

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: P193306

Luminaire Tested: **GAN-AF-08-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37017 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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



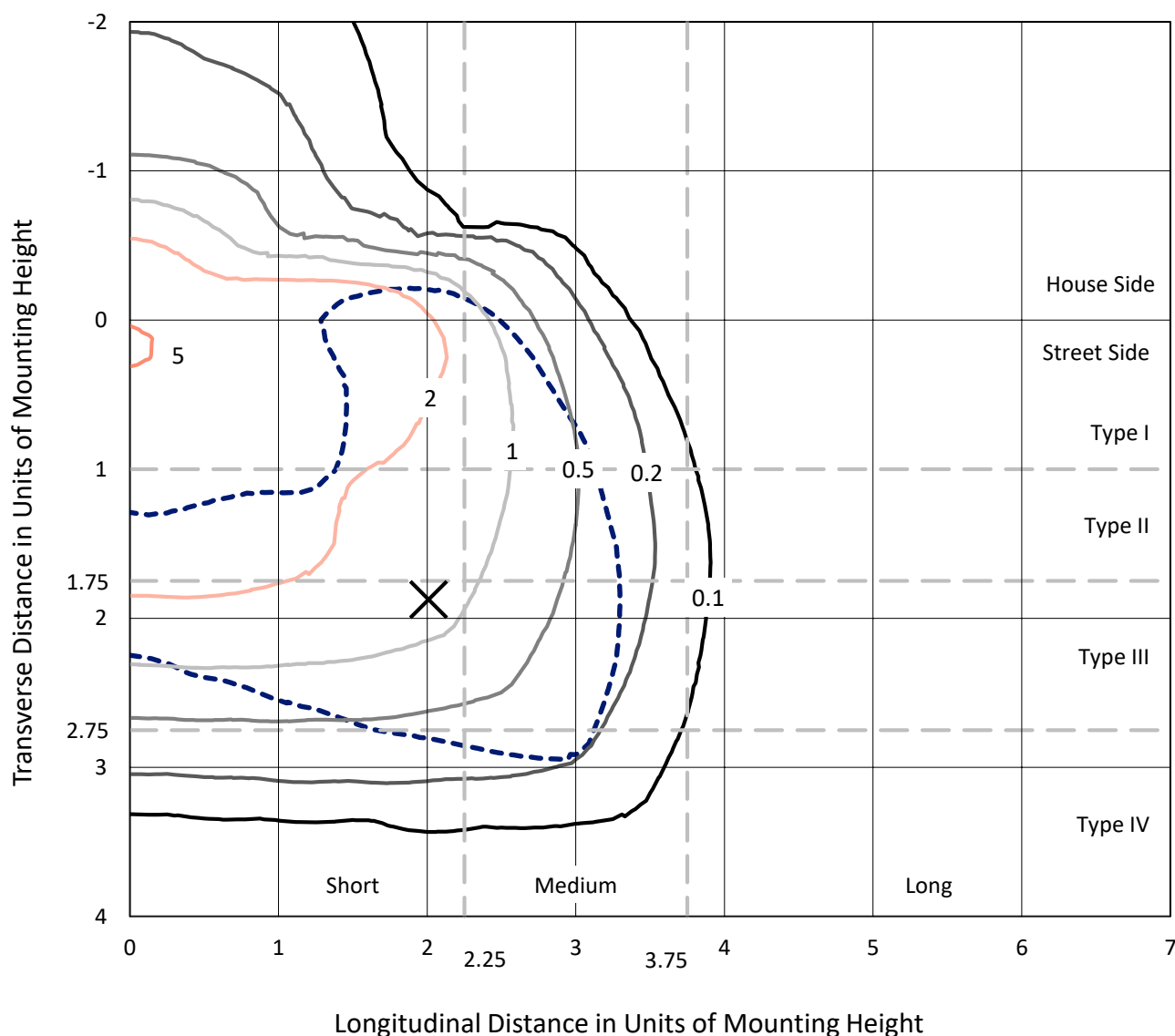
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

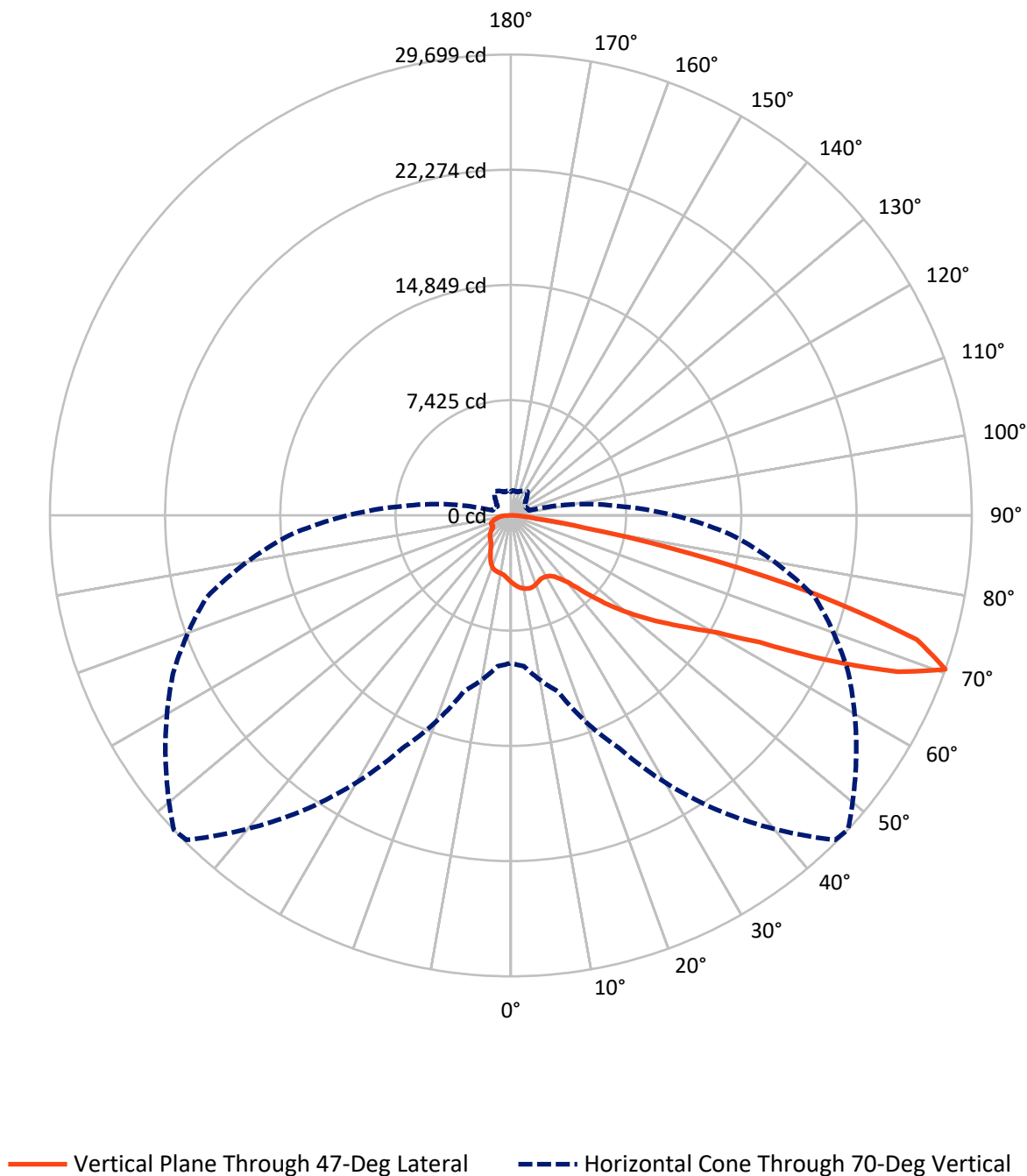


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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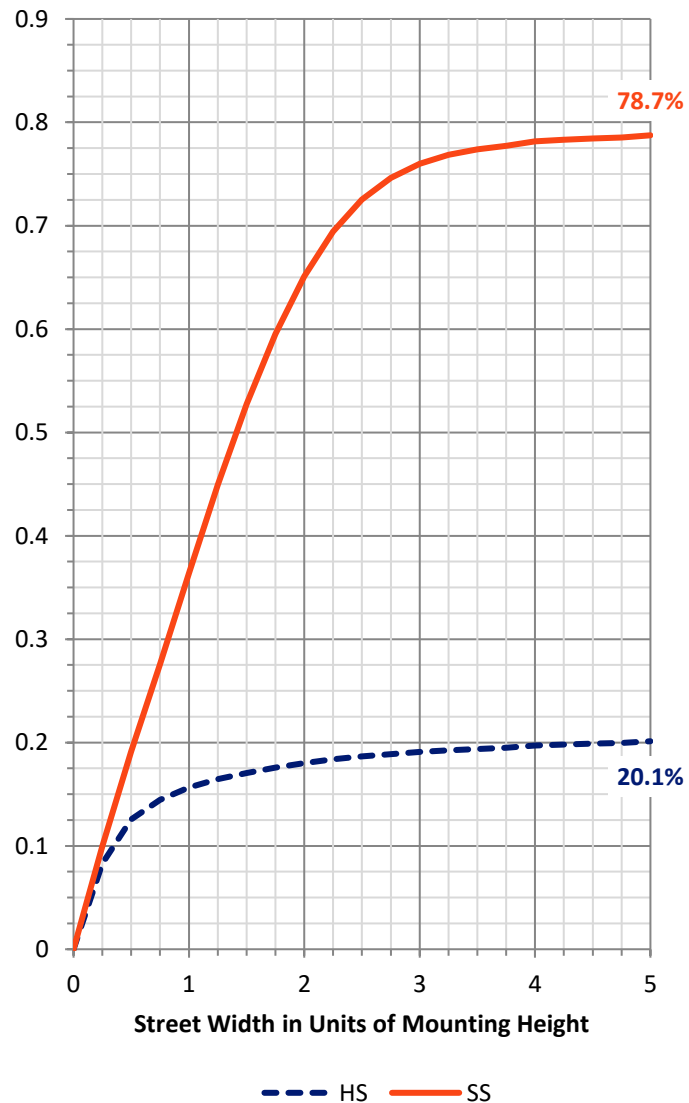
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7722.5	0.0	7722.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29294.6	0.0	29294.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	37017.0	0.0	37017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	1.1
10°-20°	1207.4	3.3
20°-30°	1783.0	4.8
30°-40°	2591.5	7.0
40°-50°	4663.8	12.6
50°-60°	8079.5	21.8
60°-70°	11531.8	31.2
70°-80°	5919.8	16.0
80°-90°	828.8	2.2
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°	37017.0	100.0
0°-180°	37017.0	100.0

Coefficient of Utilization



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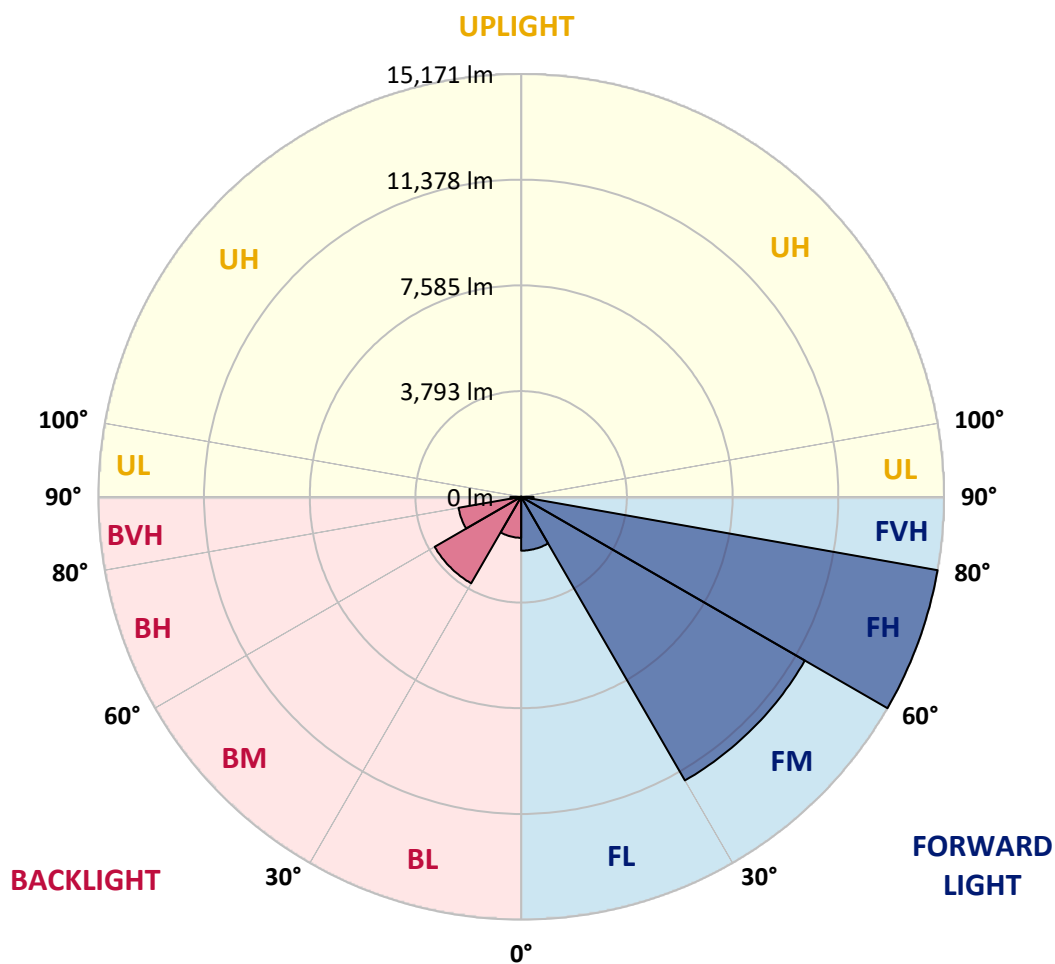
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.5	5.2			
FM	(30°-60°)	11750.2	31.7			
FH	(60°-80°)	15170.6	41.0			G5
FVH	(80°-90°)	442.3	1.2			G3/500
BL	(0°-30°)	1470.4	4.0	B3/2500		
BM	(30°-60°)	3584.5	9.7	B3/5000		
BH	(60°-80°)	2281.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	386.5	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1
2.5°	4547.3	4538.3	4534.7	4527.4	4518.4	4473.4	4464.5	4432.0	4387.0	4340.1	4291.4
5°	4846.2	4844.4	4824.6	4788.7	4730.9	4631.9	4608.4	4529.3	4423.1	4320.3	4217.7
7.5°	5109.2	5092.9	5055.1	4983.1	4882.2	4747.2	4714.7	4604.8	4459.0	4318.6	4179.8
10°	5301.8	5292.8	5210.0	5110.9	4979.5	4830.1	4792.2	4669.7	4509.4	4331.1	4158.3
12.5°	5411.7	5393.7	5298.2	5179.3	5022.6	4876.8	4839.0	4714.7	4534.7	4331.1	4127.6
15°	5404.5	5391.8	5296.5	5166.8	5008.3	4880.4	4846.2	4721.9	4529.3	4313.1	4088.1
17.5°	5260.4	5265.9	5184.8	5056.9	4927.3	4830.1	4799.4	4684.2	4493.2	4277.2	4041.2
20°	5008.3	5033.5	4979.5	4866.0	4794.0	4727.3	4707.6	4610.3	4437.3	4224.9	3990.8
22.5°	4756.2	4779.5	4757.9	4662.5	4651.7	4612.1	4601.2	4531.1	4388.7	4192.5	3960.2
25°	4570.7	4592.2	4588.7	4505.9	4538.3	4536.5	4527.4	4493.2	4378.0	4192.5	3965.6
27.5°	4520.3	4527.4	4520.3	4444.5	4489.6	4525.6	4518.4	4513.1	4410.4	4244.7	4034.0
30°	4693.1	4682.3	4626.5	4473.4	4514.8	4565.3	4558.1	4561.7	4507.6	4381.7	4187.1
32.5°	5382.8	5334.2	5157.8	4727.3	4617.6	4644.5	4648.1	4707.6	4716.5	4592.2	4424.8
35°	6414.8	6360.7	6132.0	5408.2	4936.3	4842.6	4842.6	4932.6	4986.7	4894.9	4794.0
37.5°	7508.0	7448.5	7326.1	6351.8	5606.2	5186.5	5177.6	5240.6	5318.0	5339.6	5364.8
40°	8750.6	8687.5	8721.7	7410.6	6540.8	5782.6	5654.8	5609.8	5818.7	5957.4	6159.1
42.5°	10110.2	10081.4	10094.0	8590.3	7605.2	6674.1	6492.1	6259.9	6512.1	6758.8	7181.9
45°	11369.1	11394.2	11381.6	9852.7	8790.1	7761.9	7569.2	7118.9	7365.6	7788.9	8478.6
47.5°	12471.2	12366.7	12528.8	11232.2	10117.4	8979.3	8741.5	8138.2	8388.6	8910.8	10077.7
50°	13809.3	13794.8	13557.1	13072.7	11722.0	10202.1	9890.4	9191.8	9580.7	10306.5	12093.1
52.5°	15215.8	14954.7	14736.7	14504.3	13423.8	11455.5	11073.7	10241.6	10981.8	11894.9	14549.4
55°	15503.9	15386.9	15657.0	16047.8	15064.4	12757.5	12312.8	11558.1	12559.5	13710.2	17382.2
57.5°	16119.8	16118.0	16676.2	17373.2	16753.7	14138.8	13690.4	13148.4	14333.2	15790.2	20389.8
60°	16535.9	16652.9	17690.1	19042.7	18412.4	15734.4	15322.0	14983.4	16350.3	18115.1	23191.9
62.5°	16753.7	16912.1	18327.7	19719.7	20757.1	18390.7	17978.3	17490.2	19019.2	20665.2	24830.7
65°	15847.8	16159.5	18228.6	20305.1	22810.0	22696.7	22511.1	21654.0	22356.3	22680.5	24238.2
67.5°	13341.0	13659.8	16069.5	19759.4	24276.0	26849.5	26889.1	25424.9	24409.3	22853.3	20378.9
70°	9505.1	9755.4	11748.9	16566.4	23159.4	29563.5	29698.6	27162.8	24000.6	20267.3	14237.9
72.5°	4513.1	4666.1	6553.5	10781.9	18378.1	27087.2	27348.3	24944.2	20407.7	15005.0	7767.2
75°	1658.7	1705.4	2215.1	4586.9	10659.5	19975.6	20283.4	17881.1	13528.3	7470.0	2958.8
77.5°	994.0	1024.8	1242.6	1936.0	4192.5	11417.7	11873.3	9724.8	5912.3	2780.5	1455.2
80°	695.1	716.7	891.4	1204.8	1981.0	4350.9	4756.2	3969.2	2355.5	1759.5	1058.9
82.5°	470.1	480.8	626.7	814.0	1316.5	1554.2	1676.6	1764.9	1588.4	1309.3	671.7
85°	308.0	318.7	425.0	536.7	837.4	803.2	821.2	1039.2	1159.8	889.6	372.8
87.5°	176.5	183.7	255.7	286.4	410.6	340.4	343.9	547.5	742.0	599.8	226.9
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°	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1	4295.1
2.5°	4278.9	4255.5	4203.3	4170.9	4140.3	4133.1	4120.5	4118.6	4116.9	4116.9	4111.4
5°	4183.4	4143.8	4062.8	4017.8	3980.0	3976.4	3974.6	3983.6	3987.2	3990.8	3985.3
7.5°	4122.3	4068.3	3967.3	3902.5	3857.5	3846.7	3864.7	3906.1	3933.2	3943.9	3938.6
10°	4084.4	4017.8	3900.8	3830.5	3792.7	3787.3	3810.6	3859.4	3915.1	3936.7	3935.0
12.5°	4041.2	3965.6	3841.3	3767.5	3745.9	3756.7	3787.3	3832.3	3889.9	3924.1	3925.9
15°	3998.1	3909.8	3781.9	3717.0	3708.0	3722.5	3751.3	3785.5	3830.5	3864.7	3868.4
17.5°	3945.8	3853.9	3726.1	3659.4	3652.2	3659.4	3661.2	3679.2	3708.0	3740.5	3749.4
20°	3889.9	3796.3	3663.0	3596.4	3563.9	3535.2	3502.8	3506.3	3515.3	3547.7	3555.0
22.5°	3850.3	3756.7	3614.4	3522.5	3436.1	3349.7	3284.9	3275.8	3279.4	3306.4	3315.5
25°	3853.9	3754.9	3601.7	3443.3	3254.2	3115.5	3029.1	3014.7	3013.0	3032.7	3045.3
27.5°	3924.1	3825.0	3648.6	3362.2	3056.1	2850.8	2759.1	2748.2	2733.7	2739.1	2753.6
30°	4080.9	3988.9	3762.1	3279.4	2841.9	2591.5	2496.0	2485.2	2465.4	2456.3	2467.2
32.5°	4336.5	4260.9	3927.8	3200.2	2627.4	2370.0	2272.7	2249.3	2236.7	2225.9	2234.9
35°	4761.5	4729.2	4149.2	3113.8	2438.4	2198.9	2110.7	2074.7	2056.6	2076.5	2090.7
37.5°	5427.9	5445.9	4439.2	2978.6	2292.6	2085.4	2011.6	1970.2	1943.1	1959.3	1975.6
40°	6371.6	6384.1	4759.8	2787.8	2166.5	2018.8	1939.6	1901.7	1864.0	1835.1	1833.3
42.5°	7610.6	7482.7	5074.9	2580.7	2020.6	1977.4	1889.1	1842.3	1784.6	1705.4	1689.2
45°	9080.1	8631.7	5314.5	2342.9	1856.8	1927.0	1833.3	1768.5	1678.4	1592.0	1582.9
47.5°	10773.0	9865.2	5431.5	2096.2	1703.7	1853.1	1764.9	1662.3	1548.7	1505.6	1500.1
50°	12840.3	11329.4	5487.3	1856.8	1570.4	1755.9	1665.8	1545.2	1449.8	1440.7	1435.3
52.5°	15194.1	13090.7	5505.3	1660.4	1460.6	1629.8	1584.8	1467.7	1392.1	1399.3	1399.3
55°	17657.7	14909.6	5260.4	1518.1	1359.6	1500.1	1530.7	1437.1	1374.1	1402.9	1413.7
57.5°	19919.7	16521.4	4489.6	1408.4	1264.2	1401.1	1510.9	1465.9	1422.7	1539.8	1547.0
60°	21655.7	17474.1	3353.2	1309.3	1193.9	1366.9	1563.2	1575.7	1586.6	1865.7	1903.6
62.5°	22019.6	17157.1	2305.2	1231.8	1161.5	1395.7	1658.7	1660.4	1647.8	1842.3	1865.7
65°	20350.1	15152.7	1676.6	1188.6	1134.5	1447.9	1739.6	1701.8	1619.0	1766.7	1723.4
67.5°	16161.2	11415.9	1395.7	1156.2	1095.0	1444.3	1826.2	1739.6	1602.9	1730.6	1660.4
70°	10490.2	6902.8	1242.6	1129.2	1048.2	1375.9	1876.5	1736.0	1556.0	1610.1	1527.1
72.5°	5118.1	3086.7	1140.0	1089.6	999.5	1280.4	1874.8	1703.7	1507.3	1503.7	1458.7
75°	2002.6	1413.7	1046.2	1030.1	916.6	1172.4	1824.3	1656.8	1449.8	1392.1	1375.9
77.5°	1172.4	1008.5	927.5	941.9	817.6	1064.3	1750.5	1575.7	1370.4	1302.1	1284.1
80°	853.7	754.6	790.6	814.0	698.7	956.2	1651.5	1476.7	1282.2	1316.5	1291.2
82.5°	547.5	486.2	641.2	664.6	581.7	846.4	1543.4	1372.3	1157.9	1051.7	1026.5
85°	279.1	308.0	477.3	506.1	448.4	695.1	1411.8	1233.6	1017.5	875.2	889.6
87.5°	156.7	210.7	304.4	340.4	317.0	534.9	1145.4	1017.5	830.3	675.3	594.3
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)