

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: P319824

Luminaire Tested: **GAN-SA0D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56461 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

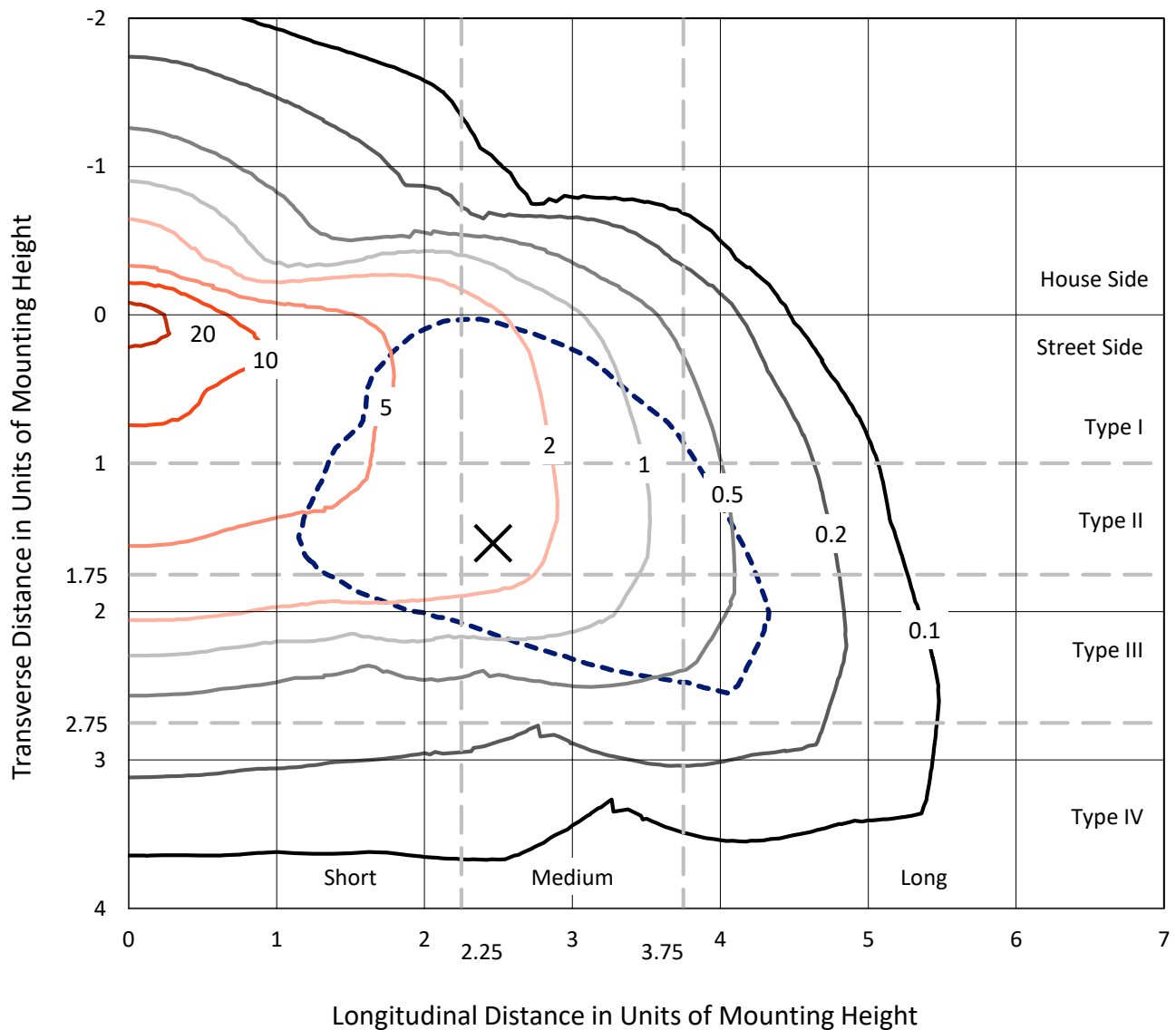


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Iso-Footcandle Lines of Horizontal Illumination

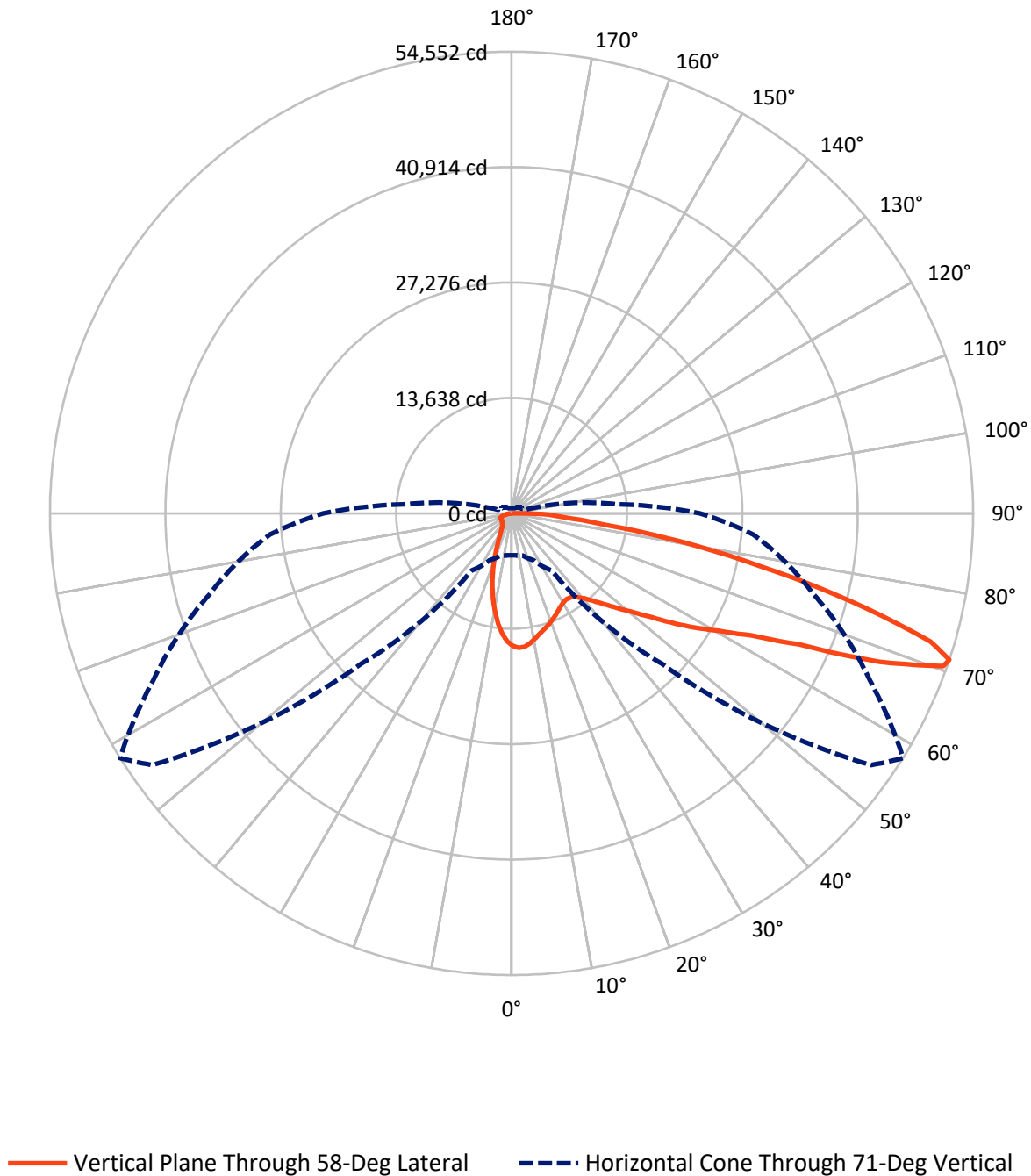
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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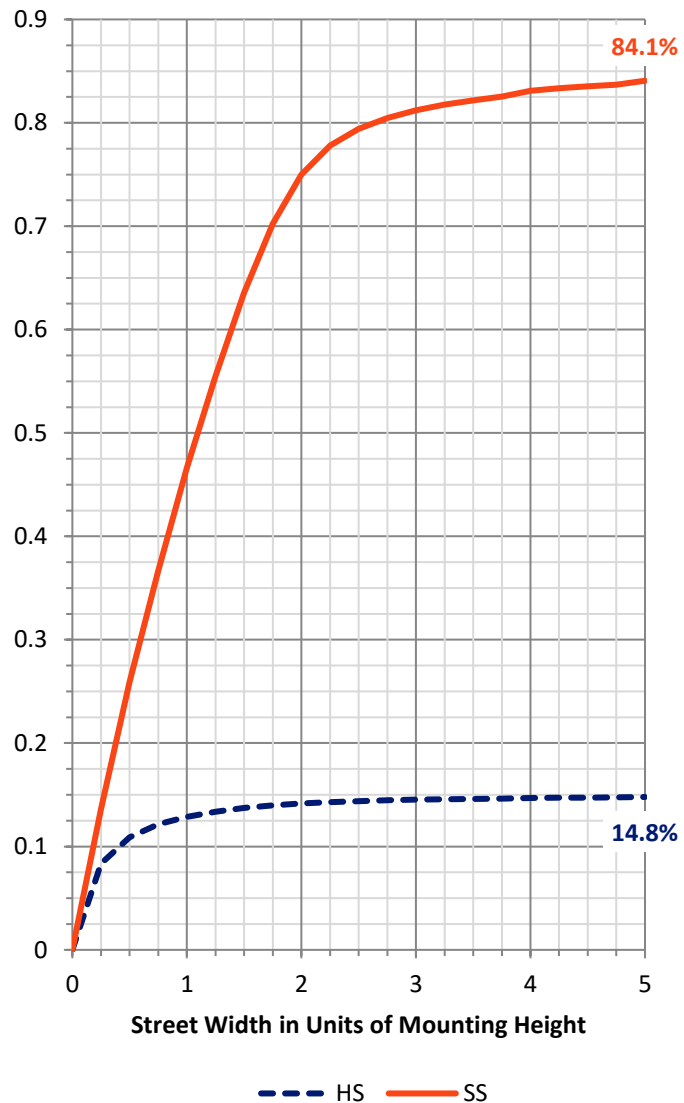
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8441.3	0.0	8441.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	48019.7	0.0	48019.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	56461.0	0.0	56461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.6	2.4
10°-20°	3000.9	5.3
20°-30°	3813.9	6.8
30°-40°	4858.1	8.6
40°-50°	6889.0	12.2
50°-60°	10661.0	18.9
60°-70°	14513.6	25.7
70°-80°	9682.2	17.1
80°-90°	1692.8	3.0
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°	56461.0	100.0
0°-180°	56461.0	100.0

Coefficient of Utilization



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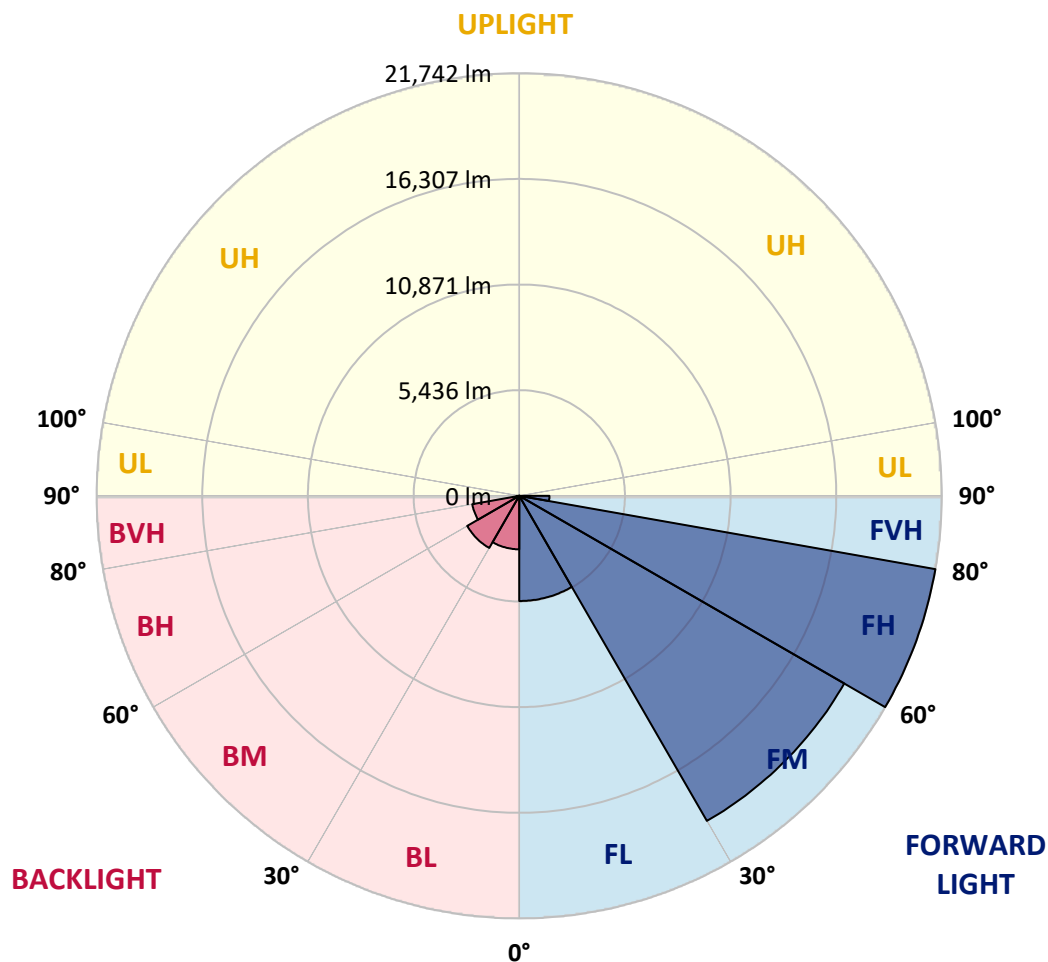
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5412.7	9.6			
FM	(30°-60°)	19312.4	34.2			
FH	(60°-80°)	21742.4	38.5			G5
FVH	(80°-90°)	1552.1	2.7			G5
BL	(0°-30°)	2751.6	4.9	B4/5000		
BM	(30°-60°)	3095.7	5.5	B3/5000		
BH	(60°-80°)	2453.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	140.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5
2.5°	16058.5	16036.8	16044.7	16029.0	15991.6	15954.2	15899.1	15909.0	15832.3	15718.2	15576.6
5°	15755.6	15747.7	15806.7	15840.1	15867.7	15846.0	15830.3	15850.0	15737.9	15580.5	15334.7
7.5°	15120.3	15033.8	15108.5	15220.6	15326.8	15407.5	15513.7	15527.4	15456.6	15291.4	14968.9
10°	14217.6	14135.0	14245.1	14420.2	14632.6	14825.3	15039.7	15079.0	15092.8	14943.3	14551.9
12.5°	13281.4	13218.5	13328.6	13574.5	13926.5	14223.5	14565.7	14624.7	14746.6	14646.3	14166.4
15°	12443.6	12420.0	12553.7	12795.6	13200.8	13655.1	14148.7	14256.9	14463.4	14430.0	13865.5
17.5°	11719.8	11713.9	11816.2	12069.9	12518.3	13092.6	13733.8	13916.7	14223.5	14262.8	13617.7
20°	11180.9	11169.1	11239.9	11426.8	11889.0	12540.0	13285.3	13537.1	13979.6	14117.3	13362.0
22.5°	10891.8	10889.9	10891.8	10980.3	11357.9	11963.7	12848.7	13155.5	13741.6	14001.2	13078.8
25°	10842.7	10836.8	10793.5	10783.7	10998.0	11481.8	12416.0	12754.3	13515.5	13920.6	12809.4
27.5°	10970.5	10978.4	10921.3	10828.9	10872.2	11165.2	12040.4	12402.3	13334.5	13904.9	12622.6
30°	11236.0	11232.1	11182.9	11086.5	11002.0	11047.2	11772.9	12134.8	13212.6	13973.7	12494.7
32.5°	11529.0	11550.7	11540.8	11487.7	11361.9	11180.9	11692.3	12046.3	13177.2	14138.9	12439.6
35°	11881.1	11904.7	11975.5	12016.8	11869.3	11578.2	11865.4	12172.2	13279.4	14449.7	12528.2
37.5°	12215.4	12276.4	12475.0	12650.1	12524.2	12199.7	12325.6	12543.9	13596.1	14939.4	12766.1
40°	12600.9	12654.0	12978.5	13350.2	13330.6	12994.3	13067.0	13212.6	14154.6	15641.5	13196.8
42.5°	12980.5	13086.7	13556.8	14083.8	14235.3	13938.3	14054.3	14131.0	14941.3	16571.8	13948.1
45°	13486.0	13600.0	14253.0	14888.2	15242.3	15075.1	15260.0	15289.5	15930.6	17838.4	15039.7
47.5°	14251.0	14380.8	15142.0	15808.7	16349.5	16367.2	16672.1	16660.3	17165.7	19287.8	16414.4
50°	15442.9	15629.7	16253.2	16876.6	17533.5	17899.3	18306.4	18249.4	18646.7	20831.7	17997.7
52.5°	17004.5	17091.0	17553.2	18013.4	18829.6	19649.7	20233.8	20182.7	20326.3	22418.9	19795.3
55°	18623.1	18688.0	18878.8	19130.5	20227.9	21565.3	22800.4	22719.8	22356.0	24067.0	21571.2
57.5°	20078.5	20210.2	20342.0	20446.3	21636.1	23567.5	25426.0	25431.9	24558.7	25845.0	23406.2
60°	20304.7	20420.7	21292.0	22114.1	24045.4	26238.3	28236.5	28177.5	26838.2	27774.3	25451.6
62.5°	17948.5	18210.1	19665.5	21852.5	26366.2	31123.7	31821.9	31749.1	29564.1	30152.1	27833.3
65°	12862.5	13159.5	14915.8	18202.2	25241.2	36506.7	38292.5	37313.0	33281.2	33076.7	30622.2
67.5°	7420.5	7491.3	8252.5	10891.8	19219.0	36787.9	48163.6	46792.7	39053.6	36394.6	31987.1
70°	5487.2	5485.2	5666.2	6702.7	10400.1	30024.3	52858.2	54087.4	45130.8	37486.1	30057.7
71°	4962.1	4968.0	5170.6	6100.8	8236.7	25131.0	51861.0	54551.5	46731.8	36947.2	28661.3
72.5°	4244.2	4263.9	4545.1	5471.5	6928.8	17330.9	47565.7	51766.6	47490.9	35617.7	26476.3
75°	3219.6	3264.8	3654.2	4612.0	6332.9	8789.4	34909.7	41337.0	42188.6	31428.5	19673.3
77.5°	2297.2	2348.3	2788.8	3878.4	6020.2	6624.0	23378.7	30152.1	31047.0	20141.4	8873.9
80°	1451.5	1512.4	1844.8	3085.8	5656.4	6289.6	14691.6	20267.3	16929.7	6445.0	2257.8
82.5°	851.6	898.8	1144.6	2015.9	4619.9	6057.6	8643.8	11234.0	6588.6	1947.1	1026.6
85°	493.7	515.3	713.9	1284.3	3355.3	5717.3	6350.6	6279.8	2859.6	951.9	485.8
87.5°	230.1	255.7	422.8	670.7	1862.5	4143.9	5019.1	4336.7	1777.9	446.5	228.1
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°	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5	15643.5
2.5°	15507.8	15474.3	15334.7	15210.8	15081.0	14911.8	14725.0	14701.4	14587.3	14609.0	14569.6
5°	15201.0	15116.4	14780.1	14475.2	14115.3	13792.8	13442.7	13281.4	13049.3	13033.6	12974.6
7.5°	14762.4	14605.0	14083.8	13505.6	12927.4	12376.7	11831.9	11474.0	11108.2	10952.8	10939.0
10°	14268.7	14001.2	13234.2	12378.7	11544.8	10740.4	9961.6	9385.3	8866.1	8620.2	8610.4
12.5°	13800.6	13405.3	12353.1	11188.8	10048.1	9005.7	7937.8	7180.6	6529.6	6311.3	6218.8
15°	13403.4	12846.8	11495.6	10006.8	8622.2	7174.7	5959.2	5162.7	4560.9	4352.4	4313.1
17.5°	13017.9	12302.0	10616.5	8813.0	7139.3	5548.2	4330.8	3738.8	3418.2	3333.6	3331.7
20°	12634.4	11741.5	9698.0	7591.6	5705.5	4149.8	3329.7	3064.2	2956.0	2946.2	2930.4
22.5°	12199.7	11147.5	8732.3	6366.3	4452.7	3262.8	2830.1	2723.9	2710.2	2745.6	2745.6
25°	11792.6	10557.5	7752.9	5166.6	3463.4	2722.0	2527.3	2505.6	2543.0	2605.9	2611.8
27.5°	11413.0	9989.1	6797.1	4100.7	2775.1	2397.5	2316.8	2342.4	2409.3	2482.0	2484.0
30°	11100.3	9452.2	5868.8	3231.4	2344.4	2155.5	2141.8	2192.9	2265.7	2322.7	2336.5
32.5°	10858.4	8993.9	4971.9	2598.1	2063.1	1974.6	1986.4	2029.7	2074.9	2106.4	2128.0
35°	10746.3	8600.6	4143.9	2191.0	1884.1	1835.0	1850.7	1874.3	1894.0	1917.6	1935.3
37.5°	10765.9	8295.7	3404.4	1937.2	1764.2	1738.6	1738.6	1738.6	1738.6	1750.4	1752.4
40°	10948.9	8120.7	2802.6	1776.0	1683.5	1656.0	1634.4	1614.7	1599.0	1606.8	1602.9
42.5°	11416.9	8104.9	2362.1	1673.7	1618.6	1573.4	1530.1	1502.6	1482.9	1490.8	1494.7
45°	12211.5	8301.6	2065.1	1600.9	1557.7	1488.8	1433.8	1404.3	1390.5	1416.1	1420.0
47.5°	13240.1	8730.4	1884.1	1547.8	1500.6	1410.2	1351.2	1323.6	1327.6	1364.9	1374.8
50°	14565.7	9426.6	1797.6	1514.4	1461.3	1343.3	1282.3	1258.7	1270.5	1323.6	1335.4
52.5°	16021.1	10429.6	1807.4	1504.6	1435.7	1294.1	1229.2	1201.7	1221.3	1270.5	1280.3
55°	17700.7	11635.2	1970.7	1518.3	1398.4	1262.6	1185.9	1138.7	1154.5	1199.7	1207.6
57.5°	19567.1	13015.9	2299.1	1514.4	1351.2	1233.1	1140.7	1069.9	1081.7	1109.2	1117.1
60°	21510.3	14683.7	2808.5	1526.2	1329.5	1197.7	1079.7	991.2	987.3	1010.9	1014.8
62.5°	23842.8	16613.1	3390.7	1534.1	1343.3	1152.5	999.1	912.6	900.8	906.7	910.6
65°	26246.2	18009.5	3172.4	1502.6	1386.6	1115.1	928.3	835.9	814.2	810.3	812.3
67.5°	26320.9	16512.8	2224.4	1439.7	1404.3	1095.5	875.2	771.0	735.6	721.8	719.8
70°	23604.8	13415.2	1732.7	1372.8	1333.5	1064.0	826.0	717.9	664.8	643.1	641.2
71°	22279.3	12349.2	1642.2	1339.4	1280.3	1032.5	804.4	694.3	639.2	615.6	611.7
72.5°	20200.4	11070.8	1532.1	1286.2	1178.1	951.9	763.1	660.8	603.8	576.3	570.4
75°	14496.9	7239.6	1315.8	1146.6	975.5	759.2	668.7	594.0	544.8	511.4	507.4
77.5°	5585.5	2881.3	995.2	953.9	747.4	594.0	550.7	513.3	477.9	444.5	442.5
80°	1726.8	1288.2	725.7	717.9	540.9	442.5	428.7	418.9	405.1	369.7	361.9
82.5°	922.4	739.5	499.6	464.2	354.0	295.0	310.7	314.7	316.6	279.3	275.3
85°	440.6	391.4	281.2	263.5	206.5	165.2	190.8	206.5	208.5	171.1	159.3
87.5°	210.4	204.5	131.8	100.3	76.7	55.1	66.9	82.6	90.5	64.9	57.0
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)