

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: P193185

Luminaire Tested: **GAN-AF-07-LED-U-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32906.7 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

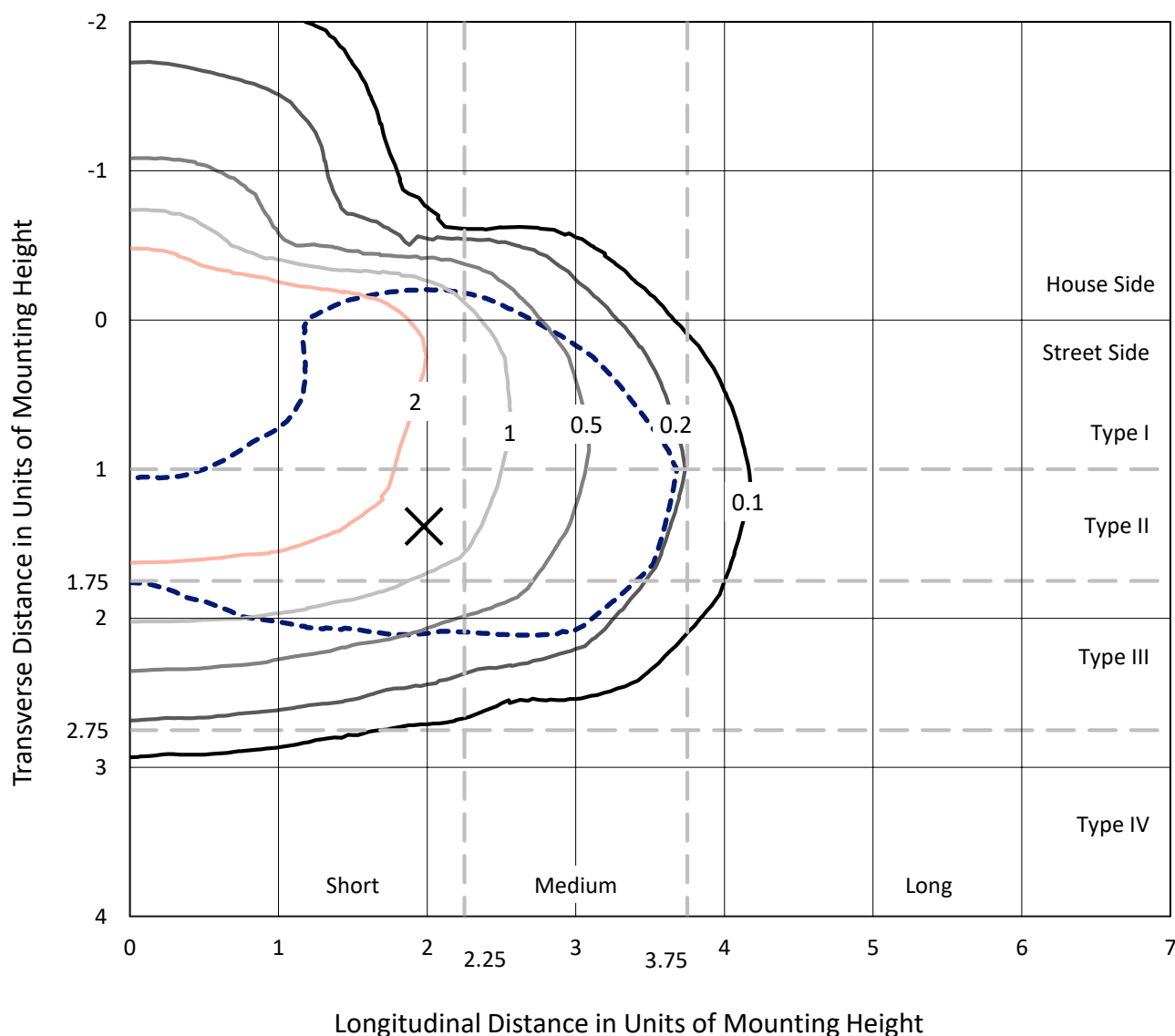


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

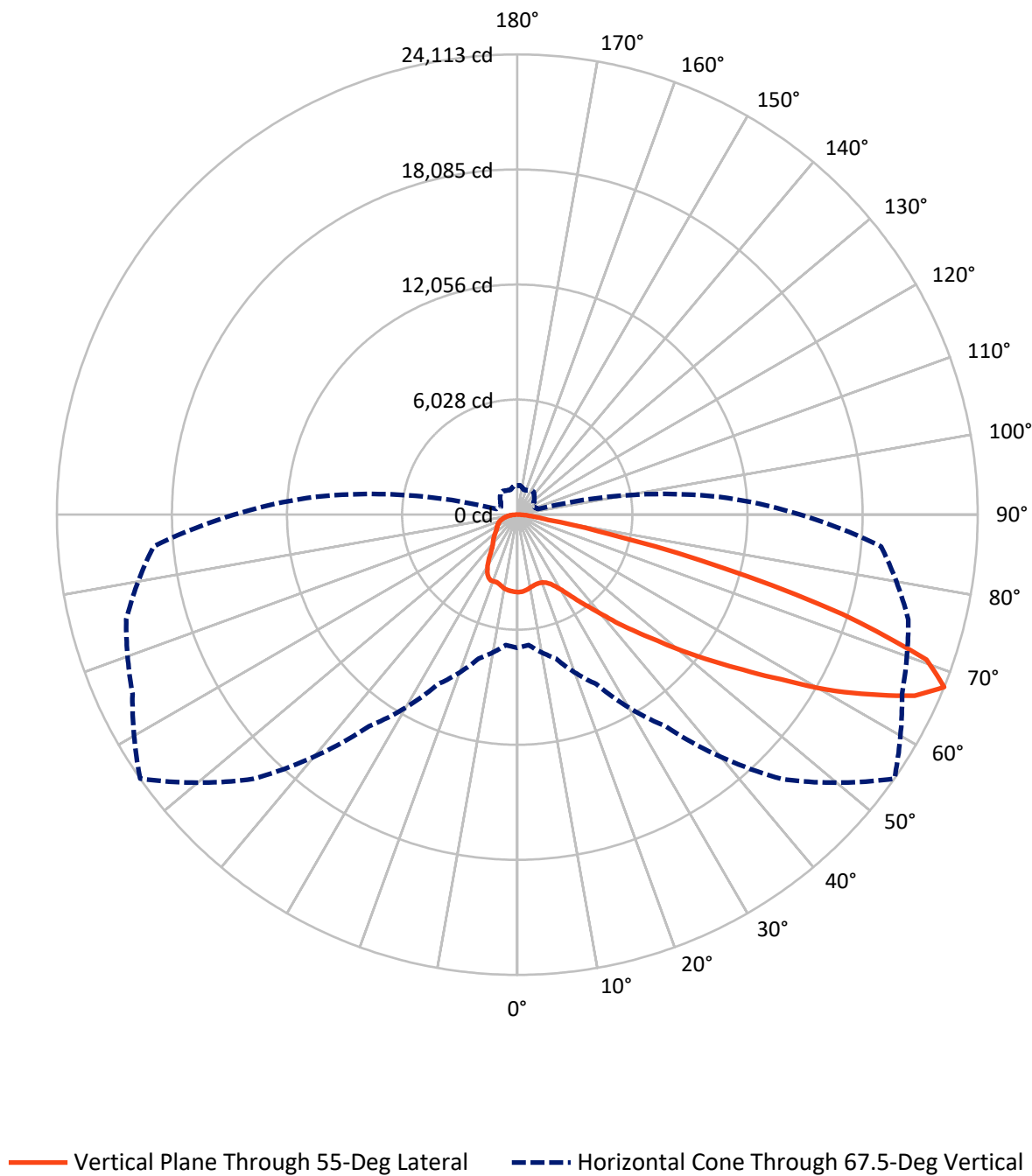


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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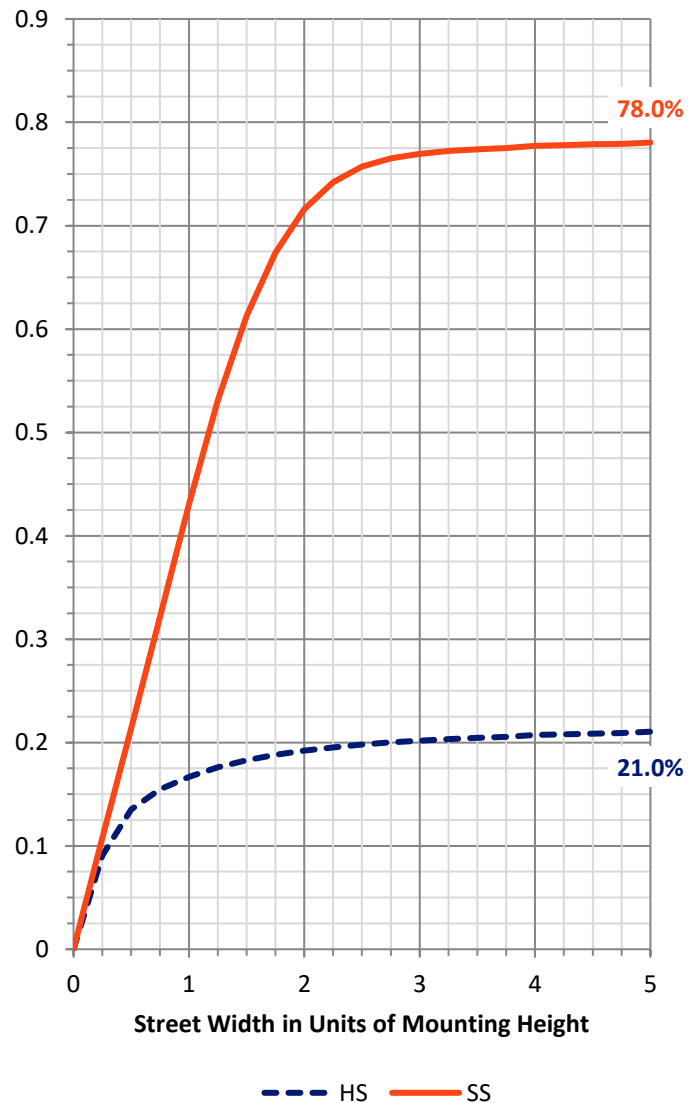
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7108.5	0.0	7108.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25798.2	0.0	25798.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	32906.7	0.0	32906.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	1.2
10°-20°	1072.7	3.3
20°-30°	1796.9	5.5
30°-40°	2954.8	9.0
40°-50°	4973.9	15.1
50°-60°	7828.5	23.8
60°-70°	9342.5	28.4
70°-80°	4011.8	12.2
80°-90°	547.0	1.7
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°	32906.7	100.0
0°-180°	32906.7	100.0

Coefficient of Utilization



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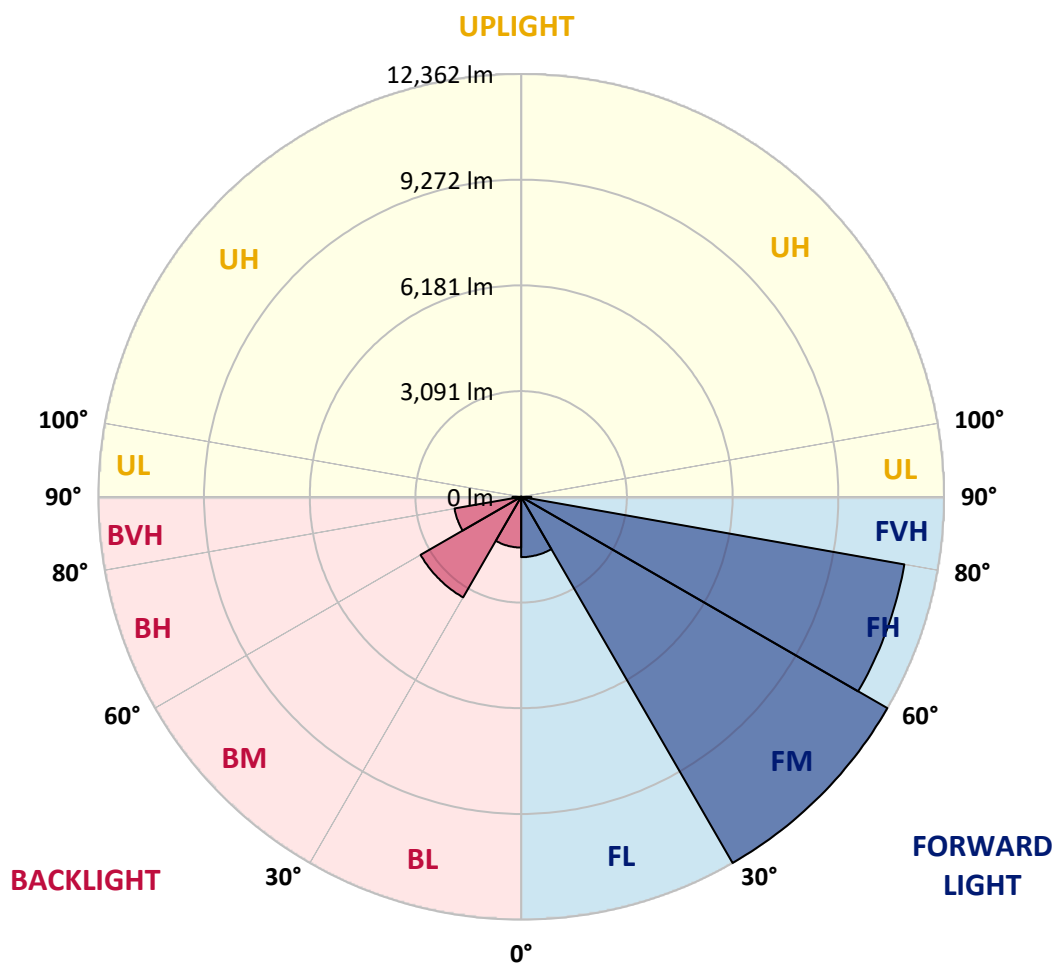
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1763.9	5.4			
FM	(30°-60°)	12362.2	37.6			
FH	(60°-80°)	11376.0	34.6			G4/12000
FVH	(80°-90°)	296.1	0.9			G3/500
BL	(0°-30°)	1484.4	4.5	B3/2500		
BM	(30°-60°)	3395.0	10.3	B3/5000		
BH	(60°-80°)	1978.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	250.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	4022.8	4024.3	4027.6	4040.3	4051.5	4048.3	4049.8	4043.4	4041.8	4032.3	4041.8
5°	3971.9	3976.7	3978.2	3999.0	4011.7	4014.8	4010.1	4002.1	3992.6	3983.0	3987.9
7.5°	3855.9	3868.7	3870.2	3898.8	3919.4	3946.5	3948.1	3949.7	3945.0	3938.6	3948.1
10°	3782.8	3786.0	3784.4	3805.1	3820.9	3851.2	3868.7	3898.8	3911.5	3914.8	3921.1
12.5°	3777.9	3774.8	3770.1	3770.1	3765.3	3777.9	3809.8	3852.7	3883.0	3892.5	3900.4
15°	3828.9	3827.3	3811.4	3787.6	3757.3	3747.8	3774.8	3822.6	3862.2	3883.0	3890.8
17.5°	3943.2	3933.8	3908.3	3854.3	3789.1	3763.8	3766.9	3806.6	3852.7	3879.8	3887.7
20°	4153.2	4153.2	4099.1	3997.4	3881.3	3820.9	3792.3	3816.2	3860.6	3897.3	3908.3
22.5°	4515.4	4518.6	4428.1	4261.2	4065.7	3936.9	3865.5	3860.6	3913.1	3954.4	3967.2
25°	5028.8	5016.2	4889.1	4650.6	4353.4	4140.4	4016.5	3987.9	4032.3	4078.4	4094.3
27.5°	5626.6	5580.4	5429.4	5141.7	4757.1	4445.5	4254.9	4208.7	4251.8	4304.2	4320.0
30°	6217.7	6170.1	5990.4	5675.8	5248.3	4854.1	4580.7	4506.0	4566.4	4641.2	4650.6
32.5°	6809.0	6809.0	6608.8	6241.7	5775.9	5342.0	5014.6	4925.6	5025.7	5116.3	5137.0
35°	7516.3	7519.4	7325.7	6883.8	6383.0	5923.7	5562.9	5497.7	5648.7	5712.3	5761.6
37.5°	8385.7	8403.2	8153.7	7619.6	7071.3	6588.2	6159.0	6069.9	6220.9	6394.2	6553.2
40°	9325.1	9347.3	9072.4	8414.3	7866.0	7360.6	6896.5	6736.0	6987.0	7317.6	7522.6
42.5°	10221.4	10335.9	10070.5	9393.3	8803.7	8280.8	7810.4	7576.7	7891.4	8390.4	8568.4
45°	11516.8	11599.5	11137.1	10523.5	9968.9	9383.8	8760.9	8514.5	8954.7	9584.1	9620.8
47.5°	12379.8	12317.9	12082.7	11701.2	11350.0	10803.2	9865.4	9595.2	10180.1	10920.8	10715.8
50°	12839.3	12858.2	12826.5	12848.8	12861.5	12518.2	11219.7	10849.3	11547.1	12441.9	11969.8
52.5°	13268.3	13141.2	13246.1	13767.4	14396.9	14269.7	12692.9	12306.8	13012.4	14129.9	13295.4
55°	13258.8	13064.9	13406.6	14326.9	15692.3	15838.4	14347.6	13902.5	14562.2	15940.2	14700.4
57.5°	12790.0	12799.5	13325.6	14530.4	16595.0	17313.4	16267.6	15600.0	16205.6	17774.3	15983.1
60°	12144.7	12232.1	12990.3	14496.9	17318.1	18522.9	18623.1	17429.5	17815.7	19441.6	17044.8
62.5°	11103.6	11195.8	12241.6	14150.5	17208.6	19688.0	20752.9	19505.2	19498.9	20452.5	17356.3
65°	9461.8	9434.7	10533.0	12855.1	16288.3	20549.5	22868.4	21299.6	20767.2	20468.4	16730.1
67.5°	6977.6	6856.7	7799.3	9790.7	13538.6	19584.7	24112.9	22234.3	21199.5	19122.1	14816.4
70°	3620.7	3499.9	4262.8	5717.1	8903.9	15285.4	22734.8	21751.0	20244.3	16029.2	11607.4
72.5°	1548.1	1527.5	1837.3	2508.0	4307.3	8816.4	17826.7	18826.6	17370.6	11942.8	7980.4
75°	1041.0	1034.6	1150.7	1367.0	1937.5	3577.8	11156.0	13363.7	12708.9	7405.0	4488.5
77.5°	816.9	808.9	877.4	982.2	1255.6	1411.4	4951.0	7174.6	6640.6	3223.3	1964.5
80°	638.9	632.6	675.6	732.7	902.8	890.0	1629.2	2854.6	2209.2	1234.9	955.3
82.5°	503.8	503.8	538.7	540.4	640.5	607.2	850.4	1257.2	1103.1	720.0	584.9
85°	461.0	461.0	497.4	403.7	418.0	383.1	527.7	745.4	699.4	295.6	254.3
87.5°	232.0	225.7	418.0	357.6	227.3	203.4	257.6	360.8	387.8	163.7	127.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	4038.7	4037.1	4040.3	4041.8	4054.6	4072.1	4080.0	4091.1	4097.4	4094.3
5°	3991.0	3994.2	4006.9	4016.5	4038.7	4067.2	4083.2	4095.9	4107.0	4102.2
7.5°	3951.3	3959.2	3978.2	3986.3	3999.0	4006.9	4005.3	4010.1	4019.6	4008.5
10°	3929.0	3938.6	3952.9	3941.7	3911.5	3868.7	3828.9	3808.2	3814.6	3806.6
12.5°	3906.8	3919.4	3908.3	3855.9	3771.6	3716.0	3685.9	3689.0	3703.4	3706.5
15°	3894.0	3898.8	3851.2	3752.6	3666.7	3658.8	3674.7	3671.5	3673.1	3673.1
17.5°	3894.0	3881.3	3792.3	3693.7	3657.2	3642.9	3593.6	3531.7	3504.6	3495.1
20°	3914.8	3881.3	3773.3	3708.0	3628.6	3506.2	3375.9	3261.5	3210.6	3196.3
22.5°	3976.7	3919.4	3827.3	3714.5	3488.7	3283.7	3077.1	2940.3	2848.2	2832.3
25°	4102.2	4038.7	3933.8	3630.2	3266.2	2973.8	2738.6	2585.9	2493.8	2481.1
27.5°	4321.6	4280.2	3991.0	3444.3	2970.6	2657.5	2439.8	2322.1	2253.8	2249.0
30°	4652.2	4631.5	3962.4	3169.3	2606.6	2350.7	2245.9	2177.5	2126.6	2125.0
32.5°	5179.9	5013.1	3868.7	2833.9	2274.4	2133.0	2090.0	2048.7	2009.1	2009.1
35°	5858.6	5321.4	3690.6	2474.7	2072.5	2012.2	1958.2	1893.0	1840.6	1837.3
37.5°	6656.4	5512.0	3371.0	2185.4	1977.3	1931.1	1851.6	1754.7	1662.5	1646.6
40°	7462.3	5569.3	2921.4	2007.4	1916.9	1850.1	1753.1	1638.7	1549.7	1544.9
42.5°	8201.3	5459.5	2444.4	1885.0	1856.5	1767.4	1665.6	1563.9	1494.0	1492.5
45°	8821.1	5175.1	2044.0	1769.0	1792.8	1692.8	1602.1	1519.5	1465.3	1454.4
47.5°	9404.5	4773.0	1762.7	1646.6	1729.2	1651.4	1575.1	1497.2	1444.7	1436.9
50°	10081.6	4339.1	1565.5	1527.5	1673.7	1637.1	1597.4	1516.3	1428.9	1419.4
52.5°	10901.8	3964.0	1411.4	1422.5	1630.7	1656.2	1654.6	1570.4	1417.7	1405.1
55°	11817.3	3547.5	1295.4	1336.7	1613.2	1691.2	1668.8	1621.2	1427.3	1408.3
57.5°	12718.5	3061.2	1214.3	1271.6	1587.9	1687.9	1600.5	1532.2	1449.6	1422.5
60°	13394.0	2408.0	1152.3	1214.3	1532.2	1635.5	1525.8	1435.2	1444.7	1424.0
62.5°	13438.5	1861.2	1077.7	1165.0	1447.9	1583.0	1476.5	1392.3	1465.3	1446.4
65°	12648.5	1406.6	1006.1	1106.2	1357.3	1549.7	1428.9	1368.5	1508.4	1487.7
67.5°	10649.1	1131.7	945.7	1045.8	1266.8	1479.7	1386.0	1346.2	1546.4	1510.0
70°	7687.9	964.8	886.8	972.7	1185.7	1400.2	1347.8	1306.5	1443.2	1386.0
72.5°	4733.2	836.1	820.1	875.7	1123.7	1317.6	1290.6	1231.8	1300.1	1254.1
75°	2363.5	724.7	745.4	780.4	1036.4	1223.8	1195.2	1136.4	1145.9	1136.4
77.5°	1131.7	619.8	658.1	685.0	923.5	1117.4	1087.1	1026.7	1015.7	1017.2
80°	716.8	518.1	554.7	573.8	824.9	993.3	963.2	902.8	1030.0	955.3
82.5°	448.2	421.2	430.7	465.7	718.4	864.7	824.9	770.9	928.2	734.3
85°	247.9	294.0	306.8	336.9	553.1	723.2	683.4	615.1	551.5	542.0
87.5°	147.8	174.9	179.6	201.8	371.9	523.0	462.5	438.6	364.0	362.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)