

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: P194030

Luminaire Tested: **GAN-AF-02-LED-U-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10162 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

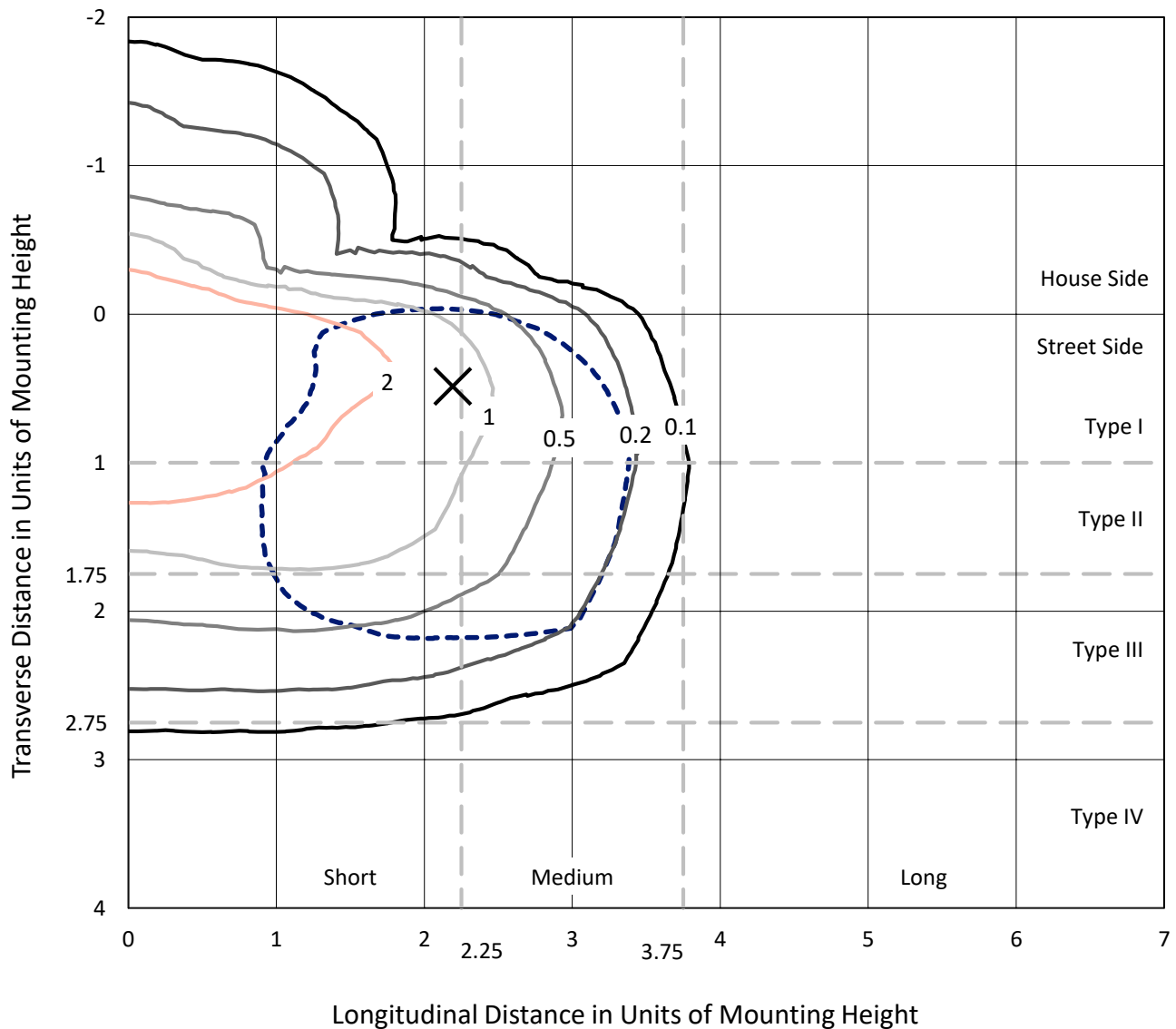


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

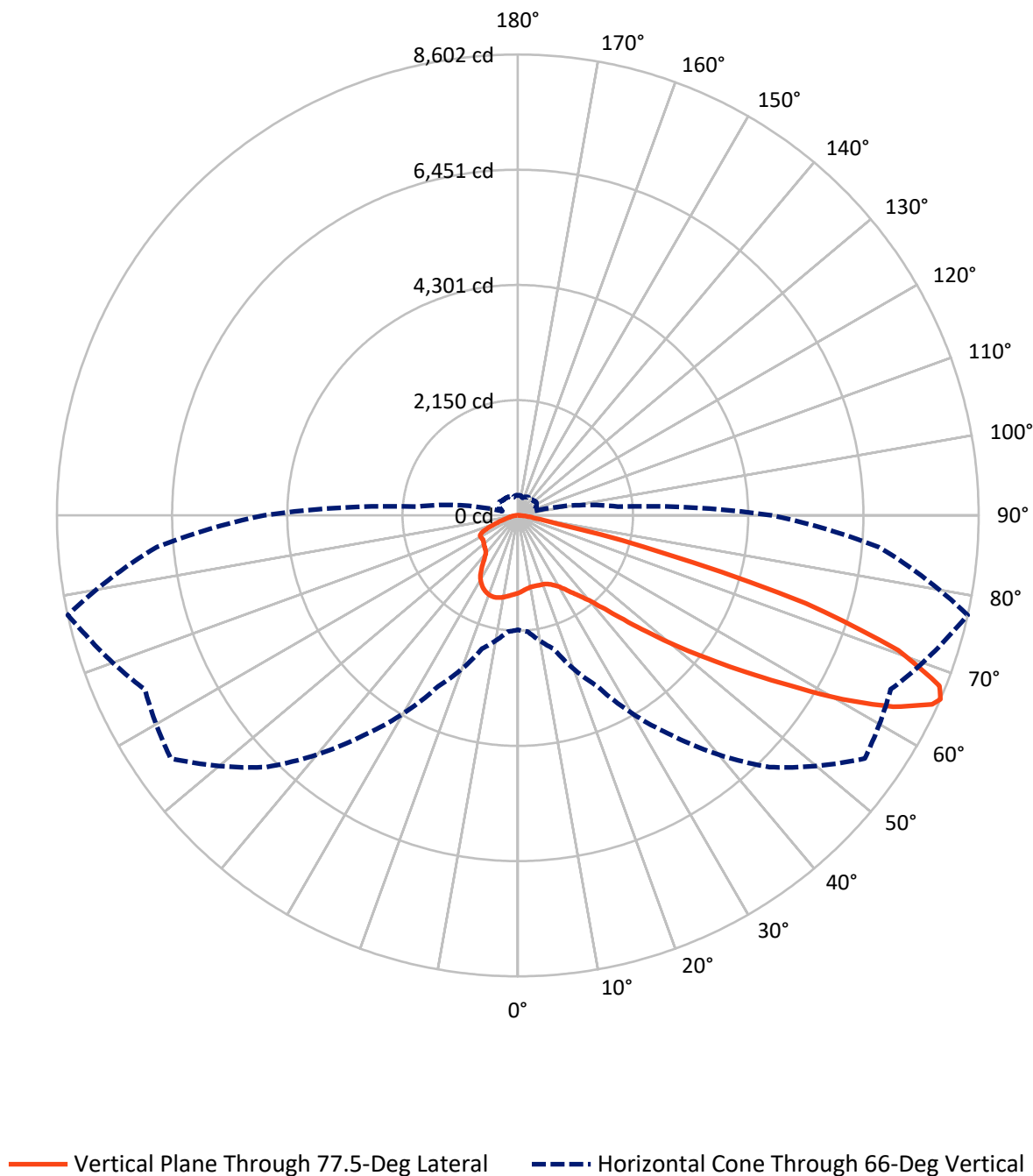


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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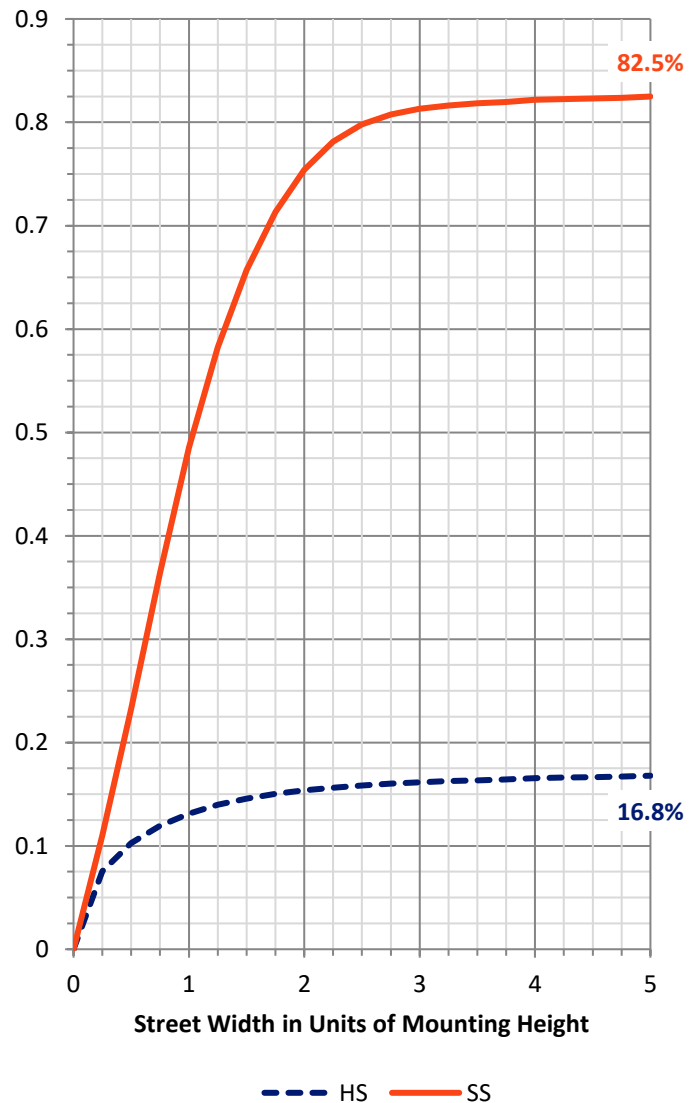
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.1	0.0	1736.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8425.9	0.0	8425.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	10162.0	0.0	10162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.3
10°-20°	365.0	3.6
20°-30°	622.9	6.1
30°-40°	997.2	9.8
40°-50°	1540.6	15.2
50°-60°	2185.1	21.5
60°-70°	2923.0	28.8
70°-80°	1269.4	12.5
80°-90°	129.4	1.3
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°	10162.0	100.0
0°-180°	10162.0	100.0

Coefficient of Utilization



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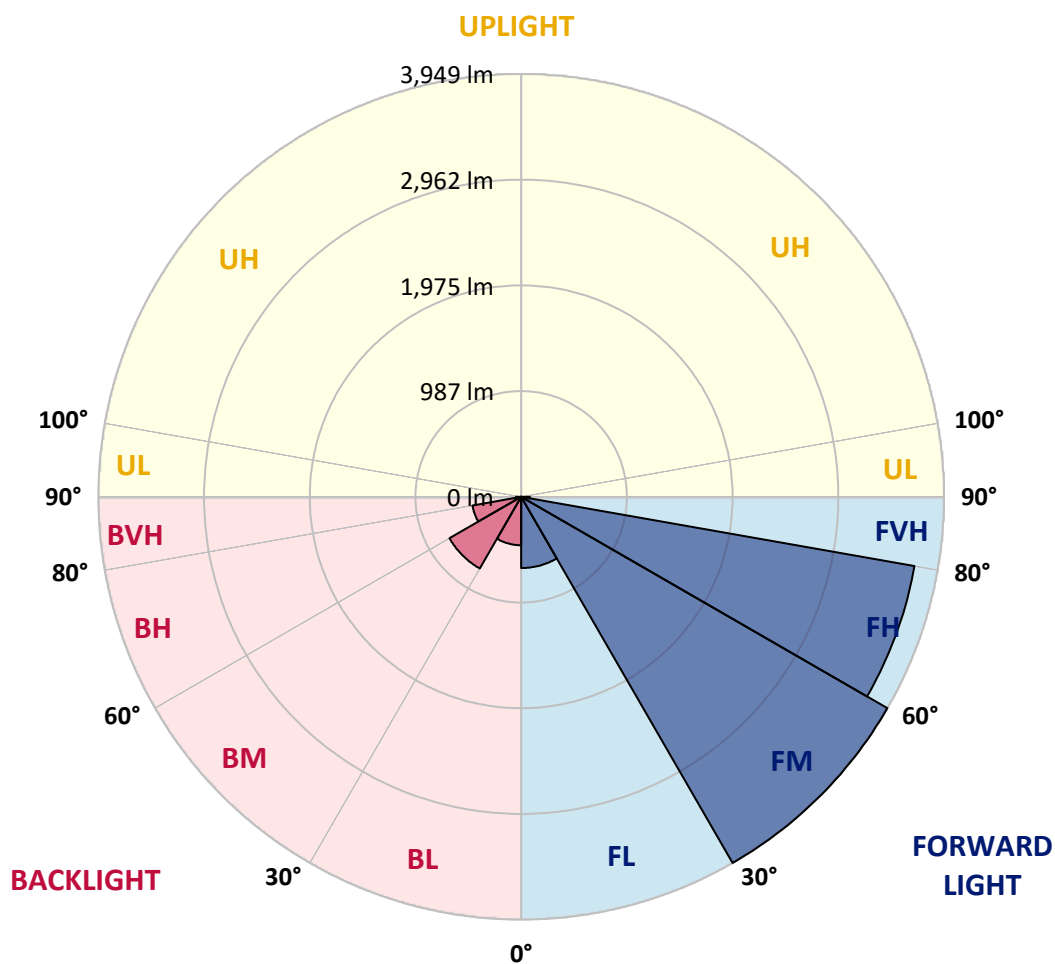
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	665.1	6.5			
FM	(30°-60°)	3949.5	38.9			
FH	(60°-80°)	3730.1	36.7			G2/5000
FVH	(80°-90°)	81.2	0.8			G1/100
BL	(0°-30°)	452.2	4.4	B1/500		
BM	(30°-60°)	773.3	7.6	B1/1000		
BH	(60°-80°)	462.4	4.5	B1/500		G1/500
BVH	(80°-90°)	48.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1
2.5°	1281.0	1289.7	1296.9	1303.6	1317.1	1339.1	1364.6	1385.2	1415.0	1420.8	1436.6
5°	1163.4	1163.4	1169.2	1179.2	1197.5	1230.6	1265.2	1311.3	1376.1	1391.5	1433.7
7.5°	1106.3	1106.7	1110.1	1118.8	1134.6	1164.8	1202.8	1257.0	1344.9	1370.3	1442.4
10°	1127.4	1122.6	1115.4	1111.1	1113.5	1131.2	1167.2	1227.7	1325.7	1358.3	1461.6
12.5°	1245.5	1236.4	1211.4	1178.3	1146.6	1133.6	1154.8	1213.8	1317.5	1355.5	1487.0
15°	1438.5	1434.7	1388.1	1319.5	1242.6	1178.3	1163.9	1208.5	1318.5	1358.8	1517.3
17.5°	1680.5	1675.2	1613.8	1513.9	1388.6	1263.3	1196.1	1212.9	1321.9	1364.6	1546.6
20°	1924.9	1908.6	1842.3	1723.3	1562.4	1379.0	1249.4	1223.9	1326.2	1370.8	1577.3
22.5°	2107.4	2093.9	2034.4	1918.7	1733.3	1513.0	1320.9	1243.1	1340.1	1389.1	1615.2
25°	2267.7	2268.7	2209.7	2097.8	1906.2	1655.1	1413.1	1294.5	1375.6	1426.5	1667.1
27.5°	2466.1	2454.5	2399.3	2288.4	2077.1	1798.6	1524.5	1365.1	1428.4	1479.8	1735.3
30°	2703.2	2695.1	2631.2	2505.4	2266.8	1952.8	1651.7	1447.2	1496.6	1549.9	1824.6
32.5°	2982.2	2978.4	2912.1	2750.3	2485.7	2134.3	1801.0	1555.7	1598.4	1653.6	1952.8
35°	3309.7	3310.2	3231.9	3037.4	2725.3	2345.5	1970.5	1695.4	1722.3	1779.9	2105.5
37.5°	3511.3	3535.8	3506.5	3308.2	2996.6	2581.8	2190.4	1880.7	1863.5	1921.6	2269.2
40°	3554.6	3584.3	3677.0	3576.2	3300.1	2842.0	2385.4	2058.9	2037.3	2108.3	2480.0
42.5°	3494.1	3535.3	3731.2	3802.3	3622.3	3162.8	2647.5	2323.4	2296.1	2391.6	2742.1
45°	3458.0	3488.8	3715.4	3919.9	3901.7	3525.3	2981.3	2655.7	2645.6	2770.9	3044.6
47.5°	3395.6	3423.5	3641.5	3947.3	4065.9	3857.5	3382.2	3061.9	3081.6	3245.8	3386.0
50°	3429.2	3440.8	3558.9	3877.7	4113.4	4101.0	3830.2	3532.5	3599.7	3804.7	3772.5
52.5°	3424.4	3454.2	3549.3	3763.4	4119.7	4251.3	4271.4	4057.3	4198.9	4434.2	4201.3
55°	2768.5	2823.3	3436.4	3734.6	4141.8	4398.7	4664.2	4610.4	4874.5	5148.7	4685.3
57.5°	2643.7	2678.3	3018.2	3795.1	4258.9	4680.0	5101.1	5219.2	5661.0	5979.3	5274.9
60°	2619.2	2662.0	3013.9	3869.1	4496.6	5138.6	5748.8	5956.3	6617.9	6966.5	5958.7
62.5°	2542.9	2589.0	2985.6	3859.4	4834.2	5772.8	6578.1	6739.9	7525.4	7864.4	6530.5
65°	2300.9	2344.1	2754.6	3704.4	5061.7	6449.9	7559.5	7458.2	8241.8	8496.7	6815.7
66°	2135.2	2177.5	2572.6	3521.9	5008.9	6641.9	7907.1	7680.5	8402.2	8601.9	6760.0
67.5°	1832.3	1865.4	2219.3	3113.3	4728.0	6695.7	8199.5	7847.6	8419.0	8489.5	6441.7
70°	1157.6	1167.2	1442.4	2149.2	3579.0	5806.9	7754.4	7432.7	7724.7	7533.6	5400.3
72.5°	502.2	498.9	692.4	1093.3	2026.2	3896.4	6272.7	6133.0	6059.5	5623.5	3780.2
75°	279.4	283.3	359.6	507.5	823.5	1913.9	4103.4	3926.7	3315.4	2829.0	1714.1
77.5°	224.2	229.5	298.2	360.1	369.7	667.4	1920.1	1562.4	940.6	754.8	476.3
80°	177.2	186.8	260.2	280.4	249.2	275.1	620.4	496.0	372.1	341.4	246.8
82.5°	140.2	146.9	223.3	212.2	174.3	185.3	297.2	289.5	242.0	220.4	142.6
85°	100.8	113.3	183.4	159.9	114.3	124.8	197.3	189.2	138.8	113.3	62.9
87.5°	41.3	53.8	129.6	106.1	63.9	58.1	98.4	92.7	65.8	48.0	31.2
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°	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1
2.5°	1446.7	1458.2	1473.1	1482.2	1487.0	1490.4	1495.7	1495.2	1496.6	1497.1	1499.0
5°	1456.3	1475.5	1497.1	1502.9	1502.9	1497.6	1492.3	1483.7	1480.3	1479.3	1480.3
7.5°	1481.3	1502.4	1521.1	1514.4	1500.0	1478.9	1451.5	1427.5	1414.5	1410.2	1409.2
10°	1513.0	1538.4	1546.1	1520.6	1478.4	1427.5	1373.2	1333.9	1311.3	1305.0	1303.1
12.5°	1551.4	1575.4	1564.8	1511.0	1432.8	1350.7	1275.8	1212.9	1165.8	1150.9	1150.0
15°	1593.6	1612.3	1575.4	1481.3	1364.6	1243.6	1110.1	1001.6	943.0	924.3	922.8
17.5°	1633.0	1642.6	1569.1	1429.4	1264.2	1068.3	891.2	807.6	787.4	792.2	793.2
20°	1666.6	1666.6	1548.0	1355.0	1106.3	837.4	725.5	724.1	738.5	752.9	755.8
22.5°	1703.6	1681.5	1511.0	1249.8	882.5	685.2	668.8	682.3	698.6	714.5	716.9
25°	1749.2	1693.5	1459.7	1090.4	693.8	622.3	628.5	639.6	647.7	657.8	659.2
27.5°	1800.1	1708.9	1392.0	871.0	602.1	582.9	587.7	591.5	590.6	594.4	595.4
30°	1861.1	1726.6	1299.3	680.9	564.2	549.3	540.6	537.3	537.3	543.5	545.9
32.5°	1942.7	1753.0	1166.3	583.4	545.9	525.3	497.4	485.0	489.8	510.9	515.7
35°	2032.5	1781.4	986.2	550.3	542.1	514.2	471.0	448.0	448.5	468.1	474.4
37.5°	2130.4	1817.4	788.9	544.0	550.7	514.7	457.1	425.4	412.4	412.4	414.8
40°	2255.7	1854.3	638.6	548.3	569.0	520.5	449.9	407.6	371.2	372.1	374.0
42.5°	2419.0	1886.0	557.9	557.5	591.1	528.2	449.4	384.1	352.4	374.0	393.7
45°	2600.5	1901.9	522.4	565.6	608.8	533.0	441.7	380.3	354.8	419.2	456.6
47.5°	2809.4	1892.8	502.7	568.5	613.2	533.0	433.1	389.4	371.6	485.4	529.1
50°	3038.4	1866.3	483.5	562.7	611.7	532.0	441.3	398.5	377.9	497.0	527.2
52.5°	3307.8	1844.3	463.3	550.3	601.6	526.7	450.9	394.7	358.2	451.8	472.9
55°	3615.1	1850.5	440.8	532.5	585.8	516.6	447.5	379.3	337.5	398.0	411.0
57.5°	4007.8	1924.9	413.9	509.9	564.2	499.8	435.5	372.1	331.3	361.1	368.8
60°	4446.2	2054.6	380.3	487.4	537.3	472.9	426.4	375.5	334.2	358.2	362.0
62.5°	4767.9	2129.9	351.5	454.2	500.8	443.2	414.8	379.8	341.9	368.3	367.3
65°	4855.3	2006.1	315.5	405.7	451.3	412.0	400.4	384.6	345.2	376.4	372.1
66°	4732.8	1872.6	299.6	383.2	426.4	396.6	393.2	384.1	343.8	377.4	370.2
67.5°	4435.6	1598.9	272.2	350.0	386.5	373.6	381.7	379.8	339.9	376.4	366.4
70°	3617.5	1090.9	232.9	291.5	321.7	328.9	359.6	364.4	327.5	359.6	337.5
72.5°	2527.5	664.5	206.0	226.2	260.2	280.4	329.4	343.3	310.7	314.0	292.9
75°	1221.5	352.9	186.8	175.3	202.1	234.3	292.9	314.5	284.2	262.6	255.0
77.5°	380.8	215.6	158.4	141.2	158.4	189.2	244.9	275.6	253.0	219.9	217.0
80°	204.5	158.4	122.0	113.3	125.3	148.4	192.5	230.0	217.5	197.3	176.2
82.5°	134.9	102.8	90.3	87.9	95.5	113.3	143.1	190.6	190.6	169.0	122.9
85°	69.6	62.9	61.9	61.9	66.7	75.4	97.5	146.9	156.5	89.3	73.9
87.5°	34.6	36.0	33.6	35.1	37.5	37.0	46.6	73.9	88.3	54.3	45.1
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)