

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: P321061

Luminaire Tested: **GAN-SA7D-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321061
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-SA7D-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56303 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 448
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

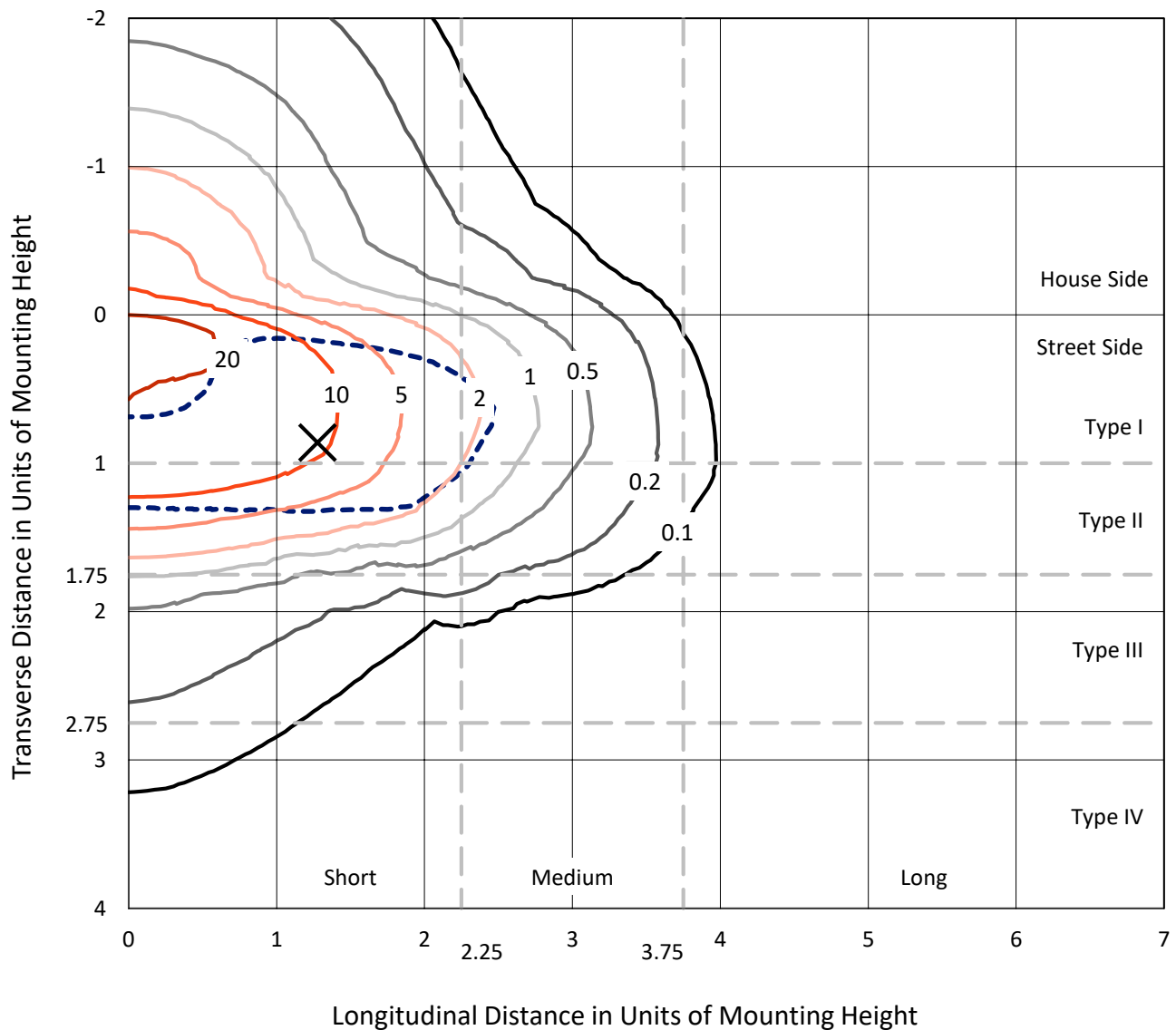


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Iso-Footcandle Lines of Horizontal Illumination

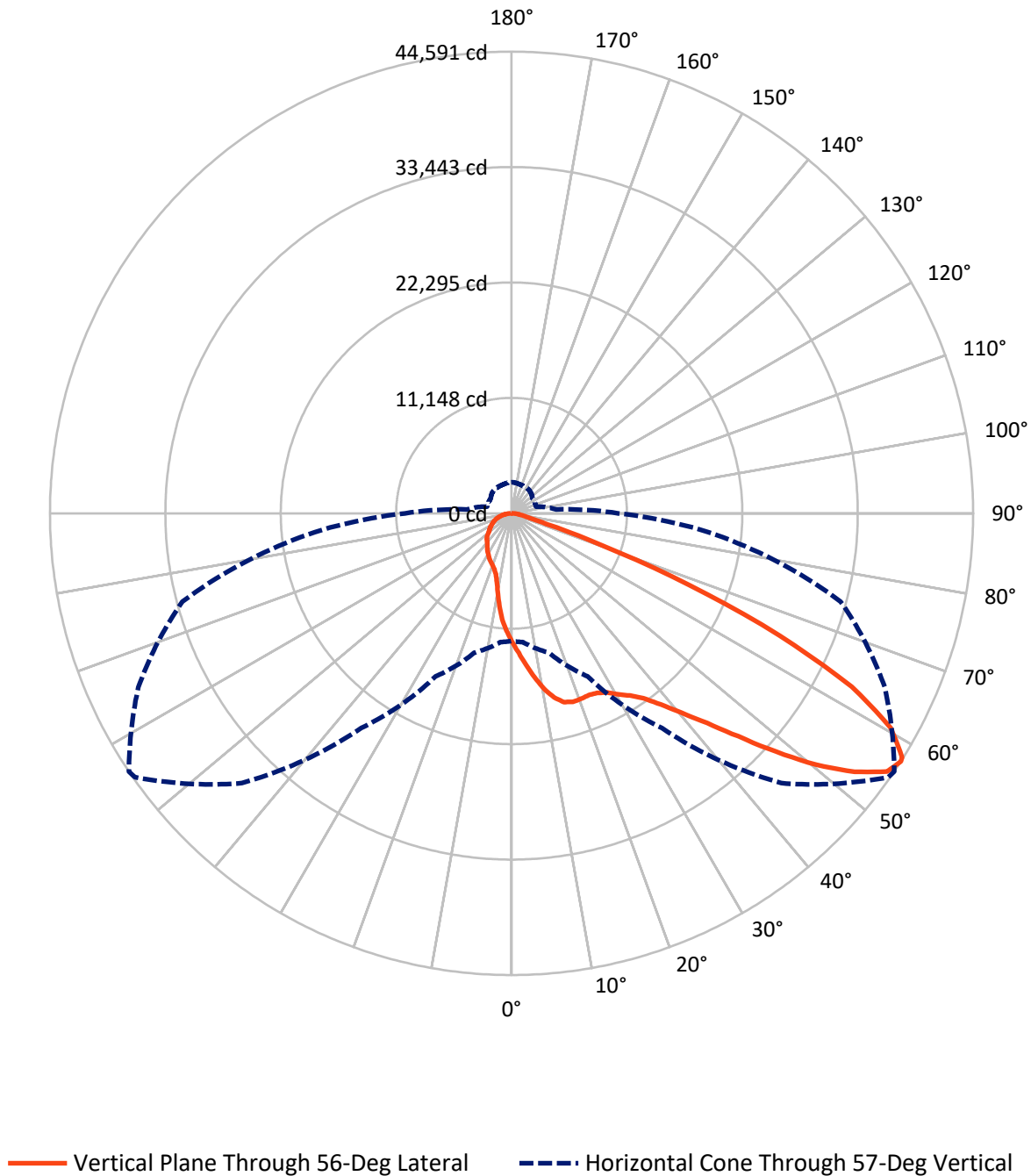
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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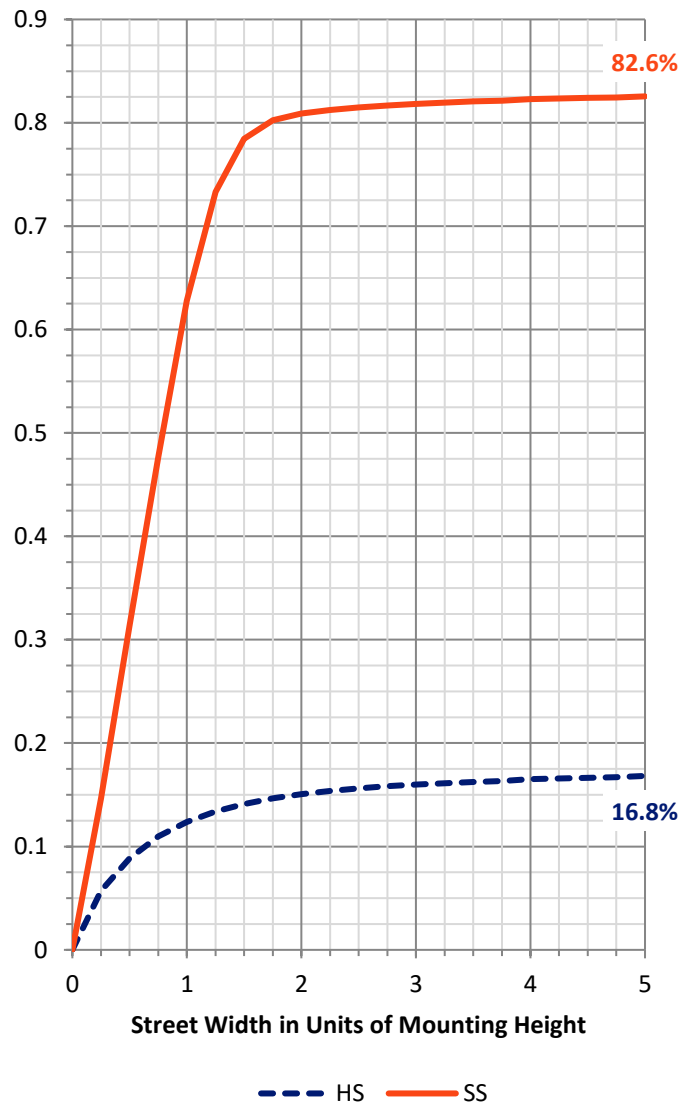
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9705.4	0.0	9705.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	46597.6	0.0	46597.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	56303.0	0.0	56303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1192.9	2.1
10°-20°	3372.7	6.0
20°-30°	5493.4	9.8
30°-40°	8212.1	14.6
40°-50°	12456.0	22.1
50°-60°	13960.9	24.8
60°-70°	8245.9	14.6
70°-80°	2701.7	4.8
80°-90°	667.5	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°	56303.0	100.0
0°-180°	56303.0	100.0

Coefficient of Utilization



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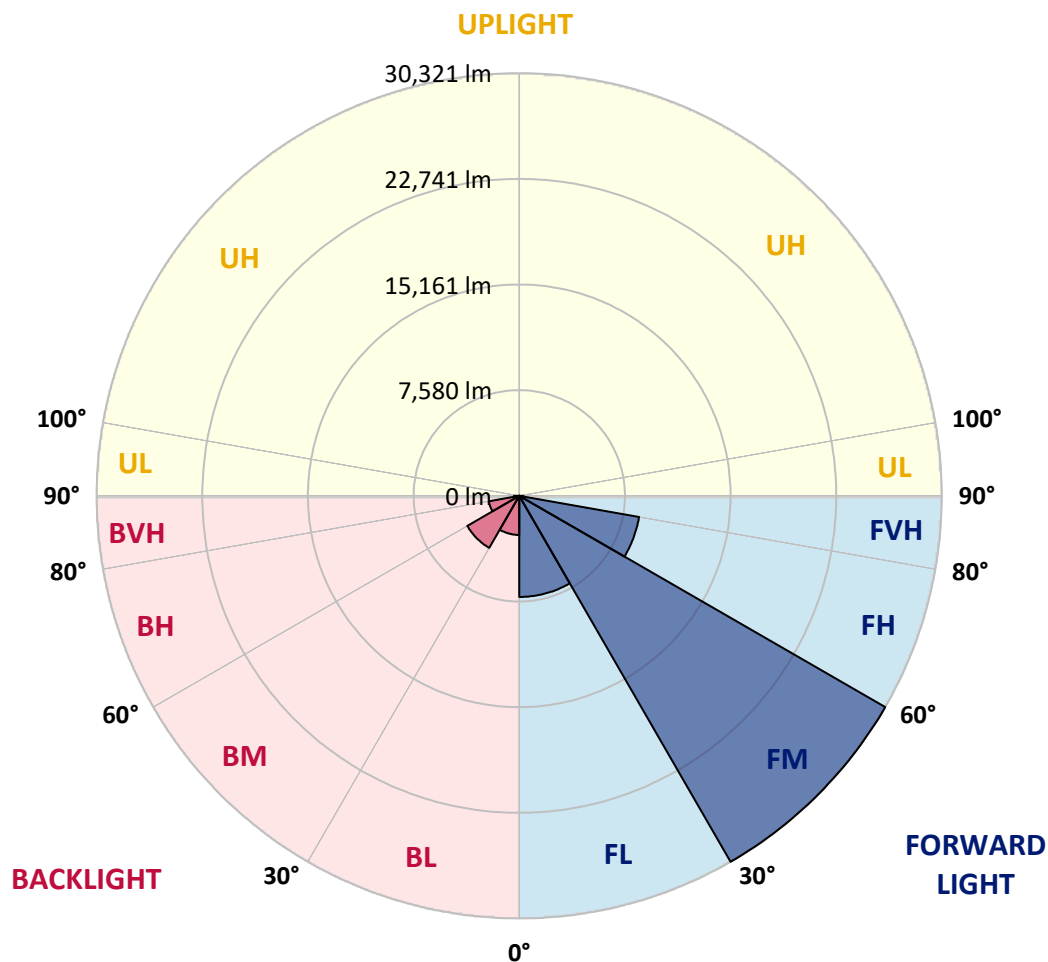
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7252.7	12.9			
FM	(30°-60°)	30321.0	53.9			
FH	(60°-80°)	8730.0	15.5			G4/12000
FVH	(80°-90°)	293.9	0.5			G3/500
BL	(0°-30°)	2806.4	5.0	B4/5000		
BM	(30°-60°)	4307.9	7.7	B3/5000		
BH	(60°-80°)	2217.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	373.6	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1
2.5°	14339.8	14471.4	14413.3	14212.1	14057.3	13838.6	13594.8	13521.3	13264.0	12975.7	12629.3
5°	16609.5	16543.7	16448.9	16135.4	15804.5	15419.5	14808.0	14711.3	14138.6	13486.5	12797.6
7.5°	17902.0	17896.2	17840.1	17656.3	17354.4	16851.3	16114.1	16000.0	15135.0	14086.3	13018.2
10°	17714.3	17700.8	17793.6	17985.2	18076.1	17971.7	17350.5	17236.4	16174.1	14750.0	13273.6
12.5°	16648.2	16655.9	16804.9	17207.4	17754.9	18412.8	18312.2	18256.1	17251.9	15500.7	13583.2
15°	15818.1	15835.5	15953.5	16303.7	16950.0	18143.9	18896.6	18915.9	18294.8	16328.9	13945.1
17.5°	15454.3	15491.1	15545.3	15791.0	16383.1	17607.9	19035.9	19140.4	19208.1	17188.0	14293.3
20°	15570.4	15605.2	15620.7	15777.4	16263.1	17282.8	18939.1	19126.8	19908.5	17996.8	14641.6
22.5°	16090.9	16112.2	16121.9	16162.5	16539.8	17375.7	18875.3	19072.6	20415.5	18722.4	14904.8
25°	16953.9	16938.4	16876.5	16824.2	17077.7	17743.3	19022.3	19210.0	20827.6	19380.3	15077.0
27.5°	17987.1	17967.8	17847.8	17704.6	17849.8	18316.1	19446.1	19595.1	21197.2	19995.6	15164.1
30°	19227.4	19177.1	18950.7	18780.5	18836.6	19175.2	20144.6	20280.0	21768.0	20694.1	15249.2
32.5°	20661.2	20607.0	20280.0	19997.5	19997.5	20280.0	20864.4	20976.6	22251.7	21483.6	15386.6
35°	22456.8	22389.1	21963.4	21489.4	21355.9	21499.0	21845.4	21924.7	23122.4	22478.1	15636.2
37.5°	24573.6	24482.7	23931.2	23296.6	23004.4	22996.7	23246.3	23408.8	24513.7	23784.2	16059.9
40°	26696.3	26632.4	26150.6	25651.4	25078.7	24894.8	25279.9	25330.2	26332.5	25405.7	16601.7
42.5°	28337.1	28325.5	28236.5	28302.3	27716.0	27344.5	27646.3	27687.0	28553.8	27160.7	17178.3
45°	29203.9	29223.3	29654.8	30610.6	30827.4	30556.5	30705.4	30717.1	31092.4	28931.1	17706.6
47.5°	28509.3	28609.9	29701.2	31839.3	33613.7	34513.4	34265.7	34408.9	33553.7	30452.0	18120.6
50°	25802.3	25926.2	27783.7	31291.7	34913.9	38342.6	38213.0	38180.1	35538.9	31566.5	18345.1
52.5°	22449.1	22545.8	24078.3	28445.4	33960.0	40459.4	41649.4	41479.2	37303.6	32400.5	18387.7
55°	17342.8	17493.7	18962.3	22764.5	30101.8	39650.6	44176.5	44023.6	38911.5	32837.7	18337.4
57°	12329.4	12488.1	13947.0	17373.8	25322.5	36850.8	44428.0	44590.5	39780.3	32911.3	18393.5
57.5°	11002.0	11164.6	12610.0	15938.0	23832.6	35838.8	44211.3	44482.2	39937.0	32899.7	18424.4
60°	5539.7	5601.6	6522.7	8896.8	15065.4	28973.7	41384.3	42082.9	40078.3	32330.8	18557.9
62.5°	3444.2	3399.7	3370.7	4098.2	7329.5	19213.9	35550.5	36895.3	37375.2	30953.1	18234.8
65°	3028.2	2945.0	2625.7	2567.7	3237.1	9332.2	26771.7	28445.4	31599.4	28782.1	17464.7
67.5°	2844.4	2763.1	2403.2	2186.5	2188.4	3699.6	16621.1	18505.7	24616.2	25111.6	15647.8
70°	2654.7	2581.2	2244.5	1989.1	1863.3	2049.1	7646.9	9076.8	16046.4	19738.3	13078.2
72.5°	2410.9	2360.6	2041.4	1778.2	1644.7	1534.4	2927.6	3457.7	9289.6	13256.2	9082.6
75°	2155.5	2109.1	1836.3	1584.7	1422.2	1207.4	1648.6	1776.3	4719.3	6781.9	4471.6
77.5°	1874.9	1847.9	1633.1	1400.9	1271.3	1000.4	1166.8	1228.7	2023.9	2908.2	2242.6
80°	1491.8	1544.1	1428.0	1248.0	1128.1	801.1	826.2	866.8	1178.4	1420.2	1273.2
82.5°	971.3	1062.3	1118.4	1013.9	928.8	630.8	594.0	611.4	768.2	866.8	553.4
85°	404.4	454.7	735.3	663.7	617.2	460.5	398.6	406.3	476.0	493.4	226.4
87.5°	179.9	191.6	323.1	303.8	261.2	158.7	170.3	185.8	253.5	239.9	87.1
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°	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1	12488.1
2.5°	12499.7	12337.1	12058.5	11750.8	11499.3	11298.1	11094.9	10955.6	10793.1	10706.0	10661.5
5°	12509.3	12190.1	11603.8	11002.0	10464.1	9972.6	9504.4	9144.5	8807.8	8625.9	8575.6
7.5°	12550.0	12070.1	11122.0	10131.3	9175.5	8302.8	7629.4	7207.6	6903.8	6768.4	6729.7
10°	12582.9	11928.9	10526.0	9059.4	7759.1	6874.8	6352.4	6116.3	6011.8	5994.4	5977.0
12.5°	12660.3	11783.7	9899.1	7941.0	6658.1	6046.7	5864.8	5849.3	5878.3	5920.9	5920.9
15°	12782.2	11640.6	9183.2	6981.2	5957.7	5742.9	5779.6	5864.8	5944.1	6009.9	6019.6
17.5°	12871.2	11464.5	8413.1	6213.1	5584.2	5642.3	5773.8	5893.8	5975.1	6038.9	6044.7
20°	12935.0	11191.7	7590.7	5626.8	5369.4	5549.4	5713.9	5820.3	5876.4	5940.2	5949.9
22.5°	12902.1	10825.9	6861.3	5206.9	5195.3	5413.9	5570.7	5698.4	5655.8	5593.9	5634.5
25°	12743.5	10322.9	6110.5	4893.4	5011.5	5232.1	5425.6	5340.4	5197.2	5170.1	5185.6
27.5°	12461.0	9680.5	5415.9	4603.2	4798.6	5063.7	5052.1	4967.0	4916.7	4881.8	4903.1
30°	12157.2	8983.9	4808.3	4349.7	4562.6	4781.2	4736.7	4734.8	4684.5	4628.4	4655.4
32.5°	11857.3	8283.4	4326.5	4140.8	4384.6	4413.6	4510.3	4539.4	4440.7	4322.6	4314.9
35°	11596.1	7621.7	3960.8	3951.1	4169.8	4173.7	4314.9	4274.3	4028.5	3906.6	3906.6
37.5°	11400.6	6961.9	3682.2	3780.9	3887.3	3987.9	4059.5	3891.1	3850.5	3782.8	3780.9
40°	11315.5	6381.4	3508.0	3651.2	3688.0	3815.7	3631.9	3697.7	3717.0	3682.2	3682.2
42.5°	11226.5	5876.4	3357.1	3552.5	3546.7	3529.3	3436.4	3521.6	3599.0	3600.9	3595.1
45°	11137.5	5441.0	3223.6	3341.6	3422.9	3235.2	3252.6	3343.6	3451.9	3490.6	3490.6
47.5°	11038.8	5096.6	3101.7	3119.1	3244.9	3119.1	3105.6	3175.2	3302.9	3364.8	3378.4
50°	10822.1	4787.0	2962.4	2923.7	2958.5	3001.1	3012.7	3045.6	3186.8	3285.5	3308.7
52.5°	10522.2	4510.3	2784.4	2743.7	2743.7	2904.3	2958.5	2968.2	3088.2	3206.2	3229.4
55°	10272.6	4334.2	2600.5	2592.8	2585.1	2801.8	2894.7	2910.1	2993.3	3086.2	3097.8
57°	10290.0	4320.7	2459.3	2467.0	2465.1	2697.3	2834.7	2867.6	2910.1	2989.5	3003.0
57.5°	10299.6	4330.4	2428.3	2432.2	2430.3	2668.3	2817.3	2854.0	2886.9	2970.1	2983.7
60°	10444.8	4355.5	2302.6	2260.0	2269.7	2513.5	2718.6	2765.0	2786.3	2896.6	2914.0
62.5°	10230.0	4243.3	2202.0	2099.4	2099.4	2350.9	2581.2	2654.7	2687.6	2836.6	2865.6
65°	9606.9	3927.9	2083.9	1917.5	1936.9	2188.4	2416.7	2536.7	2587.0	2772.8	2803.7
67.5°	8645.3	3562.2	1958.2	1755.0	1774.3	2018.1	2246.5	2376.1	2455.4	2703.1	2728.3
70°	7393.4	3115.2	1787.9	1582.8	1606.0	1832.4	2045.2	2192.3	2310.3	2637.3	2645.1
72.5°	5450.7	2554.1	1549.9	1393.2	1418.3	1615.7	1842.1	2012.3	2171.0	2472.8	2469.0
75°	3241.0	1996.9	1286.7	1201.6	1219.0	1402.8	1658.2	1865.3	2103.3	2409.0	2445.8
77.5°	1965.9	1503.4	1048.7	1006.2	1027.4	1215.1	1526.7	1747.2	2074.2	2271.6	2260.0
80°	1188.0	1073.9	837.8	810.7	832.0	1039.1	1412.5	1658.2	1813.0	1940.7	1940.7
82.5°	621.1	655.9	615.3	594.0	623.0	843.6	1284.8	1447.3	1602.1	1375.7	1284.8
85°	253.5	342.5	373.4	371.5	388.9	584.3	1108.7	1238.4	1033.3	981.0	1004.2
87.5°	85.1	145.1	181.9	156.7	164.5	367.6	768.2	597.9	710.1	495.3	470.2
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)