

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: P320156

Luminaire Tested: **GAN-SA2B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8829 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

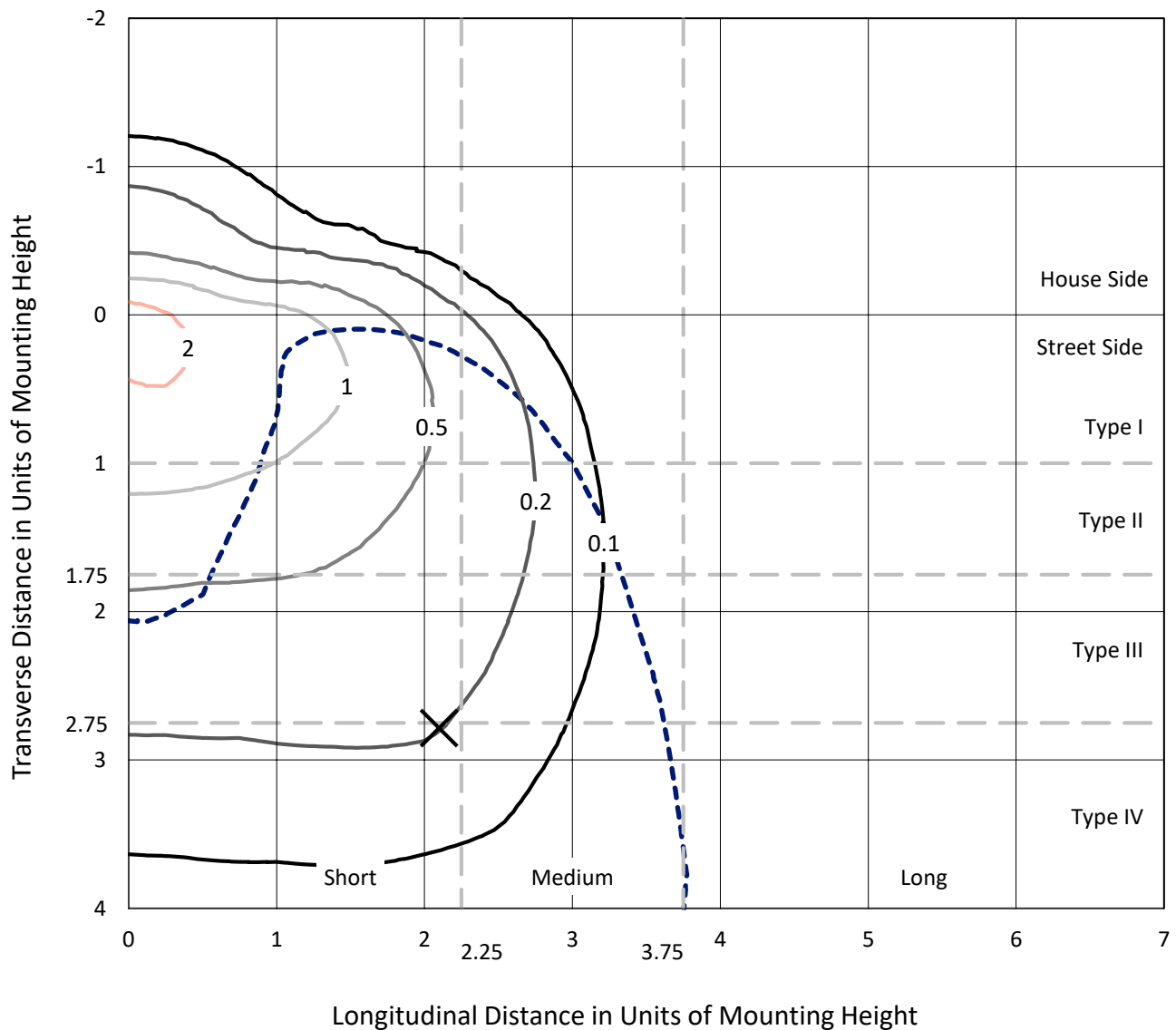
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

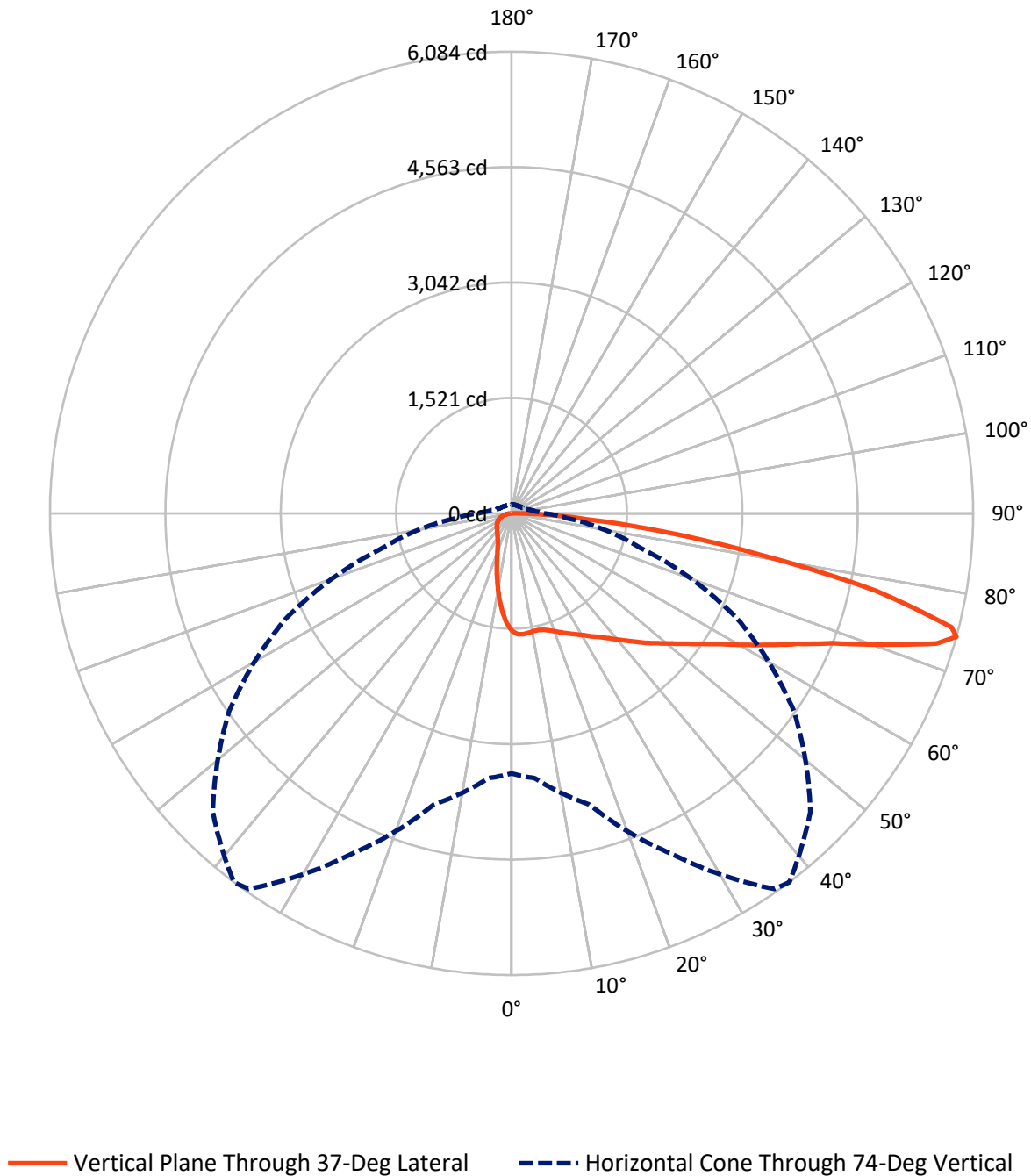
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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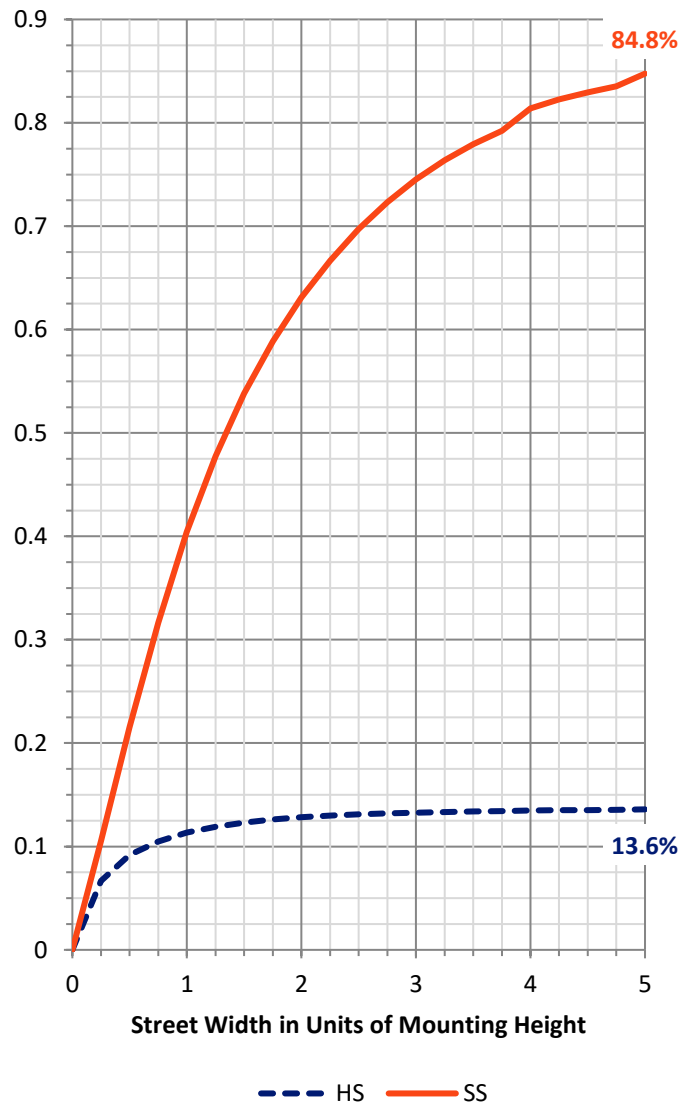
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.8	0.0	1214.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	7614.2	0.0	7614.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	8829.0	0.0	8829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	1.6
10°-20°	351.1	4.0
20°-30°	541.0	6.1
30°-40°	786.8	8.9
40°-50°	1158.0	13.1
50°-60°	1626.2	18.4
60°-70°	2058.2	23.3
70°-80°	1812.3	20.5
80°-90°	358.3	4.1
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°	8829.0	100.0
0°-180°	8829.0	100.0

Coefficient of Utilization



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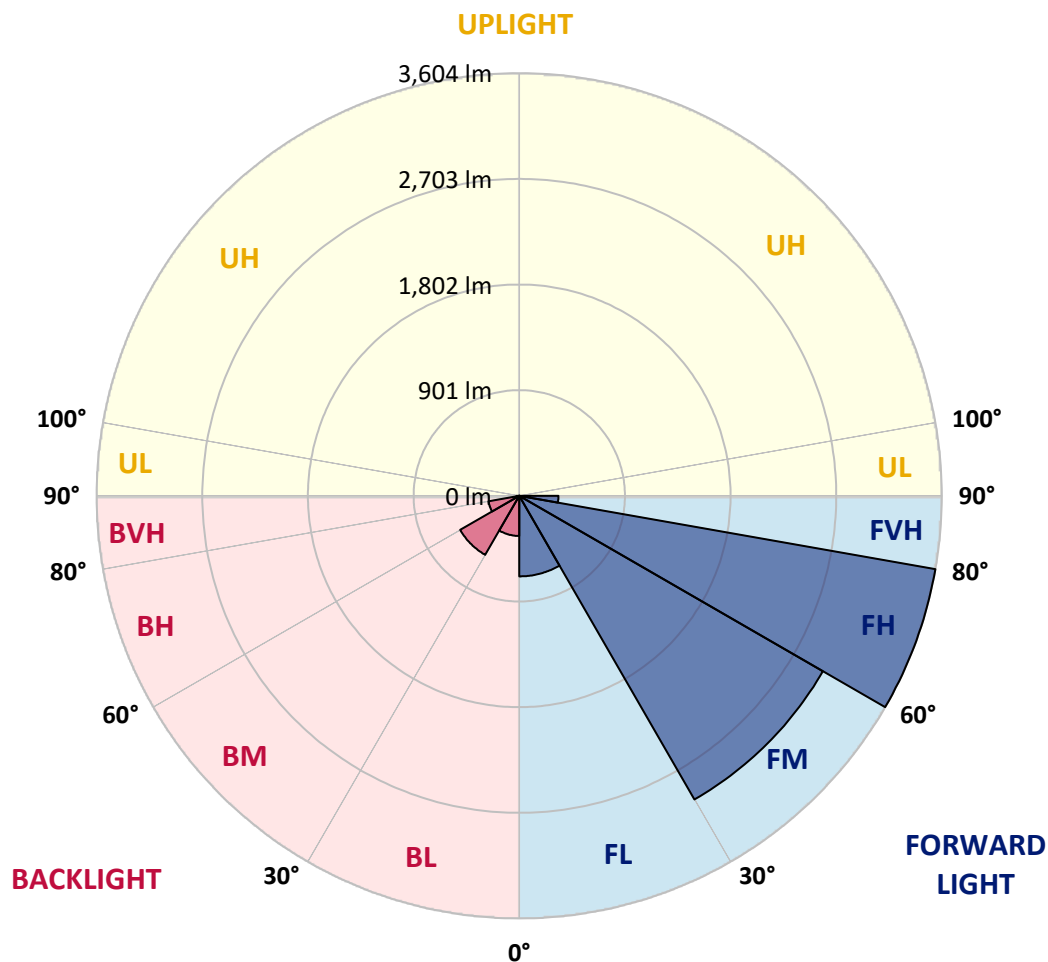
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.0	7.8			
FM	(30°-60°)	2989.6	33.9			
FH	(60°-80°)	3603.5	40.8			G2/5000
FVH	(80°-90°)	334.1	3.8			G3/500
BL	(0°-30°)	342.2	3.9	B1/500		
BM	(30°-60°)	581.3	6.6	B1/1000		
BH	(60°-80°)	267.0	3.0	B1/500		G1/500
BVH	(80°-90°)	24.3	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6
2.5°	1608.8	1609.1	1608.8	1606.3	1600.4	1595.4	1591.4	1585.5	1572.4	1562.5	1547.5
5°	1624.1	1622.2	1620.9	1616.3	1607.0	1601.4	1593.6	1582.4	1560.9	1541.0	1516.8
7.5°	1616.9	1614.7	1611.9	1606.3	1595.8	1591.1	1580.2	1565.6	1539.8	1513.7	1478.8
10°	1594.8	1594.2	1593.0	1591.7	1582.7	1579.0	1569.0	1553.5	1528.0	1496.2	1455.5
12.5°	1570.3	1571.8	1576.8	1583.3	1579.3	1577.4	1571.2	1560.6	1534.5	1500.3	1451.1
15°	1554.7	1559.1	1572.4	1589.5	1593.0	1592.3	1590.8	1583.9	1556.3	1518.3	1461.1
17.5°	1549.4	1556.6	1582.1	1610.4	1620.3	1622.5	1623.1	1611.3	1580.5	1540.4	1471.4
20°	1559.1	1568.1	1605.4	1644.3	1660.1	1661.4	1658.6	1638.1	1603.5	1559.4	1477.0
22.5°	1588.3	1596.4	1643.0	1686.9	1704.9	1706.8	1698.4	1667.3	1627.8	1581.8	1484.7
25°	1644.6	1654.5	1701.2	1745.0	1754.4	1754.7	1742.5	1704.0	1659.5	1613.2	1501.5
27.5°	1718.0	1727.9	1769.9	1812.8	1807.9	1805.1	1788.6	1750.0	1700.9	1656.4	1531.4
30°	1799.8	1810.7	1850.5	1880.9	1869.1	1863.5	1850.2	1800.4	1758.4	1715.5	1577.1
32.5°	1884.4	1894.3	1929.1	1950.0	1935.1	1932.6	1912.4	1866.9	1833.4	1805.7	1651.1
35°	1971.1	1978.3	2012.5	2024.3	2004.4	2003.8	1998.2	1956.5	1935.4	1948.4	1758.7
37.5°	2059.8	2061.6	2090.9	2091.5	2085.6	2088.1	2094.0	2067.9	2073.8	2114.5	1898.7
40°	2138.8	2143.7	2164.9	2171.4	2181.7	2190.4	2219.9	2202.8	2248.5	2320.7	2072.8
42.5°	2197.2	2206.9	2240.8	2257.6	2290.8	2304.5	2346.2	2362.1	2454.1	2562.4	2280.0
45°	2246.7	2261.6	2316.0	2350.6	2406.9	2430.8	2490.5	2543.7	2686.4	2824.5	2498.0
47.5°	2300.2	2319.1	2387.3	2453.2	2529.7	2556.8	2665.3	2744.9	2934.3	3088.3	2703.5
50°	2378.9	2393.5	2460.0	2563.6	2659.1	2693.9	2844.1	2958.3	3186.2	3339.5	2881.8
52.5°	2488.6	2483.0	2539.3	2684.6	2812.7	2855.6	3035.1	3185.3	3441.6	3566.9	3032.3
55°	2599.0	2589.7	2629.2	2811.2	2991.8	3036.9	3245.3	3413.3	3684.4	3771.5	3147.7
57.5°	2721.9	2704.2	2737.4	2953.9	3195.9	3249.7	3480.7	3655.5	3923.3	3937.0	3221.1
60°	2848.5	2824.5	2861.8	3130.9	3454.9	3518.4	3756.3	3891.9	4148.5	4069.5	3244.7
62.5°	2959.2	2942.4	2999.9	3328.4	3747.0	3816.6	4026.9	4143.2	4370.5	4124.5	3159.5
65°	3055.9	3058.7	3158.2	3550.4	4072.6	4146.9	4337.2	4452.9	4545.3	4091.9	2960.1
67.5°	3171.3	3187.2	3357.0	3842.7	4482.5	4564.0	4788.8	4790.7	4643.0	3900.3	2567.6
70°	3339.5	3372.2	3630.3	4248.3	5065.3	5177.3	5350.8	4989.1	4505.8	3380.9	2020.3
72.5°	3488.8	3549.8	3921.1	4712.3	5775.6	5860.5	5679.5	4874.7	3932.6	2533.7	1258.6
74°	3428.2	3503.8	3974.0	4940.9	6043.1	6083.8	5568.5	4540.6	3278.9	1754.7	731.5
75°	3297.6	3379.7	3896.9	4938.7	6009.2	5986.5	5300.4	4159.0	2700.4	1196.7	486.7
77.5°	2661.3	2748.0	3283.6	4232.7	4927.2	4905.8	4071.6	2790.0	1182.7	392.5	247.2
80°	1547.2	1613.5	2038.3	2688.0	3322.4	3361.3	2677.7	1380.5	465.3	220.5	167.6
82.5°	687.3	733.0	984.6	1372.1	2005.0	2055.1	1402.3	723.4	287.4	134.0	100.8
85°	451.0	484.9	597.7	653.4	954.8	989.0	686.4	563.2	189.7	73.7	74.0
87.5°	324.4	357.0	444.1	387.8	438.2	414.9	373.5	521.2	76.2	42.0	24.9
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°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6
2.5°	1541.0	1536.0	1524.8	1503.7	1491.9	1481.9	1465.4	1455.8	1451.4	1451.1	1453.0
5°	1502.8	1491.3	1462.3	1426.9	1398.6	1372.8	1340.7	1321.5	1307.8	1299.7	1301.9
7.5°	1458.3	1440.3	1394.8	1338.2	1292.8	1242.8	1193.3	1163.8	1140.8	1123.7	1126.8
10°	1427.8	1402.9	1336.7	1255.2	1179.6	1106.9	1038.7	998.0	965.7	940.8	942.6
12.5°	1417.6	1384.0	1292.2	1183.4	1077.3	977.8	888.8	826.3	793.1	764.8	766.9
15°	1419.1	1374.0	1254.9	1118.7	985.3	859.9	752.0	678.9	633.8	614.2	614.5
17.5°	1420.3	1362.5	1215.7	1049.3	894.1	749.8	632.6	558.6	516.0	497.9	498.2
20°	1416.3	1343.8	1167.2	969.7	799.0	648.8	535.2	472.4	440.1	426.1	426.1
22.5°	1411.0	1321.8	1112.5	889.8	705.0	561.0	465.6	417.7	399.0	389.7	389.4
25°	1413.5	1305.3	1056.5	807.7	618.6	491.1	419.2	387.5	375.1	369.2	368.8
27.5°	1426.9	1297.5	1004.8	725.9	543.0	438.5	388.1	365.7	357.7	353.9	353.9
30°	1451.1	1297.5	951.0	656.2	480.2	399.6	364.2	348.9	343.3	340.9	340.9
32.5°	1493.4	1304.7	899.1	587.2	430.1	369.2	344.3	334.0	329.7	328.4	328.4
35°	1566.2	1328.9	848.4	521.9	389.7	344.3	325.3	319.4	316.3	316.0	316.9
37.5°	1668.5	1378.4	800.8	473.7	361.1	324.1	309.4	304.8	302.9	304.5	305.7
40°	1797.3	1445.5	757.6	430.1	339.3	307.9	294.8	291.7	290.8	293.0	294.8
42.5°	1952.8	1536.4	722.1	398.7	322.5	294.2	282.4	278.7	277.7	280.2	282.7
45°	2121.0	1634.0	697.3	375.4	309.4	283.9	271.5	267.5	265.6	266.8	269.6
47.5°	2274.1	1726.4	687.3	358.9	297.0	275.2	261.9	256.9	253.8	253.2	255.3
50°	2403.1	1795.1	692.0	348.9	287.1	265.6	252.5	246.9	242.3	239.5	241.0
52.5°	2497.0	1838.3	696.3	344.6	279.3	255.0	242.3	237.0	230.8	226.1	226.1
55°	2565.2	1848.3	686.7	341.2	273.4	243.5	230.8	225.8	219.6	214.3	213.7
57.5°	2591.9	1820.3	650.9	336.2	269.3	232.6	218.6	214.9	209.6	203.4	203.1
60°	2555.8	1733.8	581.9	325.6	264.0	223.6	206.5	204.0	201.5	195.6	195.3
62.5°	2410.9	1544.1	492.6	304.2	253.5	214.0	195.3	196.6	196.9	192.8	192.2
65°	2148.1	1283.5	405.5	276.2	237.6	202.5	183.8	189.7	193.1	192.5	191.6
67.5°	1766.2	998.9	343.7	246.6	216.8	186.6	171.4	178.2	181.0	183.2	182.6
70°	1310.9	704.4	284.3	215.5	191.6	167.9	155.2	158.6	156.7	159.2	160.2
72.5°	730.9	422.7	231.7	184.4	165.5	146.2	137.2	136.5	132.5	132.5	132.5
74°	438.5	310.1	203.7	165.1	149.6	131.9	124.1	121.3	117.6	117.9	117.6
75°	352.7	266.5	186.9	152.4	138.4	123.5	115.7	112.0	109.2	109.2	108.9
77.5°	222.7	202.5	150.5	121.3	110.7	101.7	96.4	91.4	91.4	91.1	90.8
80°	168.3	161.1	117.2	91.7	84.9	78.1	74.6	72.5	72.5	73.4	73.1
82.5°	115.4	121.3	82.4	64.1	60.6	55.7	55.0	55.4	54.4	53.2	52.9
85°	84.3	91.1	55.7	40.4	37.0	33.9	36.4	37.6	36.1	33.3	32.0
87.5°	32.3	59.7	29.9	16.8	15.6	13.4	15.6	16.2	17.4	13.7	14.0
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)