

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: P319462

Luminaire Tested: **GAN-SA8D-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60918 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

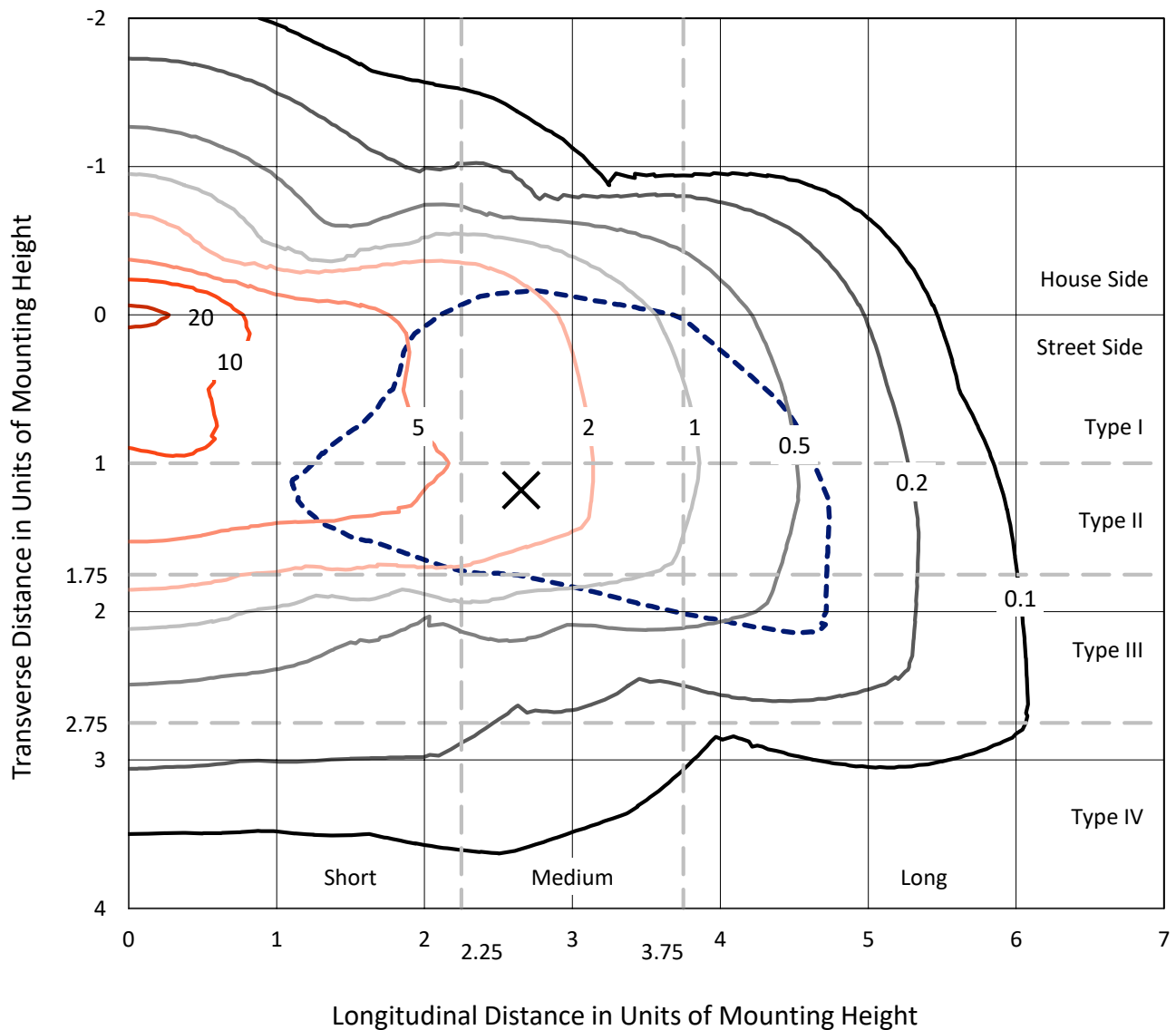
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

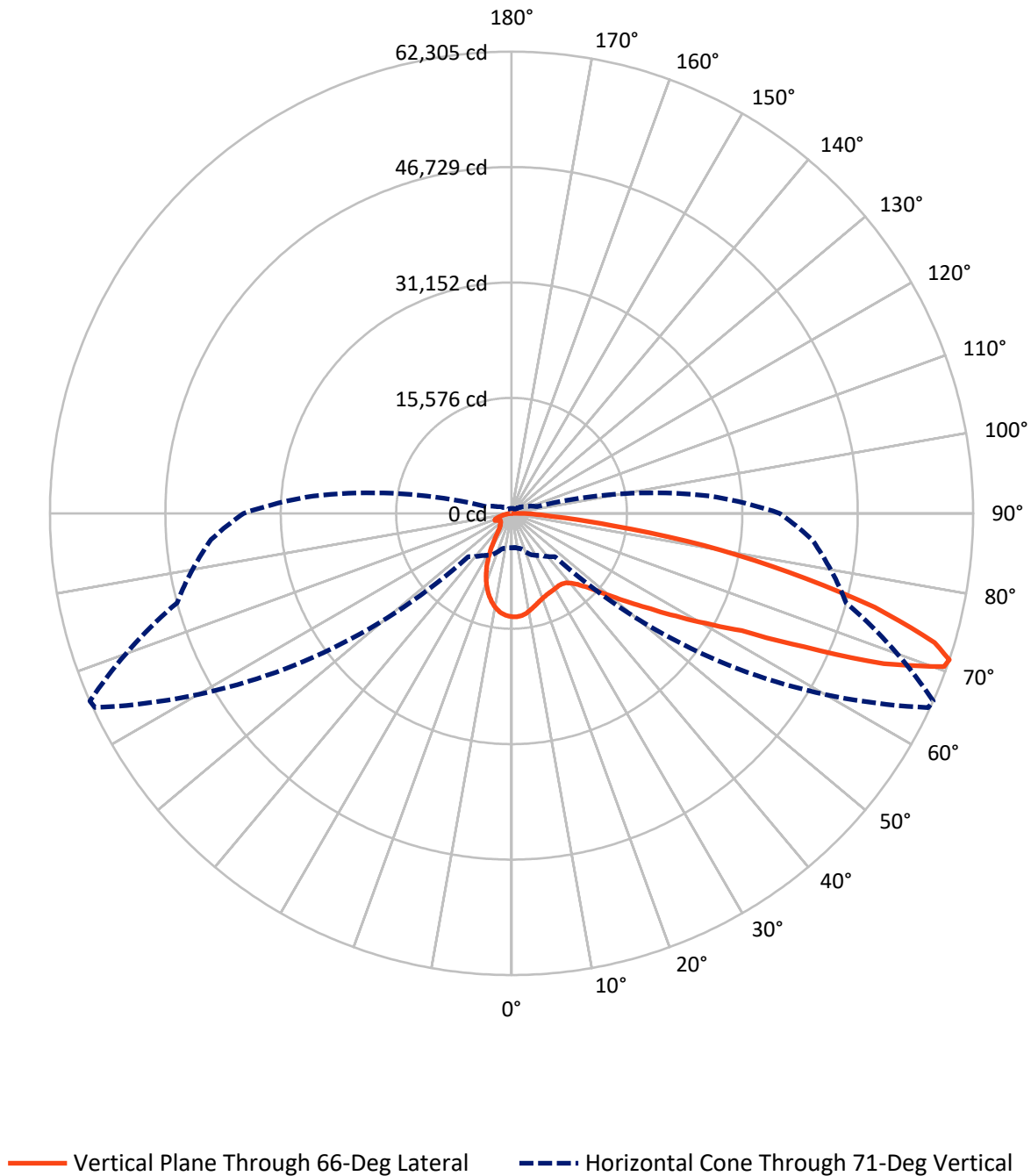
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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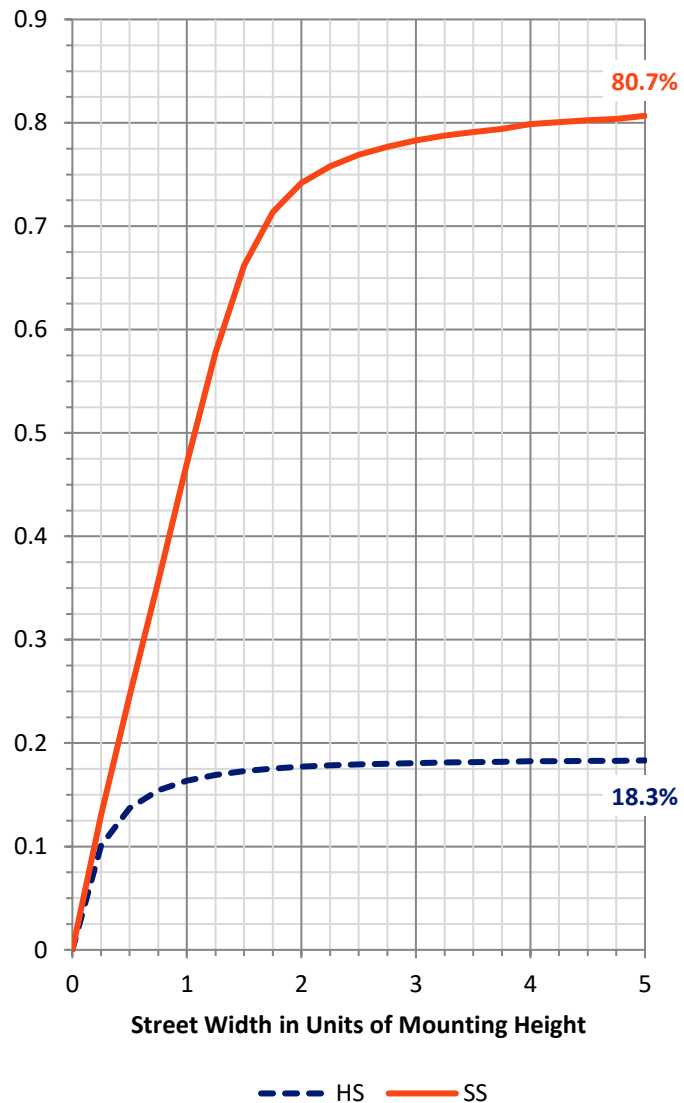
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11289.8	0.0	11289.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	49628.2	0.0	49628.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	60918.0	0.0	60918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.4	2.0
10°-20°	2946.2	4.8
20°-30°	3957.5	6.5
30°-40°	5206.0	8.5
40°-50°	7573.4	12.4
50°-60°	11830.4	19.4
60°-70°	14819.5	24.3
70°-80°	11304.0	18.6
80°-90°	2052.7	3.4
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°	60918.0	100.0
0°-180°	60918.0	100.0

Coefficient of Utilization



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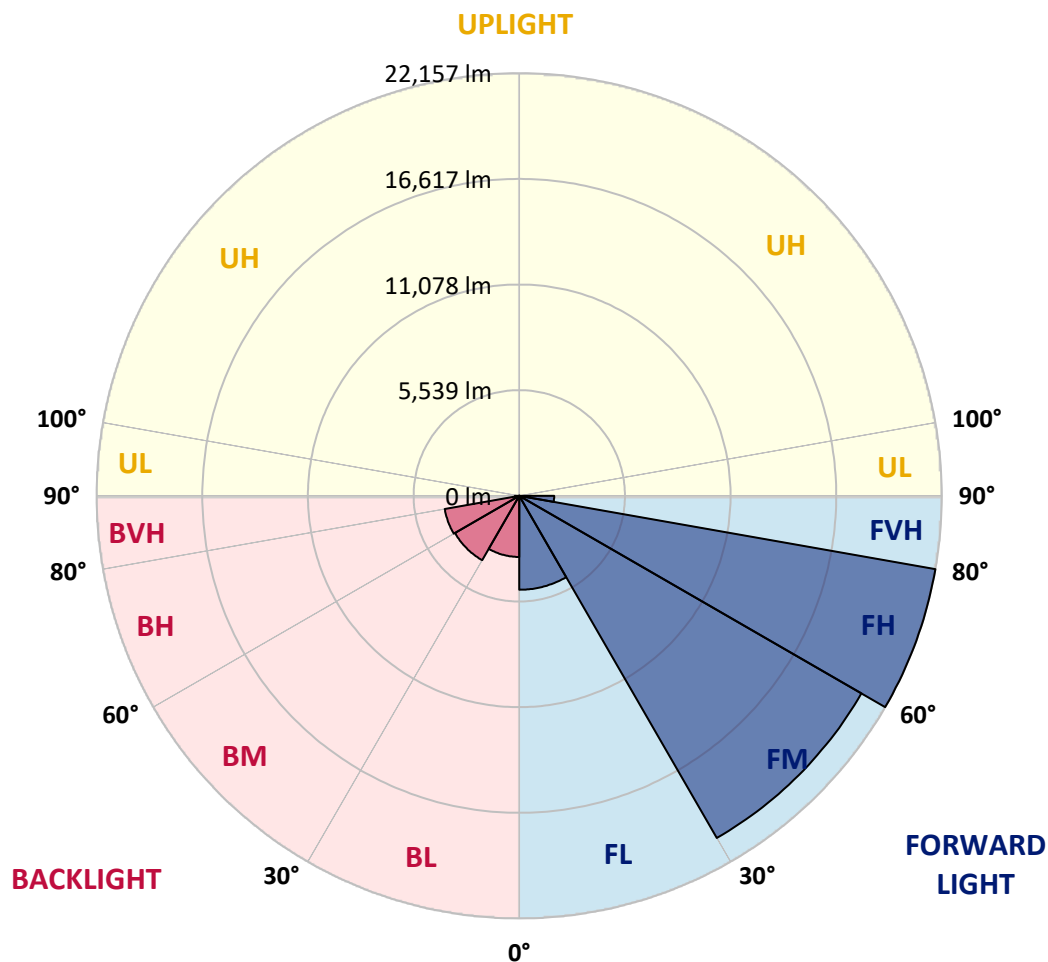
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4926.1	8.1			
FM	(30°-60°)	20715.2	34.0			
FH	(60°-80°)	22156.5	36.4			G5
FVH	(80°-90°)	1830.5	3.0			G5
BL	(0°-30°)	3206.0	5.3	B4/5000		
BM	(30°-60°)	3894.6	6.4	B3/5000		
BH	(60°-80°)	3967.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	222.2	0.4			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°	65°	66°	75°	85°
0°	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1
2.5°	13696.4	13675.4	13738.5	13803.7	13828.9	13871.0	13934.1	13969.9	13967.8	13974.1	13953.0
5°	12787.8	12760.5	12886.7	12989.7	13187.4	13410.4	13681.7	13875.2	13879.4	13988.8	14018.2
7.5°	11927.6	11908.7	12053.8	12219.9	12449.2	12789.9	13229.5	13646.0	13671.2	13967.8	14070.8
10°	11237.7	11233.5	11374.4	11555.3	11822.4	12203.1	12707.9	13317.8	13355.7	13866.8	14079.2
12.5°	10699.3	10707.7	10829.7	11035.8	11317.6	11715.2	12262.0	12949.8	13010.8	13706.9	14030.9
15°	10301.8	10335.4	10434.3	10642.5	10920.1	11324.0	11885.5	12609.0	12701.6	13528.2	14003.5
17.5°	10074.6	10112.5	10181.9	10354.4	10615.2	11004.3	11536.4	12329.3	12413.4	13391.5	14005.6
20°	10007.3	10038.9	10078.8	10184.0	10404.8	10758.2	11260.9	12076.9	12167.4	13282.1	14026.6
22.5°	10139.8	10163.0	10167.2	10158.7	10293.4	10581.5	11061.0	11891.8	11988.6	13210.6	14041.4
25°	10423.8	10455.3	10432.2	10354.4	10310.2	10486.9	10958.0	11769.8	11866.6	13158.0	14011.9
27.5°	10850.7	10854.9	10836.0	10735.0	10526.8	10497.4	10926.4	11698.3	11790.9	13097.0	13950.9
30°	11431.2	11458.6	11424.9	11288.2	10947.5	10665.6	10964.3	11628.9	11713.1	13019.2	13852.1
32.5°	12110.6	12177.9	12175.8	12032.8	11544.8	11042.1	11119.9	11586.9	11652.1	12937.2	13732.2
35°	12815.2	12907.7	13080.2	13019.2	12415.5	11637.3	11418.6	11654.2	11698.3	12926.6	13648.1
37.5°	13547.1	13639.6	13995.1	14159.2	13452.5	12489.2	11889.7	11891.8	11912.9	13054.9	13641.7
40°	14312.7	14411.5	14945.8	15372.7	14796.4	13568.1	12649.0	12388.2	12365.1	13370.4	13765.8
42.5°	15385.4	15473.7	16115.2	16659.9	16287.7	14950.0	13698.5	13153.8	13105.4	13988.8	14163.4
45°	16742.0	16817.7	17499.1	18081.7	17890.3	16527.4	15017.3	14207.5	14199.1	15019.4	14968.9
47.5°	18355.2	18414.0	19026.1	19589.8	19659.2	18342.5	16674.7	15833.3	15696.6	16432.8	16216.1
50°	20035.7	20100.9	20517.3	21123.0	21638.3	20771.8	18807.4	17825.1	17642.2	18298.4	17982.9
52.5°	21148.3	21234.5	21596.3	22364.0	23863.6	23434.5	21329.2	20239.7	19962.0	20559.4	20317.5
55°	20651.9	20845.4	21398.6	22629.0	25643.0	27502.2	24439.9	23055.9	22742.6	23238.9	23095.9
57.5°	18395.1	18660.1	19415.2	21314.4	25893.2	31086.2	29142.8	26372.8	26151.9	26008.9	26074.1
60°	14270.6	14525.1	15461.1	17936.6	24149.6	33702.6	36220.3	30461.5	30141.8	28789.4	28848.3
62.5°	10099.9	9971.6	10613.1	12424.0	19623.4	34009.7	44273.6	35930.0	34878.4	31725.6	31466.9
65°	7702.1	7672.7	7960.8	8537.1	11885.5	30335.3	49071.2	45121.3	43478.6	35179.1	34569.2
67.5°	6328.7	6276.1	6560.1	7399.3	7653.8	19570.8	49176.3	55784.8	54171.6	39478.2	38157.4
70°	5203.5	5144.6	5409.6	6492.8	7073.3	9925.3	41388.0	62029.4	61943.1	44921.4	40866.4
71°	4665.0	4623.0	4940.6	6143.6	6949.2	8272.1	35734.4	62046.2	62304.9	46763.9	40706.5
72.5°	3798.5	3813.2	4149.7	5468.5	6856.6	7304.6	26263.4	59154.2	59701.1	48520.1	39253.2
75°	2523.9	2536.5	2978.2	4206.5	6648.4	7146.9	14434.7	49637.0	50642.3	47468.5	35818.5
77.5°	1695.2	1691.0	1991.8	2885.7	5792.4	7146.9	8463.5	37124.7	38228.9	37770.4	27613.7
80°	1167.3	1158.9	1371.3	1991.8	4385.3	7233.1	6543.2	26017.3	26351.8	20397.4	11223.0
82.5°	715.1	721.4	896.0	1407.1	2984.5	6509.6	6177.3	14186.5	13822.6	5720.9	2803.6
85°	410.1	408.0	572.1	952.8	1916.1	5493.7	6023.7	6105.8	5601.0	1722.6	1013.8
87.5°	147.2	157.7	307.1	527.9	1097.9	3825.8	5110.9	3175.9	2862.5	778.2	458.5
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°	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1
2.5°	13938.3	13950.9	13936.2	13852.1	13780.6	13664.9	13599.7	13509.2	13481.9	13469.3	13502.9
5°	13990.9	13995.1	13871.0	13650.2	13402.0	13109.6	12899.3	12640.6	12518.6	12466.0	12499.7
7.5°	14039.3	14020.3	13749.0	13326.3	12867.7	12358.8	11906.6	11492.2	11250.3	11151.5	11159.9
10°	14045.6	13965.7	13530.3	12876.2	12165.3	11418.6	10724.5	10085.1	9681.3	9418.4	9498.3
12.5°	13980.4	13845.8	13208.5	12293.6	11307.1	10289.2	9351.1	8392.0	7815.7	7548.6	7557.0
15°	13929.9	13685.9	12813.1	11607.9	10282.8	8934.7	7653.8	6526.4	5912.3	5638.8	5510.5
17.5°	13887.8	13513.4	12354.6	10836.0	9073.5	7363.5	5823.9	4818.6	4482.0	4402.1	4368.5
20°	13828.9	13330.5	11843.5	9942.1	7695.8	5605.2	4252.8	3756.4	3758.5	3851.1	3863.7
22.5°	13746.9	13122.2	11298.7	8938.9	6217.2	4082.4	3333.7	3190.6	3335.8	3512.4	3544.0
25°	13624.9	12876.2	10693.0	7830.4	4740.7	3138.1	2847.8	2841.5	3018.2	3203.3	3230.6
27.5°	13452.5	12554.4	10019.9	6640.0	3493.5	2666.9	2551.3	2595.4	2725.8	2860.4	2871.0
30°	13221.1	12180.0	9277.5	5384.3	2738.4	2374.6	2362.0	2401.9	2481.8	2576.5	2584.9
32.5°	12966.6	11799.3	8484.6	4168.7	2345.1	2216.8	2229.5	2248.4	2286.2	2324.1	2332.5
35°	12735.2	11410.2	7672.7	3167.5	2157.9	2113.8	2105.4	2101.2	2105.4	2092.7	2094.8
37.5°	12585.9	11088.4	6827.2	2521.8	2050.7	2023.3	1998.1	1966.5	1930.8	1909.8	1914.0
40°	12531.2	10848.6	5971.2	2179.0	1962.3	1943.4	1895.0	1827.7	1785.7	1773.0	1773.0
42.5°	12678.5	10724.5	5144.6	2006.5	1888.7	1857.2	1777.3	1699.4	1667.9	1665.8	1663.7
45°	13128.6	10775.0	4358.0	1911.9	1821.4	1760.4	1655.3	1590.1	1569.0	1573.2	1571.1
47.5°	13936.2	11092.6	3684.9	1848.8	1754.1	1674.2	1556.4	1503.8	1478.6	1478.6	1480.7
50°	15309.6	11835.0	3148.6	1796.2	1697.3	1594.3	1484.9	1419.7	1386.0	1383.9	1383.9
52.5°	17309.8	13164.3	2814.2	1752.0	1634.2	1522.8	1413.4	1331.4	1291.4	1283.0	1278.8
55°	19816.9	15069.9	2721.6	1722.6	1550.1	1444.9	1327.2	1245.1	1201.0	1182.0	1179.9
57.5°	22620.6	17387.7	2904.6	1686.8	1463.9	1352.4	1232.5	1154.7	1108.4	1085.3	1083.2
60°	25457.9	19917.9	3651.3	1636.3	1392.4	1251.4	1135.8	1064.2	1018.0	992.7	988.5
62.5°	28299.4	22584.8	5176.1	1632.1	1341.9	1154.7	1036.9	975.9	931.7	904.4	898.1
65°	31504.7	25504.1	6909.2	1743.6	1325.1	1066.4	936.0	887.6	849.7	824.5	822.4
67.5°	35185.4	28799.9	6743.1	1972.9	1381.8	986.4	841.3	803.4	776.1	755.1	753.0
70°	36912.2	28284.6	4191.8	2134.8	1461.8	908.6	750.9	723.5	702.5	687.8	681.5
71°	36188.7	26856.5	3514.5	2115.9	1453.4	875.0	715.1	694.1	673.0	660.4	654.1
72.5°	34215.8	24492.5	2931.9	1968.7	1358.7	814.0	668.8	647.8	628.9	614.2	609.9
75°	30703.4	21873.9	2347.2	1573.2	1083.2	687.8	586.8	563.7	549.0	540.5	532.1
77.5°	22570.1	15610.4	1815.1	1243.0	797.1	561.6	500.6	483.7	469.0	456.4	450.1
80°	8646.5	6046.9	1222.0	927.5	584.7	443.8	403.8	395.4	380.7	372.3	372.3
82.5°	2328.3	1806.7	652.0	561.6	391.2	323.9	309.2	305.0	292.4	275.5	277.6
85°	942.3	797.1	366.0	309.2	239.8	191.4	208.2	210.3	195.6	174.6	176.7
87.5°	414.3	338.6	204.0	136.7	105.2	73.6	94.6	94.6	86.2	71.5	65.2
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)