

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: P193920

Luminaire Tested: **GAN-AF-02-LED-U-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10699 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

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: 28.75 FT



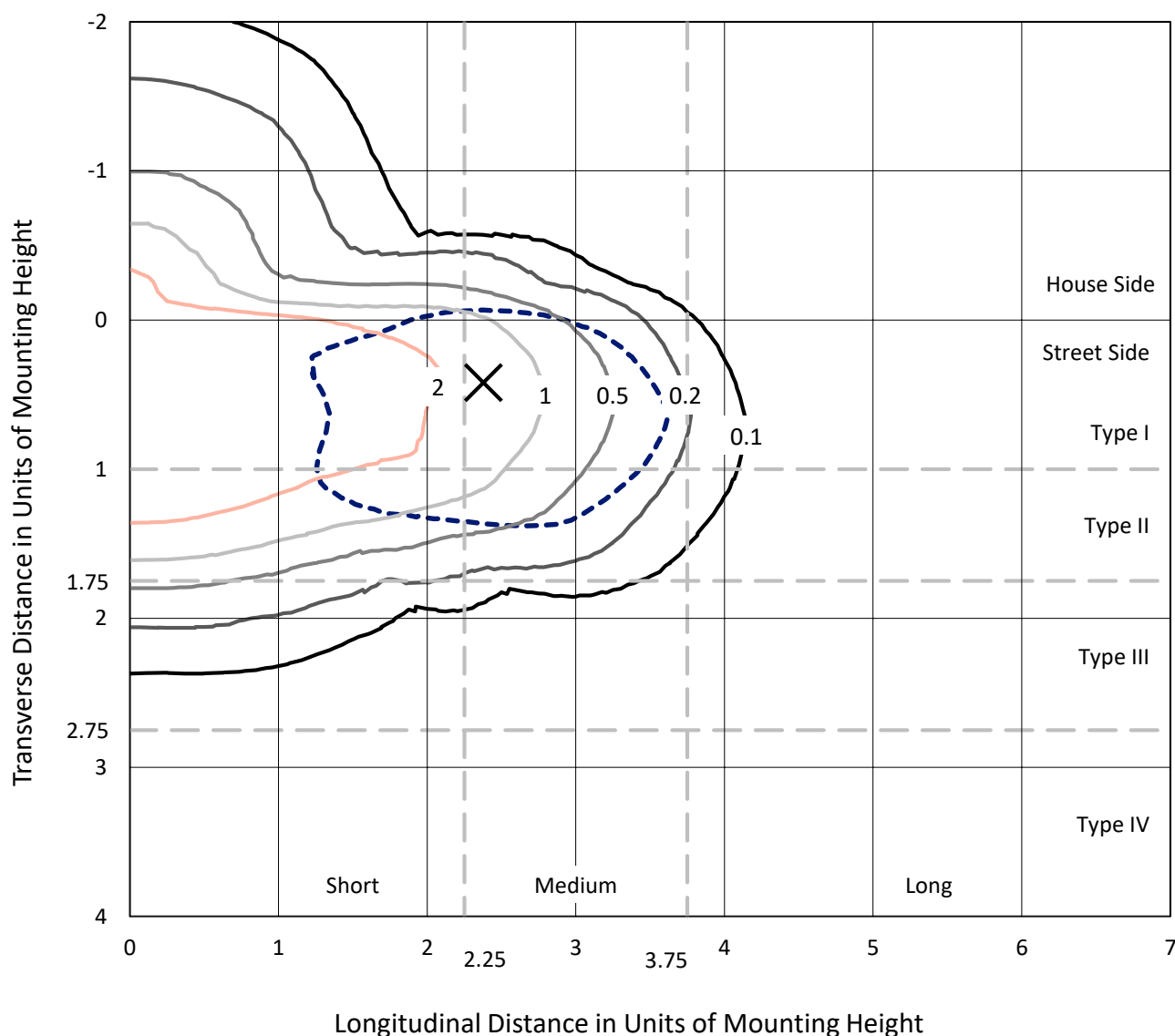
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

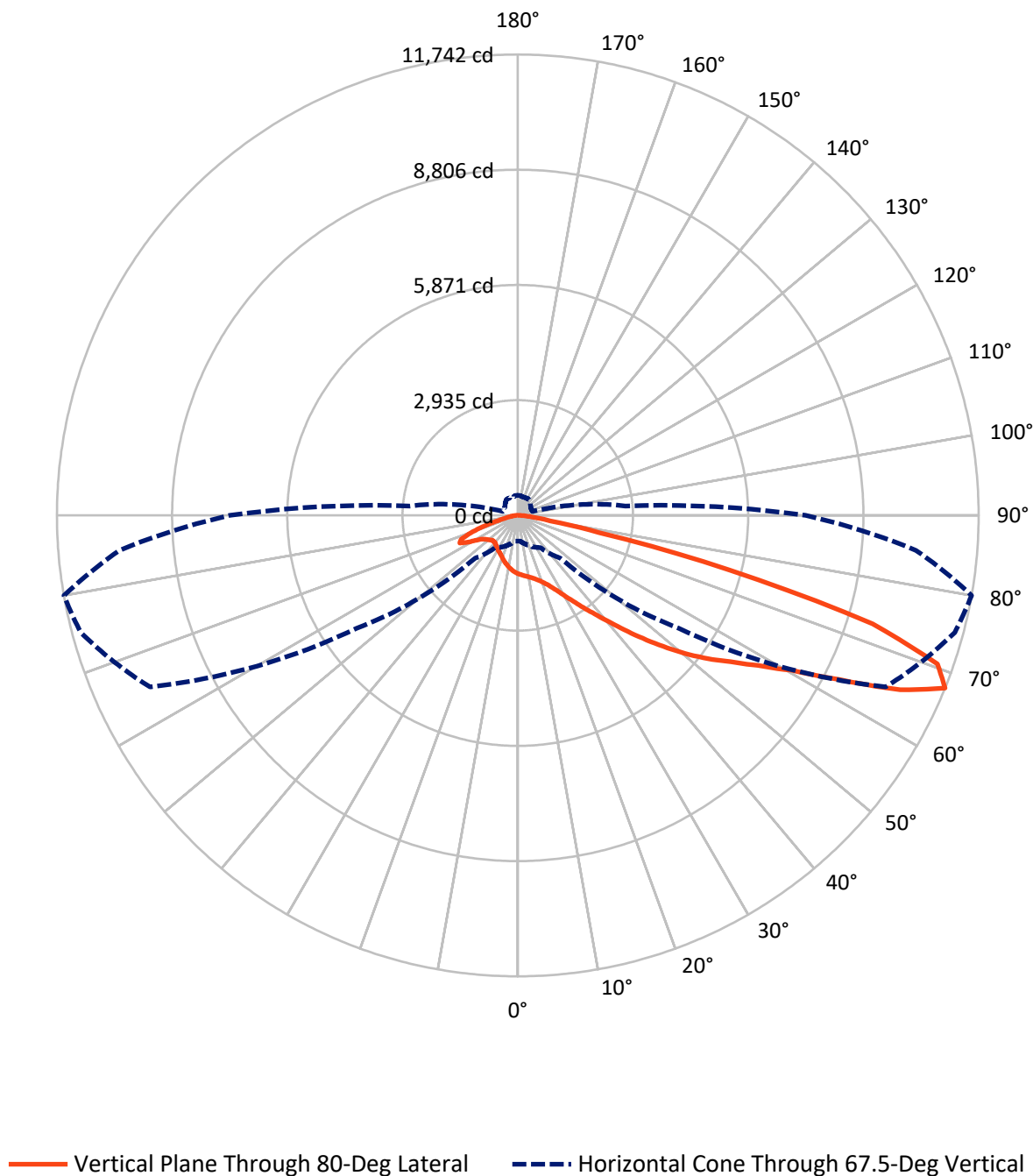


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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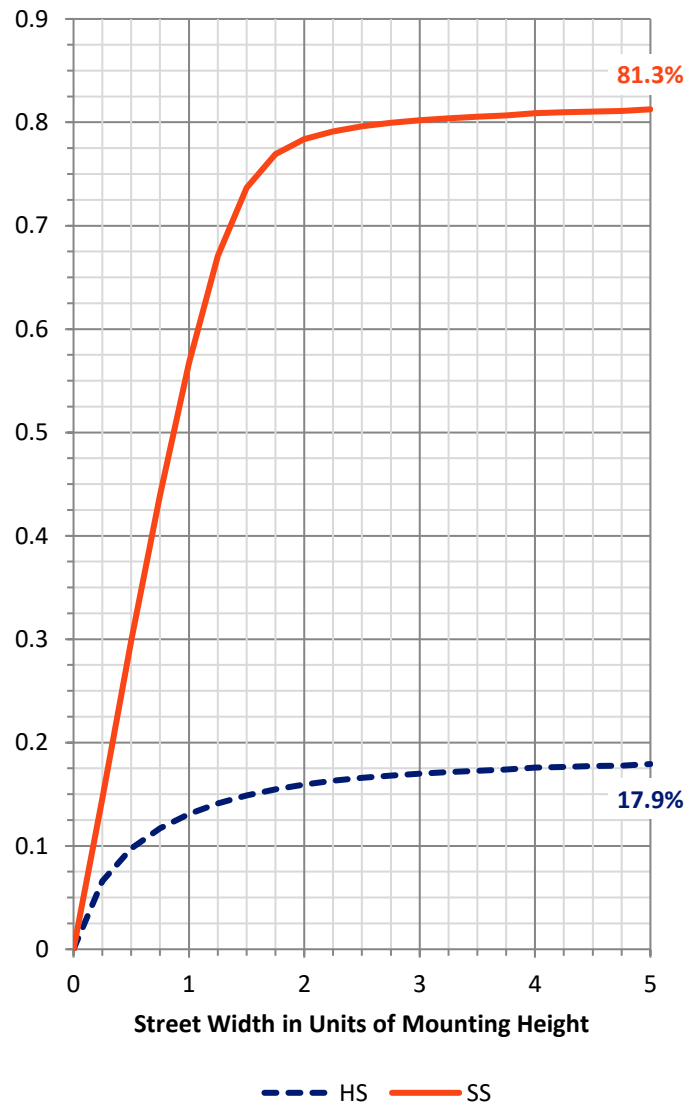
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1970.4	0.0	1970.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8728.7	0.0	8728.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	10699.0	0.0	10699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.3
10°-20°	395.0	3.7
20°-30°	653.8	6.1
30°-40°	1069.4	10.0
40°-50°	1726.7	16.1
50°-60°	2492.8	23.3
60°-70°	2751.0	25.7
70°-80°	1268.0	11.9
80°-90°	205.1	1.9
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°	10699.0	100.0
0°-180°	10699.0	100.0

Coefficient of Utilization



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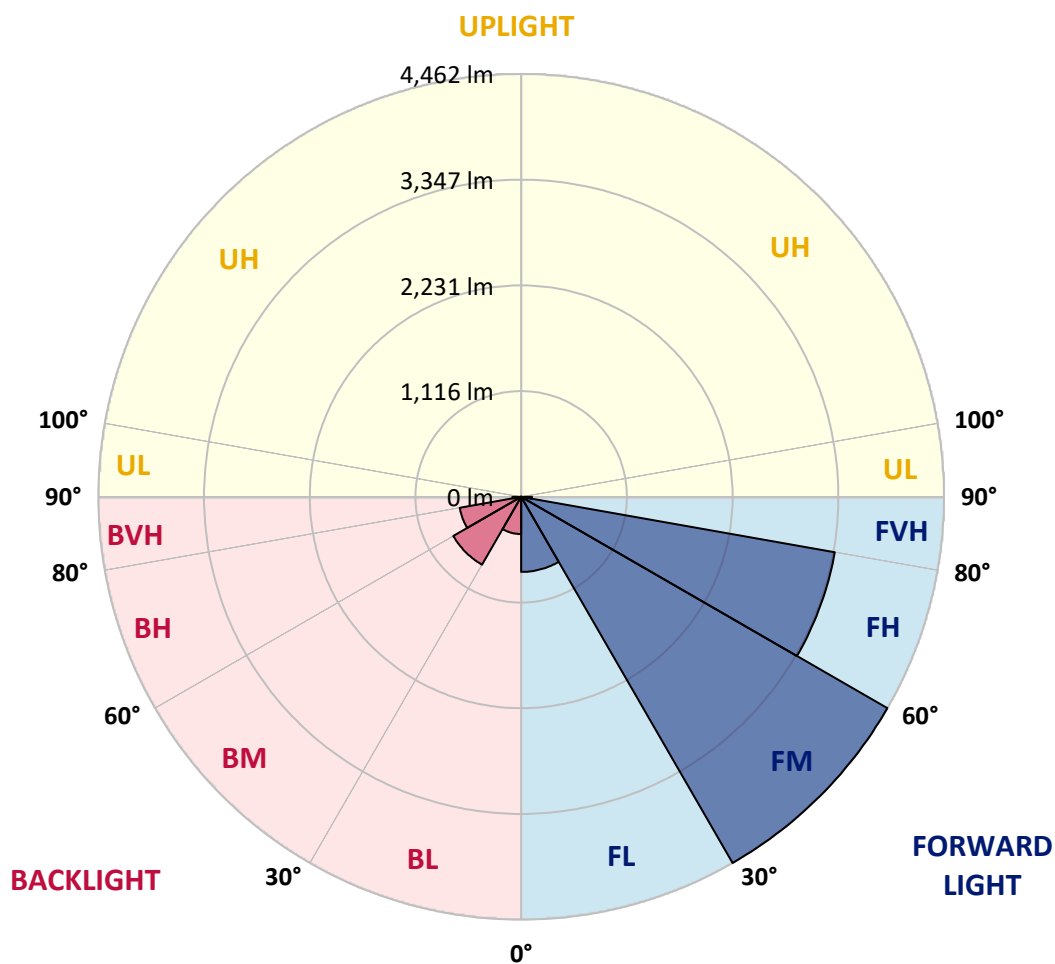
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.8	7.4			
FM	(30°-60°)	4462.3	41.7			
FH	(60°-80°)	3360.8	31.4			G2/5000
FVH	(80°-90°)	112.8	1.1			G2/225
BL	(0°-30°)	393.1	3.7	B1/500		
BM	(30°-60°)	826.7	7.7	B1/1000		
BH	(60°-80°)	658.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	92.3	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4
2.5°	1626.0	1616.5	1618.1	1615.4	1607.5	1593.9	1579.1	1552.2	1524.3	1509.6	1498.0
5°	1761.9	1759.2	1755.6	1747.1	1727.1	1698.7	1663.4	1616.0	1564.9	1538.0	1512.2
7.5°	1863.5	1862.0	1857.2	1851.9	1832.5	1798.2	1745.0	1677.6	1603.3	1566.5	1526.4
10°	1872.0	1874.6	1878.3	1892.5	1895.1	1876.7	1822.4	1740.8	1643.4	1596.0	1544.9
12.5°	1800.3	1806.1	1820.3	1856.7	1895.1	1917.8	1889.9	1807.2	1690.2	1632.8	1568.0
15°	1705.5	1708.7	1726.1	1776.1	1845.1	1915.2	1941.5	1880.4	1750.8	1680.2	1602.8
17.5°	1665.0	1666.5	1678.7	1711.8	1776.1	1876.2	1970.5	1959.9	1825.1	1739.2	1645.5
20°	1644.4	1648.1	1665.5	1698.1	1738.7	1826.1	1974.7	2045.8	1913.6	1813.0	1699.2
22.5°	1702.9	1701.3	1707.6	1724.0	1758.2	1810.9	1971.5	2134.3	2026.3	1907.8	1769.3
25°	1839.3	1845.1	1834.0	1815.6	1826.7	1863.5	1988.4	2230.1	2167.5	2029.5	1860.9
27.5°	2033.7	2027.9	2011.5	1968.4	1945.7	1961.5	2044.2	2333.4	2342.8	2189.6	1982.0
30°	2227.5	2222.8	2207.0	2154.3	2107.9	2094.8	2152.7	2451.9	2552.0	2381.8	2130.6
32.5°	2428.7	2423.4	2408.7	2356.0	2300.2	2269.6	2307.0	2588.8	2798.5	2611.5	2305.5
35°	2676.8	2666.8	2635.7	2562.5	2507.7	2484.0	2501.4	2761.1	3082.9	2883.3	2517.7
37.5°	2910.1	2925.4	2893.8	2792.7	2721.6	2713.1	2732.6	2971.2	3389.4	3187.2	2761.6
40°	3144.5	3147.1	3118.7	3036.0	2962.8	2949.1	2998.1	3226.2	3751.3	3550.6	3058.1
42.5°	3386.8	3392.1	3344.1	3267.8	3214.0	3216.7	3272.5	3524.8	4166.4	3978.8	3399.4
45°	3673.9	3681.8	3629.1	3529.0	3480.0	3578.5	3555.4	3859.8	4621.4	4465.5	3791.3
47.5°	3974.1	3986.2	3946.2	3852.4	3791.3	3926.7	3838.2	4231.1	5111.3	4987.5	4221.7
50°	4137.9	4155.3	4194.3	4187.4	4174.3	4151.6	4153.7	4629.3	5616.4	5531.1	4664.1
52.5°	4049.9	4049.4	4191.6	4364.4	4548.7	4562.4	4538.2	5049.1	6088.4	6062.5	5080.7
55°	3647.5	3674.9	3890.3	4224.8	4728.4	5042.8	5114.4	5530.0	6551.9	6581.9	5503.7
57.5°	2977.5	3000.2	3290.9	3757.1	4486.1	5328.3	5934.0	6229.0	7070.2	7210.3	6066.8
60°	2019.4	2046.8	2355.0	2914.9	3834.0	5169.2	6714.1	7476.3	7690.6	8009.3	6856.8
62.5°	1186.7	1211.5	1462.7	1838.8	2699.4	4430.2	7056.5	9250.8	8676.1	9215.0	8062.0
65°	816.9	833.8	956.0	1144.6	1551.2	2983.9	6631.9	10475.9	10192.5	10708.7	9459.4
67.5°	657.3	655.2	752.2	880.7	998.7	1538.5	5014.9	10337.4	11526.2	11741.6	10184.6
70°	541.5	539.4	605.2	711.6	798.0	866.5	2731.6	8723.5	11254.4	11341.8	9516.8
72.5°	453.0	455.1	497.2	576.2	654.7	652.6	1200.4	6136.8	8853.6	9458.3	7586.3
75°	382.4	383.5	411.4	467.2	531.5	525.7	651.0	3324.7	5146.6	5567.4	4205.3
77.5°	325.5	326.6	344.5	375.6	421.4	419.3	475.1	1436.4	2146.9	2120.6	1438.5
80°	290.2	290.2	298.6	304.4	329.7	320.2	352.4	690.0	907.5	838.0	574.1
82.5°	227.5	228.6	280.2	278.1	259.7	247.6	247.6	406.6	480.9	444.6	336.0
85°	128.0	127.5	180.7	218.1	228.6	174.3	172.8	227.5	261.8	230.7	162.8
87.5°	54.8	55.8	83.7	96.9	129.6	108.5	106.9	117.5	133.3	115.4	75.3
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°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4
2.5°	1486.9	1473.2	1443.2	1405.8	1372.1	1350.0	1330.0	1301.0	1302.6	1282.6	1267.8
5°	1485.9	1457.4	1387.9	1305.2	1225.7	1168.3	1125.1	1086.1	1076.6	1058.2	1047.1
7.5°	1486.9	1440.6	1323.6	1191.4	1092.9	1020.3	983.4	962.8	958.1	951.8	952.3
10°	1490.6	1425.3	1253.1	1085.0	981.8	933.9	924.9	931.2	938.6	940.7	941.2
12.5°	1499.0	1411.6	1175.6	990.2	912.3	897.5	912.8	934.4	948.6	955.5	954.9
15°	1518.0	1401.1	1101.4	916.0	873.8	881.7	910.2	940.7	961.3	970.7	971.3
17.5°	1538.5	1385.8	1025.0	859.1	845.4	865.4	900.7	936.5	961.8	972.3	974.4
20°	1565.4	1366.8	944.9	816.4	818.5	841.2	874.4	910.2	938.1	947.0	951.3
22.5°	1600.7	1346.3	874.9	781.7	788.0	805.4	831.2	862.2	886.5	890.7	894.4
25°	1648.1	1324.2	819.0	750.0	752.7	762.7	780.1	798.5	815.4	810.6	814.3
27.5°	1711.8	1305.2	777.4	721.1	716.3	718.4	727.4	733.2	742.1	729.0	730.6
30°	1786.6	1284.7	745.3	695.8	682.6	678.9	681.0	684.2	691.1	673.1	670.5
32.5°	1873.5	1259.9	715.3	673.7	655.2	647.9	648.9	657.3	683.7	672.6	666.8
35°	1974.7	1232.0	683.7	649.4	636.8	626.3	625.2	651.6	730.0	723.2	717.9
37.5°	2093.2	1204.1	652.1	622.1	623.1	611.5	607.8	637.9	739.0	712.1	708.4
40°	2243.8	1189.3	625.2	593.1	606.3	604.7	597.3	612.6	680.0	631.0	624.7
42.5°	2430.3	1191.4	605.2	562.0	586.2	603.1	591.5	592.0	616.3	579.4	573.6
45°	2660.5	1216.2	591.0	537.3	563.6	601.5	589.4	581.0	583.1	563.6	560.4
47.5°	2929.1	1267.3	581.0	516.7	542.0	595.7	588.9	577.8	573.1	562.5	559.9
50°	3227.7	1341.6	573.6	497.2	522.5	586.2	589.4	574.7	569.4	565.2	563.6
52.5°	3521.1	1426.4	562.5	480.4	507.2	574.7	591.0	571.5	565.7	562.5	561.0
55°	3848.2	1532.2	545.7	466.1	494.6	559.9	591.0	566.8	560.4	561.0	560.4
57.5°	4290.1	1703.4	525.7	454.0	479.3	542.0	581.0	561.5	553.6	554.1	554.6
60°	4980.7	2005.2	501.4	441.9	460.4	520.9	567.3	549.9	542.0	544.1	544.6
62.5°	5996.2	2448.2	469.8	424.0	440.3	498.3	548.3	535.1	527.2	532.5	532.5
65°	7051.7	2839.0	430.9	401.4	419.3	473.5	524.6	516.7	508.8	520.9	520.4
67.5°	7335.6	2751.6	391.9	376.6	398.2	446.1	496.2	492.0	487.7	508.8	507.8
70°	6516.6	2209.1	356.1	351.3	375.0	416.6	465.6	465.6	463.0	478.8	475.1
72.5°	4964.9	1566.5	321.8	324.5	348.7	384.5	432.4	436.1	431.9	439.8	436.7
75°	2657.8	896.5	287.6	295.0	316.0	351.8	395.6	399.3	396.6	396.1	397.7
77.5°	883.3	438.2	251.8	263.4	281.8	318.1	357.1	362.9	356.6	355.5	355.0
80°	393.5	275.5	212.3	227.5	243.9	279.7	316.6	321.3	314.5	323.9	311.8
82.5°	252.8	181.2	170.1	187.0	202.8	241.2	276.0	277.1	270.7	314.5	268.1
85°	122.7	112.2	128.0	143.3	157.0	189.6	228.6	229.1	213.3	194.4	187.5
87.5°	61.1	65.3	85.3	99.0	105.9	130.1	166.4	163.3	156.4	142.2	131.2
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)