

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: P322042

Luminaire Tested: **GAN-SA8B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23951 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 334
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



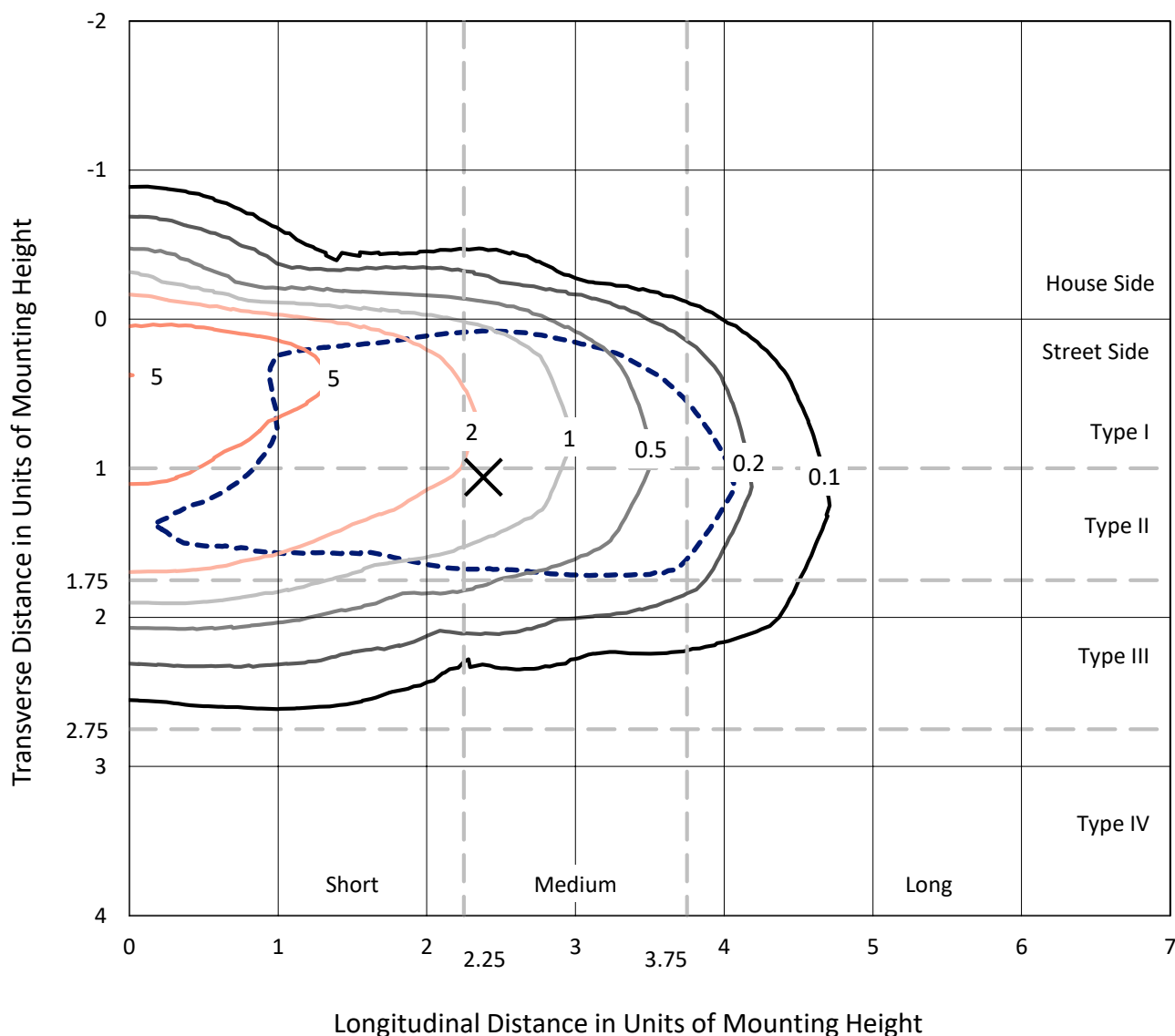
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

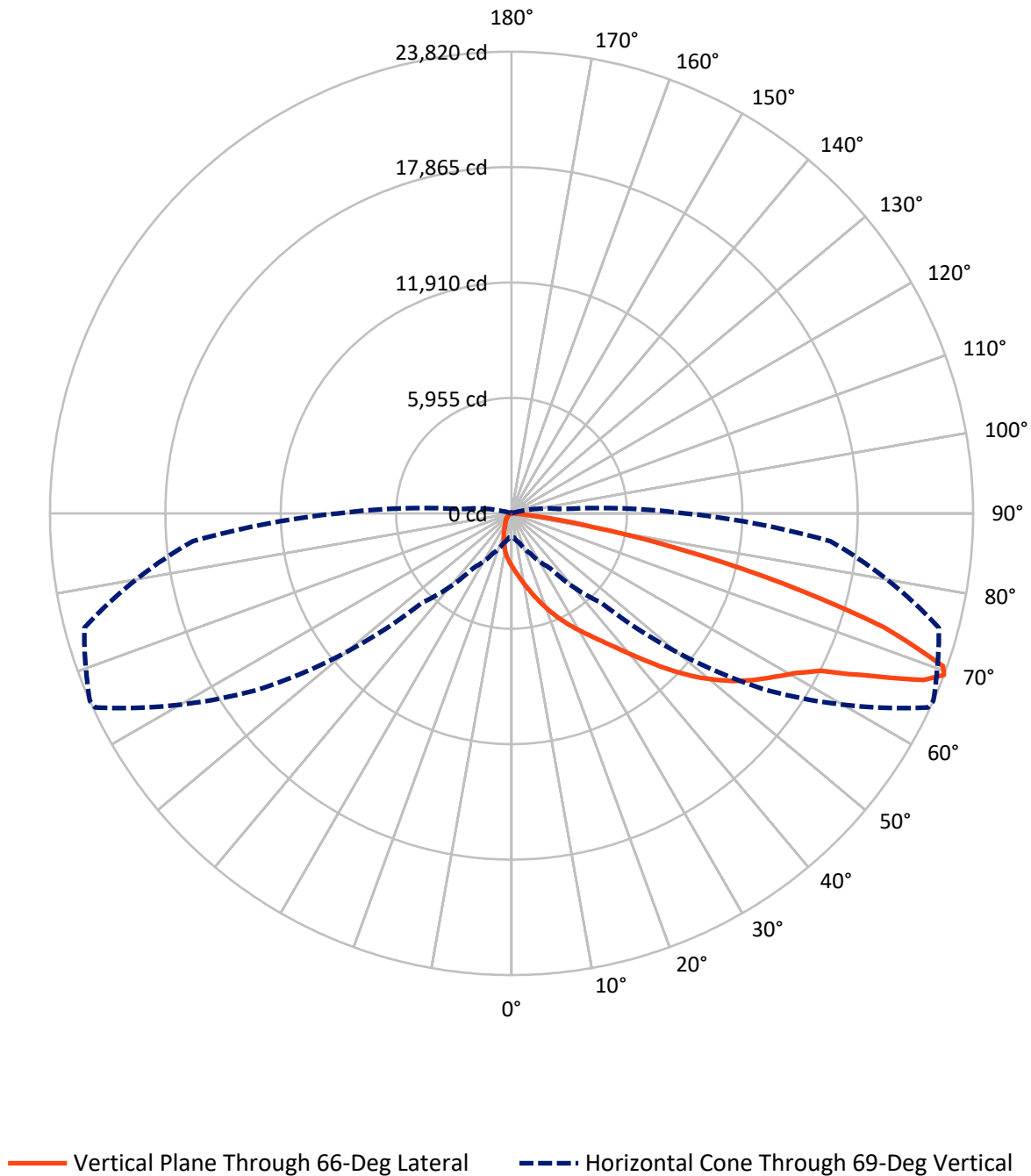
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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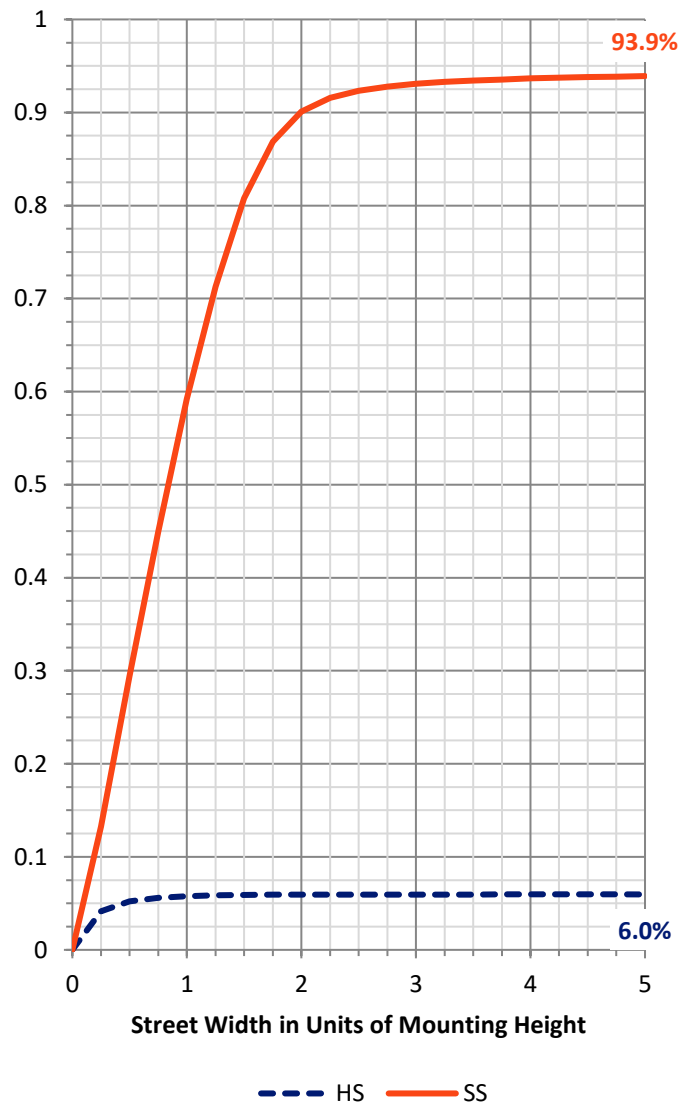
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.7	0.0	1436.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22514.3	0.0	22514.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	23951.0	0.0	23951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	1.1
10°-20°	784.2	3.3
20°-30°	1365.5	5.7
30°-40°	2395.7	10.0
40°-50°	4010.1	16.7
50°-60°	5894.5	24.6
60°-70°	6052.2	25.3
70°-80°	2987.8	12.5
80°-90°	197.6	0.8
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°	23951.0	100.0
0°-180°	23951.0	100.0

Coefficient of Utilization



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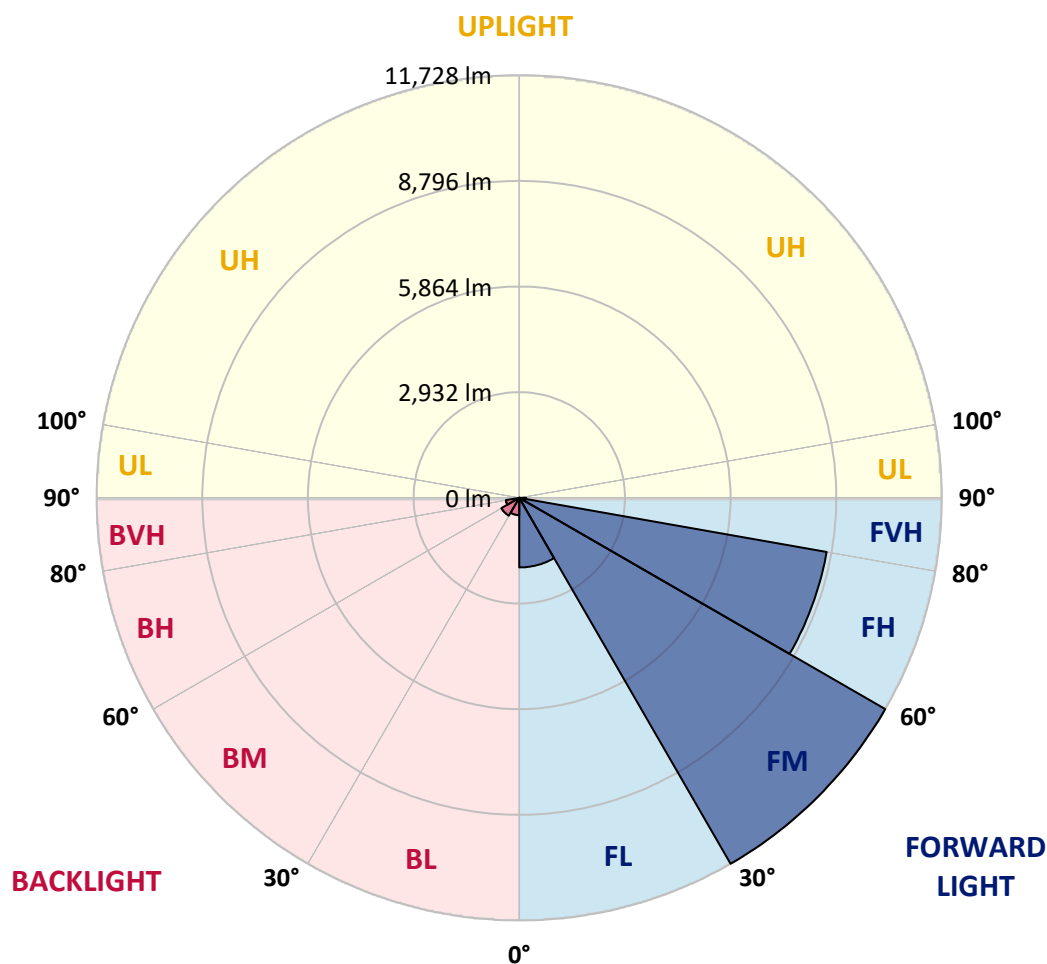
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.6	8.1			
FM	(30°-60°)	11727.5	49.0			
FH	(60°-80°)	8661.3	36.2			G4/12000
FVH	(80°-90°)	192.8	0.8			G2/225
BL	(0°-30°)	480.5	2.0	B1/500		
BM	(30°-60°)	572.8	2.4	B1/1000		
BH	(60°-80°)	378.6	1.6	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	3208.0	3194.4	3188.7	3163.7	3120.4	3087.5	3023.8	2949.8	2936.2	2864.5	2776.9
5°	3624.4	3613.0	3605.1	3569.8	3525.4	3442.4	3326.4	3188.7	3162.5	3026.0	2850.8
7.5°	3914.5	3935.0	3935.0	3912.2	3856.5	3793.9	3651.7	3464.0	3431.0	3221.7	2949.8
10°	4084.0	4109.0	4128.4	4147.7	4139.7	4114.7	3980.5	3768.9	3729.1	3451.5	3064.7
12.5°	4099.9	4125.0	4179.6	4260.3	4338.8	4395.7	4311.5	4106.8	4061.2	3717.7	3201.2
15°	4011.2	4037.4	4121.5	4278.5	4468.5	4634.6	4661.9	4481.0	4434.4	4035.1	3371.9
17.5°	3856.5	3873.5	3994.1	4211.4	4509.5	4814.3	4979.3	4882.6	4839.4	4398.0	3561.8
20°	3741.6	3754.1	3859.9	4093.1	4484.4	4927.0	5279.6	5309.2	5263.7	4787.0	3767.7
22.5°	3938.4	3961.1	3964.6	4074.9	4416.2	4982.7	5543.5	5729.0	5694.8	5200.0	3970.2
25°	4476.5	4502.6	4416.2	4347.9	4474.2	5007.7	5769.9	6159.0	6131.7	5644.8	4173.9
27.5°	5187.5	5214.8	5103.3	4899.7	4777.9	5102.2	5971.3	6595.8	6594.7	6115.8	4393.4
30°	5886.0	5913.3	5799.5	5595.9	5316.0	5369.5	6145.3	7053.1	7060.0	6601.5	4626.6
32.5°	6618.6	6652.7	6535.5	6273.9	5981.5	5831.4	6389.9	7512.7	7551.4	7164.6	4889.4
35°	7451.3	7455.9	7290.9	7016.7	6680.0	6449.1	6782.4	8028.1	8120.2	7862.0	5222.7
37.5°	8268.1	8301.1	8165.7	7733.4	7424.0	7162.4	7366.0	8672.0	8802.8	8714.1	5658.4
40°	8873.3	8942.7	8923.4	8457.0	8163.5	7976.9	8090.6	9437.6	9603.7	9706.0	6207.9
42.5°	9253.3	9305.6	9394.3	9113.4	8847.2	8877.9	8946.1	10329.5	10534.2	10836.8	6839.3
45°	9689.0	9714.0	9788.0	9664.0	9484.2	9793.6	9853.9	11334.0	11549.0	12052.9	7540.0
47.5°	10221.4	10280.5	10301.0	10187.2	10105.3	10603.6	10728.7	12247.5	12548.9	13355.5	8281.8
50°	10899.4	10915.3	10950.6	10876.6	10794.7	11299.8	11513.7	13206.5	13480.6	14662.6	9013.2
52.5°	11562.6	11619.5	11742.4	11695.7	11662.7	11892.5	12213.3	14071.0	14377.0	15752.4	9743.6
55°	11753.7	11802.6	12227.0	12517.1	12785.5	12622.9	12882.2	14845.7	15176.8	16726.2	10446.6
57.5°	10990.4	11089.4	11824.3	12579.6	13693.3	13758.2	13801.4	15640.9	15937.8	17472.5	11178.1
60°	9061.0	9080.4	10286.2	11582.0	13543.2	14749.0	15143.8	16495.3	16744.4	18167.5	12054.1
62.5°	5763.1	5959.9	7282.9	9112.2	11955.1	14605.7	16767.2	17787.6	17878.6	19001.4	13310.0
65°	2745.0	2872.5	3825.8	5630.0	8659.4	12770.7	17887.7	20125.4	20166.3	20654.3	14987.9
67.5°	1519.8	1581.3	2035.2	3030.6	5062.3	9031.4	17434.9	22894.3	22933.0	22342.6	16460.0
69°	1188.8	1241.1	1598.3	2284.3	3432.2	6491.2	15777.4	23705.4	23820.3	22826.0	16512.3
70°	1009.1	1060.2	1376.5	1929.4	2759.8	5015.7	14043.7	23504.0	23625.8	22780.5	16122.1
72.5°	617.7	647.3	916.9	1358.3	1849.7	2523.2	8660.6	19877.4	20083.3	20896.7	13856.0
75°	416.4	432.3	573.4	937.4	1323.0	1299.1	4499.2	14010.7	14456.7	16255.2	10233.9
77.5°	298.1	312.8	384.5	606.3	927.1	857.8	2037.4	8707.2	8802.8	9749.3	5581.1
80°	169.5	183.2	271.9	360.6	629.1	572.2	810.0	4159.1	4206.9	4180.7	1863.4
82.5°	88.7	100.1	149.0	237.8	403.8	374.3	336.7	1392.4	1399.3	1163.8	408.4
85°	17.1	20.5	73.9	162.7	208.2	162.7	137.7	326.5	333.3	294.6	101.2
87.5°	0.0	1.1	29.6	36.4	41.0	42.1	44.4	63.7	68.3	92.1	27.3
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°	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	2738.2	2697.3	2618.8	2527.8	2457.2	2387.8	2333.2	2276.3	2255.9	2245.6	2244.5
5°	2765.5	2679.1	2513.0	2342.3	2202.4	2070.4	1976.0	1886.1	1844.1	1824.7	1816.8
7.5°	2811.0	2672.2	2404.9	2144.4	1943.0	1778.1	1647.3	1549.4	1500.5	1480.0	1472.1
10°	2864.5	2663.1	2278.6	1935.1	1678.0	1507.3	1377.6	1280.9	1227.5	1204.7	1193.3
12.5°	2927.1	2647.2	2133.0	1723.5	1451.6	1280.9	1124.0	1004.5	943.1	916.9	904.4
15°	3004.4	2631.3	1980.6	1524.4	1252.5	1044.3	872.5	791.8	779.3	774.7	775.8
17.5°	3080.6	2606.3	1814.5	1327.6	1043.2	815.7	728.1	723.5	725.8	725.8	725.8
20°	3148.9	2549.4	1633.6	1159.2	844.1	688.3	670.0	662.1	656.4	651.8	646.2
22.5°	3202.4	2473.2	1459.5	992.0	689.4	630.2	601.8	576.8	556.3	542.6	535.8
25°	3238.8	2371.9	1300.3	831.6	620.0	573.4	522.2	480.1	448.2	428.9	420.9
27.5°	3266.1	2262.7	1158.1	696.2	572.2	507.4	440.3	390.2	357.2	340.1	333.3
30°	3285.4	2138.7	1032.9	612.0	518.7	438.0	366.3	317.4	293.5	284.4	279.9
32.5°	3303.6	2001.0	914.6	572.2	468.7	374.3	307.2	269.6	254.8	243.4	240.0
35°	3349.1	1873.6	802.0	530.1	417.5	319.7	263.9	236.6	221.8	215.0	212.7
37.5°	3457.2	1779.2	693.9	486.9	366.3	276.4	230.9	211.6	197.9	191.1	188.8
40°	3631.2	1731.4	602.9	440.3	316.3	243.4	209.3	191.1	176.3	166.1	163.8
42.5°	3887.2	1738.3	539.2	393.6	276.4	217.3	188.8	167.2	151.3	142.2	139.9
45°	4197.8	1788.3	494.9	348.1	243.4	196.8	166.1	143.3	128.5	120.6	118.3
47.5°	4534.5	1869.1	458.5	307.2	217.3	177.5	143.3	119.4	106.9	100.1	99.0
50°	4889.4	1947.6	420.9	267.3	194.5	158.1	120.6	99.0	88.7	83.0	80.8
52.5°	5248.9	2038.6	386.8	230.9	175.2	135.4	100.1	80.8	72.8	68.3	66.0
55°	5635.7	2106.8	353.8	202.5	155.9	114.9	83.0	67.1	60.3	54.6	53.5
57.5°	6090.7	2212.6	319.7	175.2	133.1	95.6	68.3	53.5	47.8	42.1	41.0
60°	6705.0	2336.6	283.3	154.7	109.2	78.5	55.7	43.2	36.4	31.9	30.7
62.5°	7515.0	2474.3	237.8	135.4	88.7	63.7	44.4	34.1	26.2	20.5	20.5
65°	8542.3	2698.4	194.5	113.8	72.8	52.3	34.1	25.0	14.8	9.1	9.1
67.5°	9141.8	2737.1	157.0	93.3	59.2	44.4	28.4	17.1	4.6	1.1	0.0
69°	8949.5	2513.0	133.1	79.6	51.2	42.1	26.2	12.5	2.3	0.0	0.0
70°	8587.8	2298.0	117.2	70.5	46.6	39.8	25.0	9.1	2.3	0.0	0.0
72.5°	7096.4	1635.9	88.7	52.3	34.1	35.3	22.8	5.7	2.3	0.0	0.0
75°	5169.3	994.3	63.7	36.4	21.6	26.2	15.9	2.3	1.1	0.0	0.0
77.5°	2875.9	468.7	39.8	20.5	13.7	15.9	8.0	0.0	0.0	0.0	0.0
80°	934.0	127.4	18.2	11.4	8.0	9.1	3.4	0.0	0.0	0.0	0.0
82.5°	172.9	36.4	10.2	5.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	37.5	14.8	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)