65°	1218.0	1284.5	1486.9	1985.1	3009.6	4969.8	8913.9	12290.1	15115.2	15097.3	11194.8
66°	995.1	1036.6	1191.8	1551.4	2483.3	4364.3	8299.5	11982.9	15181.0	15181.6	11159.0
67.5°	795.8	814.4	884.0	1110.7	1832.5	3459.3	7201.5	11305.3	15099.2	15121.6	10928.4
70°	658.5	668.1	689.8	744.7	1000.2	2086.0	5111.6	9544.3	14278.5	14295.7	10028.5
72.5°	590.8	596.6	604.9	612.5	705.8	1165.7	3122.0	7635.2	12518.8	12541.2	8657.1
75°	535.2	538.4	537.2	537.8	592.1	742.8	1613.4	5700.5	10122.4	10077.6	6631.8
77.5°	470.1	473.3	466.9	468.2	523.7	571.0	802.9	3990.7	6831.1	6515.5	3736.5
80°	397.3	399.8	397.3	401.8	456.0	431.1	466.9	2245.1	3020.5	2857.0	1328.5
82.5°	300.2	311.1	318.7	336.6	375.6	306.6	312.3	874.4	919.7	875.7	407.5
85°	131.6	160.3	240.2	257.4	282.3	183.9	205.0	356.4	374.3	362.8	148.2
87.5°	34.5	37.7	118.8	149.5	156.5	83.0	106.7	162.2	171.2	162.2	49.2
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°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1737.3	1706.0	1649.8	1600.0	1562.3	1536.7	1511.2	1498.4	1490.8	1483.1	1484.4
5°	1792.9	1729.6	1633.2	1564.9	1526.5	1502.3	1489.5	1484.4	1481.2	1473.5	1473.5
7.5°	1876.5	1787.1	1654.3	1584.0	1554.0	1535.5	1527.8	1525.3	1521.4	1512.5	1513.8
10°	1981.9	1856.7	1698.3	1630.0	1602.5	1582.1	1571.2	1567.4	1560.4	1550.2	1551.4
12.5°	2105.8	1943.0	1756.5	1684.9	1651.7	1624.3	1606.4	1595.5	1583.4	1570.0	1570.6
15°	2241.2	2036.9	1819.1	1734.1	1688.8	1650.4	1621.7	1603.2	1584.0	1567.4	1566.8
17.5°	2378.6	2127.6	1867.0	1760.9	1699.6	1649.2	1610.2	1581.5	1557.8	1537.4	1535.5
20°	2526.8	2209.3	1893.8	1758.4	1679.2	1619.1	1567.4	1531.6	1505.5	1485.0	1481.8
22.5°	2677.5	2286.0	1898.3	1732.2	1633.8	1560.4	1506.1	1466.5	1439.7	1418.6	1410.9
25°	2815.5	2345.4	1879.7	1681.7	1570.6	1491.4	1438.4	1398.1	1376.4	1351.5	1343.9
27.5°	2941.3	2386.9	1842.7	1617.2	1499.7	1421.8	1372.0	1337.5	1313.8	1294.7	1288.3
30°	3054.3	2409.2	1782.0	1540.6	1426.9	1356.0	1313.8	1290.2	1269.8	1245.5	1241.0
32.5°	3161.6	2409.2	1704.1	1456.9	1354.7	1297.9	1273.0	1258.3	1235.3	1211.6	1205.3
35°	3268.9	2394.5	1612.1	1369.4	1288.3	1256.4	1255.1	1237.8	1202.7	1170.8	1162.5
37.5°	3382.0	2364.5	1508.6	1287.6	1234.0	1237.8	1248.7	1210.4	1160.5	1115.2	1103.1
40°	3509.7	2323.0	1401.3	1216.8	1188.6	1229.5	1231.4	1170.8	1073.7	1032.2	1021.3
42.5°	3659.8	2281.5	1301.7	1154.2	1152.9	1204.6	1198.9	1085.2	1027.1	1006.0	1000.2
45°	3857.2	2257.9	1207.2	1094.8	1124.8	1164.4	1143.3	1037.9	1013.6	1001.5	996.4
47.5°	4168.3	2270.0	1120.3	1047.5	1096.7	1124.1	1039.8	1018.7	1001.5	986.8	981.7
50°	4557.9	2263.0	1050.0	1014.9	1064.7	1082.0	993.2	993.8	984.9	968.3	960.6
52.5°	4851.0	2208.0	1004.7	996.4	1036.6	1007.3	963.8	969.6	965.1	940.8	932.5
55°	5134.0	2160.8	981.7	989.4	1016.2	914.0	929.3	943.4	938.9	915.3	911.4
57.5°	5485.9	2151.8	967.7	991.3	998.9	867.4	896.1	914.6	911.4	901.2	899.3
60°	5917.1	2154.4	954.9	994.5	979.8	832.9	864.8	888.5	890.4	888.5	887.2
62.5°	6154.0	2084.8	922.9	985.5	945.9	802.9	832.2	866.7	867.4	871.2	870.6
65°	5952.8	1876.5	863.5	954.2	889.1	778.0	804.1	841.8	832.2	849.5	849.5
66°	5757.4	1756.5	834.2	933.8	864.8	768.4	795.2	829.1	816.9	840.5	840.5
67.5°	5358.2	1554.0	781.1	890.4	830.3	755.0	785.0	808.0	791.4	826.5	823.9
70°	4628.8	1202.1	674.5	792.0	773.5	735.2	770.9	765.8	741.5	795.2	785.0
72.5°	3902.5	913.4	541.6	663.0	687.3	710.3	751.1	712.2	681.5	719.2	696.8
75°	3028.1	686.6	427.9	515.4	580.6	671.3	727.5	650.2	606.1	602.3	590.2
77.5°	1637.0	471.4	339.2	393.4	461.2	622.7	711.5	583.8	517.4	502.0	492.4
80°	648.3	306.6	246.5	298.3	322.6	552.5	673.2	506.5	426.7	411.3	396.6
82.5°	267.6	181.4	159.0	199.9	210.1	472.6	604.2	415.2	329.6	456.0	484.1
85°	115.0	99.6	94.5	103.5	118.8	331.5	481.0	316.8	355.8	317.4	252.3
87.5°	34.5	42.2	40.2	39.6	43.4	79.2	256.1	176.3	261.2	99.0	74.1
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)