

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: P193103

Luminaire Tested: **GAN-AF-05-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22813.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

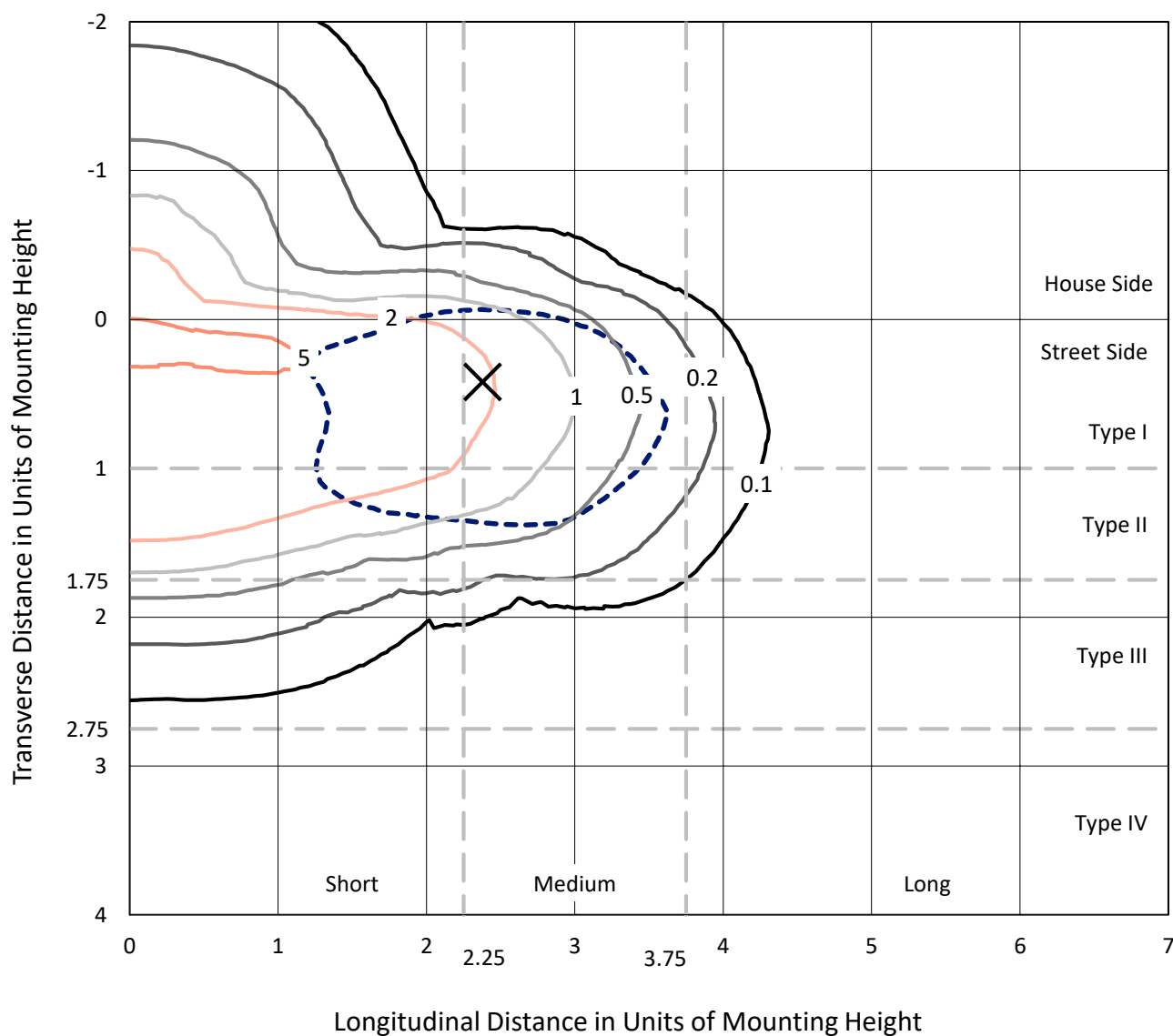


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

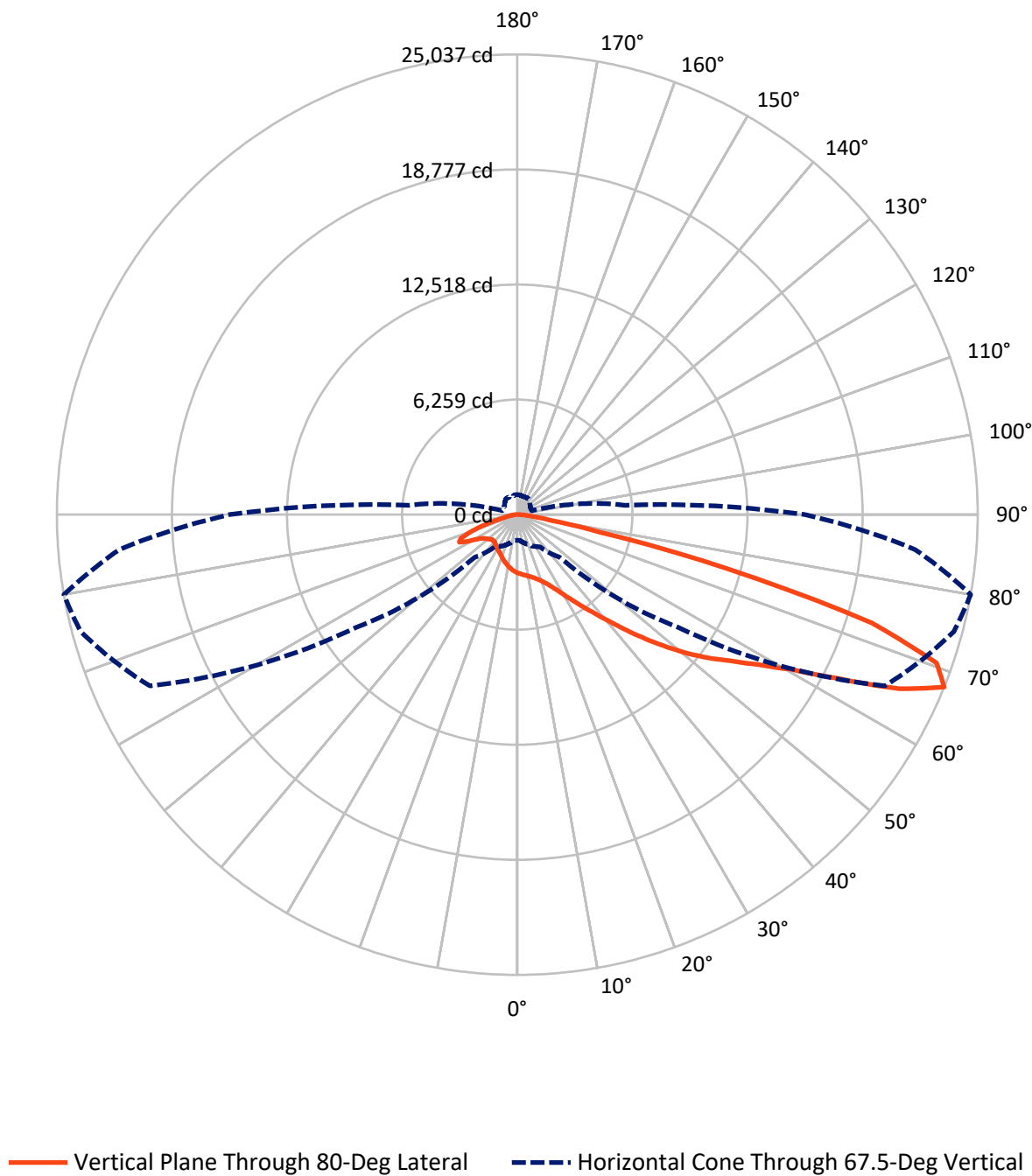


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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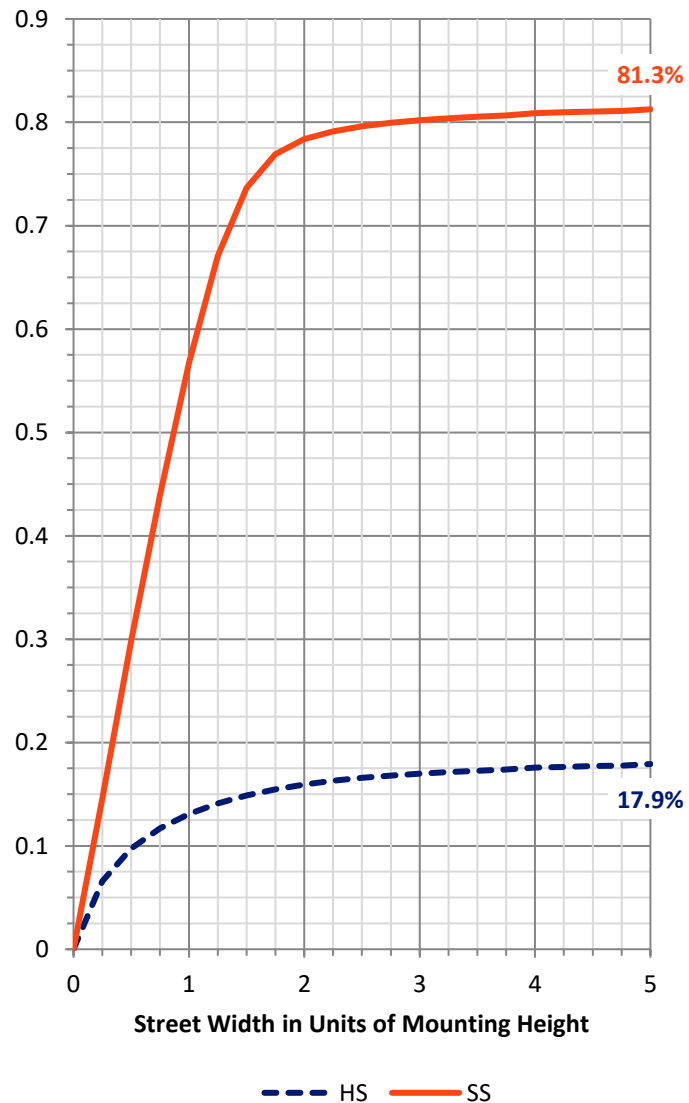
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4201.3	0.0	4201.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18612.0	0.0	18612.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	22813.3	0.0	22813.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.3
10°-20°	842.2	3.7
20°-30°	1394.1	6.1
30°-40°	2280.3	10.0
40°-50°	3681.8	16.1
50°-60°	5315.5	23.3
60°-70°	5865.9	25.7
70°-80°	2703.8	11.9
80°-90°	437.3	1.9
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°	22813.3	100.0
0°-180°	22813.3	100.0

Coefficient of Utilization



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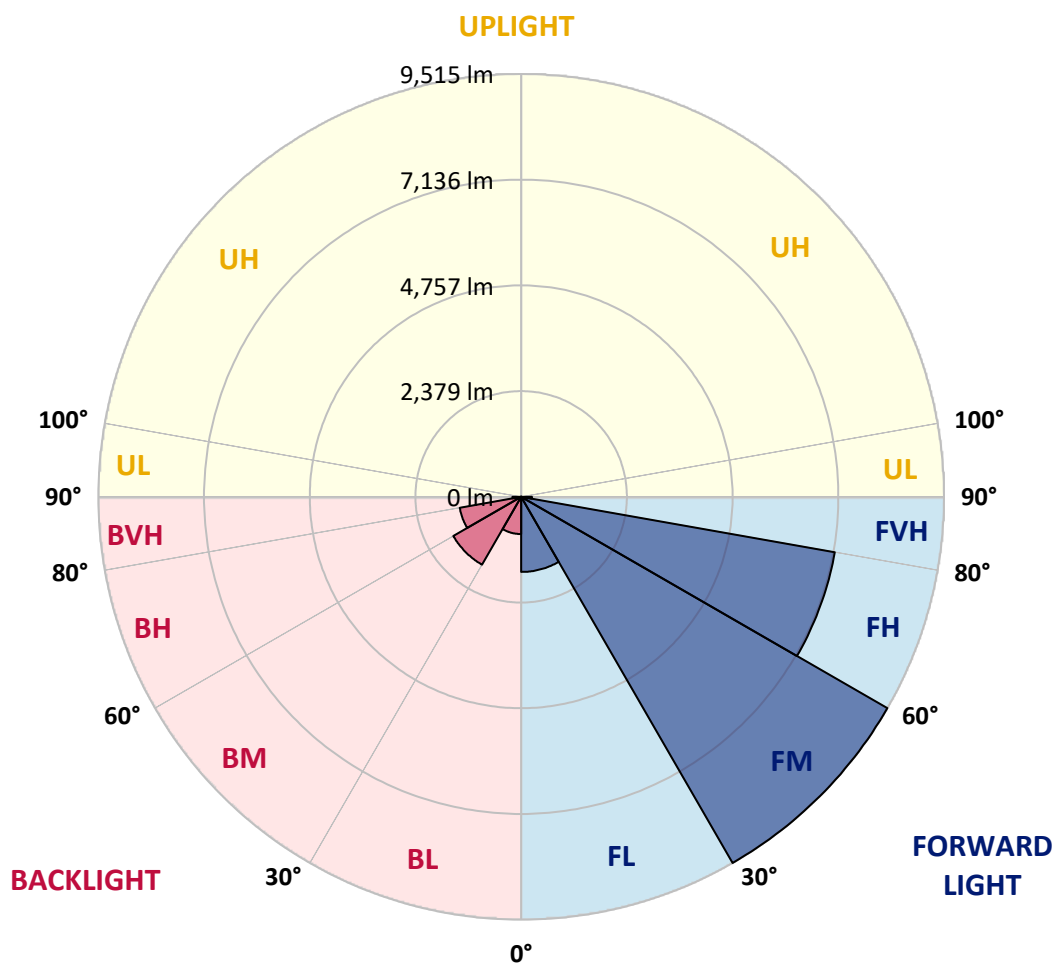
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.4	7.4			
FM	(30°-60°)	9514.9	41.7			
FH	(60°-80°)	7166.3	31.4			G3/7500
FVH	(80°-90°)	240.4	1.1			G3/500
BL	(0°-30°)	838.2	3.7	B2/1000		
BM	(30°-60°)	1762.7	7.7	B2/2500		
BH	(60°-80°)	1403.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	196.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4
2.5°	3467.1	3446.8	3450.2	3444.6	3427.8	3398.5	3367.2	3309.8	3250.4	3218.9	3194.2
5°	3756.9	3751.2	3743.3	3725.4	3682.7	3622.1	3546.8	3445.7	3336.8	3279.5	3224.5
7.5°	3973.5	3970.3	3960.1	3948.8	3907.3	3834.4	3721.0	3577.1	3418.7	3340.2	3254.9
10°	3991.6	3997.1	4005.0	4035.4	4041.0	4001.6	3886.1	3711.9	3504.2	3403.1	3294.0
12.5°	3838.9	3851.2	3881.6	3959.0	4041.0	4089.2	4029.7	3853.5	3604.1	3481.6	3343.6
15°	3636.7	3643.4	3680.5	3787.2	3934.3	4083.7	4139.9	4009.5	3733.3	3582.7	3417.6
17.5°	3550.2	3553.5	3579.4	3650.2	3787.2	4000.5	4201.6	4179.1	3891.6	3708.5	3508.7
20°	3506.3	3514.3	3551.3	3621.0	3707.3	3893.9	4210.6	4362.1	4080.3	3865.8	3623.1
22.5°	3631.0	3627.6	3641.2	3675.9	3749.0	3861.2	4203.9	4550.8	4320.6	4067.9	3772.5
25°	3922.0	3934.3	3910.7	3871.4	3895.0	3973.5	4239.8	4755.3	4621.6	4327.3	3968.0
27.5°	4336.4	4324.1	4289.2	4197.0	4148.8	4182.5	4358.8	4975.4	4995.7	4668.7	4226.2
30°	4749.6	4739.5	4705.9	4593.6	4494.7	4466.6	4590.2	5228.0	5441.5	5078.7	4543.0
32.5°	5178.7	5167.4	5136.1	5023.7	4904.6	4839.5	4919.3	5520.1	5967.0	5568.4	4915.9
35°	5707.7	5686.3	5620.1	5463.9	5347.1	5296.7	5333.7	5887.3	6573.6	6147.9	5368.5
37.5°	6205.3	6237.8	6170.4	5954.7	5803.2	5785.2	5826.7	6335.5	7227.3	6795.9	5888.5
40°	6705.0	6710.6	6649.9	6473.6	6317.5	6288.3	6392.8	6879.1	7998.9	7570.9	6520.8
42.5°	7221.6	7232.9	7130.7	6967.8	6853.3	6858.9	6978.0	7516.0	8883.9	8484.0	7248.6
45°	7833.8	7850.6	7738.3	7524.9	7420.5	7630.4	7581.1	8230.2	9854.2	9521.8	8084.2
47.5°	8473.9	8499.8	8414.4	8214.4	8084.2	8372.9	8184.2	9022.0	10898.7	10634.8	9001.8
50°	8823.2	8860.3	8943.4	8928.7	8900.7	8852.4	8856.9	9871.0	11975.8	11793.9	9945.3
52.5°	8635.7	8634.5	8937.7	9306.1	9699.3	9728.5	9676.8	10766.2	12982.0	12927.1	10833.6
55°	7777.6	7836.0	8295.3	9008.5	10082.2	10752.8	10905.5	11791.6	13970.4	14034.5	11735.4
57.5°	6348.9	6397.2	7017.2	8011.2	9565.5	11361.5	12653.0	13282.0	15075.6	15374.3	12936.1
60°	4306.0	4364.5	5021.4	6215.3	8175.3	11022.3	14316.4	15941.5	16398.6	17078.1	14620.7
62.5°	2530.3	2583.2	3119.0	3920.8	5756.0	9446.5	15046.4	19725.3	18500.0	19648.9	17190.5
65°	1741.9	1777.8	2038.4	2440.6	3307.6	6362.5	14141.2	22337.6	21733.5	22834.1	20170.1
67.5°	1401.7	1397.2	1603.8	1877.8	2129.5	3280.6	10693.2	22042.3	24577.3	25036.5	21716.6
70°	1154.6	1150.1	1290.5	1517.3	1701.5	1847.6	5824.5	18601.1	23997.6	24184.1	20292.5
72.5°	965.9	970.3	1060.3	1228.7	1396.0	1391.5	2559.6	13085.4	18878.5	20167.8	16176.3
75°	815.4	817.6	877.2	996.2	1133.2	1120.9	1388.1	7089.1	10974.0	11871.3	8967.0
77.5°	694.2	696.3	734.6	800.8	898.4	894.0	1013.1	3062.7	4577.9	4521.7	3067.2
80°	618.9	618.9	636.8	649.1	703.1	682.9	751.3	1471.2	1935.1	1786.8	1224.2
82.5°	485.2	487.4	597.5	593.1	553.7	527.8	527.8	867.1	1025.4	948.0	716.5
85°	272.9	271.8	385.2	465.0	487.4	371.7	368.4	485.2	558.2	491.8	347.0
87.5°	116.8	119.1	178.5	206.6	276.3	231.4	228.1	250.4	284.2	246.0	160.6
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°	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4
2.5°	3170.6	3141.3	3077.3	2997.6	2925.8	2878.6	2835.9	2774.1	2777.5	2734.8	2703.3
5°	3168.3	3107.7	2959.4	2783.1	2613.5	2491.1	2399.0	2315.9	2295.6	2256.3	2232.7
7.5°	3170.6	3071.8	2822.3	2540.5	2330.5	2175.5	2096.9	2053.1	2042.9	2029.5	2030.6
10°	3178.5	3039.1	2671.9	2313.7	2093.5	1991.2	1972.2	1985.7	2001.4	2005.9	2007.0
12.5°	3196.4	3010.0	2506.9	2111.4	1945.3	1913.7	1946.4	1992.5	2022.7	2037.3	2036.3
15°	3236.8	2987.4	2348.4	1953.1	1863.2	1880.2	1940.8	2005.9	2049.7	2069.9	2071.0
17.5°	3280.6	2954.9	2185.6	1831.8	1802.6	1845.3	1920.6	1996.9	2050.8	2073.3	2077.8
20°	3337.9	2914.5	2014.8	1740.8	1745.3	1793.6	1864.4	1940.8	2000.3	2019.3	2028.4
22.5°	3413.2	2870.7	1865.5	1666.7	1680.2	1717.2	1772.3	1838.5	1890.1	1899.2	1907.0
25°	3514.3	2823.5	1746.4	1599.3	1604.9	1626.4	1663.4	1702.7	1738.6	1728.5	1736.3
27.5°	3650.2	2783.1	1657.7	1537.5	1527.5	1532.0	1551.1	1563.4	1582.5	1554.4	1557.7
30°	3809.7	2739.2	1589.1	1483.6	1455.6	1447.6	1452.2	1458.9	1473.6	1435.3	1429.7
32.5°	3994.9	2686.4	1525.1	1436.4	1397.2	1381.5	1383.7	1401.7	1457.8	1434.2	1421.9
35°	4210.6	2626.9	1457.8	1384.8	1357.9	1335.3	1333.2	1389.3	1556.6	1542.0	1530.8
37.5°	4463.2	2567.5	1390.5	1326.4	1328.6	1303.9	1296.1	1360.1	1575.7	1518.4	1510.6
40°	4784.5	2536.0	1333.2	1264.6	1292.7	1289.4	1273.6	1306.2	1450.0	1345.5	1332.0
42.5°	5182.0	2540.5	1290.5	1198.3	1250.0	1286.0	1261.3	1262.4	1314.1	1235.4	1223.0
45°	5672.8	2593.3	1260.1	1145.6	1201.8	1282.6	1256.8	1238.8	1243.3	1201.8	1195.0
47.5°	6245.7	2702.2	1238.8	1101.8	1155.6	1270.2	1255.6	1232.0	1221.9	1199.4	1193.8
50°	6882.5	2860.6	1223.0	1060.3	1114.1	1250.0	1256.8	1225.4	1214.1	1205.1	1201.8
52.5°	7508.1	3041.4	1199.4	1024.3	1081.5	1225.4	1260.1	1218.6	1206.2	1199.4	1196.2
55°	8205.5	3267.2	1163.5	993.9	1054.6	1193.8	1260.1	1208.5	1195.0	1196.2	1195.0
57.5°	9147.7	3632.1	1120.9	968.1	1022.0	1155.6	1238.8	1197.3	1180.4	1181.5	1182.6
60°	10620.2	4275.8	1069.2	942.3	981.5	1110.7	1209.6	1172.6	1155.6	1160.3	1161.3
62.5°	12785.5	5220.3	1001.8	904.1	939.0	1062.4	1169.2	1141.1	1124.3	1135.4	1135.4
65°	15036.3	6053.6	918.8	855.8	894.0	1009.7	1118.6	1101.8	1085.0	1110.7	1109.6
67.5°	15641.7	5867.1	835.7	803.0	849.1	951.3	1057.9	1049.0	1040.0	1085.0	1082.6
70°	13895.1	4710.3	759.3	749.1	799.7	888.4	992.8	992.8	987.2	1020.9	1013.1
72.5°	10586.4	3340.2	686.2	691.8	743.5	819.9	922.0	929.9	920.9	937.8	931.1
75°	5667.3	1911.5	613.3	628.9	673.9	750.3	843.5	851.3	845.6	844.6	848.0
77.5°	1883.5	934.3	536.9	561.6	600.8	678.4	761.4	773.8	760.3	758.1	756.9
80°	839.0	587.4	452.7	485.2	520.0	596.3	675.0	685.0	670.6	690.7	664.9
82.5°	539.0	386.3	362.7	398.7	432.4	514.4	588.5	590.8	577.3	670.6	571.7
85°	261.6	239.3	272.9	305.5	334.7	404.4	487.4	488.6	454.8	414.4	399.8
87.5°	130.2	139.3	181.9	211.2	225.7	277.4	354.9	348.2	333.6	303.2	279.7
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)