

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: P321049

Luminaire Tested: **GAN-SA5C-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36267 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

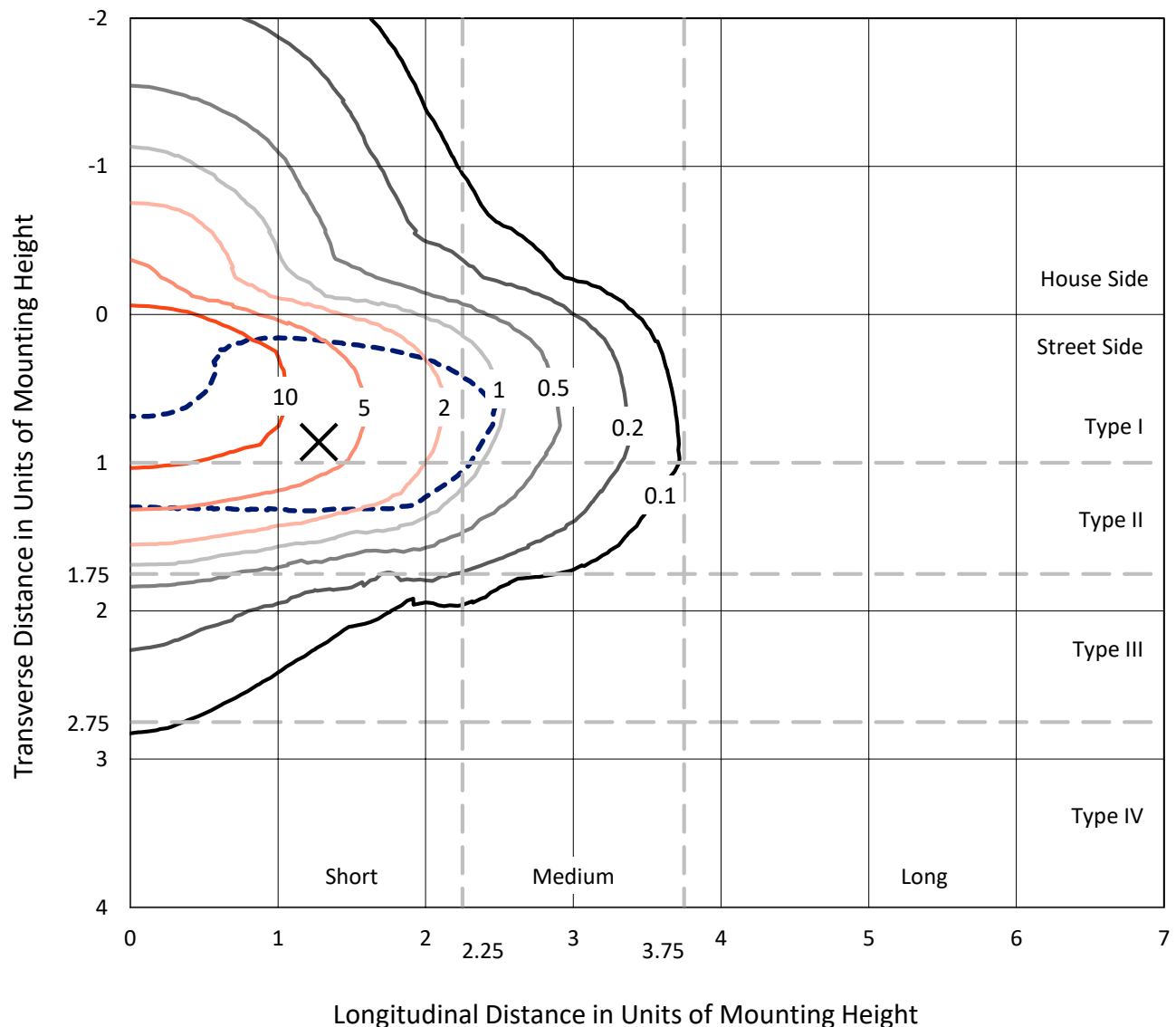


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Iso-Footcandle Lines of Horizontal Illumination

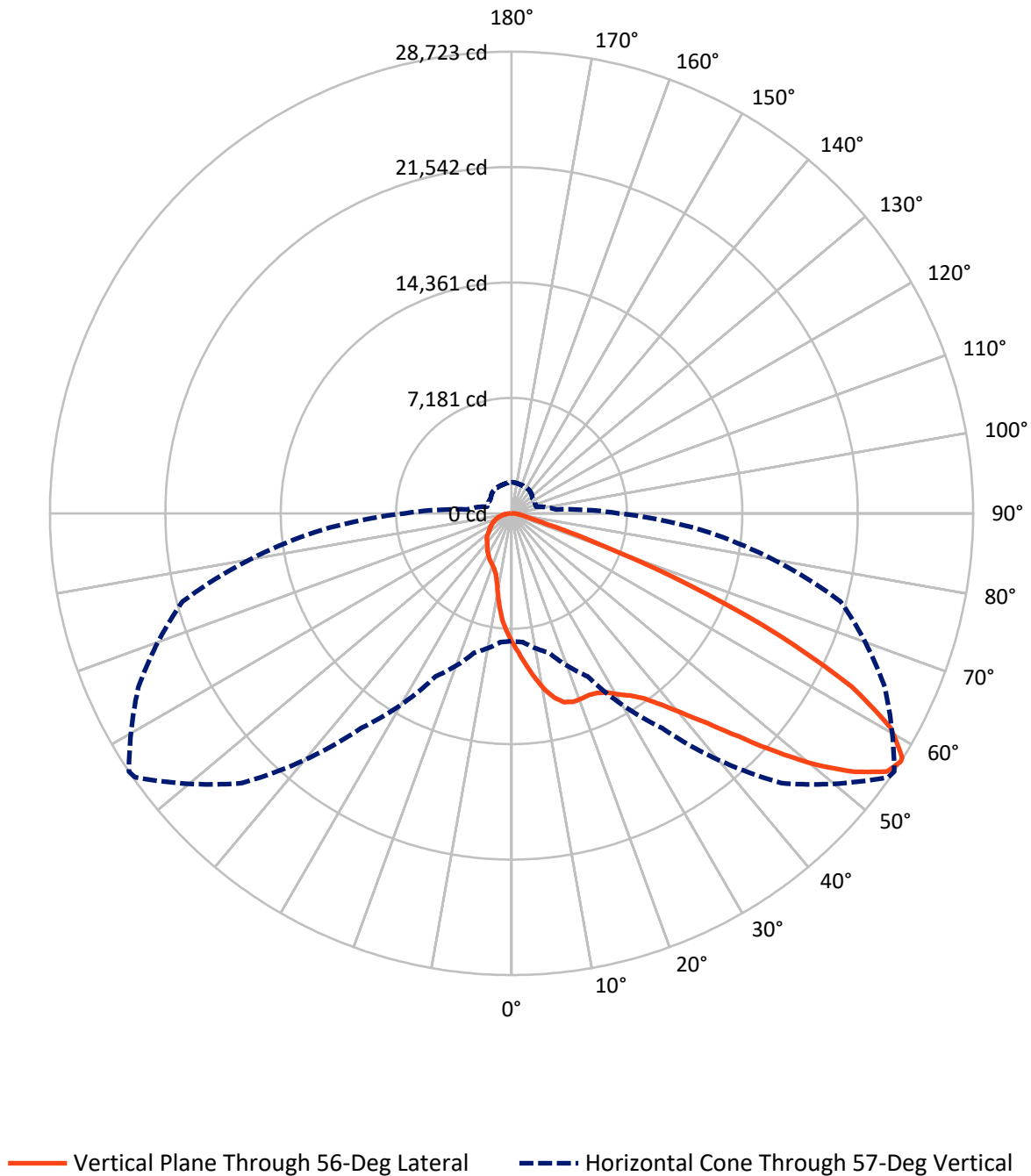
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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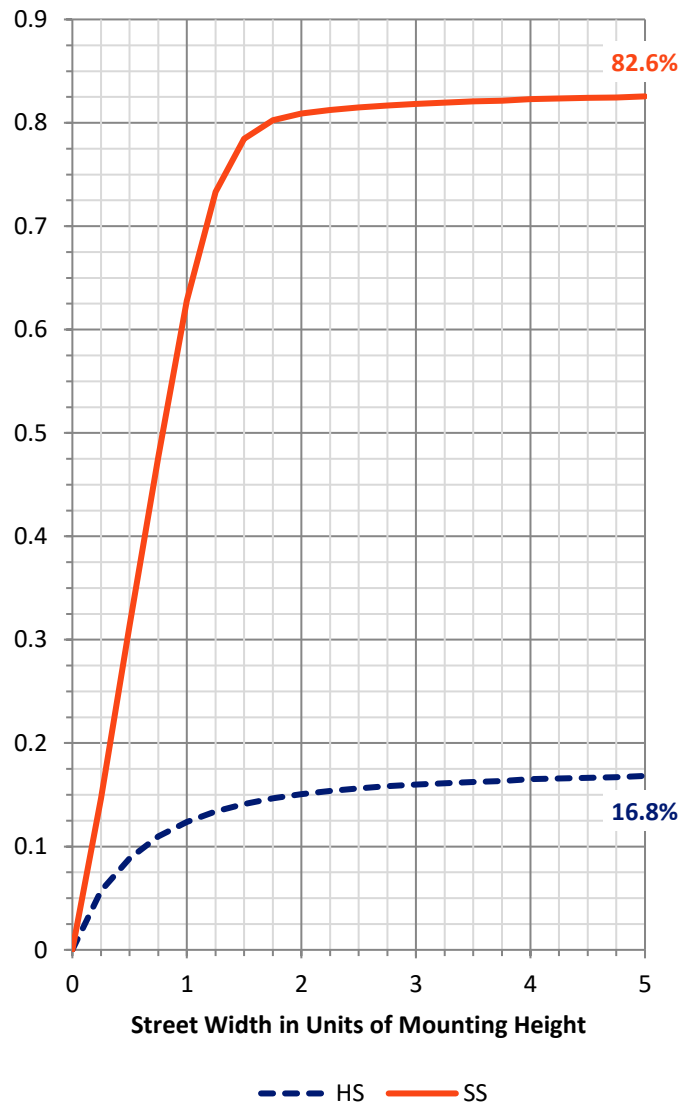
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6251.6	0.0	6251.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	30015.3	0.0	30015.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	36267.0	0.0	36267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.4	2.1
10°-20°	2172.5	6.0
20°-30°	3538.5	9.8
30°-40°	5289.7	14.6
40°-50°	8023.4	22.1
50°-60°	8992.8	24.8
60°-70°	5311.5	14.6
70°-80°	1740.2	4.8
80°-90°	429.9	1.2
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°	36267.0	100.0
0°-180°	36267.0	100.0

Coefficient of Utilization



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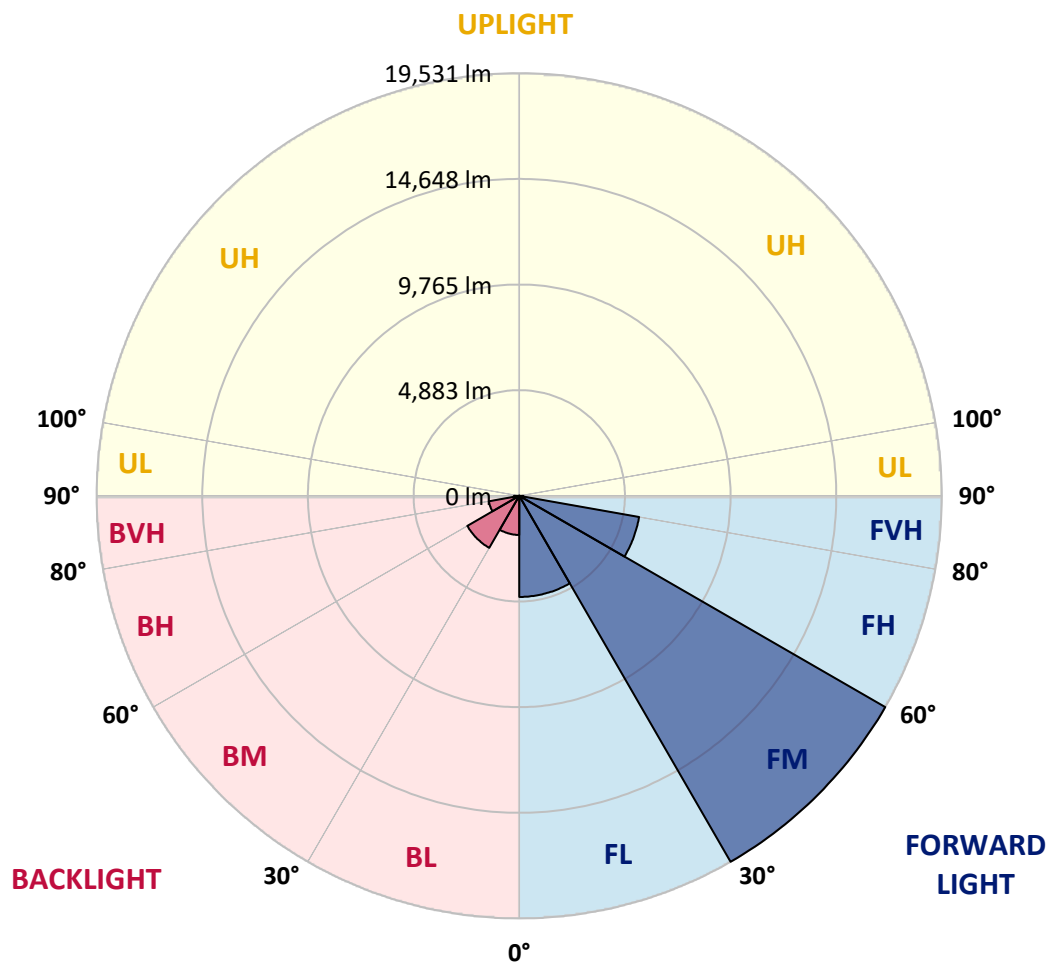
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4671.7	12.9			
FM	(30°-60°)	19531.0	53.9			
FH	(60°-80°)	5623.3	15.5			G3/7500
FVH	(80°-90°)	189.3	0.5			G2/225
BL	(0°-30°)	1807.7	5.0	B3/2500		
BM	(30°-60°)	2774.9	7.7	B3/5000		
BH	(60°-80°)	1428.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	240.6	0.7			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	9236.8	9321.6	9284.2	9154.6	9054.9	8914.0	8757.0	8709.6	8543.8	8358.1	8135.0
5°	10698.8	10656.4	10595.4	10393.5	10180.3	9932.3	9538.4	9476.1	9107.2	8687.2	8243.5
7.5°	11531.4	11527.6	11491.5	11373.1	11178.7	10854.6	10379.7	10306.2	9749.1	9073.6	8385.6
10°	11410.5	11401.8	11461.6	11585.0	11643.6	11576.3	11176.2	11102.6	10418.4	9501.1	8550.1
12.5°	10723.7	10728.7	10824.7	11083.9	11436.7	11860.4	11795.6	11759.5	11112.6	9984.6	8749.5
15°	10189.1	10200.3	10276.3	10501.9	10918.2	11687.2	12172.0	12184.5	11784.4	10518.1	8982.6
17.5°	9954.7	9978.4	10013.3	10171.6	10553.0	11341.9	12261.8	12329.1	12372.7	11071.5	9206.9
20°	10029.5	10052.0	10061.9	10162.9	10475.7	11132.6	12199.4	12320.3	12823.9	11592.5	9431.3
22.5°	10364.8	10378.5	10384.7	10410.9	10653.9	11192.4	12158.3	12285.4	13150.4	12059.8	9600.8
25°	10920.7	10910.7	10870.8	10837.2	11000.4	11429.2	12253.0	12373.9	13415.9	12483.6	9711.7
27.5°	11586.2	11573.8	11496.5	11404.3	11497.7	11798.1	12526.0	12622.0	13654.0	12880.0	9767.8
30°	12385.2	12352.7	12206.9	12097.2	12133.4	12351.5	12975.9	13063.2	14021.6	13329.9	9822.6
32.5°	13308.7	13273.8	13063.2	12881.2	12881.2	13063.2	13439.6	13511.9	14333.2	13838.4	9911.1
35°	14465.3	14421.7	14147.5	13842.2	13756.2	13848.4	14071.5	14122.6	14894.1	14479.0	10071.9
37.5°	15828.9	15770.3	15415.1	15006.3	14818.1	14813.1	14973.9	15078.5	15790.2	15320.3	10344.8
40°	17196.1	17155.0	16844.7	16523.1	16154.2	16035.8	16283.8	16316.2	16961.8	16364.8	10693.8
42.5°	18253.0	18245.6	18188.2	18230.6	17853.0	17613.7	17808.1	17834.3	18392.6	17495.3	11065.2
45°	18811.4	18823.9	19101.8	19717.5	19857.1	19682.6	19778.6	19786.1	20027.9	18635.7	11405.5
47.5°	18364.0	18428.8	19131.7	20509.0	21651.9	22231.5	22071.9	22164.1	21613.3	19615.3	11672.2
50°	16620.3	16700.1	17896.6	20156.2	22489.4	24698.0	24614.5	24593.3	22892.0	20333.2	11816.8
52.5°	14460.4	14522.7	15509.8	18322.8	21875.0	26061.5	26828.1	26718.4	24028.7	20870.4	11844.2
55°	11171.2	11268.4	12214.4	14663.5	19389.7	25540.6	28455.8	28357.3	25064.4	21152.1	11811.8
57°	7941.9	8044.1	8983.8	11191.1	16311.2	23737.1	28617.8	28722.5	25624.1	21199.5	11848.0
57.5°	7086.8	7191.5	8122.6	10266.3	15351.5	23085.2	28478.2	28652.7	25725.0	21192.0	11867.9
60°	3568.3	3608.2	4201.5	5730.8	9704.2	18663.1	26657.3	27107.2	25816.0	20825.5	11953.9
62.5°	2218.5	2189.9	2171.2	2639.8	4721.2	12376.4	22899.5	23765.7	24074.8	19938.1	11745.8
65°	1950.6	1897.0	1691.3	1653.9	2085.2	6011.2	17244.7	18322.8	20354.4	18539.7	11249.7
67.5°	1832.2	1779.8	1548.0	1408.4	1409.6	2383.1	10706.3	11920.3	15856.3	16175.4	10079.4
70°	1710.0	1662.7	1445.8	1281.3	1200.3	1319.9	4925.6	5846.7	10336.1	12714.2	8424.2
72.5°	1553.0	1520.6	1314.9	1145.4	1059.4	988.4	1885.8	2227.3	5983.8	8538.9	5850.4
75°	1388.5	1358.5	1182.8	1020.8	916.1	777.7	1061.9	1144.2	3039.9	4368.5	2880.4
77.5°	1207.7	1190.3	1051.9	902.4	818.9	644.4	751.6	791.4	1303.7	1873.3	1444.5
80°	960.9	994.6	919.8	803.9	726.6	516.0	532.2	558.4	759.0	914.8	820.1
82.5°	625.7	684.3	720.4	653.1	598.3	406.3	382.6	393.9	494.8	558.4	356.5
85°	260.5	292.9	473.6	427.5	397.6	296.6	256.8	261.7	306.6	317.8	145.8
87.5°	115.9	123.4	208.1	195.7	168.3	102.2	109.7	119.7	163.3	154.5	56.1
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°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	8051.5	7946.8	7767.4	7569.2	7407.2	7277.5	7146.7	7056.9	6952.2	6896.1	6867.5
5°	8057.8	7852.1	7474.5	7086.8	6740.4	6423.8	6122.2	5890.3	5673.5	5556.3	5523.9
7.5°	8083.9	7774.8	7164.1	6526.0	5910.3	5348.2	4914.4	4642.7	4447.0	4359.8	4334.9
10°	8105.1	7683.9	6780.2	5835.5	4997.9	4428.3	4091.8	3939.8	3872.5	3861.2	3850.0
12.5°	8155.0	7590.4	6376.4	5115.1	4288.7	3894.9	3777.7	3767.8	3786.5	3813.9	3813.9
15°	8233.5	7498.1	5915.3	4496.9	3837.6	3699.2	3722.9	3777.7	3828.8	3871.2	3877.4
17.5°	8290.8	7384.7	5419.2	4002.1	3597.0	3634.4	3719.2	3796.4	3848.8	3889.9	3893.7
20°	8332.0	7209.0	4889.5	3624.4	3458.7	3574.6	3680.5	3749.1	3785.2	3826.3	3832.6
22.5°	8310.8	6973.4	4419.6	3354.0	3346.5	3487.3	3588.3	3670.6	3643.1	3603.2	3629.4
25°	8208.6	6649.4	3936.0	3152.1	3228.1	3370.2	3494.8	3440.0	3347.7	3330.3	3340.3
27.5°	8026.6	6235.6	3488.6	2965.1	3091.0	3261.7	3254.3	3199.4	3167.0	3144.6	3158.3
30°	7830.9	5786.9	3097.2	2801.8	2938.9	3079.8	3051.1	3049.9	3017.5	2981.3	2998.8
32.5°	7637.7	5335.7	2786.9	2667.2	2824.3	2843.0	2905.3	2924.0	2860.4	2784.4	2779.4
35°	7469.5	4909.4	2551.3	2545.1	2685.9	2688.4	2779.4	2753.2	2594.9	2516.4	2516.4
37.5°	7343.6	4484.4	2371.8	2435.4	2504.0	2568.8	2614.9	2506.4	2480.3	2436.6	2435.4
40°	7288.8	4110.5	2259.7	2351.9	2375.6	2457.8	2339.4	2381.8	2394.3	2371.8	2371.8
42.5°	7231.4	3785.2	2162.4	2288.3	2284.6	2273.4	2213.5	2268.4	2318.2	2319.5	2315.8
45°	7174.1	3504.8	2076.4	2152.5	2204.8	2083.9	2095.1	2153.7	2223.5	2248.4	2248.4
47.5°	7110.5	3282.9	1997.9	2009.1	2090.2	2009.1	2000.4	2045.3	2127.5	2167.4	2176.2
50°	6970.9	3083.5	1908.2	1883.3	1905.7	1933.1	1940.6	1961.8	2052.8	2116.3	2131.3
52.5°	6777.7	2905.3	1793.5	1767.3	1767.3	1870.8	1905.7	1911.9	1989.2	2065.2	2080.2
55°	6617.0	2791.9	1675.1	1670.1	1665.1	1804.7	1864.6	1874.5	1928.1	1988.0	1995.4
57°	6628.2	2783.1	1584.1	1589.1	1587.9	1737.4	1825.9	1847.1	1874.5	1925.6	1934.4
57.5°	6634.4	2789.4	1564.2	1566.7	1565.4	1718.7	1814.7	1838.4	1859.6	1913.2	1921.9
60°	6727.9	2805.6	1483.2	1455.8	1462.0	1619.0	1751.1	1781.1	1794.8	1865.8	1877.0
62.5°	6589.5	2733.3	1418.4	1352.3	1352.3	1514.3	1662.7	1710.0	1731.2	1827.2	1845.9
65°	6188.2	2530.1	1342.3	1235.1	1247.6	1409.6	1556.7	1634.0	1666.4	1786.0	1806.0
67.5°	5568.8	2294.6	1261.3	1130.5	1142.9	1300.0	1447.0	1530.5	1581.6	1741.2	1757.4
70°	4762.4	2006.7	1151.6	1019.5	1034.5	1180.3	1317.4	1412.1	1488.2	1698.8	1703.8
72.5°	3511.0	1645.2	998.3	897.4	913.6	1040.7	1186.5	1296.2	1398.4	1592.9	1590.4
75°	2087.7	1286.3	828.8	774.0	785.2	903.6	1068.1	1201.5	1354.8	1551.7	1575.4
77.5°	1266.3	968.4	675.5	648.1	661.8	782.7	983.4	1125.5	1336.1	1463.2	1455.8
80°	765.3	691.7	539.7	522.2	535.9	669.3	909.8	1068.1	1167.8	1250.1	1250.1
82.5°	400.1	422.5	396.3	382.6	401.3	543.4	827.6	932.3	1032.0	886.2	827.6
85°	163.3	220.6	240.5	239.3	250.5	376.4	714.2	797.7	665.6	631.9	646.9
87.5°	54.8	93.5	117.2	101.0	105.9	236.8	494.8	385.1	457.4	319.1	302.9
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)