

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: P317826

Luminaire Tested: **GAN-SA2A-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9750 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

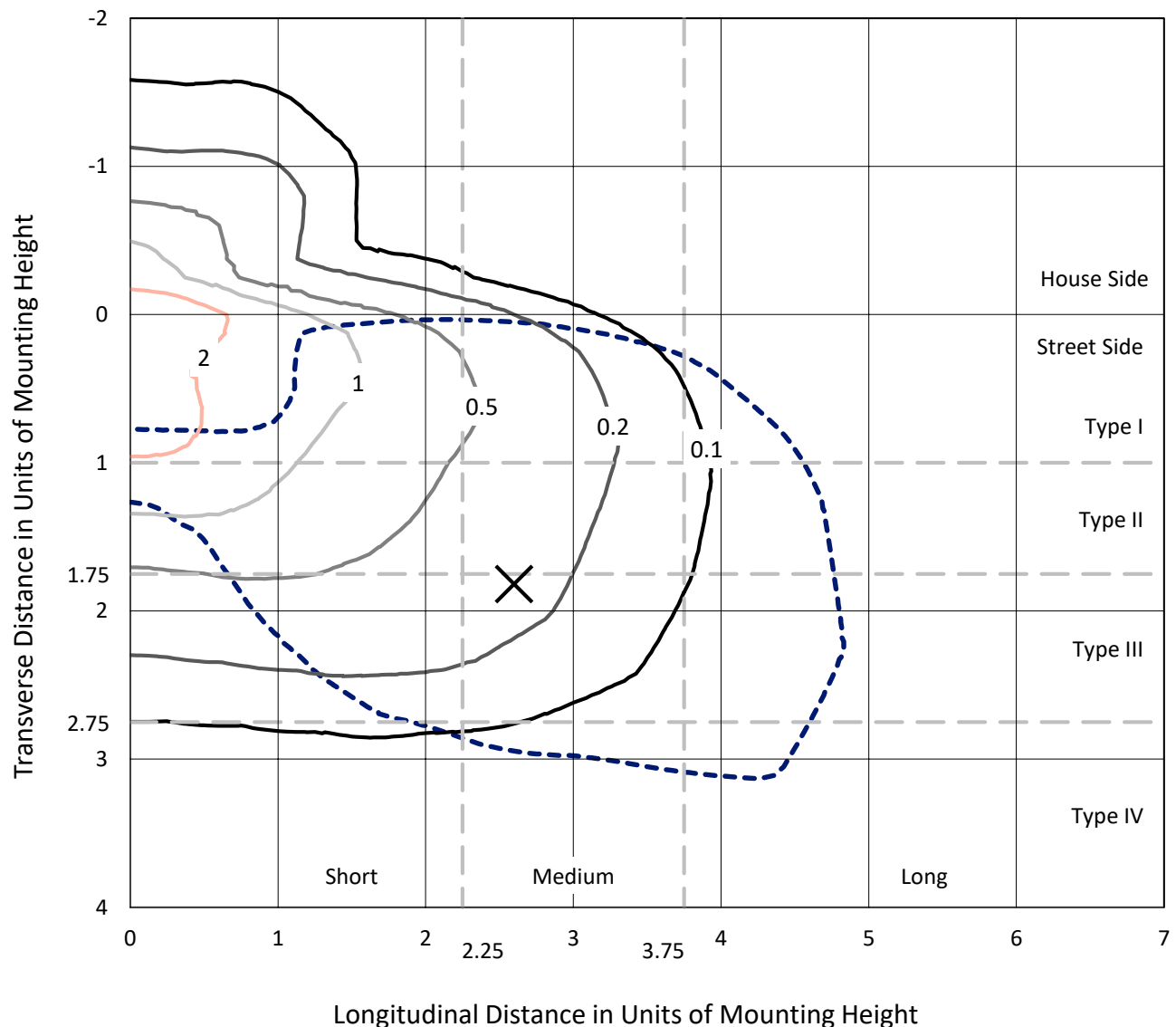
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

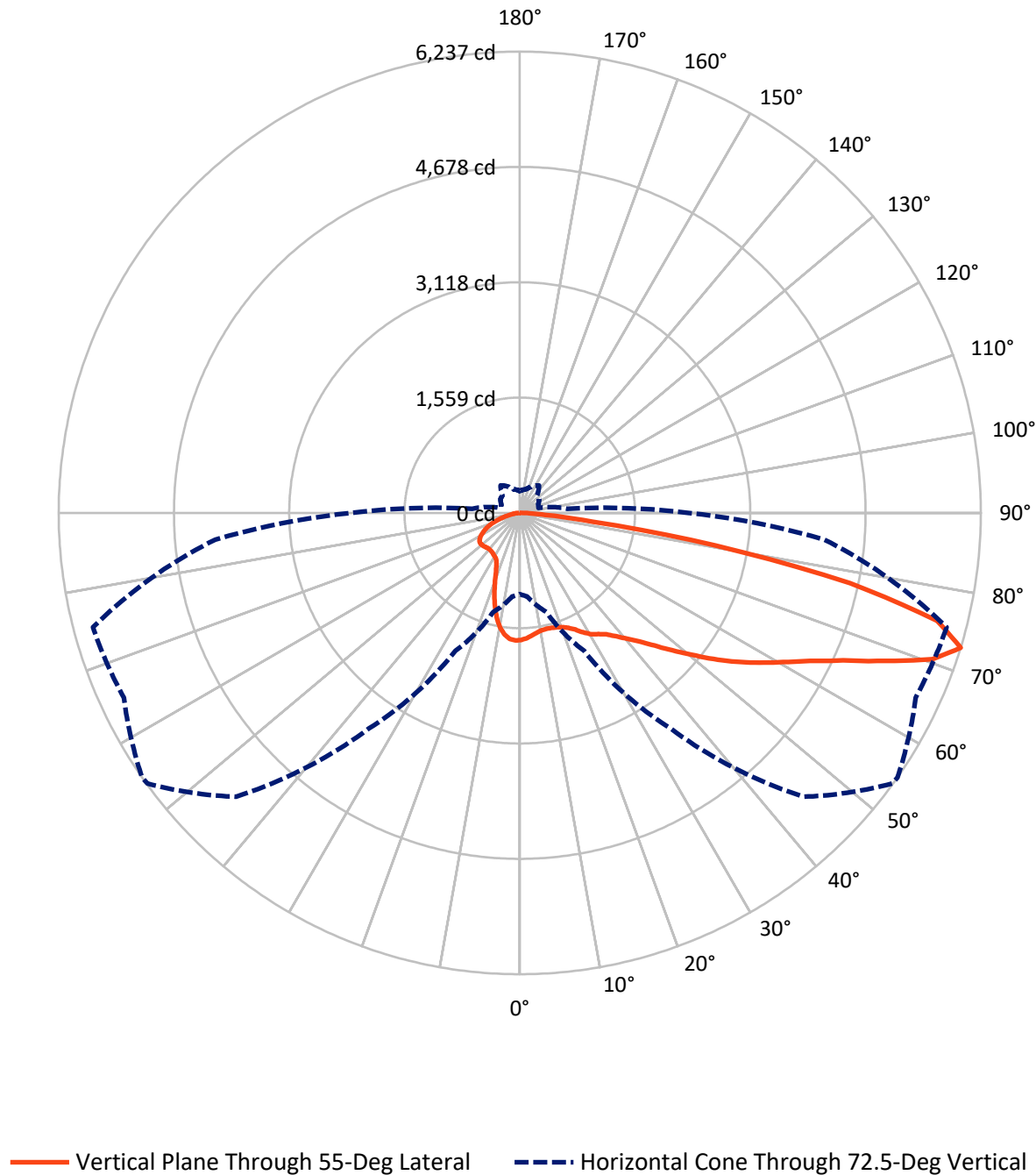
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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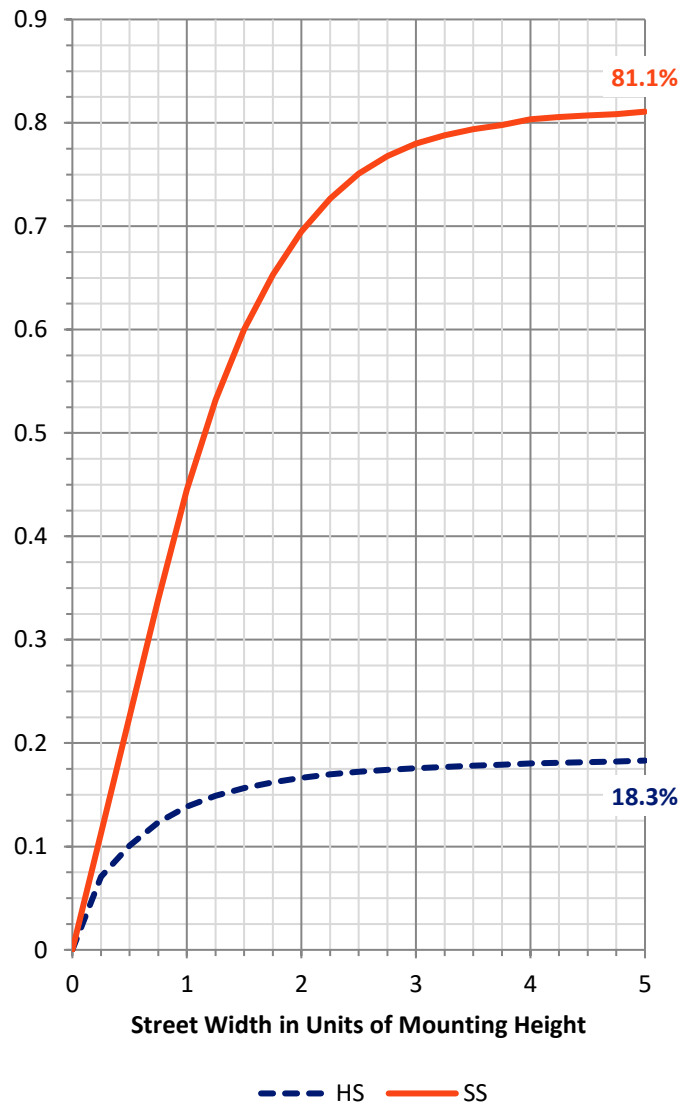
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.2	0.0	1812.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7937.8	0.0	7937.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	9750.0	0.0	9750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.6
10°-20°	414.3	4.2
20°-30°	683.1	7.0
30°-40°	1010.4	10.4
40°-50°	1410.4	14.5
50°-60°	1836.3	18.8
60°-70°	2256.8	23.1
70°-80°	1769.0	18.1
80°-90°	214.1	2.2
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°	9750.0	100.0
0°-180°	9750.0	100.0

Coefficient of Utilization



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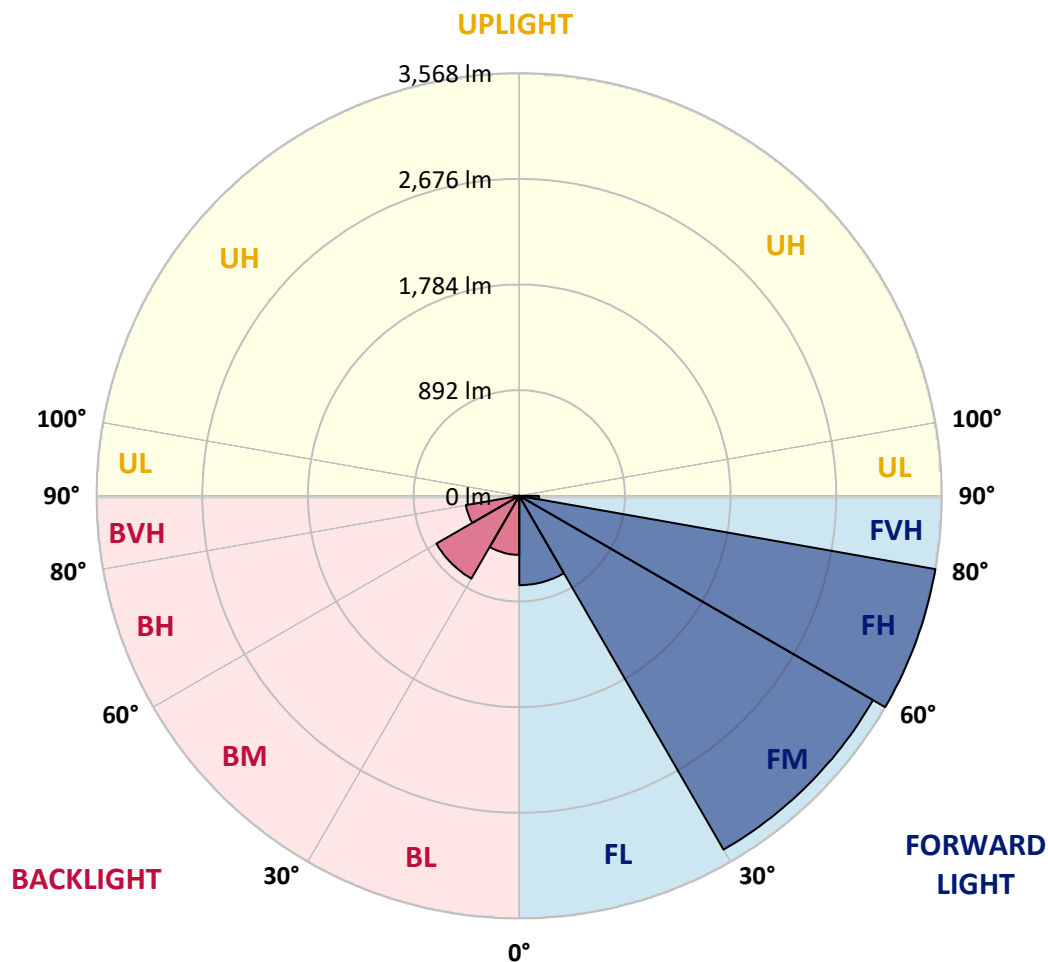
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.4	7.7			
FM	(30°-60°)	3449.7	35.4			
FH	(60°-80°)	3568.2	36.6			G2/5000
FVH	(80°-90°)	165.5	1.7			G2/225
BL	(0°-30°)	498.6	5.1	B1/500		
BM	(30°-60°)	807.4	8.3	B1/1000		
BH	(60°-80°)	457.7	4.7	B1/500		G1/500
BVH	(80°-90°)	48.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1663.7	1659.8	1664.7	1671.6	1679.2	1689.4	1695.3	1698.0	1708.2	1712.1	1720.7
5°	1586.6	1584.7	1592.9	1604.8	1621.6	1645.3	1664.4	1668.0	1695.0	1714.1	1731.5
7.5°	1530.7	1530.7	1540.2	1554.4	1573.1	1605.1	1632.1	1637.0	1682.8	1724.0	1756.2
10°	1486.2	1487.9	1499.0	1515.8	1537.9	1571.8	1607.7	1613.3	1679.5	1747.0	1798.4
12.5°	1456.6	1460.5	1470.7	1485.9	1513.2	1554.4	1599.8	1607.4	1686.4	1780.0	1849.1
15°	1475.3	1481.9	1482.9	1489.2	1504.3	1549.1	1604.4	1612.3	1701.2	1813.5	1906.7
17.5°	1557.7	1560.0	1549.8	1536.6	1529.3	1558.0	1618.3	1626.5	1719.0	1846.8	1962.1
20°	1682.8	1681.5	1659.4	1623.9	1587.0	1591.6	1641.0	1649.5	1743.1	1876.1	2017.4
22.5°	1840.9	1836.3	1802.3	1736.8	1673.9	1647.6	1680.8	1688.1	1779.3	1917.9	2076.7
25°	2032.5	2022.3	1977.5	1889.6	1797.1	1729.2	1740.8	1747.7	1832.0	1964.7	2131.0
27.5°	2234.7	2224.5	2167.6	2061.2	1938.0	1832.3	1823.4	1829.4	1891.9	1999.3	2171.2
30°	2446.2	2435.3	2383.3	2264.1	2087.5	1939.0	1900.5	1902.8	1934.1	2018.1	2204.1
32.5°	2658.6	2648.4	2590.1	2451.8	2249.9	2053.6	1956.1	1953.2	1959.4	2037.5	2241.3
35°	2873.9	2877.9	2809.7	2656.6	2429.7	2181.1	2022.0	2015.7	2001.9	2077.3	2294.0
37.5°	3104.5	3101.8	3013.6	2853.5	2617.7	2319.4	2116.5	2115.5	2067.8	2152.7	2376.7
40°	3258.6	3260.2	3206.6	3055.1	2807.8	2472.5	2237.7	2235.4	2172.8	2265.7	2485.0
42.5°	3318.9	3329.7	3343.5	3247.4	3006.7	2650.0	2382.3	2379.0	2319.4	2427.7	2612.5
45°	3323.1	3344.9	3430.5	3418.3	3208.2	2853.2	2567.0	2557.8	2515.0	2643.1	2764.6
47.5°	3286.2	3308.6	3450.9	3520.1	3388.3	3067.6	2783.1	2775.8	2738.9	2912.5	2929.3
50°	3205.6	3227.0	3408.8	3569.8	3536.5	3273.7	3032.0	3012.9	2993.2	3223.7	3117.6
52.5°	3054.4	3095.6	3352.4	3581.6	3625.1	3456.8	3293.8	3281.3	3292.2	3552.0	3306.3
55°	2696.4	2742.5	3207.2	3571.8	3690.6	3610.6	3555.6	3555.0	3611.3	3896.5	3508.9
57.5°	2495.9	2528.5	2911.5	3555.0	3768.4	3763.4	3814.8	3821.1	3930.7	4271.6	3720.9
60°	2382.6	2416.9	2761.6	3492.7	3888.9	3961.0	4079.2	4091.8	4255.4	4686.8	3976.2
62.5°	2279.5	2317.1	2668.8	3365.9	4030.8	4243.6	4396.0	4407.2	4599.2	5113.6	4222.8
65°	2103.3	2145.8	2532.8	3282.6	4159.9	4612.1	4798.8	4806.4	4994.1	5560.8	4411.5
67.5°	1854.4	1893.2	2276.2	3098.5	4255.4	5059.6	5334.3	5338.5	5385.6	5876.7	4508.0
70°	1563.6	1578.4	1910.7	2718.5	4142.5	5478.2	5921.1	5922.1	5742.6	6078.9	4492.2
72.5°	1098.6	1133.5	1387.1	2057.9	3559.9	5427.1	6225.7	6236.9	5908.6	5976.8	4133.3
75°	673.8	710.7	870.1	1247.1	2258.5	4268.3	5752.2	5829.9	5597.4	5329.0	3376.5
77.5°	450.5	464.3	567.7	727.1	1023.2	2455.7	4422.4	4568.6	4649.9	3886.3	2159.3
80°	251.3	277.6	376.4	451.8	455.1	975.8	2651.7	2685.9	2587.1	1547.5	666.2
82.5°	133.0	147.5	251.3	265.4	248.3	326.7	988.3	989.3	826.6	414.9	197.9
85°	103.1	115.3	172.2	162.0	126.8	144.9	326.0	343.8	281.2	169.9	64.5
87.5°	51.4	63.9	116.9	102.7	49.7	41.5	116.6	124.5	111.0	66.5	23.4
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°	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1724.0	1726.9	1730.6	1726.6	1725.3	1720.0	1711.1	1709.2	1704.5	1704.9	1707.5
5°	1739.1	1744.1	1742.1	1726.9	1708.8	1683.5	1657.1	1634.7	1619.9	1618.9	1617.9
7.5°	1768.1	1771.4	1755.9	1712.8	1662.1	1603.4	1548.1	1499.7	1470.4	1463.2	1461.5
10°	1813.5	1812.9	1770.4	1683.5	1582.4	1477.6	1388.7	1321.5	1282.4	1270.8	1267.9
12.5°	1864.3	1856.7	1775.3	1630.1	1469.7	1324.5	1211.9	1137.1	1096.3	1083.1	1079.8
15°	1916.6	1897.9	1763.2	1550.4	1331.4	1159.5	1041.3	972.1	950.1	942.8	941.5
17.5°	1965.4	1929.1	1728.3	1442.4	1173.7	995.2	903.0	875.3	880.6	890.1	890.5
20°	2013.1	1950.2	1672.3	1306.1	1007.4	859.8	828.6	849.0	874.0	893.4	896.1
22.5°	2060.2	1965.0	1600.1	1148.7	858.5	783.8	805.8	843.0	871.7	892.8	896.4
25°	2099.7	1968.7	1500.7	980.7	755.1	755.1	795.0	830.2	858.5	879.3	882.9
27.5°	2114.2	1944.3	1360.4	825.3	703.1	741.9	779.8	809.1	833.2	855.2	859.2
30°	2119.8	1899.2	1198.4	700.5	681.7	727.8	759.4	784.4	807.2	827.9	831.5
32.5°	2120.8	1844.8	1026.5	629.7	666.9	713.0	734.0	756.1	780.5	788.7	790.0
35°	2127.1	1780.6	845.4	593.4	653.0	699.1	715.9	731.7	692.2	695.2	697.8
37.5°	2145.2	1717.1	693.9	573.0	644.1	691.9	712.0	654.7	623.7	616.5	615.5
40°	2179.1	1649.2	581.6	556.5	640.8	695.5	686.6	611.2	557.9	518.0	512.1
42.5°	2226.2	1576.1	509.8	545.7	643.2	713.0	651.4	569.4	480.8	455.1	451.8
45°	2279.2	1499.4	470.9	538.1	651.1	726.5	644.1	513.7	444.9	425.5	423.8
47.5°	2330.6	1405.5	450.8	534.8	661.9	715.6	613.5	496.6	427.8	417.6	418.6
50°	2389.5	1320.9	438.6	531.2	671.5	708.7	578.9	487.7	421.2	433.7	446.9
52.5°	2439.2	1233.3	427.8	523.9	675.1	696.5	570.0	489.4	421.2	445.2	457.7
55°	2498.2	1167.1	415.3	508.8	668.2	661.9	563.8	499.2	426.1	411.0	412.3
57.5°	2574.3	1145.4	401.4	485.1	645.1	611.5	560.8	508.8	423.2	413.6	416.9
60°	2679.6	1168.4	395.8	454.1	609.2	572.0	561.2	503.9	402.4	386.0	386.3
62.5°	2780.1	1194.1	395.5	434.7	565.1	536.8	553.6	487.7	391.9	382.3	386.0
65°	2813.0	1168.1	379.7	413.0	515.4	494.6	539.7	470.6	384.0	369.5	368.8
67.5°	2768.9	1087.4	347.8	377.7	458.4	445.6	521.6	450.2	371.5	359.6	357.6
70°	2637.8	907.3	308.2	331.3	393.5	390.2	493.0	426.5	354.7	344.5	335.9
72.5°	2285.1	646.4	259.8	275.6	320.4	331.0	453.5	395.5	331.0	308.9	295.7
75°	1876.8	478.5	213.4	216.7	243.4	272.0	399.1	359.3	303.0	265.4	255.2
77.5°	1149.3	292.8	169.9	171.2	174.5	217.0	328.7	318.8	267.4	221.3	214.1
80°	372.1	159.7	122.8	129.1	119.2	159.1	254.2	271.4	229.5	185.1	177.2
82.5°	141.6	93.2	83.0	87.3	82.7	106.7	185.4	217.3	188.0	152.1	123.8
85°	68.5	52.7	49.1	55.0	51.0	54.7	118.6	160.0	142.6	99.1	92.2
87.5°	24.4	23.4	18.8	25.4	21.7	19.4	36.2	80.7	94.2	68.2	60.9
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)