

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: P322067

Luminaire Tested: **GAN-SA3A-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8042 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

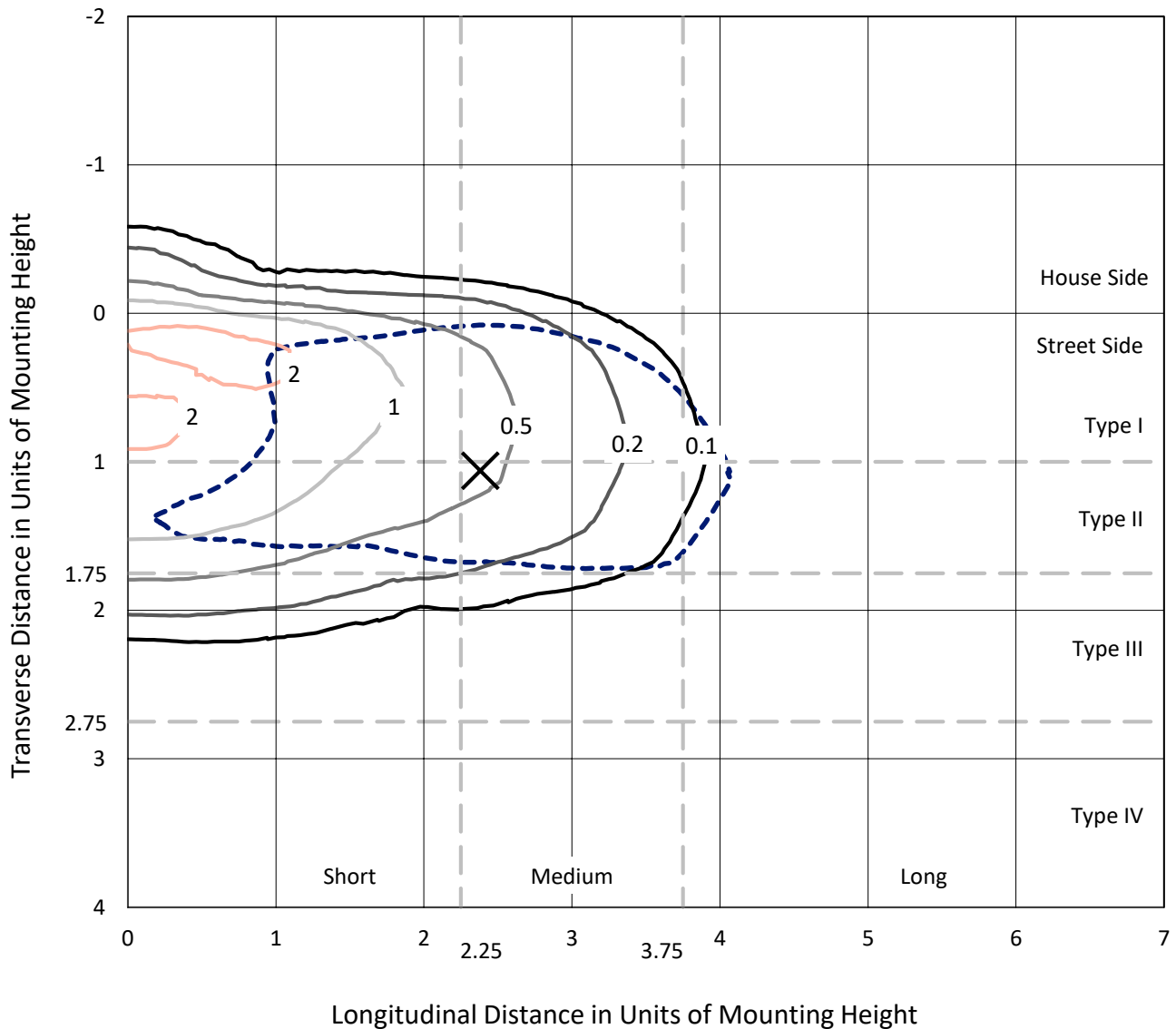
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

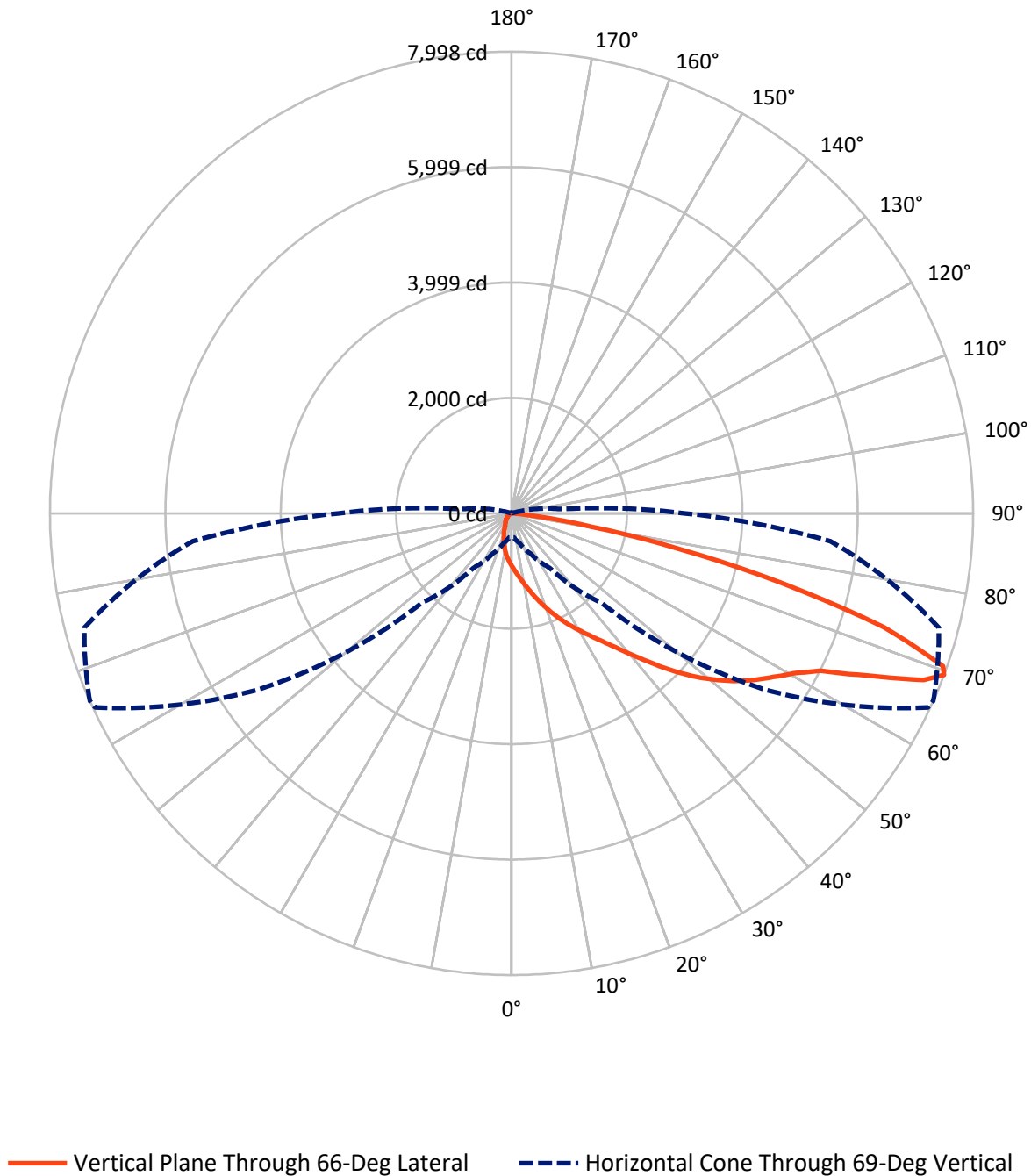
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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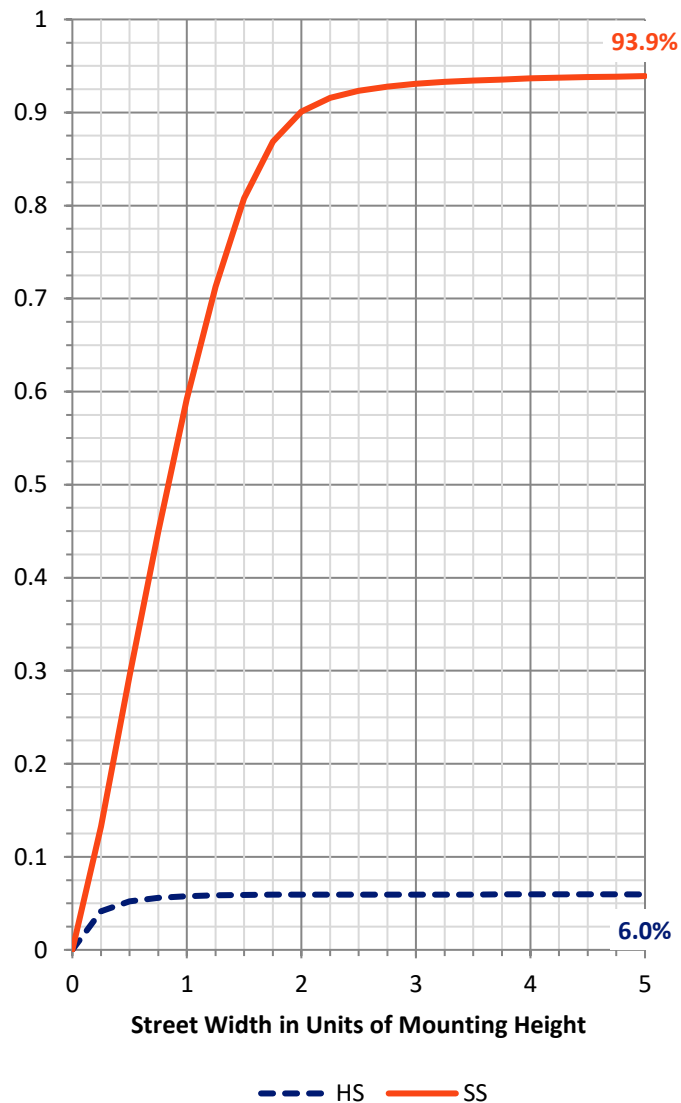
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	482.4	0.0	482.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7559.6	0.0	7559.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	8042.0	0.0	8042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.1
10°-20°	263.3	3.3
20°-30°	458.5	5.7
30°-40°	804.4	10.0
40°-50°	1346.5	16.7
50°-60°	1979.2	24.6
60°-70°	2032.1	25.3
70°-80°	1003.2	12.5
80°-90°	66.3	0.8
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°	8042.0	100.0
0°-180°	8042.0	100.0

Coefficient of Utilization



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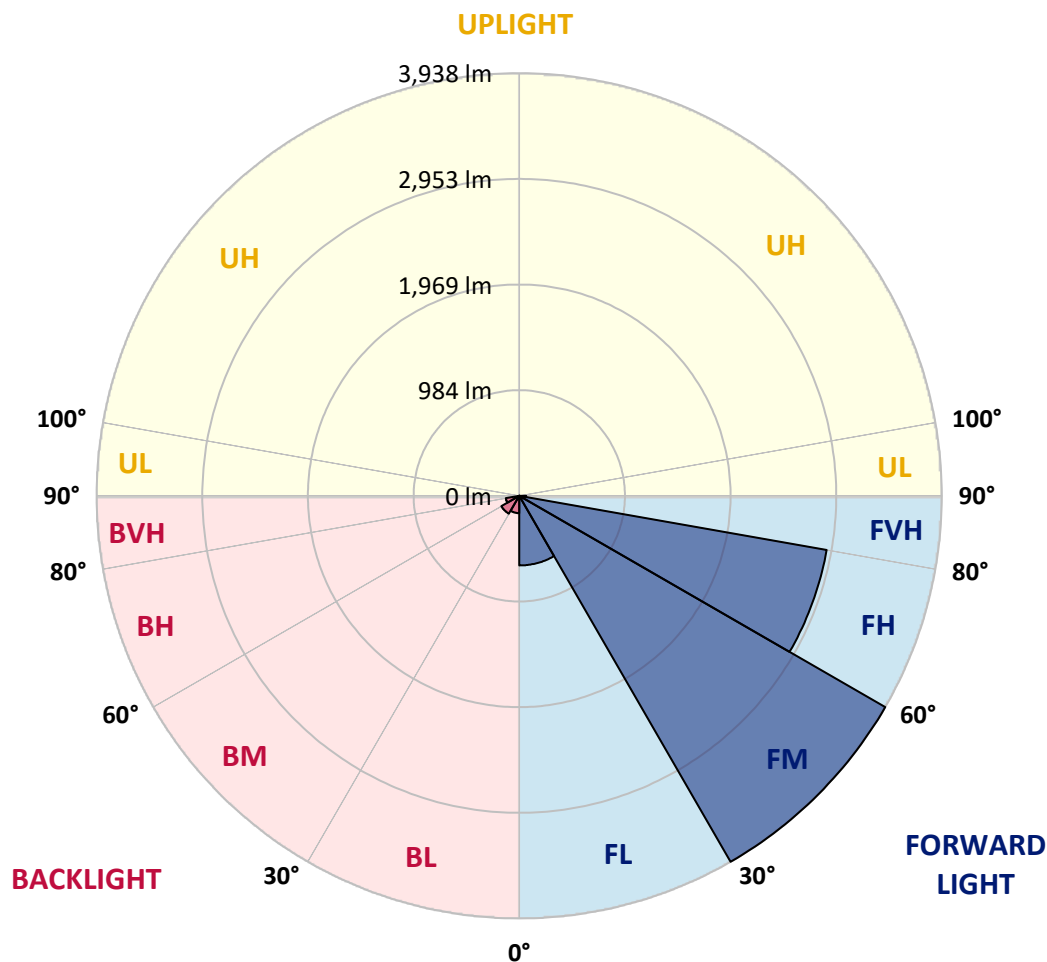
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.9	8.1			
FM	(30°-60°)	3937.8	49.0			
FH	(60°-80°)	2908.2	36.2			G2/5000
FVH	(80°-90°)	64.7	0.8			G1/100
BL	(0°-30°)	161.3	2.0	B1/500		
BM	(30°-60°)	192.3	2.4	B0/220		
BH	(60°-80°)	127.1	1.6	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	1077.2	1072.6	1070.7	1062.3	1047.7	1036.7	1015.3	990.5	985.9	961.8	932.4
5°	1217.0	1213.1	1210.5	1198.6	1183.7	1155.8	1116.9	1070.7	1061.9	1016.0	957.2
7.5°	1314.4	1321.2	1321.2	1313.6	1294.9	1273.9	1226.1	1163.1	1152.0	1081.7	990.5
10°	1371.3	1379.7	1386.2	1392.7	1390.0	1381.6	1336.5	1265.5	1252.1	1158.9	1029.0
12.5°	1376.6	1385.0	1403.4	1430.5	1456.8	1475.9	1447.7	1378.9	1363.6	1248.3	1074.9
15°	1346.8	1355.6	1383.9	1436.6	1500.4	1556.2	1565.3	1504.6	1488.9	1354.9	1132.2
17.5°	1294.9	1300.6	1341.1	1414.1	1514.1	1616.5	1671.9	1639.4	1624.9	1476.7	1196.0
20°	1256.3	1260.5	1296.0	1374.3	1505.7	1654.3	1772.7	1782.7	1767.4	1607.3	1265.1
22.5°	1322.4	1330.0	1331.2	1368.2	1482.8	1673.0	1861.4	1923.6	1912.2	1746.0	1333.1
25°	1503.1	1511.8	1482.8	1459.9	1502.3	1681.4	1937.4	2068.0	2058.8	1895.3	1401.5
27.5°	1741.8	1751.0	1713.5	1645.2	1604.3	1713.1	2005.0	2214.7	2214.3	2053.5	1475.2
30°	1976.3	1985.5	1947.3	1878.9	1785.0	1802.9	2063.4	2368.2	2370.5	2216.6	1553.5
32.5°	2222.3	2233.8	2194.4	2106.6	2008.4	1958.0	2145.5	2522.5	2535.5	2405.7	1641.7
35°	2501.9	2503.4	2448.1	2356.0	2242.9	2165.4	2277.3	2695.6	2726.5	2639.8	1753.6
37.5°	2776.2	2787.3	2741.8	2596.6	2492.8	2404.9	2473.3	2911.8	2955.7	2925.9	1899.9
40°	2979.4	3002.7	2996.2	2839.6	2741.0	2678.4	2716.6	3168.8	3224.6	3259.0	2084.4
42.5°	3107.0	3124.5	3154.3	3060.0	2970.6	2980.9	3003.8	3468.3	3537.1	3638.7	2296.4
45°	3253.3	3261.7	3286.5	3244.9	3184.5	3288.4	3308.6	3805.6	3877.8	4047.0	2531.7
47.5°	3432.0	3451.9	3458.8	3420.6	3393.1	3560.4	3602.4	4112.3	4213.5	4484.4	2780.8
50°	3659.7	3665.0	3676.9	3652.0	3624.5	3794.1	3865.9	4434.3	4526.4	4923.2	3026.4
52.5°	3882.4	3901.5	3942.7	3927.1	3916.0	3993.1	4100.9	4724.6	4827.4	5289.2	3271.6
55°	3946.5	3963.0	4105.4	4202.8	4293.0	4238.4	4325.5	4984.7	5095.9	5616.1	3507.7
57.5°	3690.2	3723.5	3970.2	4223.8	4597.8	4619.6	4634.1	5251.7	5351.4	5866.7	3753.3
60°	3042.4	3048.9	3453.8	3888.9	4547.4	4952.3	5084.8	5538.6	5622.2	6100.1	4047.4
62.5°	1935.1	2001.2	2445.4	3059.6	4014.1	4904.1	5629.9	5972.5	6003.1	6380.1	4469.1
65°	921.7	964.5	1284.6	1890.4	2907.6	4288.0	6006.1	6757.5	6771.2	6935.1	5032.5
67.5°	510.3	530.9	683.3	1017.6	1699.8	3032.5	5854.1	7687.2	7700.2	7501.9	5526.8
69°	399.2	416.7	536.7	767.0	1152.4	2179.5	5297.6	7959.5	7998.1	7664.3	5544.3
70°	338.8	356.0	462.2	647.8	926.7	1684.1	4715.4	7891.9	7932.8	7649.0	5413.3
72.5°	207.4	217.3	307.9	456.1	621.1	847.2	2908.0	6674.2	6743.3	7016.4	4652.4
75°	139.8	145.1	192.5	314.7	444.2	436.2	1510.7	4704.4	4854.1	5458.0	3436.2
77.5°	100.1	105.0	129.1	203.6	311.3	288.0	684.1	2923.6	2955.7	3273.5	1874.0
80°	56.9	61.5	91.3	121.1	211.2	192.1	272.0	1396.5	1412.5	1403.7	625.7
82.5°	29.8	33.6	50.0	79.8	135.6	125.7	113.1	467.5	469.8	390.8	137.1
85°	5.7	6.9	24.8	54.6	69.9	54.6	46.2	109.6	111.9	98.9	34.0
87.5°	0.0	0.4	9.9	12.2	13.8	14.1	14.9	21.4	22.9	30.9	9.2
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°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	919.4	905.7	879.3	848.7	825.1	801.8	783.4	764.3	757.5	754.0	753.6
5°	928.6	899.5	843.8	786.5	739.5	695.2	663.5	633.3	619.2	612.7	610.0
7.5°	943.9	897.3	807.5	720.0	652.4	597.0	553.1	520.2	503.8	496.9	494.3
10°	961.8	894.2	765.1	649.7	563.4	506.1	462.6	430.1	412.1	404.5	400.7
12.5°	982.8	888.8	716.2	578.7	487.4	430.1	377.4	337.3	316.7	307.9	303.7
15°	1008.8	883.5	665.0	511.8	420.6	350.7	293.0	265.9	261.7	260.1	260.5
17.5°	1034.4	875.1	609.2	445.8	350.3	273.9	244.5	242.9	243.7	243.7	243.7
20°	1057.3	856.0	548.5	389.2	283.4	231.1	225.0	222.3	220.4	218.9	217.0
22.5°	1075.3	830.4	490.1	333.1	231.5	211.6	202.1	193.7	186.8	182.2	179.9
25°	1087.5	796.4	436.6	279.2	208.2	192.5	175.3	161.2	150.5	144.0	141.3
27.5°	1096.6	759.7	388.8	233.8	192.1	170.4	147.8	131.0	119.9	114.2	111.9
30°	1103.1	718.1	346.8	205.5	174.2	147.1	123.0	106.6	98.5	95.5	94.0
32.5°	1109.2	671.9	307.1	192.1	157.4	125.7	103.1	90.5	85.6	81.7	80.6
35°	1124.5	629.1	269.3	178.0	140.2	107.3	88.6	79.5	74.5	72.2	71.4
37.5°	1160.8	597.4	233.0	163.5	123.0	92.8	77.5	71.0	66.5	64.2	63.4
40°	1219.3	581.4	202.4	147.8	106.2	81.7	70.3	64.2	59.2	55.8	55.0
42.5°	1305.2	583.7	181.1	132.2	92.8	73.0	63.4	56.1	50.8	47.7	47.0
45°	1409.5	600.5	166.2	116.9	81.7	66.1	55.8	48.1	43.2	40.5	39.7
47.5°	1522.5	627.6	153.9	103.1	73.0	59.6	48.1	40.1	35.9	33.6	33.2
50°	1641.7	653.9	141.3	89.8	65.3	53.1	40.5	33.2	29.8	27.9	27.1
52.5°	1762.4	684.5	129.9	77.5	58.8	45.5	33.6	27.1	24.4	22.9	22.2
55°	1892.3	707.4	118.8	68.0	52.3	38.6	27.9	22.5	20.2	18.3	18.0
57.5°	2045.1	742.9	107.3	58.8	44.7	32.1	22.9	18.0	16.0	14.1	13.8
60°	2251.3	784.6	95.1	51.9	36.7	26.4	18.7	14.5	12.2	10.7	10.3
62.5°	2523.3	830.8	79.8	45.5	29.8	21.4	14.9	11.5	8.8	6.9	6.9
65°	2868.2	906.0	65.3	38.2	24.4	17.6	11.5	8.4	5.0	3.1	3.1
67.5°	3069.5	919.0	52.7	31.3	19.9	14.9	9.5	5.7	1.5	0.4	0.0
69°	3005.0	843.8	44.7	26.7	17.2	14.1	8.8	4.2	0.8	0.0	0.0
70°	2883.5	771.6	39.3	23.7	15.7	13.4	8.4	3.1	0.8	0.0	0.0
72.5°	2382.7	549.3	29.8	17.6	11.5	11.8	7.6	1.9	0.8	0.0	0.0
75°	1735.7	333.8	21.4	12.2	7.3	8.8	5.3	0.8	0.4	0.0	0.0
77.5°	965.6	157.4	13.4	6.9	4.6	5.3	2.7	0.0	0.0	0.0	0.0
80°	313.6	42.8	6.1	3.8	2.7	3.1	1.1	0.0	0.0	0.0	0.0
82.5°	58.1	12.2	3.4	1.9	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	12.6	5.0	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.5	0.4	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)