

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: P318193

Luminaire Tested: **GAN-SA9A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30055 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

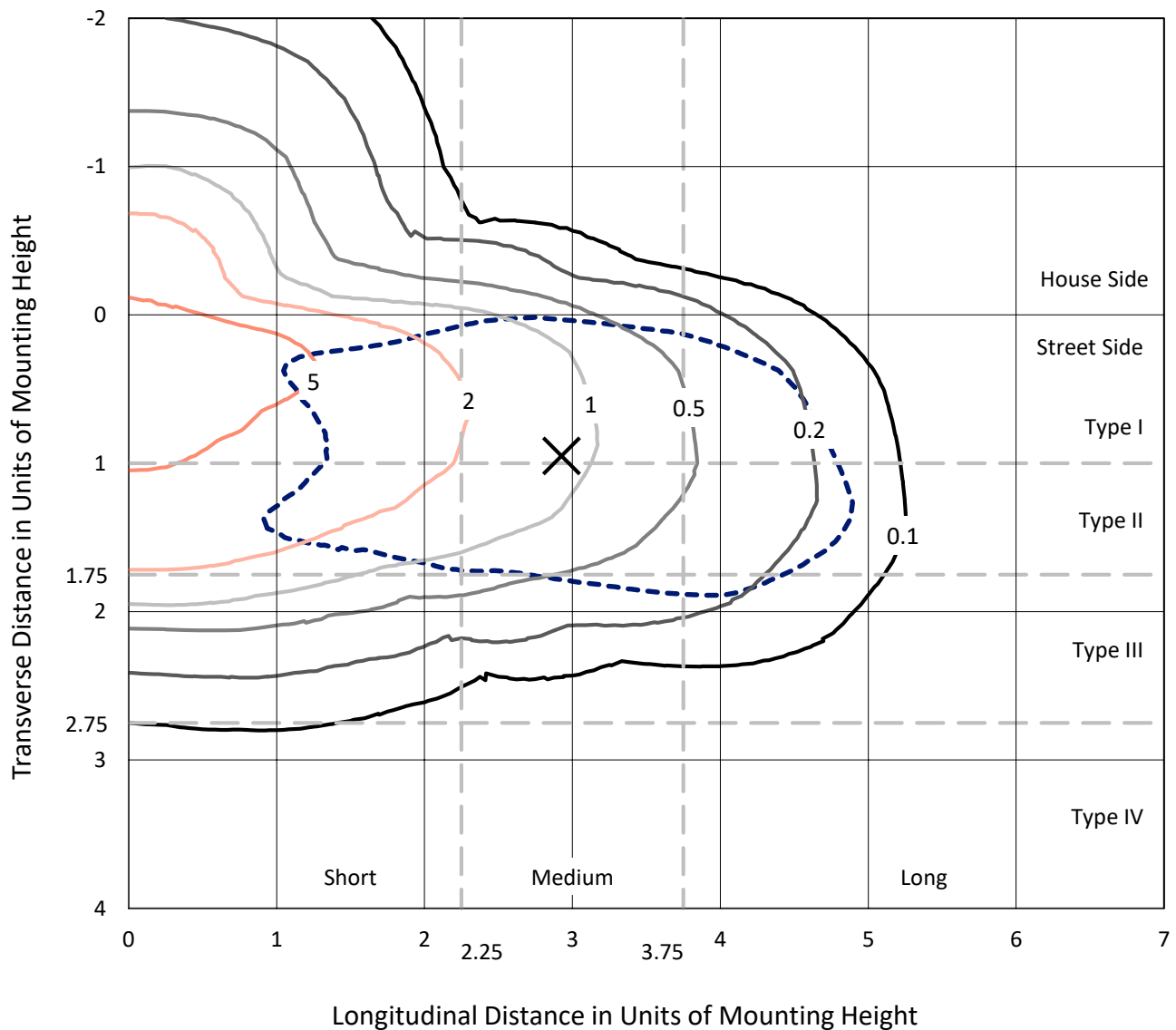
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

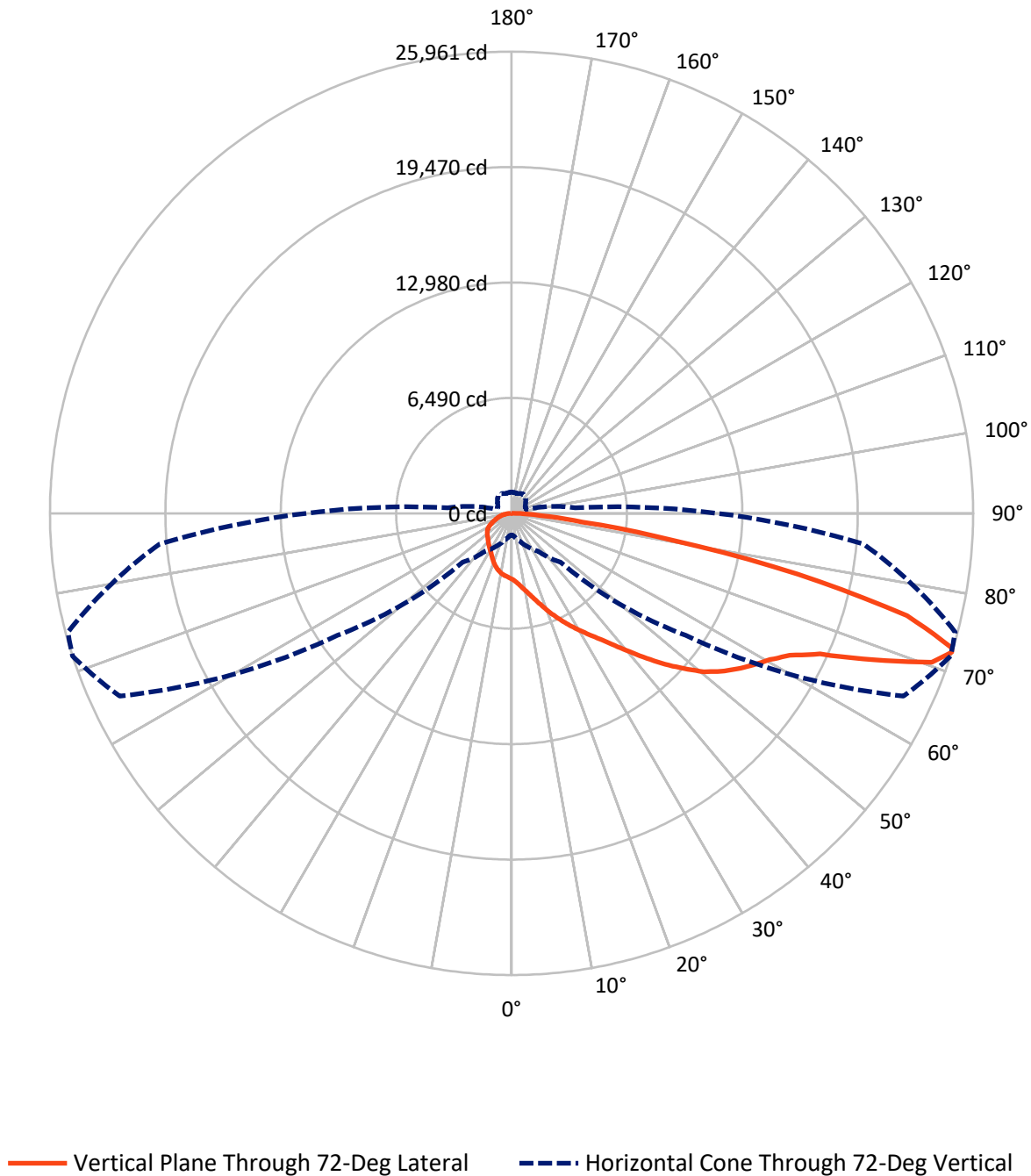
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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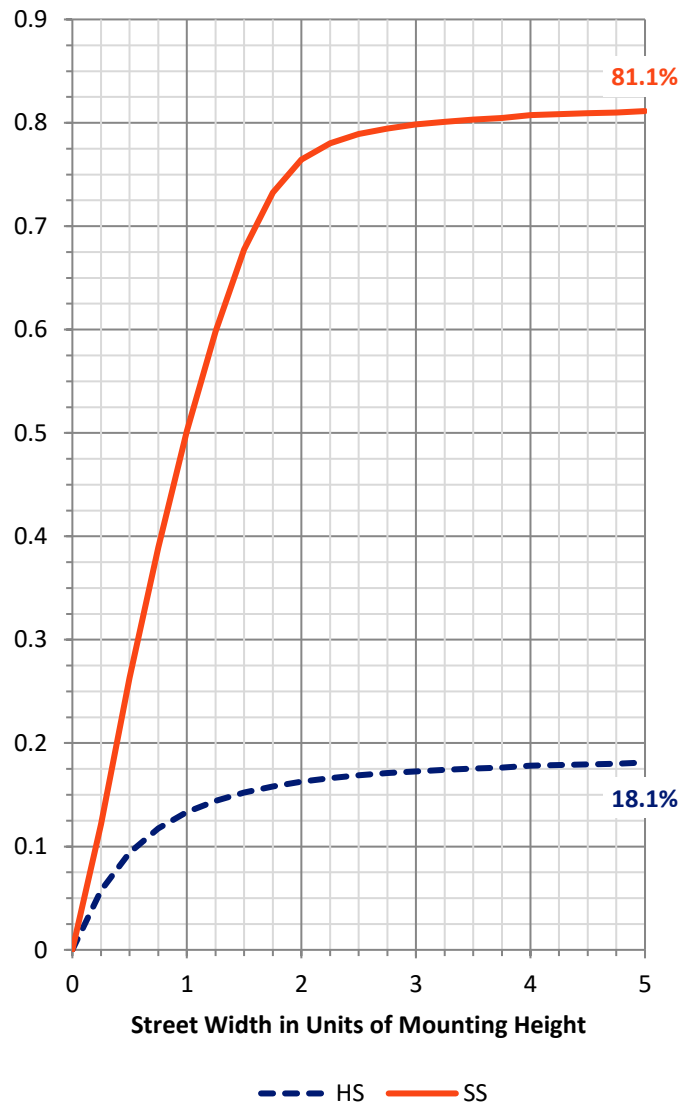
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5575.4	0.0	5575.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24479.6	0.0	24479.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	30055.0	0.0	30055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	1.2
10°-20°	1197.3	4.0
20°-30°	2098.0	7.0
30°-40°	3110.7	10.4
40°-50°	4549.7	15.1
50°-60°	6260.3	20.8
60°-70°	6969.6	23.2
70°-80°	4722.6	15.7
80°-90°	776.2	2.6
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°	30055.0	100.0
0°-180°	30055.0	100.0

Coefficient of Utilization



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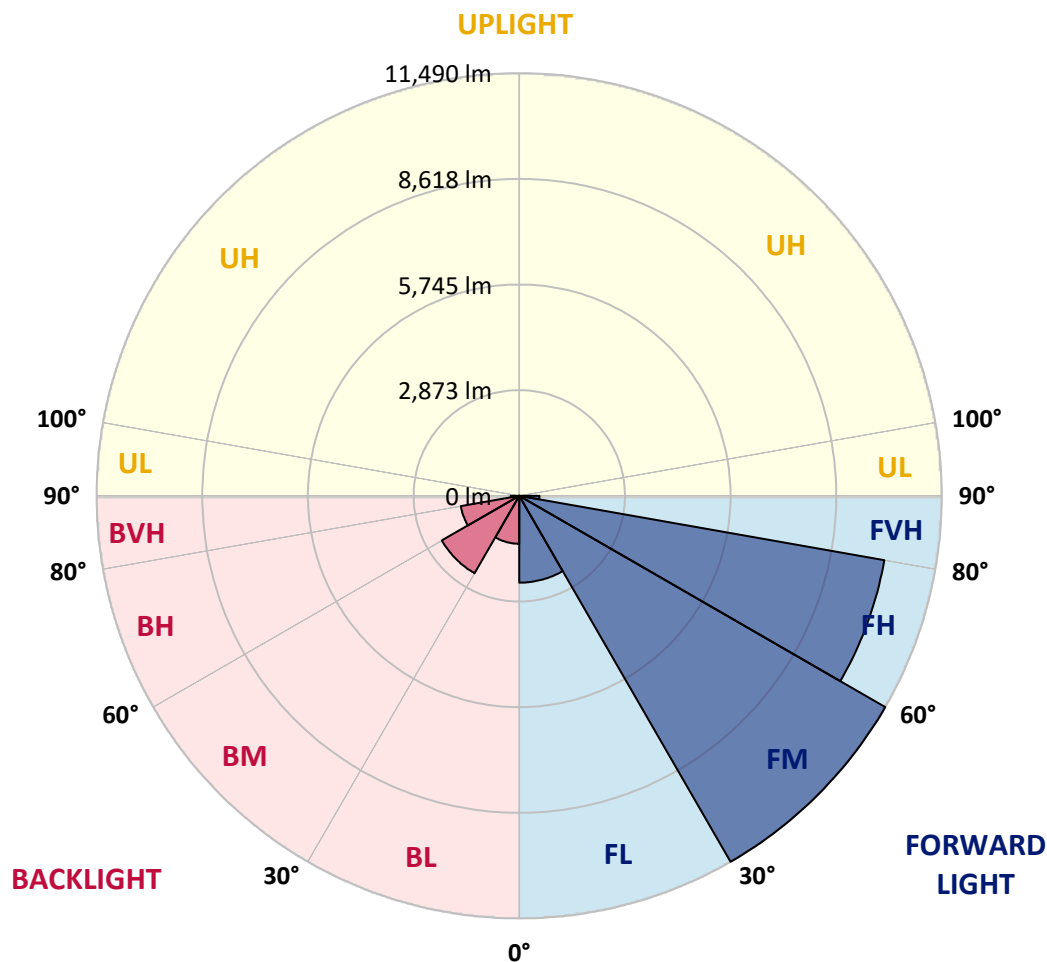
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2362.5	7.9			
FM	(30°-60°)	11490.4	38.2			
FH	(60°-80°)	10079.2	33.5			G4/12000
FVH	(80°-90°)	547.5	1.8			G4/750
BL	(0°-30°)	1303.3	4.3	B3/2500		
BM	(30°-60°)	2430.4	8.1	B2/2500		
BH	(60°-80°)	1613.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	228.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5
2.5°	4084.6	4078.4	4056.6	4056.6	4015.3	3980.1	3913.8	3869.3	3816.6	3797.9	3735.8
5°	4479.9	4482.0	4455.1	4436.4	4375.4	4300.9	4188.1	4085.6	3983.2	3941.8	3814.5
7.5°	4812.1	4808.0	4800.7	4785.2	4728.3	4651.7	4499.6	4347.4	4196.4	4134.3	3914.9
10°	5025.3	5034.6	5040.8	5048.0	5024.2	4969.4	4825.5	4640.3	4442.6	4357.8	4034.9
12.5°	5132.9	5149.5	5178.4	5228.1	5267.4	5261.2	5156.7	4960.1	4725.2	4618.6	4185.0
15°	5196.0	5217.8	5263.3	5352.3	5463.0	5526.1	5498.2	5320.2	5058.4	4927.0	4368.1
17.5°	5235.3	5252.9	5323.3	5442.3	5606.9	5774.5	5848.0	5699.0	5435.1	5285.0	4578.2
20°	5262.3	5275.7	5363.7	5503.4	5716.6	5983.6	6188.5	6151.2	5850.1	5655.5	4797.6
22.5°	5322.3	5333.7	5417.5	5558.2	5794.2	6138.8	6516.5	6572.4	6287.8	6067.4	5032.5
25°	5489.9	5489.9	5560.3	5658.6	5880.1	6273.3	6793.8	7041.2	6734.9	6478.2	5249.8
27.5°	5809.7	5806.6	5832.5	5866.6	6034.3	6409.9	7041.2	7455.1	7198.5	6918.0	5460.9
30°	6188.5	6209.2	6212.3	6195.7	6274.3	6580.7	7269.9	7891.8	7665.2	7363.0	5677.2
32.5°	6675.9	6689.3	6673.8	6619.0	6607.6	6822.8	7494.4	8349.2	8170.2	7827.7	5874.9
35°	7294.7	7268.8	7220.2	7108.4	7001.9	7146.7	7751.1	8806.6	8737.3	8389.6	6147.1
37.5°	7958.1	7959.1	7899.1	7645.5	7498.6	7560.7	8105.0	9325.1	9423.4	9058.1	6495.8
40°	8490.0	8517.9	8555.2	8222.0	8031.5	8117.4	8555.2	9926.4	10234.7	9850.8	6950.1
42.5°	8861.5	8893.6	8999.1	8790.1	8592.4	8751.8	9085.0	10568.0	11145.4	10765.6	7482.0
45°	9254.7	9272.3	9346.8	9256.8	9130.6	9489.7	9682.1	11232.4	12108.9	11740.5	8077.1
47.5°	9668.7	9687.3	9763.9	9703.9	9637.6	10178.9	10305.1	11858.4	13032.0	12811.5	8712.5
50°	10179.9	10192.3	10264.8	10156.1	10176.8	10698.4	10861.9	12432.8	13999.6	13774.0	9349.9
52.5°	10877.4	10880.5	10980.9	10882.6	10785.3	11079.2	11341.0	12974.0	14758.1	14651.5	9987.4
55°	11423.8	11456.9	11786.0	11765.3	11709.4	11424.8	11741.5	13489.4	15434.9	15485.6	10664.2
57.5°	11075.1	11204.4	11870.9	12340.7	12798.1	12284.8	12282.7	14069.9	16064.1	16304.2	11408.3
60°	9699.7	9875.7	10857.7	11899.8	13331.0	13781.2	13406.6	14778.8	16699.5	17115.5	12340.7
62.5°	6927.3	7217.1	8547.9	10212.0	12600.4	14772.6	15693.6	15903.7	17563.6	18055.2	13552.5
65°	3502.0	3721.4	4836.9	6841.4	10067.1	14124.8	18179.4	18366.7	19065.2	19501.9	15418.4
67.5°	2127.7	2210.5	2754.8	3805.2	6171.9	11002.6	18990.7	22472.0	21971.1	22202.9	18079.0
70°	1567.8	1628.9	1968.3	2527.1	3549.6	6456.5	16500.8	25401.6	25072.5	25046.7	20045.2
72°	1221.1	1265.6	1565.7	2041.8	2595.4	3873.5	11959.9	24320.2	25960.5	25830.1	19865.1
72.5°	1158.0	1197.3	1470.5	1921.7	2452.6	3511.3	10753.2	23590.6	25896.3	25837.3	19632.3
75°	911.7	939.7	1088.7	1486.1	1919.7	1992.1	5892.5	18281.8	22972.8	23928.0	17657.8
77.5°	754.4	758.6	837.2	1081.4	1496.4	1408.4	2894.5	12684.3	16450.1	17500.5	12508.3
80°	614.7	619.9	657.1	758.6	1132.1	1042.1	1374.3	7293.7	9210.2	9221.6	5948.4
82.5°	489.5	490.5	531.9	554.7	813.4	745.1	787.5	3424.3	4024.6	3871.4	2138.0
85°	344.6	337.4	519.5	455.3	531.9	478.1	434.6	1355.7	1664.1	1591.6	669.6
87.5°	114.9	119.0	230.8	294.9	310.5	271.1	193.5	519.5	628.2	623.0	212.1
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°	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5	3697.5
2.5°	3716.2	3683.1	3634.4	3580.6	3538.2	3494.7	3462.6	3446.1	3427.5	3411.9	3430.6
5°	3755.5	3693.4	3589.9	3488.5	3414.0	3347.8	3300.2	3275.3	3252.6	3237.0	3239.1
7.5°	3819.7	3719.3	3545.4	3397.4	3294.0	3222.5	3173.9	3157.4	3142.9	3138.7	3143.9
10°	3888.0	3740.0	3486.4	3289.8	3171.8	3112.9	3091.1	3102.5	3112.9	3122.2	3132.5
12.5°	3965.6	3758.6	3400.5	3163.6	3063.2	3040.4	3062.1	3111.8	3148.0	3169.8	3183.2
15°	4067.0	3775.2	3301.2	3037.3	2970.0	2995.9	3069.4	3155.3	3218.4	3258.8	3265.0
17.5°	4160.1	3774.1	3173.9	2910.0	2894.5	2970.0	3080.8	3201.9	3286.7	3343.6	3355.0
20°	4256.4	3746.2	3025.9	2785.8	2817.9	2942.1	3085.9	3231.9	3334.3	3400.5	3416.1
22.5°	4346.4	3697.5	2863.5	2673.0	2753.8	2904.8	3066.3	3214.3	3316.7	3370.5	3387.1
25°	4407.5	3612.7	2698.9	2577.8	2696.8	2859.3	3002.1	3121.1	3197.7	3224.6	3228.8
27.5°	4438.5	3502.0	2543.7	2495.0	2637.9	2784.8	2883.1	2942.1	2963.8	2961.8	2957.6
30°	4442.6	3356.0	2410.2	2427.8	2569.6	2675.1	2721.7	2710.3	2682.4	2634.7	2638.9
32.5°	4429.2	3191.5	2298.4	2363.6	2482.6	2541.6	2543.7	2488.8	2414.3	2338.8	2318.1
35°	4433.3	3030.1	2200.1	2291.2	2377.1	2402.9	2379.1	2298.4	2197.0	2099.7	2079.0
37.5°	4478.9	2889.3	2115.3	2207.4	2260.1	2266.3	2232.2	2147.3	2072.8	1977.6	1969.3
40°	4587.5	2788.9	2034.5	2113.2	2143.2	2146.3	2097.7	2037.6	2043.8	1993.1	1992.1
42.5°	4783.1	2745.5	1963.1	2014.9	2033.5	2039.7	2002.5	1964.2	2018.0	1984.9	1973.5
45°	5035.6	2755.8	1903.1	1918.6	1952.8	1981.8	1959.0	1912.4	1933.1	1789.3	1741.7
47.5°	5327.5	2822.1	1855.5	1835.8	1894.8	1949.7	1914.5	1844.1	1770.6	1627.8	1600.9
50°	5669.0	2924.5	1812.0	1754.1	1831.7	1906.2	1871.0	1770.6	1659.9	1590.6	1581.3
52.5°	6024.9	3049.7	1768.6	1664.1	1752.0	1873.1	1855.5	1754.1	1617.5	1549.2	1536.8
55°	6428.5	3176.0	1713.7	1559.5	1666.1	1857.6	1848.3	1694.1	1585.4	1547.1	1537.8
57.5°	6930.4	3319.8	1641.3	1450.9	1585.4	1801.7	1772.7	1657.8	1552.3	1523.3	1520.2
60°	7584.5	3532.0	1536.8	1335.0	1487.1	1715.8	1709.6	1605.1	1499.5	1478.8	1474.7
62.5°	8565.5	3882.8	1392.9	1219.1	1377.4	1569.9	1626.8	1533.7	1443.6	1442.6	1444.7
65°	10086.8	4410.6	1236.7	1117.6	1266.7	1446.7	1530.6	1460.2	1386.7	1407.4	1410.5
67.5°	11850.2	4848.3	1083.5	1018.3	1153.9	1329.8	1443.6	1386.7	1311.2	1365.0	1366.0
70°	12436.9	4457.1	949.0	920.0	1036.9	1217.0	1349.5	1306.0	1229.4	1283.2	1278.1
72°	11573.9	3598.2	862.0	845.5	949.0	1123.9	1265.6	1230.4	1154.9	1191.1	1177.7
72.5°	11301.7	3430.6	840.3	826.9	925.2	1100.1	1243.9	1211.8	1136.3	1167.3	1154.9
75°	10081.6	2979.4	722.3	725.4	807.2	984.2	1121.8	1111.4	1033.8	1036.9	1032.8
77.5°	7312.3	2184.6	608.5	629.2	687.1	865.1	998.6	992.4	907.6	892.0	888.9
80°	3393.3	1114.5	495.7	505.0	565.0	723.4	851.7	843.4	775.1	755.4	744.1
82.5°	1162.1	529.8	372.5	378.8	437.7	582.6	738.9	733.7	676.8	638.5	614.7
85°	415.0	263.9	260.8	254.6	312.5	458.4	643.7	615.7	531.9	453.3	451.2
87.5°	134.5	112.8	134.5	133.5	182.1	310.5	467.8	398.4	386.0	320.8	314.6
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)