

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: P317598

Luminaire Tested: **GAN-SA4B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19084 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 171
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



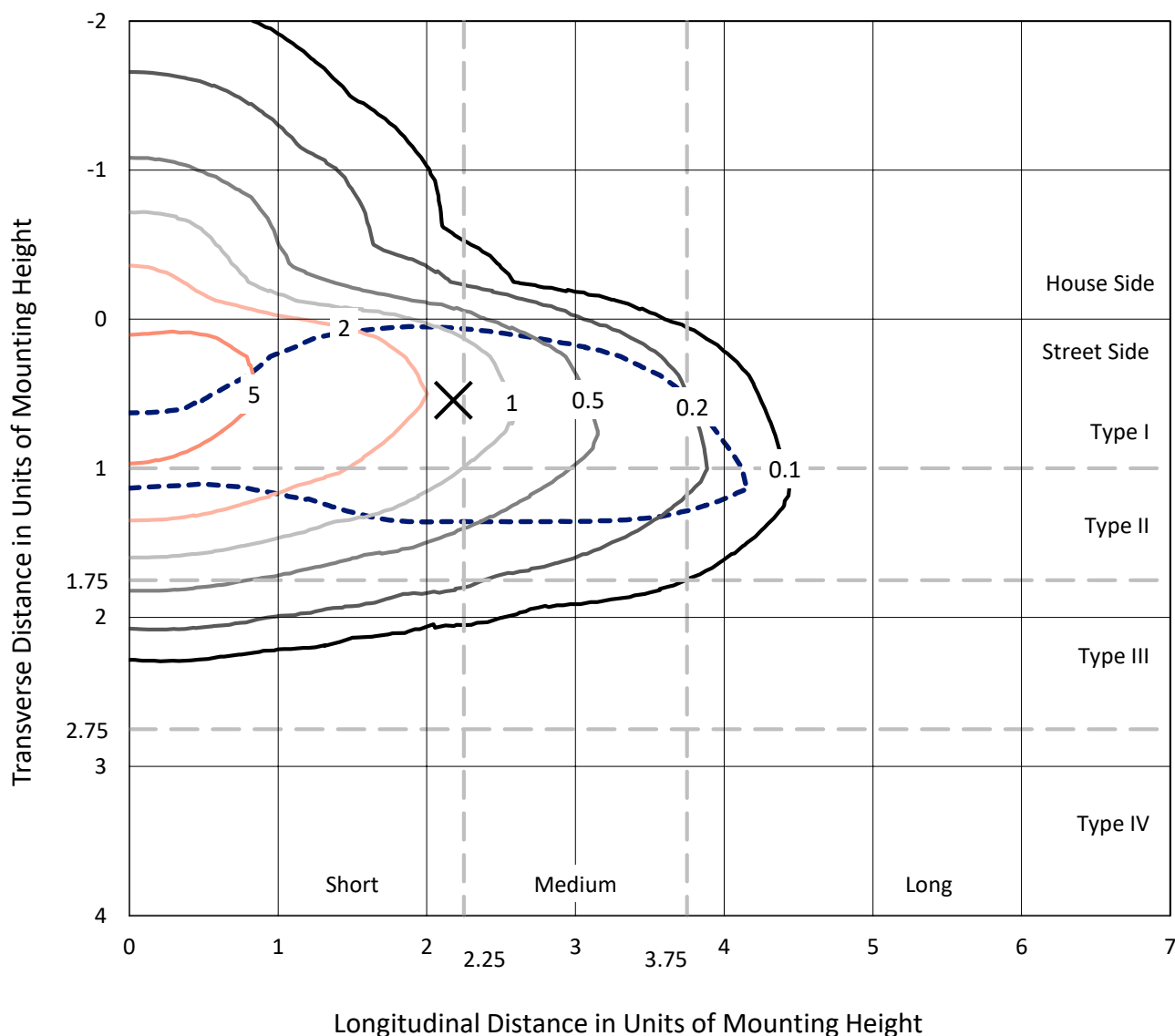
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

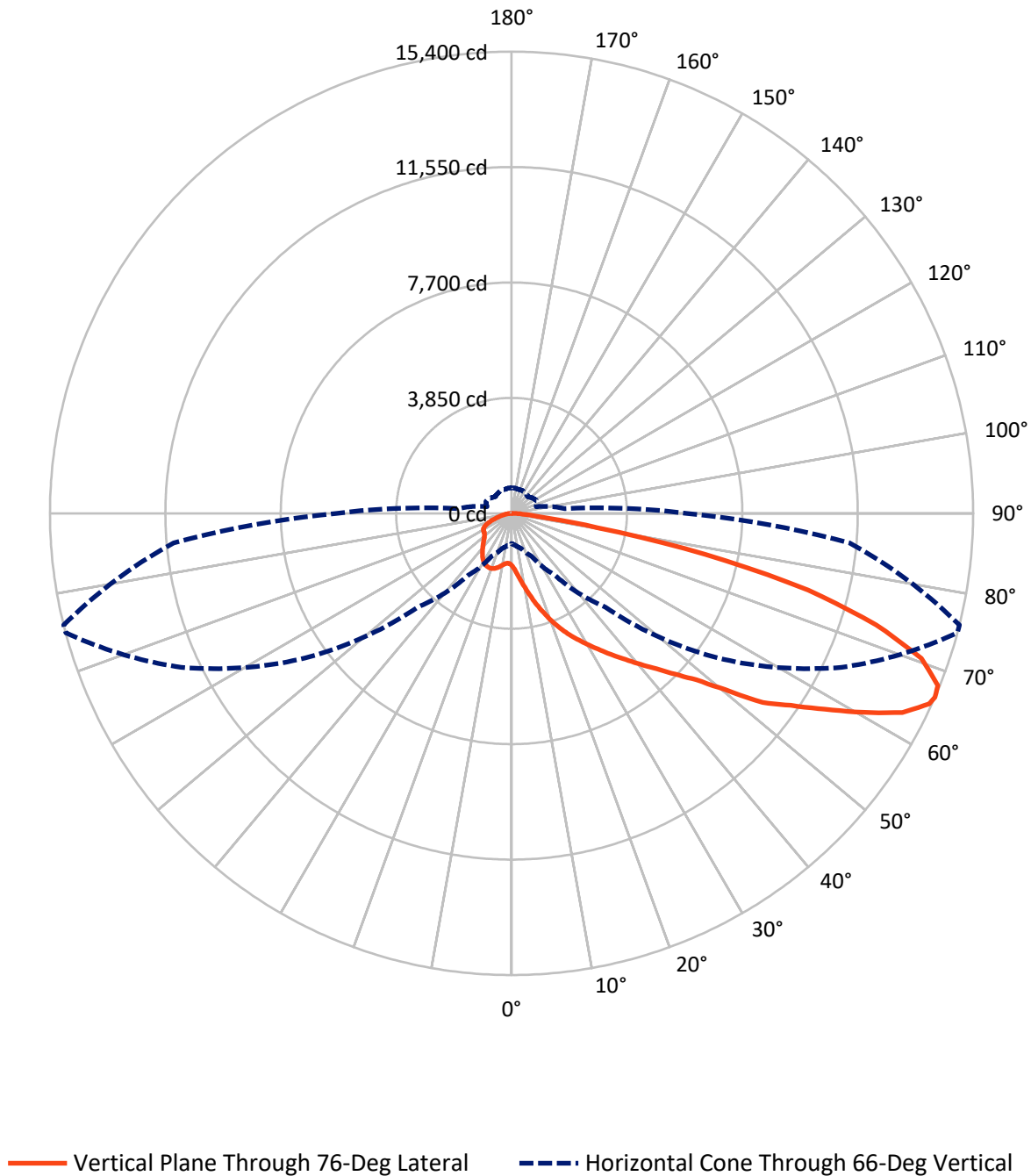


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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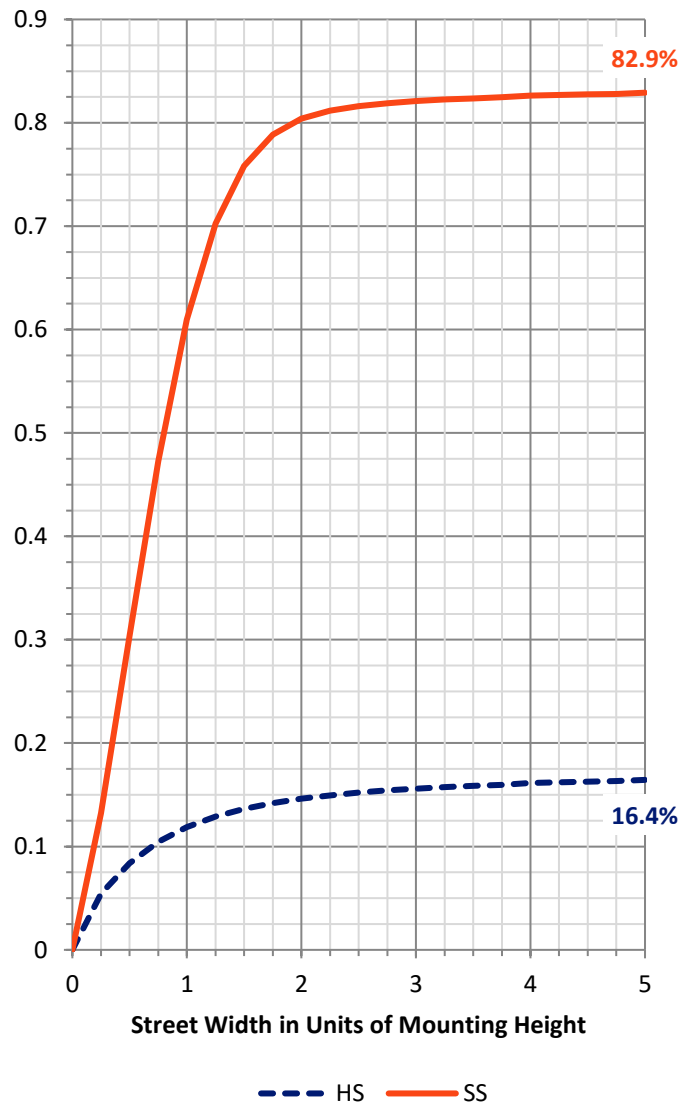
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3211.2	0.0	3211.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15872.8	0.0	15872.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	19084.0	0.0	19084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.1
10°-20°	832.2	4.4
20°-30°	1617.3	8.5
30°-40°	2639.7	13.8
40°-50°	3606.5	18.9
50°-60°	4200.8	22.0
60°-70°	3766.1	19.7
70°-80°	1903.2	10.0
80°-90°	307.3	1.6
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°	19084.0	100.0
0°-180°	19084.0	100.0

Coefficient of Utilization



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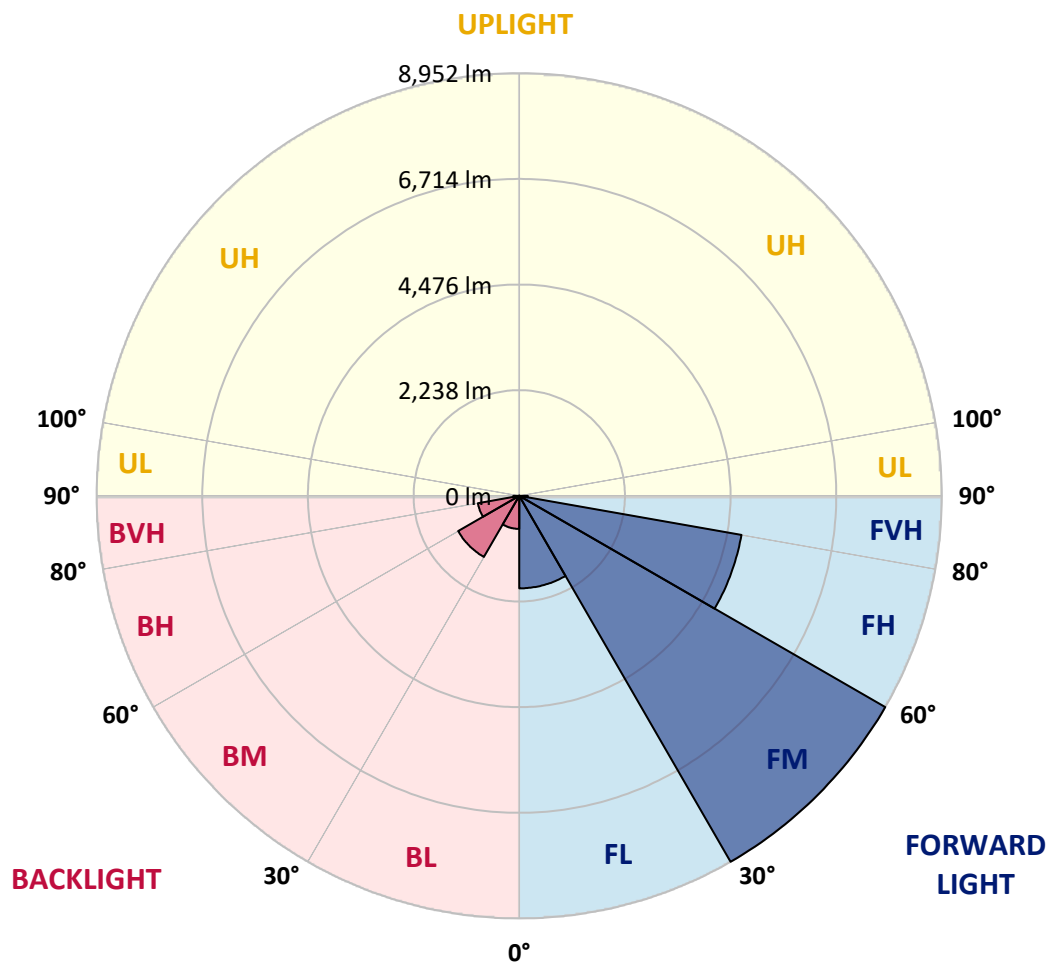
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.9	10.3			
FM	(30°-60°)	8951.7	46.9			
FH	(60°-80°)	4779.7	25.0			G2/5000
FVH	(80°-90°)	181.5	1.0			G2/225
BL	(0°-30°)	700.4	3.7	B2/1000		
BM	(30°-60°)	1495.3	7.8	B2/2500		
BH	(60°-80°)	889.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	125.8	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	2313.6	2278.6	2275.4	2224.2	2212.5	2114.7	2042.8	1967.6	1882.1	1865.2	1797.9
5°	2971.8	2968.6	2923.9	2840.3	2774.9	2607.7	2442.5	2267.6	2075.8	2044.7	1893.1
7.5°	3564.0	3558.8	3524.5	3434.4	3339.8	3134.4	2898.6	2630.4	2319.4	2273.4	2022.0
10°	4013.6	4011.7	4000.0	3933.9	3853.6	3656.6	3396.2	3030.1	2602.5	2539.7	2183.4
12.5°	4360.9	4364.8	4372.5	4349.2	4311.0	4143.2	3876.3	3453.9	2904.5	2842.3	2362.8
15°	4596.1	4607.7	4647.9	4680.9	4701.0	4598.0	4339.5	3887.3	3242.6	3168.1	2561.7
17.5°	4714.6	4727.6	4796.9	4896.7	4988.7	4978.3	4772.9	4300.6	3567.2	3495.3	2775.5
20°	4817.0	4826.7	4904.5	5024.3	5186.9	5258.8	5143.5	4698.4	3922.9	3837.4	3002.3
22.5°	5113.7	5126.0	5149.4	5217.4	5361.2	5493.4	5437.7	5074.9	4248.8	4169.1	3217.4
25°	5686.5	5701.4	5650.8	5593.2	5620.4	5712.4	5722.7	5418.2	4579.2	4489.2	3448.7
27.5°	6376.4	6397.8	6311.7	6163.3	6033.7	5998.1	5985.8	5699.4	4894.7	4790.4	3677.4
30°	7052.2	7089.1	6977.0	6784.6	6546.8	6379.7	6255.9	5974.8	5205.7	5105.9	3893.1
32.5°	7712.4	7697.5	7534.9	7347.0	7068.4	6859.1	6559.8	6270.2	5555.6	5440.9	4107.6
35°	8164.6	8169.8	8018.8	7796.0	7530.3	7369.6	6966.7	6588.9	5912.6	5807.0	4351.2
37.5°	8549.4	8525.5	8354.4	8146.5	7917.8	7849.1	7442.9	6940.1	6299.3	6184.0	4610.3
40°	8677.7	8649.9	8537.8	8388.1	8204.8	8198.9	7968.3	7337.9	6736.7	6622.6	4902.5
42.5°	8600.0	8564.3	8518.3	8477.5	8421.2	8447.1	8462.0	7804.4	7217.4	7089.8	5240.7
45°	8313.0	8259.2	8291.6	8380.3	8502.8	8649.2	8907.7	8320.7	7755.8	7648.9	5637.9
47.5°	7871.8	7823.2	7924.2	8114.1	8447.1	8817.7	9329.5	8890.9	8398.5	8292.2	6203.5
50°	7251.1	7265.3	7409.8	7755.1	8258.5	8895.4	9849.1	9645.7	9332.7	9233.6	6975.1
52.5°	6232.6	6235.2	6642.1	7209.0	7924.2	8855.2	10137.4	10610.3	10608.4	10488.5	7709.8
55°	5286.7	5344.4	5666.4	6419.9	7382.6	8694.6	10338.9	11079.4	11446.1	11305.5	8394.6
57.5°	4362.8	4396.5	4701.7	5458.4	6609.7	8266.3	10545.6	11642.4	12411.5	12322.7	9245.9
60°	3312.0	3363.8	3679.3	4378.4	5621.0	7506.3	10565.0	12230.0	13565.3	13475.9	10196.3
62.5°	2149.7	2239.1	2534.5	3189.5	4425.0	6413.4	10114.1	12614.2	14659.0	14627.2	11039.9
65°	1235.5	1302.9	1508.3	2013.6	3052.8	5041.2	9041.8	12466.5	15332.1	15314.0	11355.4
66°	1009.4	1051.5	1208.9	1573.7	2519.0	4427.0	8418.6	12154.9	15398.8	15399.5	11319.1
67.5°	807.3	826.0	896.7	1126.7	1858.8	3508.9	7304.9	11467.5	15315.9	15338.6	11085.2
70°	668.0	677.7	699.7	755.4	1014.6	2116.0	5185.0	9681.3	14483.4	14500.9	10172.4
72.5°	599.3	605.1	613.5	621.3	715.9	1182.4	3166.8	7744.8	12698.5	12721.1	8781.4
75°	542.9	546.2	544.9	545.5	600.6	753.5	1636.5	5782.3	10267.6	10222.3	6726.9
77.5°	476.8	480.1	473.6	474.9	531.3	579.2	814.4	4048.0	6929.1	6609.0	3790.1
80°	403.0	405.6	403.0	407.5	462.6	437.3	473.6	2277.3	3063.8	2898.0	1347.6
82.5°	304.5	315.5	323.3	341.4	381.0	311.0	316.8	886.9	932.9	888.2	413.3
85°	133.5	162.6	243.6	261.1	286.4	186.6	208.0	361.5	379.7	368.0	150.3
87.5°	35.0	38.2	120.5	151.6	158.7	84.2	108.2	164.6	173.6	164.6	49.9
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°	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	1762.2	1730.5	1673.5	1622.9	1584.7	1558.8	1532.9	1519.9	1512.2	1504.4	1505.7
5°	1818.6	1754.5	1656.6	1587.3	1548.4	1523.8	1510.9	1505.7	1502.4	1494.7	1494.7
7.5°	1903.5	1812.8	1678.0	1606.7	1576.3	1557.5	1549.7	1547.1	1543.3	1534.2	1535.5
10°	2010.4	1883.4	1722.7	1653.4	1625.5	1604.8	1593.8	1589.9	1582.8	1572.4	1573.7
12.5°	2136.1	1970.9	1781.7	1709.1	1675.4	1647.6	1629.4	1618.4	1606.1	1592.5	1593.1
15°	2273.4	2066.1	1845.2	1759.0	1713.0	1674.1	1645.0	1626.2	1606.7	1589.9	1589.3
17.5°	2412.7	2158.1	1893.8	1786.2	1724.0	1672.8	1633.3	1604.2	1580.2	1559.4	1557.5
20°	2563.0	2241.0	1921.0	1783.6	1703.3	1642.4	1589.9	1553.6	1527.1	1506.3	1503.1
22.5°	2715.9	2318.8	1925.5	1757.1	1657.3	1582.8	1527.7	1487.5	1460.3	1438.9	1431.2
25°	2855.9	2379.0	1906.7	1705.9	1593.1	1512.8	1459.0	1418.2	1396.2	1370.9	1363.1
27.5°	2983.5	2421.1	1869.1	1640.4	1521.2	1442.2	1391.6	1356.7	1332.7	1313.3	1306.8
30°	3098.2	2443.8	1807.6	1562.7	1447.4	1375.5	1332.7	1308.7	1288.0	1263.4	1258.8
32.5°	3207.0	2443.8	1728.5	1477.8	1374.2	1316.5	1291.2	1276.3	1253.0	1229.0	1222.6
35°	3315.9	2428.9	1635.3	1389.1	1306.8	1274.4	1273.1	1255.6	1220.0	1187.6	1179.1
37.5°	3430.5	2398.5	1530.3	1306.1	1251.7	1255.6	1266.6	1227.7	1177.2	1131.2	1118.9
40°	3560.1	2356.3	1421.5	1234.2	1205.7	1247.2	1249.1	1187.6	1089.1	1047.0	1036.0
42.5°	3712.4	2314.2	1320.4	1170.7	1169.4	1221.9	1216.1	1100.7	1041.8	1020.4	1014.6
45°	3912.6	2290.3	1224.5	1110.5	1140.9	1181.1	1159.7	1052.8	1028.2	1015.9	1010.7
47.5°	4228.1	2302.6	1136.4	1062.5	1112.4	1140.3	1054.8	1033.4	1015.9	1001.0	995.8
50°	4623.3	2295.4	1065.1	1029.5	1080.0	1097.5	1007.5	1008.1	999.0	982.2	974.4
52.5°	4920.7	2239.7	1019.1	1010.7	1051.5	1021.7	977.7	983.5	978.9	954.3	945.9
55°	5207.7	2191.8	995.8	1003.6	1030.8	927.1	942.7	956.9	952.4	928.4	924.5
57.5°	5564.6	2182.7	981.5	1005.5	1013.3	879.8	909.0	927.8	924.5	914.2	912.2
60°	6002.0	2185.3	968.6	1008.8	993.8	844.8	877.2	901.2	903.1	901.2	899.9
62.5°	6242.3	2114.7	936.2	999.7	959.5	814.4	844.2	879.2	879.8	883.7	883.1
65°	6038.2	1903.5	875.9	967.9	901.9	789.1	815.7	853.9	844.2	861.7	861.7
66°	5840.0	1781.7	846.1	947.2	877.2	779.4	806.6	840.9	828.6	852.6	852.6
67.5°	5435.1	1576.3	792.4	903.1	842.2	765.8	796.2	819.6	802.7	838.4	835.8
70°	4695.2	1219.3	684.2	803.4	784.6	745.7	782.0	776.8	752.2	806.6	796.2
72.5°	3958.6	926.5	549.4	672.5	697.1	720.4	761.9	722.4	691.3	729.5	706.8
75°	3071.6	696.5	434.1	522.8	588.9	680.9	737.9	659.5	614.8	611.0	598.6
77.5°	1660.5	478.1	344.0	399.1	467.8	631.7	721.7	592.2	524.8	509.2	499.5
80°	657.6	311.0	250.1	302.6	327.2	560.4	682.9	513.8	432.8	417.2	402.3
82.5°	271.5	184.0	161.3	202.8	213.2	479.4	612.9	421.1	334.3	462.6	491.1
85°	116.6	101.1	95.9	105.0	120.5	336.3	487.9	321.3	360.9	322.0	255.9
87.5°	35.0	42.8	40.8	40.2	44.1	80.3	259.8	178.8	265.0	100.4	75.2
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)