

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: P318316

Luminaire Tested: **GAN-SA2B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9781 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

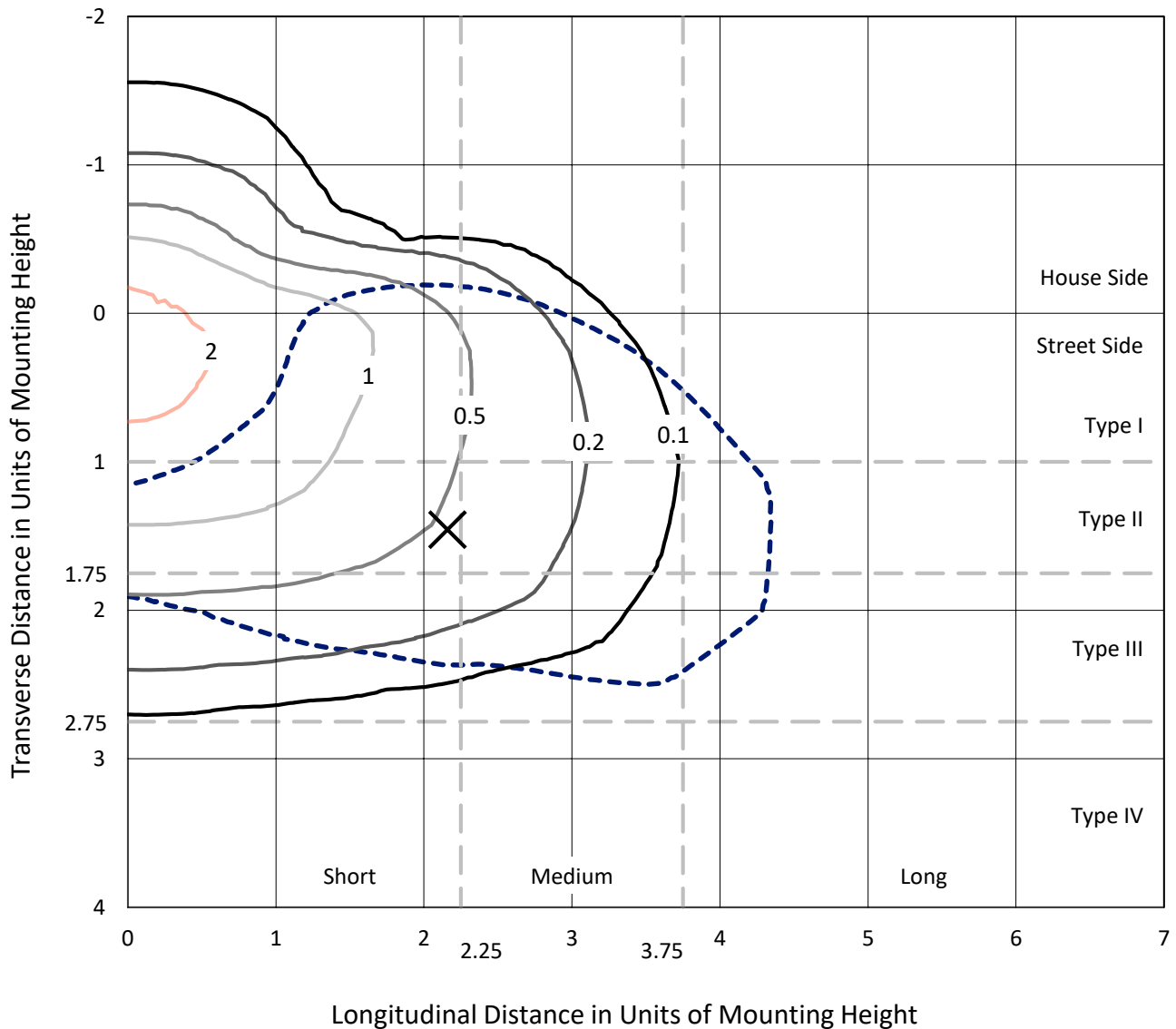
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

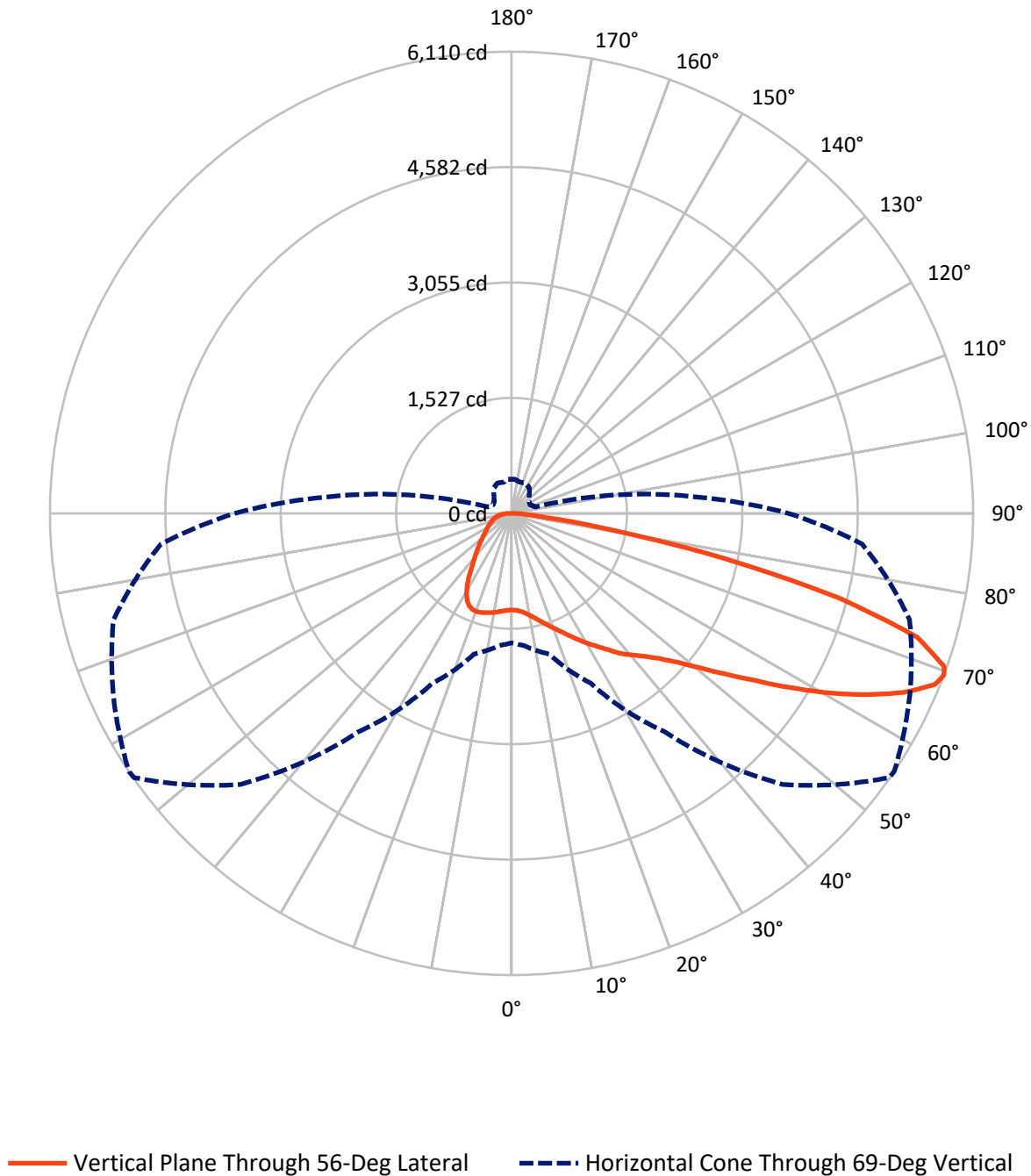
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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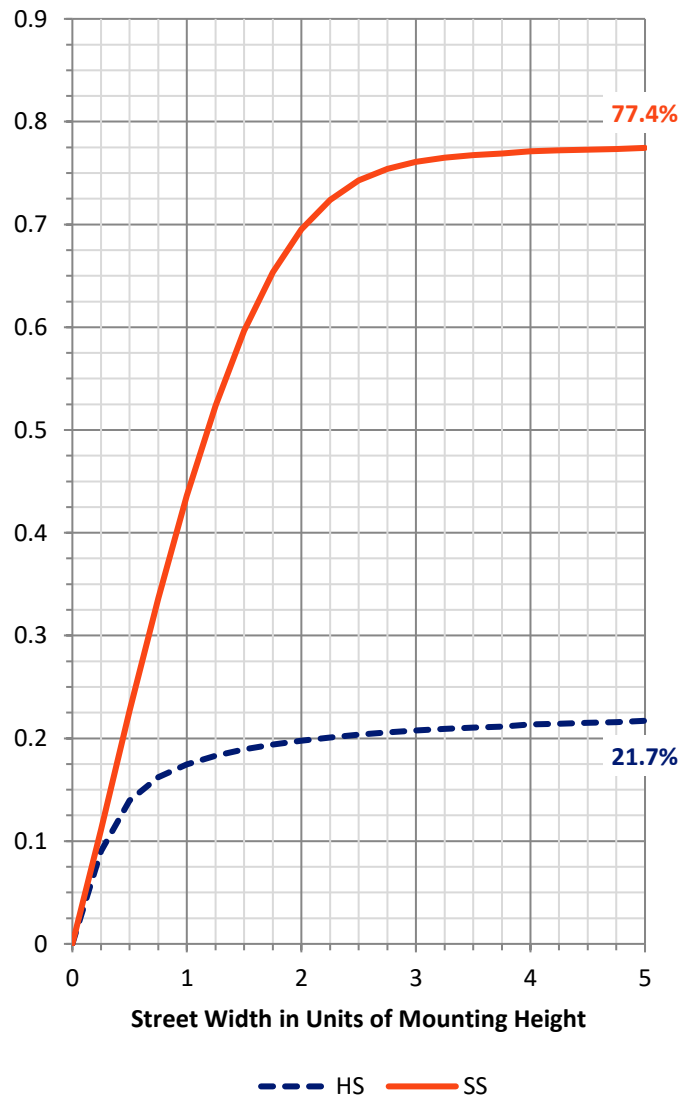
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2178.2	0.0	2178.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7602.8	0.0	7602.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	9781.0	0.0	9781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.3
10°-20°	403.8	4.1
20°-30°	705.0	7.2
30°-40°	1012.7	10.4
40°-50°	1401.5	14.3
50°-60°	2053.3	21.0
60°-70°	2503.4	25.6
70°-80°	1384.0	14.2
80°-90°	191.7	2.0
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°	9781.0	100.0
0°-180°	9781.0	100.0

Coefficient of Utilization



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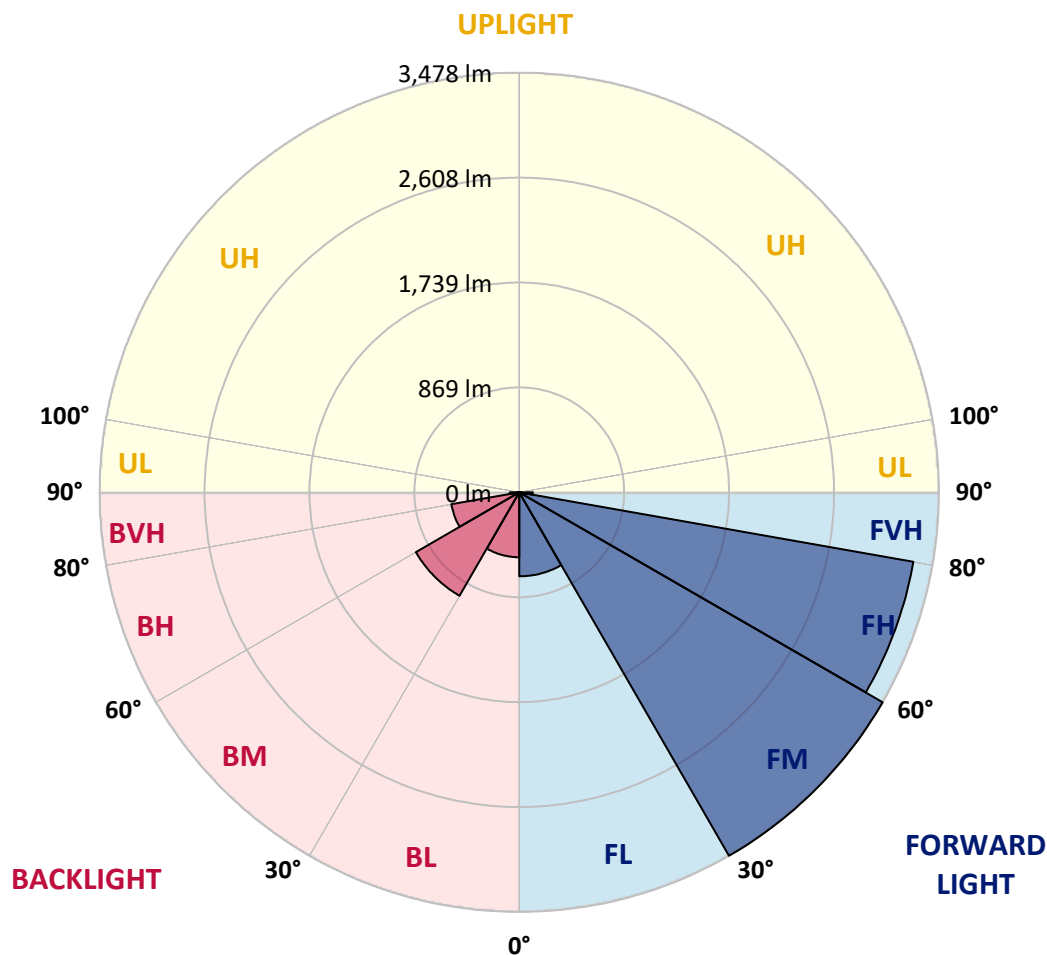
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.1	7.1			
FM	(30°-60°)	3477.5	35.6			
FH	(60°-80°)	3316.3	33.9			G2/5000
FVH	(80°-90°)	112.9	1.2			G2/225
BL	(0°-30°)	538.3	5.5	B2/1000		
BM	(30°-60°)	989.9	10.1	B1/1000		
BH	(60°-80°)	571.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	78.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1286.8	1288.2	1287.1	1289.8	1286.8	1288.8	1287.1	1287.1	1286.1	1283.1	1279.7
5°	1307.0	1309.7	1308.0	1310.7	1307.0	1307.7	1304.7	1304.7	1301.6	1295.2	1288.5
7.5°	1338.7	1341.7	1340.4	1343.1	1338.0	1338.0	1334.0	1333.6	1327.6	1317.1	1309.4
10°	1376.4	1380.5	1379.1	1383.2	1379.1	1380.5	1376.4	1376.4	1368.3	1353.5	1343.7
12.5°	1431.4	1436.4	1432.7	1432.4	1430.7	1433.4	1430.0	1429.3	1421.9	1401.7	1388.2
15°	1504.8	1510.2	1502.5	1501.8	1492.3	1491.3	1491.3	1490.3	1485.6	1461.3	1439.1
17.5°	1589.4	1591.1	1584.3	1573.5	1561.4	1553.7	1552.7	1555.4	1555.4	1527.0	1491.7
20°	1672.3	1675.3	1669.9	1657.8	1642.3	1630.8	1622.7	1628.1	1627.8	1594.1	1543.9
22.5°	1762.6	1769.7	1761.6	1746.1	1727.9	1715.1	1700.9	1705.6	1706.0	1664.5	1595.1
25°	1879.5	1873.1	1868.0	1846.1	1820.2	1807.1	1793.9	1798.6	1797.3	1740.3	1648.0
27.5°	1982.9	1984.3	1977.5	1954.3	1924.3	1895.3	1894.7	1897.7	1892.6	1819.2	1697.9
30°	2103.2	2103.9	2094.5	2073.6	2040.9	2003.5	1994.7	1999.8	1989.0	1894.0	1750.4
32.5°	2222.8	2226.2	2215.8	2190.5	2164.2	2118.7	2101.2	2104.6	2077.6	1970.5	1804.7
35°	2327.6	2332.4	2329.0	2312.1	2283.5	2244.4	2223.5	2221.5	2188.1	2064.1	1876.5
37.5°	2434.5	2438.8	2435.1	2421.0	2409.5	2368.1	2357.0	2357.0	2299.0	2159.8	1967.8
40°	2544.3	2551.0	2546.7	2527.1	2517.3	2498.5	2471.9	2465.5	2402.8	2274.7	2116.7
42.5°	2646.4	2655.2	2672.7	2661.2	2641.3	2644.0	2590.5	2587.1	2541.3	2444.6	2303.7
45°	2791.3	2804.1	2833.7	2825.0	2820.9	2806.1	2742.4	2739.4	2721.9	2673.0	2535.9
47.5°	2949.3	2966.8	3020.4	3022.1	3065.6	3037.6	2951.0	2940.5	2944.6	2946.6	2819.2
50°	3094.9	3114.1	3202.0	3243.5	3345.9	3352.0	3213.5	3204.0	3219.9	3266.4	3149.5
52.5°	3211.1	3235.4	3345.2	3473.3	3648.8	3698.7	3536.6	3529.5	3541.3	3621.5	3522.8
55°	3296.4	3322.6	3442.3	3675.4	3955.8	4043.7	3908.6	3901.9	3909.3	4011.4	3928.8
57.5°	3316.2	3322.6	3496.2	3811.6	4214.9	4426.2	4363.8	4350.3	4313.9	4402.9	4377.0
60°	3222.9	3248.5	3451.7	3859.4	4415.4	4803.2	4839.6	4822.7	4720.6	4793.4	4772.5
62.5°	3033.5	3079.4	3285.6	3786.6	4493.9	5111.2	5306.3	5286.0	5110.2	5157.3	5056.9
65°	2724.2	2743.8	2960.4	3535.6	4394.1	5308.3	5722.4	5712.3	5490.9	5417.1	5109.5
67.5°	2171.0	2207.7	2391.7	3011.0	3986.1	5285.0	6044.2	6043.2	5739.6	5513.5	4923.2
69°	1715.1	1753.1	1928.4	2480.3	3527.2	5072.4	6098.1	6109.9	5809.7	5454.9	4657.0
70°	1367.3	1411.5	1531.8	2089.1	3119.8	4792.1	6053.3	6074.5	5796.2	5358.2	4411.3
72.5°	581.9	617.6	703.2	1076.9	1901.4	3578.4	5534.7	5614.9	5483.8	4903.9	3645.8
75°	254.1	265.2	303.9	439.0	844.1	1947.6	4335.8	4484.1	4689.0	4145.1	2715.8
77.5°	186.0	190.7	211.9	257.8	378.7	735.6	2788.2	2874.5	3381.6	3016.4	1665.9
80°	143.9	147.2	163.8	189.4	247.3	297.5	1271.6	1345.8	1901.4	1549.3	693.8
82.5°	114.6	116.9	128.4	139.5	170.8	180.3	422.2	468.4	701.9	427.9	183.6
85°	106.5	109.2	113.2	101.8	109.5	105.8	182.6	191.0	211.9	168.1	76.8
87.5°	48.2	56.9	112.2	79.2	58.3	46.5	74.8	78.2	87.9	88.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1281.8	1280.7	1282.4	1278.4	1283.4	1283.1	1281.4	1282.1	1285.5	1285.1	1285.5
5°	1289.5	1288.8	1290.8	1287.8	1293.9	1295.9	1296.2	1299.3	1303.0	1304.0	1304.0
7.5°	1309.0	1309.0	1310.1	1306.0	1310.1	1309.7	1308.0	1311.1	1314.8	1315.1	1314.8
10°	1342.7	1343.1	1341.4	1330.9	1327.6	1318.5	1310.1	1310.4	1315.1	1318.8	1319.8
12.5°	1385.2	1383.8	1376.4	1357.2	1343.1	1324.5	1315.8	1315.4	1320.2	1323.2	1324.2
15°	1433.7	1430.0	1410.8	1379.5	1354.5	1336.3	1322.2	1318.8	1316.1	1312.8	1313.1
17.5°	1479.5	1471.1	1439.1	1395.6	1369.4	1345.1	1317.8	1295.9	1280.7	1272.0	1269.3
20°	1526.0	1509.5	1463.4	1410.8	1377.4	1333.3	1280.7	1236.3	1208.6	1195.8	1193.5
22.5°	1568.5	1541.9	1485.9	1426.6	1371.0	1293.5	1211.0	1146.3	1107.9	1090.7	1092.0
25°	1609.9	1572.9	1509.5	1437.8	1338.7	1223.5	1114.0	1034.4	990.0	970.7	970.1
27.5°	1646.3	1604.2	1535.1	1428.7	1278.4	1123.7	999.1	921.6	884.5	868.0	865.3
30°	1688.1	1643.6	1569.2	1394.0	1190.1	1008.5	886.8	832.3	806.0	789.5	786.4
32.5°	1739.0	1697.2	1597.1	1330.9	1077.2	888.2	799.2	761.2	737.2	718.7	715.3
35°	1813.1	1768.0	1604.2	1240.6	953.2	793.2	734.9	695.8	663.5	639.5	637.2
37.5°	1906.1	1856.6	1588.0	1123.7	832.9	731.5	681.3	633.1	591.0	557.3	551.9
40°	2040.2	1965.4	1543.2	988.9	744.3	684.0	629.1	574.2	521.9	482.5	474.8
42.5°	2201.3	2093.1	1474.5	854.8	679.3	635.8	577.2	509.1	459.3	431.3	427.3
45°	2406.1	2225.9	1379.1	737.6	615.3	587.6	521.3	458.6	427.6	407.0	403.7
47.5°	2640.0	2374.8	1279.1	642.2	561.0	542.5	476.4	436.0	411.4	395.2	392.2
50°	2927.4	2542.9	1172.9	564.1	506.4	488.2	455.2	423.5	404.0	391.5	388.5
52.5°	3251.6	2732.7	1096.4	502.4	461.3	448.1	444.1	416.8	401.0	391.5	388.5
55°	3600.6	2925.7	1013.9	450.5	422.2	425.9	436.7	417.5	406.7	395.2	390.9
57.5°	3950.0	3125.2	921.9	406.7	391.2	409.4	431.6	418.8	409.7	398.6	394.6
60°	4226.3	3251.6	779.4	370.0	366.6	391.2	419.5	408.7	396.9	397.3	396.6
62.5°	4355.4	3244.8	622.0	337.3	342.0	366.6	400.0	392.9	383.1	396.3	397.3
65°	4282.9	3083.1	484.2	307.6	315.7	341.0	379.7	385.1	388.5	413.8	417.1
67.5°	3979.0	2768.4	375.0	281.7	291.8	323.5	381.8	419.5	423.9	450.5	450.2
69°	3664.6	2473.2	325.8	268.2	280.0	327.9	408.0	441.4	424.9	453.2	449.2
70°	3401.2	2239.7	299.5	259.1	274.6	335.6	425.6	441.1	419.8	444.1	437.4
72.5°	2619.4	1611.3	254.1	242.3	256.4	321.1	430.6	431.3	408.0	412.8	401.3
75°	1796.6	1018.3	221.7	219.4	228.8	289.4	414.4	412.1	377.4	370.6	361.2
77.5°	990.6	517.2	188.4	197.5	203.9	256.4	376.7	373.3	344.7	330.5	327.2
80°	382.1	226.4	159.0	175.6	179.6	222.0	330.2	327.2	303.3	285.1	280.0
82.5°	144.2	118.6	131.4	152.0	150.6	183.3	279.7	278.0	254.7	228.1	220.0
85°	66.7	71.1	104.1	125.3	115.6	135.8	223.7	226.8	198.5	166.8	166.8
87.5°	28.3	39.8	73.8	94.7	77.8	91.6	164.1	156.7	143.9	99.7	93.7
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)