

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: P318009

Luminaire Tested: **GAN-SA5C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318009
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-SA5C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29012 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

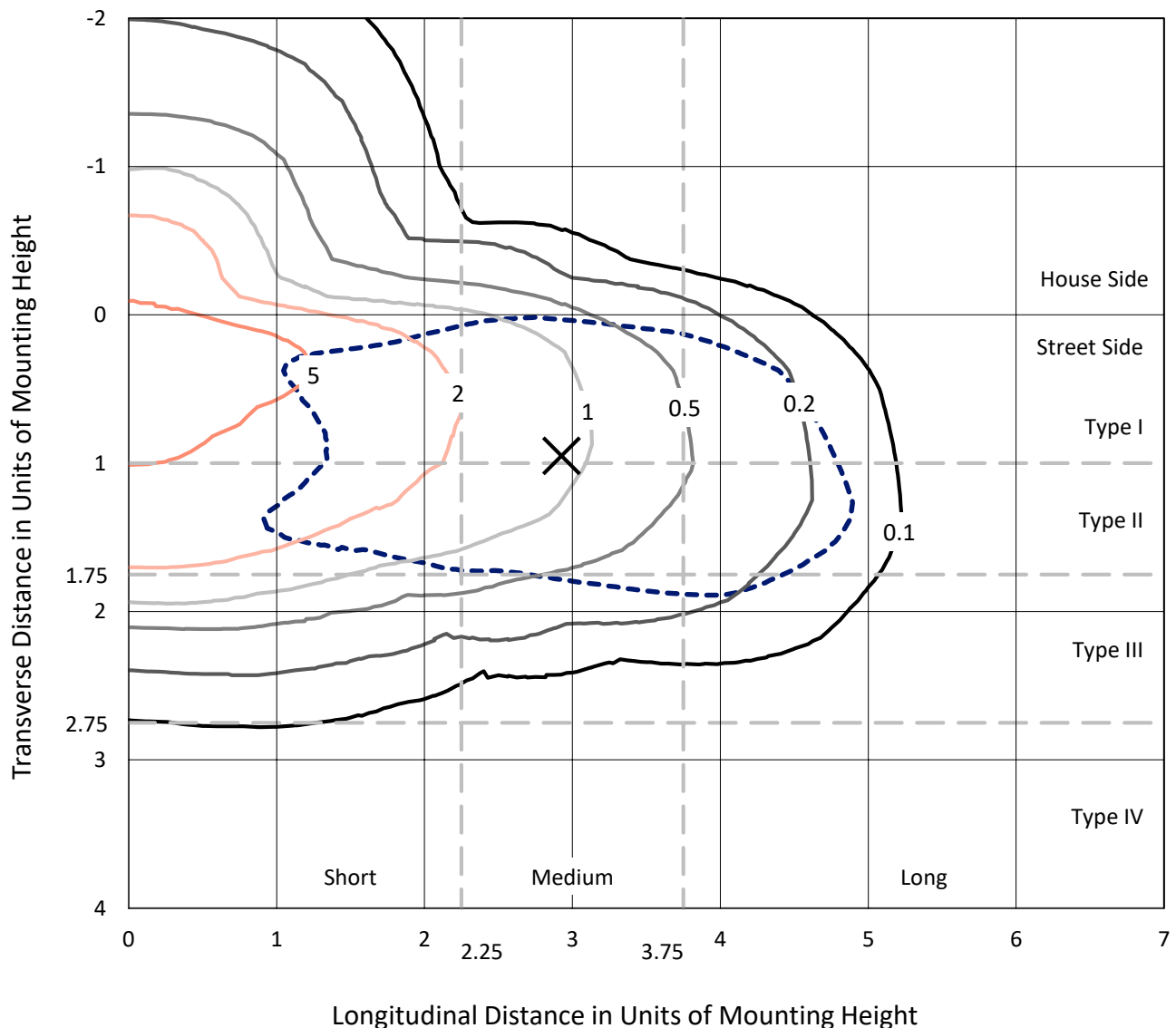
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

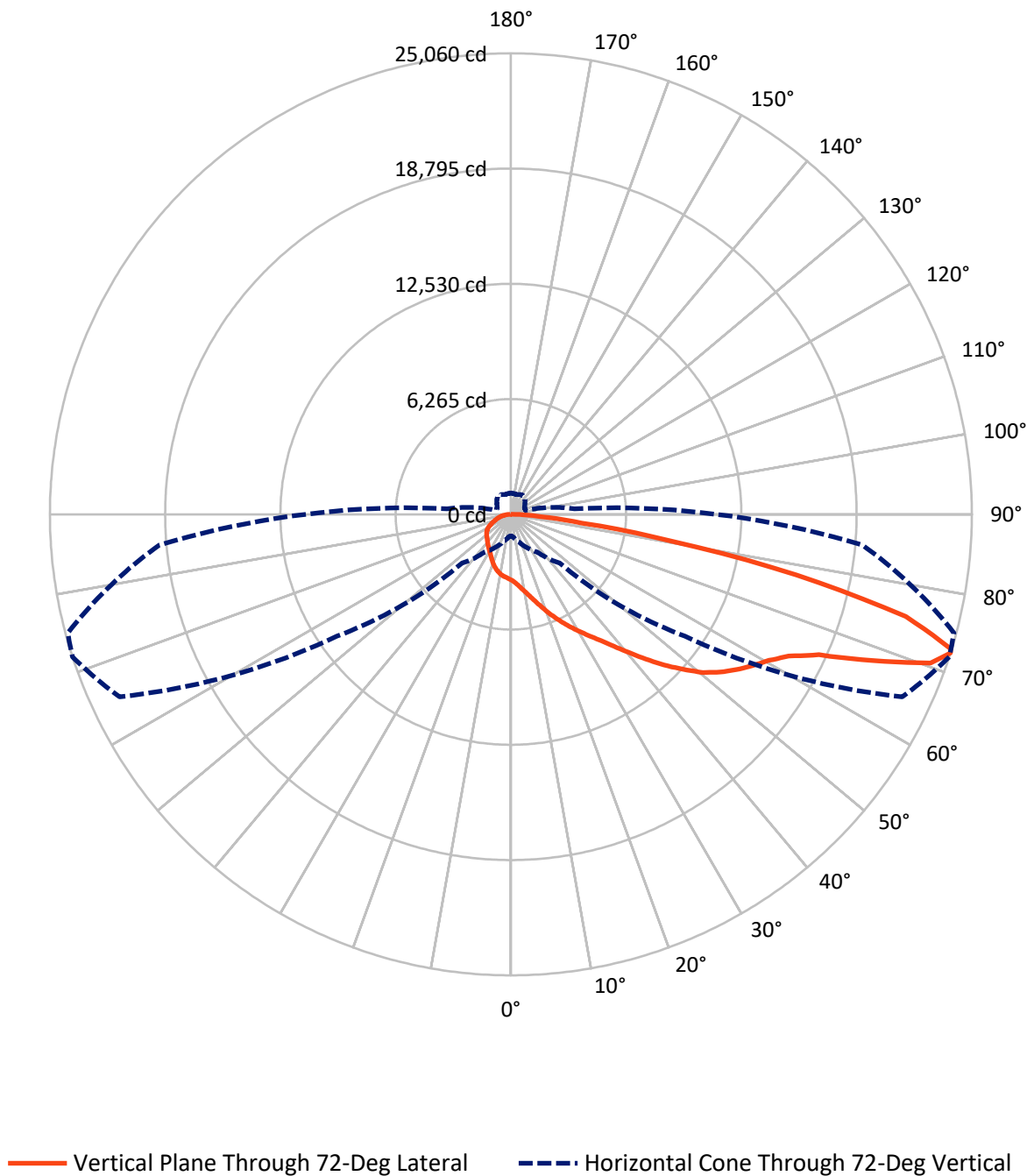
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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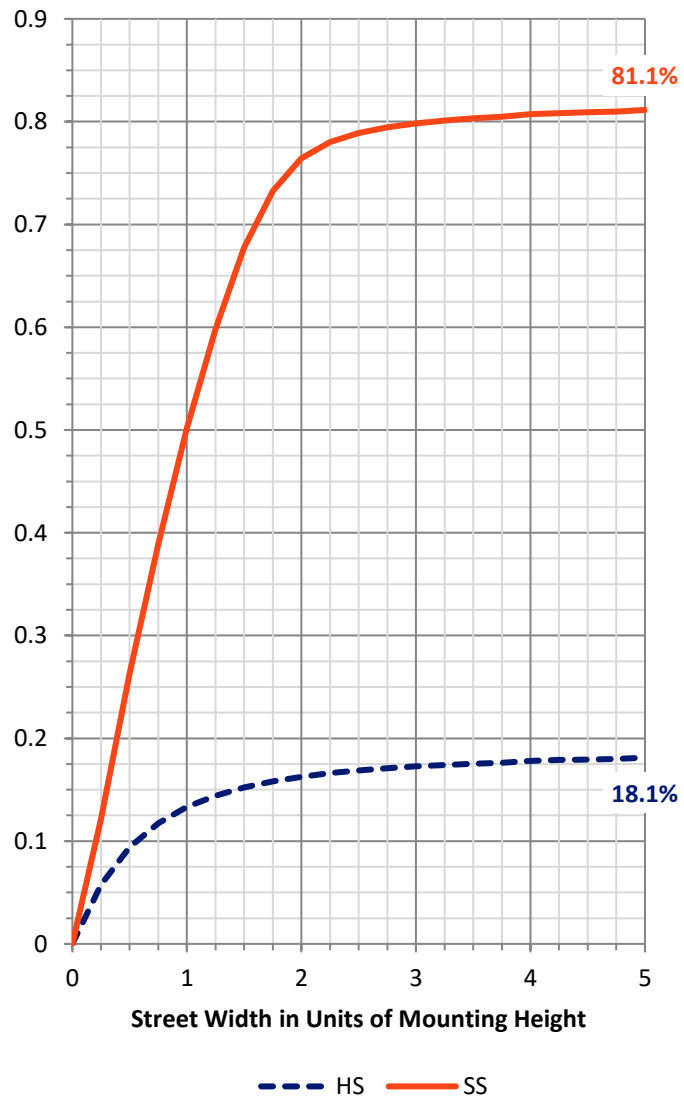
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5381.9	0.0	5381.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23630.1	0.0	23630.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	29012.0	0.0	29012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.6	1.2
10°-20°	1155.7	4.0
20°-30°	2025.2	7.0
30°-40°	3002.8	10.4
40°-50°	4391.8	15.1
50°-60°	6043.1	20.8
60°-70°	6727.7	23.2
70°-80°	4558.7	15.7
80°-90°	749.3	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°	29012.0	100.0
0°-180°	29012.0	100.0

Coefficient of Utilization



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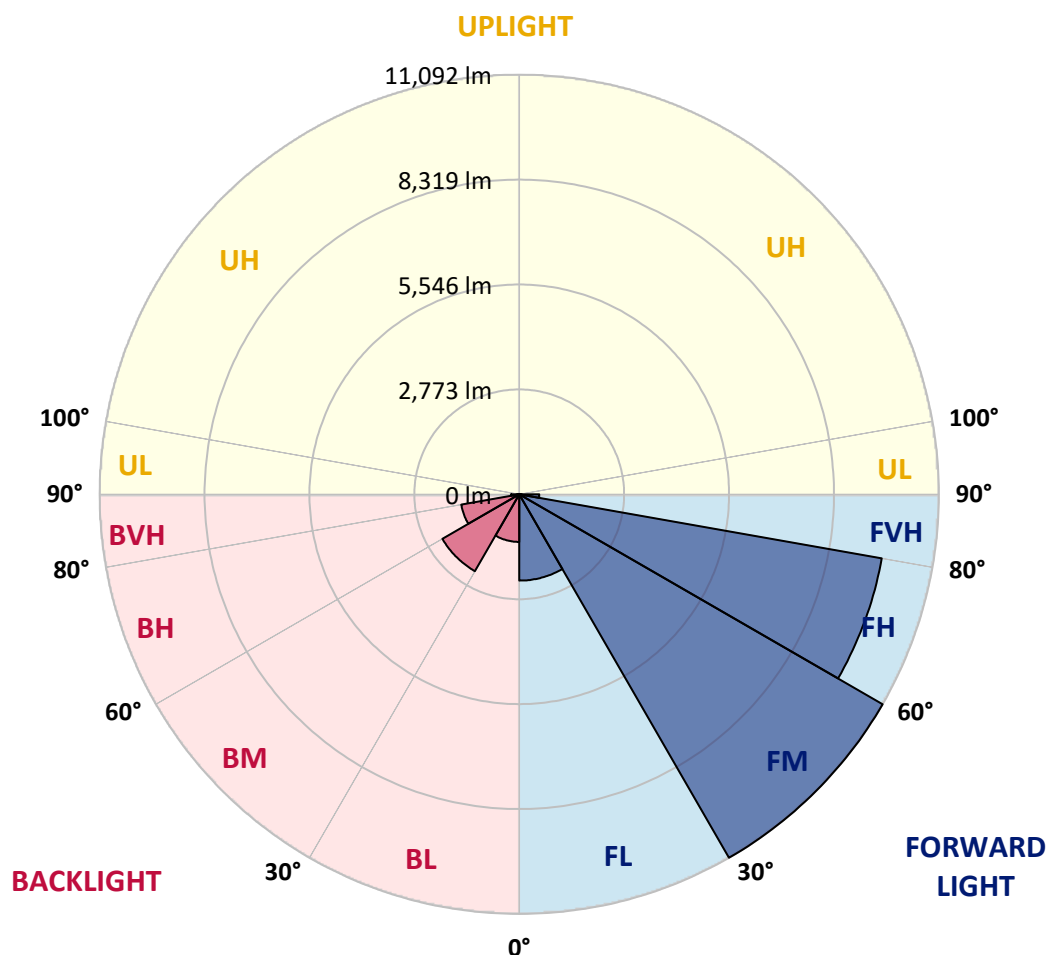
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2280.5	7.9			
FM	(30°-60°)	11091.6	38.2			
FH	(60°-80°)	9729.4	33.5			G4/12000
FVH	(80°-90°)	528.5	1.8			G4/750
BL	(0°-30°)	1258.1	4.3	B3/2500		
BM	(30°-60°)	2346.0	8.1	B2/2500		
BH	(60°-80°)	1557.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	220.7	0.8			G2/225
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°	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2
2.5°	3942.8	3936.8	3915.9	3915.9	3875.9	3841.9	3778.0	3735.1	3684.1	3666.1	3606.2
5°	4324.4	4326.4	4300.5	4282.5	4223.5	4151.6	4042.7	3943.8	3844.9	3805.0	3682.1
7.5°	4645.1	4641.1	4634.1	4619.1	4564.2	4490.3	4343.4	4196.6	4050.7	3990.8	3779.0
10°	4850.9	4859.9	4865.9	4872.9	4849.9	4796.9	4658.1	4479.3	4288.5	4206.6	3894.9
12.5°	4954.8	4970.8	4998.7	5046.7	5084.6	5078.6	4977.7	4787.9	4561.2	4458.3	4039.7
15°	5015.7	5036.7	5080.6	5166.5	5273.4	5334.4	5307.4	5135.6	4882.8	4756.0	4216.5
17.5°	5053.7	5070.6	5138.6	5253.5	5412.3	5574.1	5645.0	5501.2	5246.5	5101.6	4419.3
20°	5079.6	5092.6	5177.5	5312.4	5518.2	5775.9	5973.7	5937.7	5647.0	5459.2	4631.1
22.5°	5137.6	5148.6	5229.5	5365.3	5593.1	5925.7	6290.4	6344.3	6069.6	5856.8	4857.9
25°	5299.4	5299.4	5367.3	5462.2	5676.0	6055.6	6558.1	6796.8	6501.1	6253.4	5067.7
27.5°	5608.1	5605.1	5630.1	5663.0	5824.9	6187.5	6796.8	7196.4	6948.7	6678.0	5271.4
30°	5973.7	5993.7	5996.7	5980.7	6056.6	6352.3	7017.6	7618.0	7399.2	7107.5	5480.2
32.5°	6444.2	6457.2	6442.2	6389.3	6378.3	6586.0	7234.4	8059.5	7886.7	7556.0	5671.0
35°	7041.6	7016.6	6969.6	6861.8	6758.9	6898.7	7482.1	8501.0	8434.1	8098.5	5933.7
37.5°	7681.9	7682.9	7625.0	7380.2	7238.4	7298.3	7823.7	9001.5	9096.4	8743.8	6270.4
40°	8195.4	8222.3	8258.3	7936.6	7752.8	7835.7	8258.3	9581.9	9879.6	9509.0	6708.9
42.5°	8554.0	8584.9	8686.8	8485.0	8294.2	8448.1	8769.7	10201.2	10758.6	10392.0	7222.4
45°	8933.6	8950.6	9022.5	8935.6	8813.7	9160.3	9346.1	10842.6	11688.7	11333.0	7796.8
47.5°	9333.1	9351.1	9425.1	9367.1	9303.2	9825.6	9947.5	11446.9	12579.7	12366.9	8410.1
50°	9826.6	9838.6	9908.5	9803.7	9823.6	10327.1	10484.9	12001.3	13513.7	13296.0	9025.5
52.5°	10499.9	10502.9	10599.8	10504.9	10411.0	10694.7	10947.4	12523.8	14246.0	14143.1	9640.8
55°	11027.4	11059.3	11377.0	11357.0	11303.1	11028.4	11334.0	13021.3	14899.3	14948.2	10294.1
57.5°	10690.7	10815.6	11458.9	11912.4	12354.0	11858.5	11856.5	13581.7	15506.6	15738.4	11012.4
60°	9363.1	9532.9	10480.9	11486.9	12868.4	13303.0	12941.3	14265.9	16120.0	16521.6	11912.4
62.5°	6686.9	6966.6	8251.3	9857.6	12163.2	14259.9	15149.0	15351.8	16954.1	17428.6	13082.2
65°	3380.4	3592.2	4669.1	6604.0	9717.7	13634.6	17548.5	17729.3	18403.6	18825.1	14883.3
67.5°	2053.8	2133.7	2659.2	3673.1	5957.7	10620.8	18331.7	21692.1	21208.6	21432.4	17451.6
70°	1513.4	1572.3	1900.0	2439.4	3426.4	6232.4	15928.2	24520.1	24202.5	24177.5	19349.6
72°	1178.8	1221.7	1511.4	1970.9	2505.4	3739.1	11544.8	23476.2	25059.6	24933.7	19175.8
72.5°	1117.8	1155.8	1419.5	1855.0	2367.5	3389.4	10380.0	22772.0	24997.6	24940.7	18951.0
75°	880.1	907.0	1050.9	1434.5	1853.0	1923.0	5688.0	17647.4	22175.6	23097.6	17045.0
77.5°	728.2	732.2	808.1	1043.9	1444.5	1359.6	2794.1	12244.1	15879.2	16893.2	12074.3
80°	593.4	598.4	634.3	732.2	1092.8	1005.9	1326.6	7040.6	8890.6	8901.6	5741.9
82.5°	472.5	473.5	513.5	535.4	785.2	719.2	760.2	3305.5	3884.9	3737.1	2063.8
85°	332.6	325.7	501.5	439.5	513.5	461.5	419.6	1308.6	1606.3	1536.4	646.3
87.5°	110.9	114.9	222.8	284.7	299.7	261.7	186.8	501.5	606.4	601.4	204.8
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°	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2	3569.2
2.5°	3587.2	3555.2	3508.3	3456.4	3415.4	3373.4	3342.5	3326.5	3308.5	3293.5	3311.5
5°	3625.2	3565.2	3465.3	3367.4	3295.5	3231.6	3185.6	3161.7	3139.7	3124.7	3126.7
7.5°	3687.1	3590.2	3422.4	3279.5	3179.6	3110.7	3063.8	3047.8	3033.8	3029.8	3034.8
10°	3753.0	3610.2	3365.4	3175.6	3061.8	3004.8	2983.9	2994.8	3004.8	3013.8	3023.8
12.5°	3828.0	3628.2	3282.5	3053.8	2956.9	2934.9	2955.9	3003.8	3038.8	3059.8	3072.8
15°	3925.9	3644.2	3186.6	2931.9	2867.0	2891.9	2962.9	3045.8	3106.7	3145.7	3151.7
17.5°	4015.8	3643.2	3063.8	2809.0	2794.1	2867.0	2973.9	3090.7	3172.7	3227.6	3238.6
20°	4108.7	3616.2	2920.9	2689.2	2720.1	2840.0	2978.9	3119.7	3218.6	3282.5	3297.5
22.5°	4195.6	3569.2	2764.1	2580.3	2658.2	2804.0	2959.9	3102.7	3201.6	3253.6	3269.5
25°	4254.5	3487.3	2605.3	2488.4	2603.3	2760.1	2897.9	3012.8	3086.7	3112.7	3116.7
27.5°	4284.5	3380.4	2455.4	2408.5	2546.3	2688.2	2783.1	2840.0	2861.0	2859.0	2855.0
30°	4288.5	3239.6	2326.5	2343.5	2480.4	2582.3	2627.2	2616.2	2589.3	2543.3	2547.3
32.5°	4275.5	3080.7	2218.7	2281.6	2396.5	2453.4	2455.4	2402.5	2330.5	2257.6	2237.6
35°	4279.5	2924.9	2123.8	2211.7	2294.6	2319.6	2296.6	2218.7	2120.8	2026.9	2006.9
37.5°	4323.4	2789.1	2041.8	2130.8	2181.7	2187.7	2154.7	2072.8	2000.9	1909.0	1901.0
40°	4428.3	2692.2	1963.9	2039.8	2068.8	2071.8	2024.9	1966.9	1972.9	1924.0	1923.0
42.5°	4617.1	2650.2	1895.0	1944.9	1962.9	1968.9	1933.0	1896.0	1947.9	1916.0	1905.0
45°	4860.9	2660.2	1837.1	1852.0	1885.0	1913.0	1891.0	1846.1	1866.0	1727.2	1681.2
47.5°	5142.6	2724.1	1791.1	1772.1	1829.1	1882.0	1848.0	1780.1	1709.2	1571.3	1545.4
50°	5472.2	2823.0	1749.2	1693.2	1768.1	1840.1	1806.1	1709.2	1602.3	1535.4	1526.4
52.5°	5815.9	2943.9	1707.2	1606.3	1691.2	1808.1	1791.1	1693.2	1561.4	1495.4	1483.4
55°	6205.5	3065.8	1654.3	1505.4	1608.3	1793.1	1784.1	1635.3	1530.4	1493.4	1484.4
57.5°	6689.9	3204.6	1584.3	1400.5	1530.4	1739.2	1711.2	1600.3	1498.4	1470.4	1467.5
60°	7321.3	3409.4	1483.4	1288.6	1435.5	1656.3	1650.3	1549.4	1447.5	1427.5	1423.5
62.5°	8268.3	3748.0	1344.6	1176.8	1329.6	1515.4	1570.3	1480.4	1393.5	1392.5	1394.5
65°	9736.7	4257.5	1193.7	1078.9	1222.7	1396.5	1477.4	1409.5	1338.6	1358.6	1361.6
67.5°	11438.9	4680.1	1045.9	983.0	1113.8	1283.6	1393.5	1338.6	1265.7	1317.6	1318.6
70°	12005.3	4302.5	916.0	888.1	1000.9	1174.8	1302.6	1260.7	1186.7	1238.7	1233.7
72°	11172.2	3473.3	832.1	816.1	916.0	1084.9	1221.7	1187.7	1114.8	1149.8	1136.8
72.5°	10909.5	3311.5	811.1	798.2	893.1	1061.9	1200.7	1169.8	1096.8	1126.8	1114.8
75°	9731.7	2876.0	697.3	700.3	779.2	950.0	1082.9	1072.9	997.9	1000.9	996.9
77.5°	7058.6	2108.8	587.4	607.4	663.3	835.1	964.0	958.0	876.1	861.1	858.1
80°	3275.5	1075.9	478.5	487.5	545.4	698.3	822.1	814.1	748.2	729.2	718.2
82.5°	1121.8	511.5	359.6	365.6	422.6	562.4	713.2	708.3	653.3	616.3	593.4
85°	400.6	254.7	251.7	245.7	301.7	442.5	621.3	594.4	513.5	437.5	435.5
87.5°	129.9	108.9	129.9	128.9	175.8	299.7	451.5	384.6	372.6	309.7	303.7
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)