

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: P322948

Luminaire Tested: **GAN-SA4A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13626 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

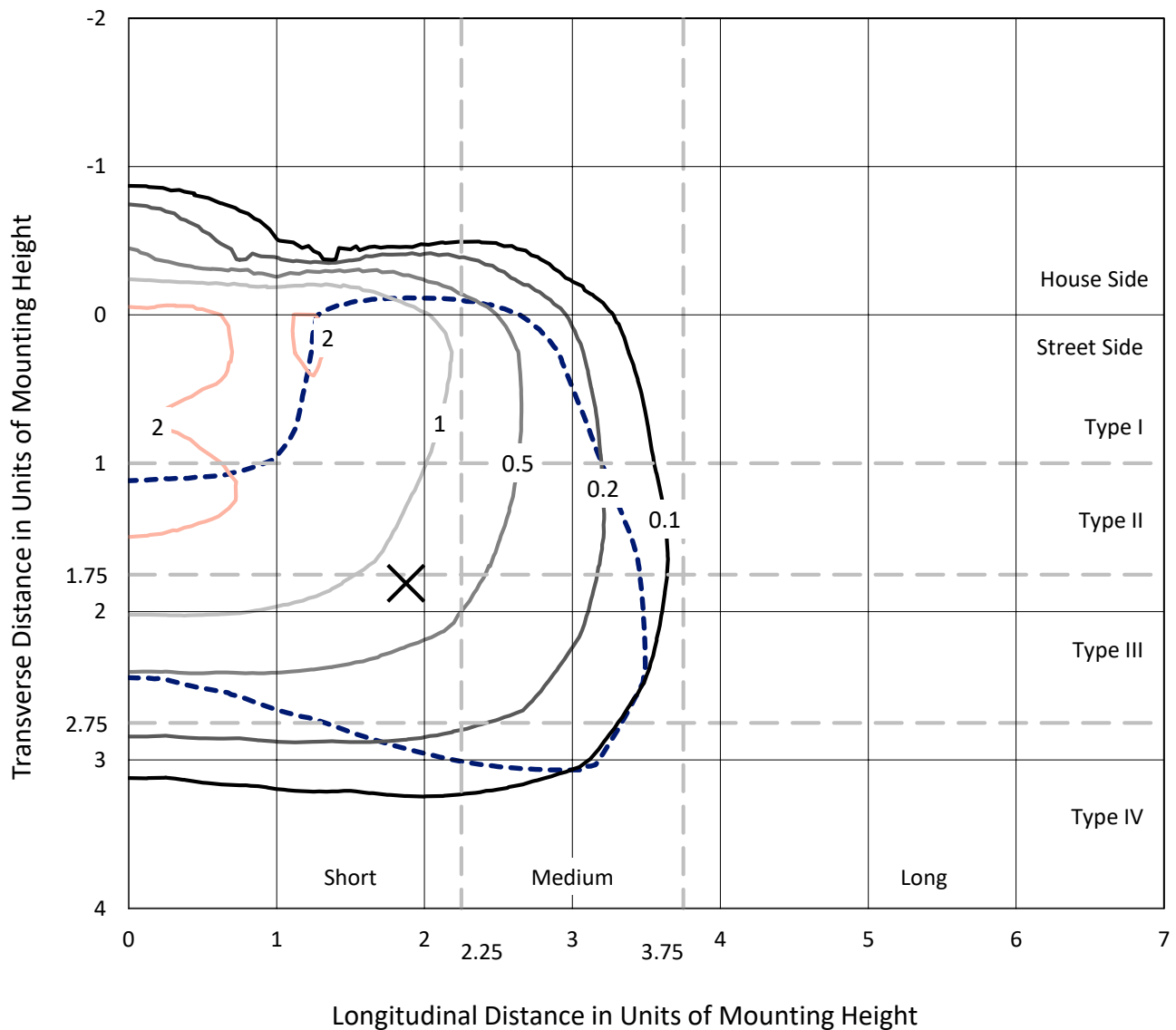
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

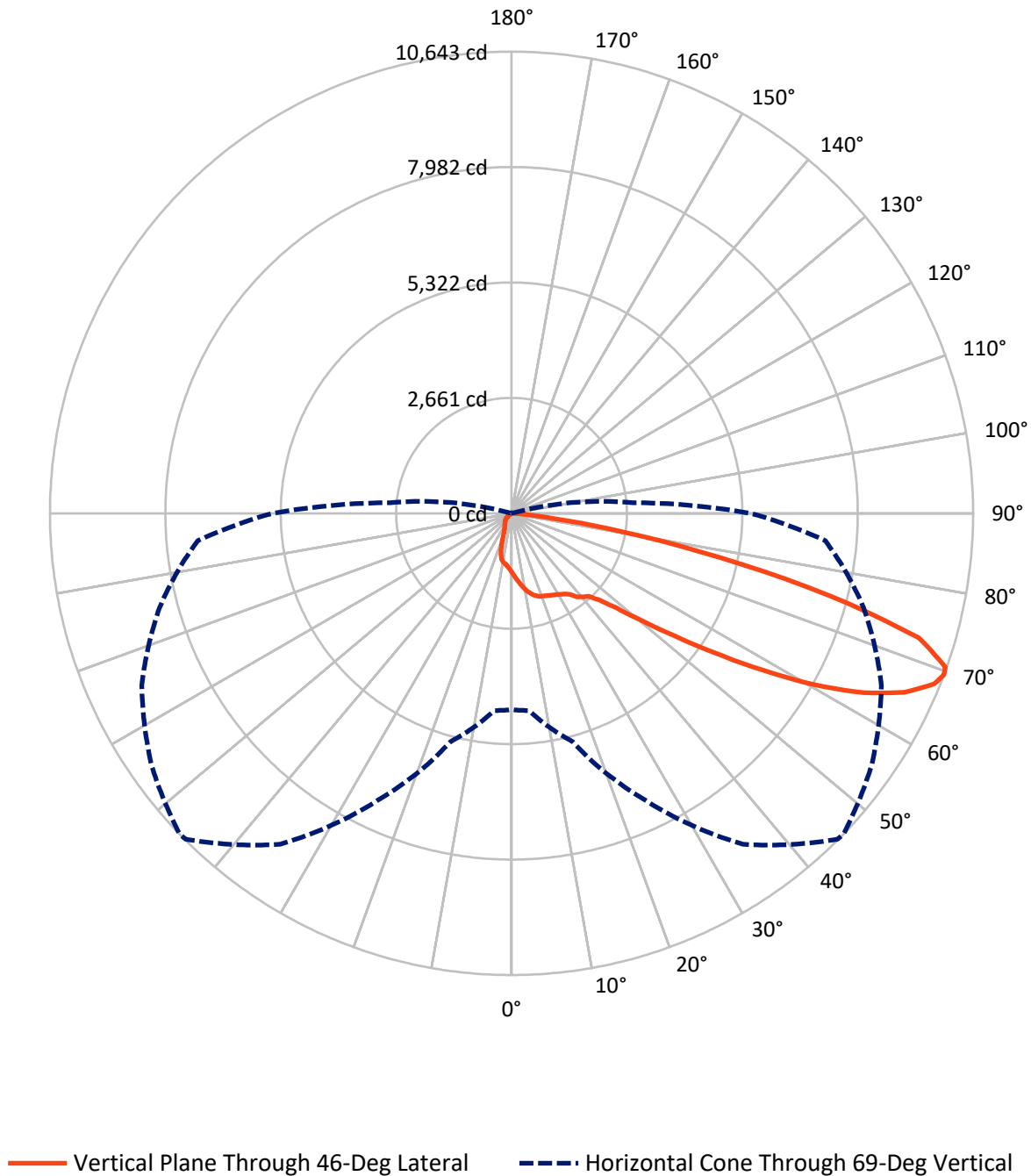
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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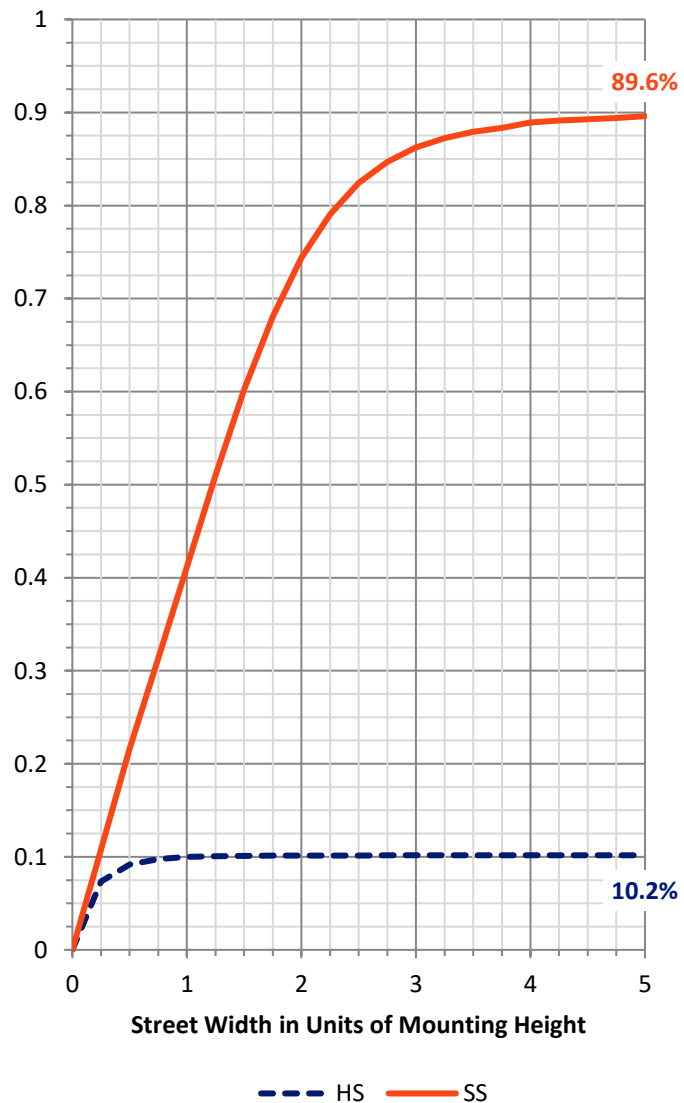
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.4	0.0	1398.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12227.6	0.0	12227.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	13626.0	0.0	13626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.0
10°-20°	412.3	3.0
20°-30°	648.4	4.8
30°-40°	929.7	6.8
40°-50°	1606.9	11.8
50°-60°	3174.7	23.3
60°-70°	4436.9	32.6
70°-80°	2143.5	15.7
80°-90°	137.8	1.0
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°	13626.0	100.0
0°-180°	13626.0	100.0

Coefficient of Utilization



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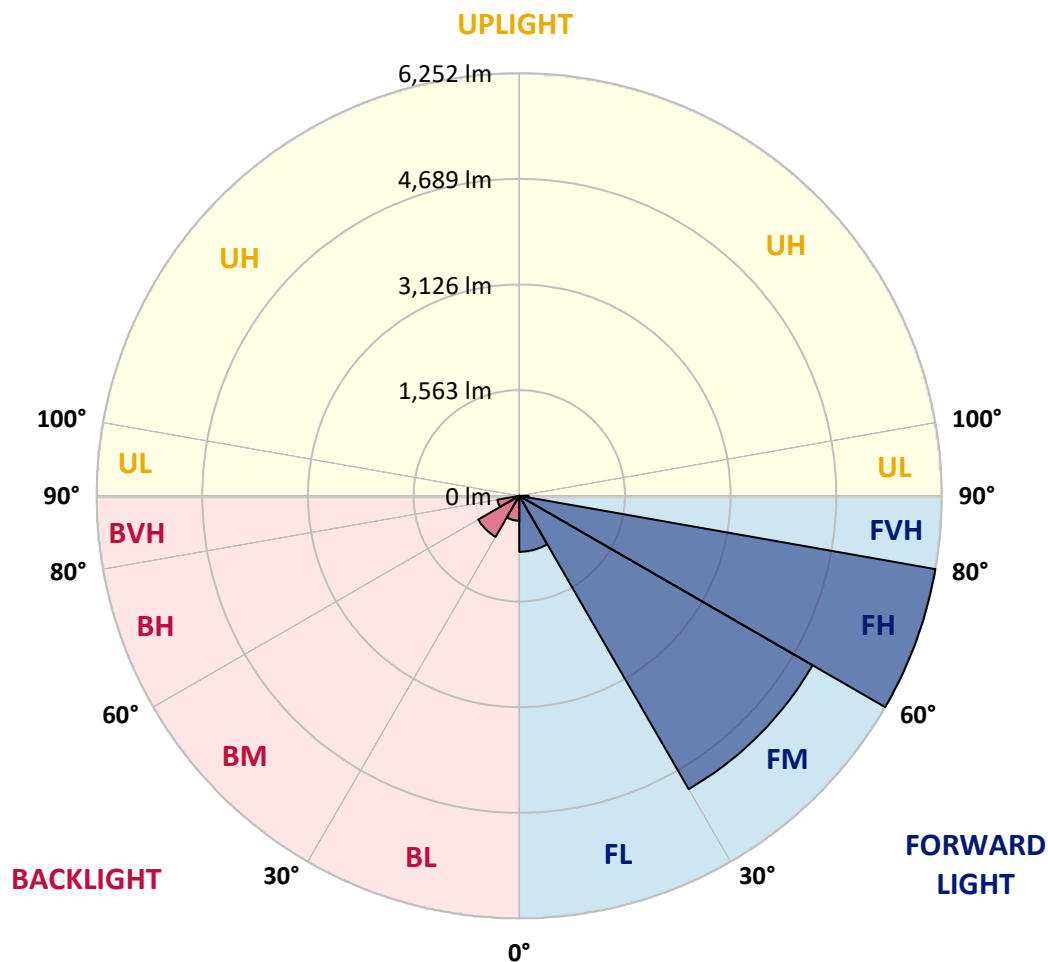
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.9	6.1			
FM	(30°-60°)	5010.6	36.8			
FH	(60°-80°)	6252.5	45.9			G3/7500
FVH	(80°-90°)	136.6	1.0			G2/225
BL	(0°-30°)	368.6	2.7	B1/500		
BM	(30°-60°)	700.8	5.1	B1/1000		
BH	(60°-80°)	327.9	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1516.7	1514.8	1505.8	1502.0	1480.3	1467.5	1462.4	1446.4	1423.4	1400.4	1374.9
5°	1689.2	1688.5	1671.9	1656.0	1615.1	1576.7	1569.7	1532.7	1480.9	1432.4	1383.8
7.5°	1865.5	1857.2	1840.6	1809.9	1750.5	1689.2	1683.4	1631.0	1557.6	1487.3	1417.7
10°	2015.0	2009.9	1988.2	1941.5	1871.9	1802.3	1795.2	1730.7	1647.7	1561.4	1472.6
12.5°	2131.3	2127.5	2098.7	2040.6	1966.5	1894.3	1884.7	1827.2	1738.4	1641.9	1537.1
15°	2202.2	2200.3	2165.1	2103.2	2030.3	1967.7	1959.4	1909.0	1826.5	1725.6	1607.4
17.5°	2218.8	2219.4	2183.0	2120.4	2060.4	2015.6	2009.3	1970.9	1901.9	1801.6	1677.7
20°	2181.8	2189.4	2156.8	2102.5	2065.5	2041.8	2036.7	2013.7	1955.6	1861.0	1733.9
22.5°	2129.4	2133.2	2110.8	2074.4	2059.1	2063.6	2061.0	2048.2	1999.0	1912.2	1789.5
25°	2097.4	2097.4	2084.0	2053.3	2063.6	2091.0	2091.7	2089.1	2050.1	1974.8	1857.2
27.5°	2096.1	2092.3	2077.0	2054.0	2082.1	2124.3	2126.8	2144.1	2119.8	2050.8	1941.5
30°	2147.3	2142.8	2110.2	2080.2	2116.0	2161.3	2167.7	2205.4	2193.3	2133.2	2035.5
32.5°	2266.7	2250.8	2178.6	2129.4	2156.2	2210.5	2218.8	2278.9	2298.0	2234.8	2126.2
35°	2430.3	2379.8	2275.7	2222.6	2225.2	2282.1	2289.7	2377.9	2434.7	2328.1	2196.4
37.5°	2655.8	2630.9	2461.6	2319.8	2331.3	2417.5	2439.9	2535.7	2519.7	2379.2	2276.3
40°	3150.3	3111.3	2931.2	2591.9	2432.8	2527.4	2534.4	2585.5	2586.8	2494.8	2442.4
42.5°	3823.7	3807.7	3617.9	3085.8	2632.8	2600.9	2613.6	2699.9	2796.4	2738.9	2736.3
45°	4569.2	4560.9	4359.7	3741.2	3037.2	2841.7	2857.7	2973.3	3158.0	3170.7	3251.9
47.5°	5169.1	5165.3	5049.7	4472.8	3656.3	3250.0	3255.1	3377.7	3702.3	3862.6	3992.3
50°	5716.0	5734.5	5643.2	5264.3	4499.6	3889.5	3877.3	3959.1	4480.4	4743.0	4904.0
52.5°	6476.3	6502.5	6246.3	6002.9	5384.4	4682.9	4673.4	4759.0	5415.7	5612.5	5641.3
55°	7147.7	7103.0	6900.5	6830.2	6463.5	5663.0	5660.4	5735.8	6320.4	6404.1	6457.1
57.5°	7444.2	7426.9	7524.7	7685.7	7593.7	6821.3	6815.5	6758.0	7129.8	7138.8	7301.7
60°	7631.4	7652.4	7952.1	8448.5	8677.8	8067.7	8030.6	7679.9	7902.9	7883.1	8057.5
62.5°	7490.8	7532.3	8071.5	8898.9	9489.2	9155.7	9103.3	8524.5	8563.5	8495.1	8657.4
65°	6744.6	6809.1	7692.7	8813.9	9891.7	10006.0	9953.0	9270.1	9088.0	8975.5	8885.5
67.5°	5476.4	5514.8	6437.3	8074.7	9710.2	10513.3	10502.5	9923.6	9484.1	8894.4	8195.5
69°	4525.8	4563.5	5451.5	7296.6	9311.0	10621.9	10643.0	10133.2	9408.7	8401.2	7261.4
70°	3833.2	3873.5	4700.8	6629.6	8847.8	10571.5	10609.1	10113.4	9192.8	7830.0	6441.8
72.5°	2010.5	2045.0	2894.1	4567.3	7212.9	9707.1	9821.4	9258.6	7792.3	5686.6	3809.0
75°	631.8	651.7	1130.2	2387.5	4938.5	7547.7	7573.9	7262.7	5533.3	3127.9	1586.3
77.5°	240.9	235.1	376.3	879.7	2496.7	4752.6	4912.9	4538.6	2903.7	1105.9	366.1
80°	129.7	130.3	195.5	364.2	1068.2	2442.4	2577.9	2199.6	1031.8	345.0	84.3
82.5°	56.2	58.8	109.9	192.9	490.7	900.8	968.5	806.3	394.2	231.9	31.3
85°	12.1	13.4	53.0	104.8	200.0	253.0	265.1	261.3	251.1	180.2	12.1
87.5°	0.0	0.0	23.6	37.7	50.5	57.5	50.5	65.8	138.6	121.4	6.4
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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1366.6	1355.1	1335.2	1313.5	1298.2	1282.2	1269.4	1263.7	1257.3	1252.8	1258.6
5°	1364.0	1341.6	1303.3	1266.2	1239.4	1217.7	1199.8	1192.8	1185.8	1180.6	1180.0
7.5°	1386.4	1355.1	1296.3	1242.0	1200.4	1171.1	1146.8	1136.6	1128.3	1124.4	1121.2
10°	1429.2	1388.9	1310.3	1239.4	1185.8	1135.9	1083.5	1043.3	1017.1	1004.9	1000.5
12.5°	1484.7	1434.3	1337.2	1252.8	1174.9	1079.1	967.9	872.1	810.1	789.6	777.5
15°	1549.9	1487.3	1372.3	1270.1	1135.3	960.2	771.8	646.5	589.0	577.5	564.8
17.5°	1612.5	1543.5	1414.5	1273.3	1048.4	767.3	565.4	480.4	458.1	465.7	467.7
20°	1667.5	1599.1	1456.0	1245.2	890.6	575.6	437.6	416.5	424.9	439.5	442.1
22.5°	1723.0	1652.8	1494.3	1171.1	688.7	437.0	394.2	399.3	407.6	422.3	424.9
25°	1790.8	1717.9	1530.1	1035.0	516.8	371.8	374.4	382.0	390.4	403.8	405.0
27.5°	1868.7	1800.3	1553.7	858.0	383.3	341.8	350.1	361.6	369.9	382.7	385.2
30°	1972.2	1909.0	1561.4	674.7	321.4	315.0	318.8	332.9	345.0	356.5	358.4
32.5°	2069.3	2016.3	1535.9	509.2	297.7	290.0	290.0	298.4	312.4	323.3	325.8
35°	2158.8	2124.3	1454.1	372.5	279.8	267.0	260.7	260.7	269.6	278.5	281.1
37.5°	2276.9	2275.7	1321.8	297.1	262.6	247.9	234.5	224.2	221.1	223.0	224.2
40°	2479.5	2481.4	1149.3	266.4	247.9	228.1	207.6	189.1	171.9	166.1	165.5
42.5°	2795.7	2767.0	968.5	251.7	235.1	207.6	177.0	152.1	125.2	116.9	116.3
45°	3297.9	3127.3	776.9	238.3	221.7	184.6	146.3	112.4	90.7	84.3	84.3
47.5°	4029.4	3600.7	601.8	223.6	203.8	158.4	110.5	81.1	66.4	63.2	63.9
50°	4785.8	4064.5	461.3	205.1	182.1	131.0	81.8	58.8	50.5	50.5	51.1
52.5°	5456.6	4404.4	359.7	185.3	155.2	102.9	62.0	46.0	42.2	41.5	42.2
55°	6084.6	4623.5	275.4	162.3	123.3	76.7	47.3	37.7	35.1	33.9	33.2
57.5°	6690.3	4732.1	206.4	131.0	89.4	55.6	37.7	31.9	29.4	27.5	26.8
60°	7093.4	4644.0	141.8	96.5	62.0	40.2	31.3	27.5	24.3	22.4	21.7
62.5°	7320.9	4403.1	91.4	69.6	44.1	30.0	24.9	23.0	18.5	16.6	16.6
65°	7228.9	4005.7	63.9	49.8	31.9	22.4	18.5	18.5	13.4	10.9	10.2
67.5°	6406.0	3384.1	48.6	37.1	23.0	16.6	14.1	16.0	8.3	5.1	5.1
69°	5511.6	2804.7	41.5	30.7	19.2	13.4	12.1	14.7	5.7	3.8	3.2
70°	4790.3	2419.4	37.7	26.8	16.0	11.5	10.9	14.1	5.7	3.2	2.6
72.5°	2866.0	1349.3	28.7	19.2	10.2	8.9	8.9	16.0	5.7	3.2	2.6
75°	1158.3	475.3	21.1	13.4	7.7	7.7	10.9	20.4	5.1	2.6	1.9
77.5°	262.6	104.1	12.1	8.3	5.1	7.7	12.8	16.0	3.2	1.3	0.0
80°	63.9	25.6	7.7	5.1	3.2	5.7	9.6	8.9	0.6	0.0	0.0
82.5°	21.1	8.9	3.2	2.6	0.6	1.9	4.5	2.6	0.0	0.0	0.0
85°	8.9	5.1	1.3	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)