

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: P324182

Luminaire Tested: **GAN-SA8D-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46101 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

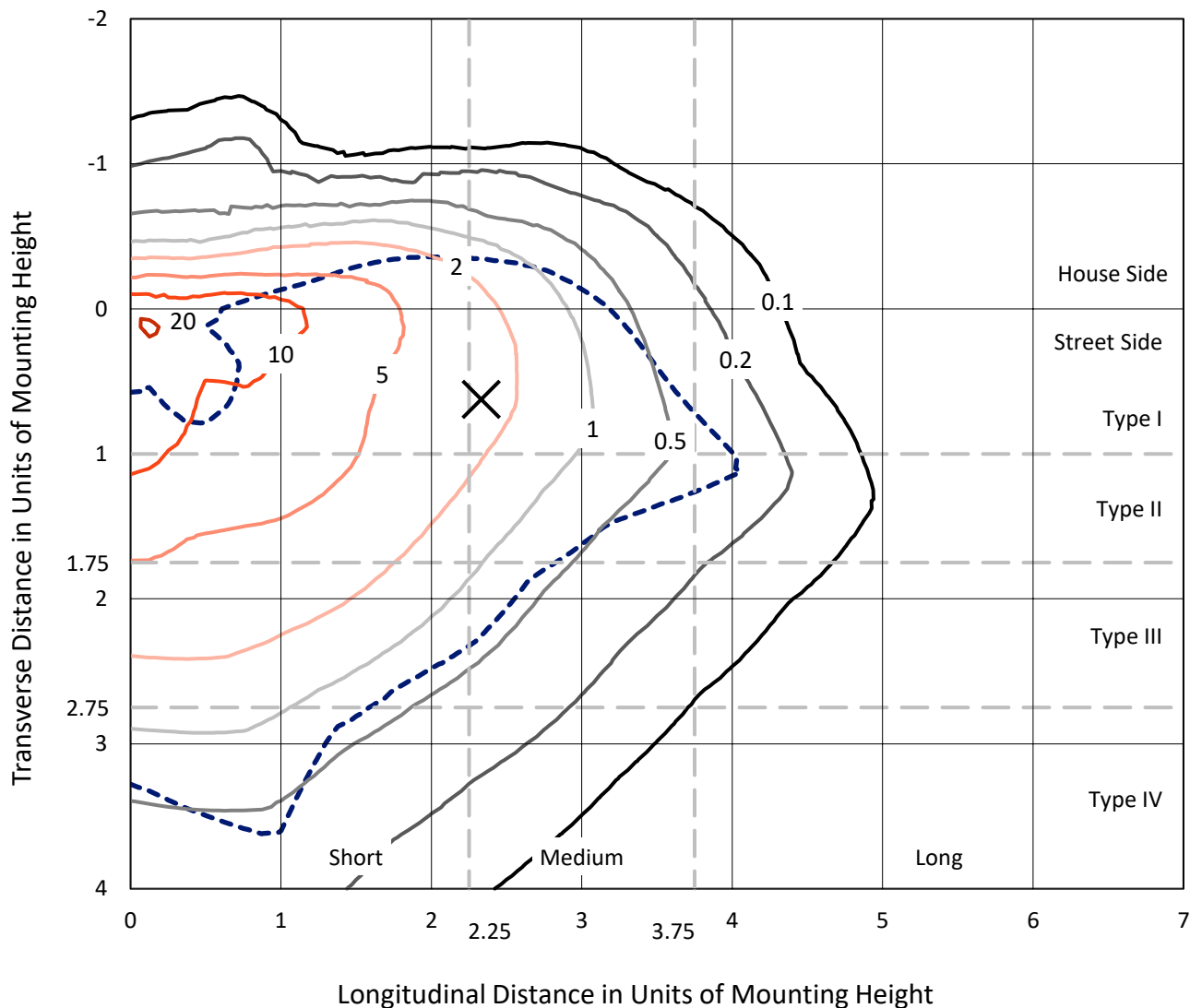
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

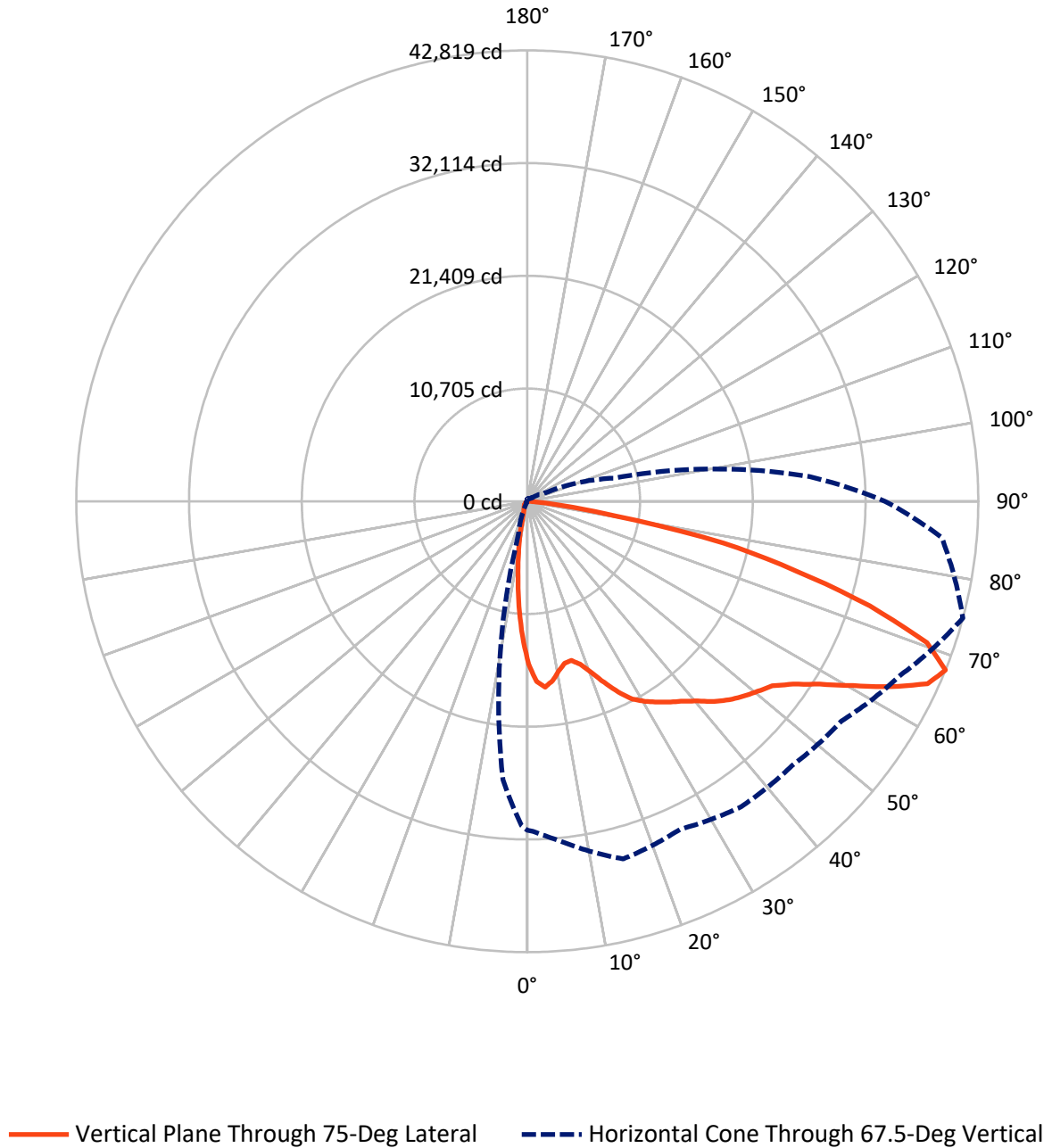
× Max cd
 - - - 1/2 Max cd



Based on 30 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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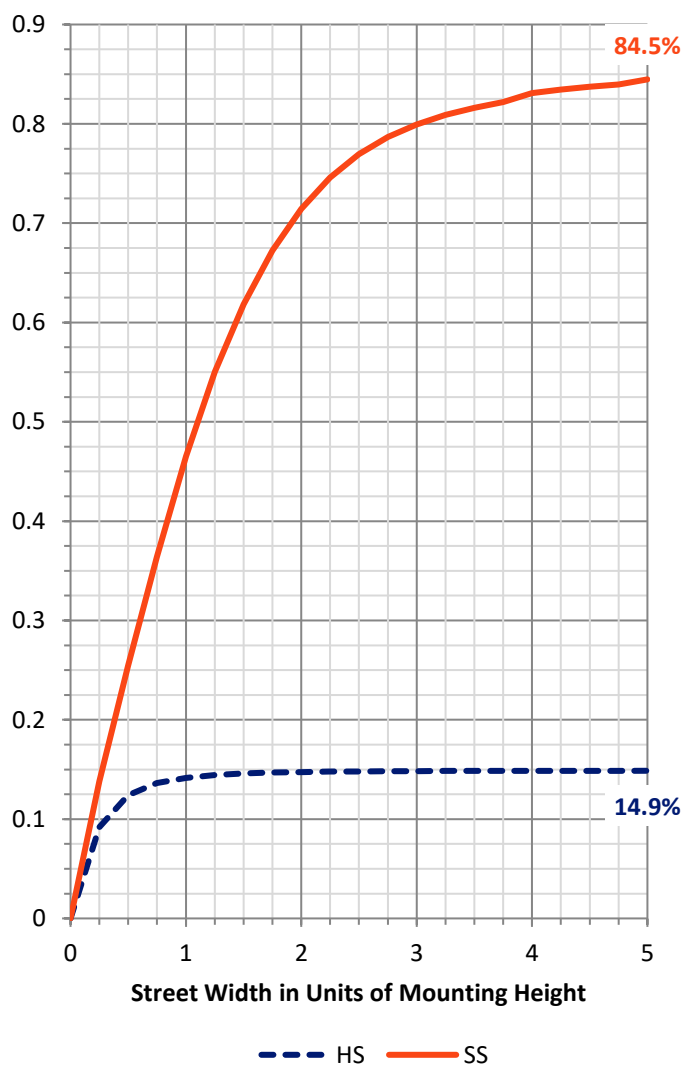
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6917.9	0.0	6917.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39183.1	0.0	39183.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	46101.0	0.0	46101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1173.2	2.5
10°-20°	2310.0	5.0
20°-30°	3268.0	7.1
30°-40°	4804.9	10.4
40°-50°	6906.2	15.0
50°-60°	9722.1	21.1
60°-70°	11354.5	24.6
70°-80°	5792.7	12.6
80°-90°	769.5	1.7
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°	46101.0	100.0
0°-180°	46101.0	100.0

Coefficient of Utilization



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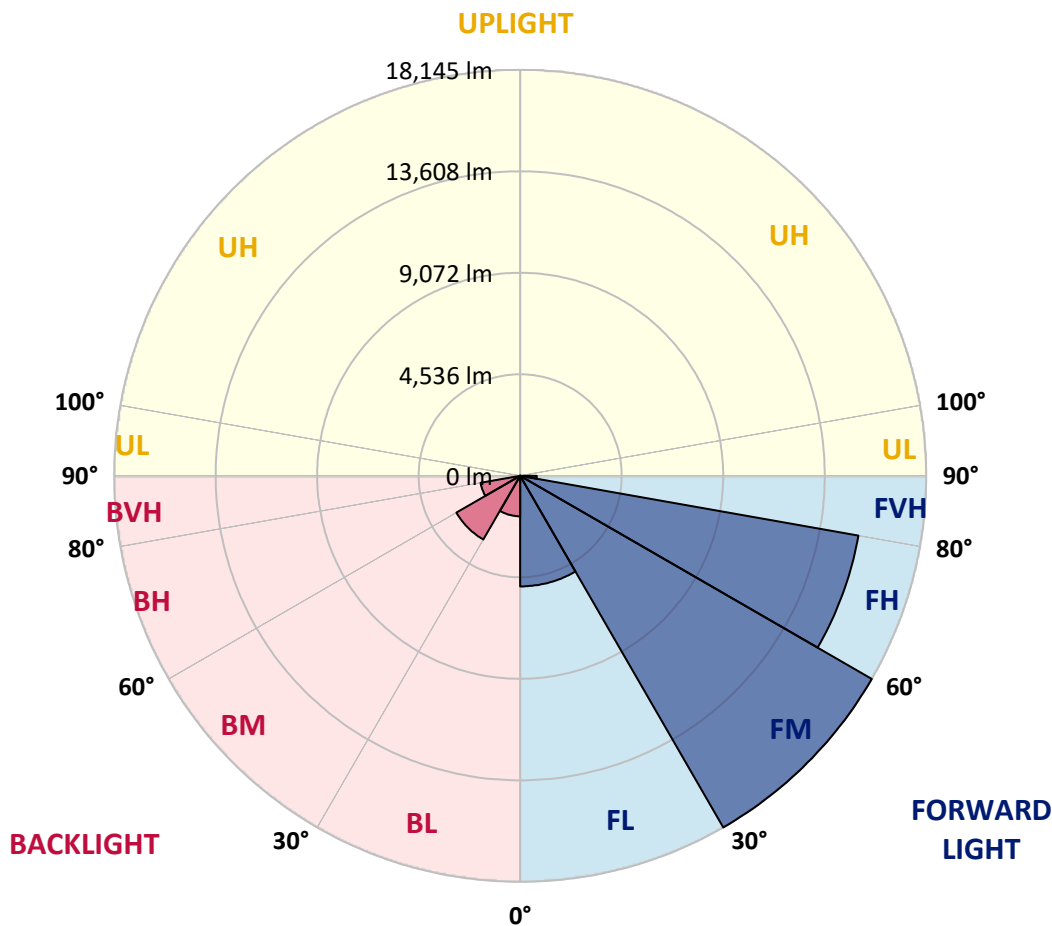
CATALOG NUMBER: GAN-SA8D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4942.0	10.7			
FM (30°-60°)	18144.5	39.4			
FH (60°-80°)	15350.3	33.3			G5
FVH (80°-90°)	746.2	1.6			G4/750
BL (0°-30°)	1809.1	3.9	B3/2500		
BM (30°-60°)	3288.6	7.1	B3/5000		
BH (60°-80°)	1796.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	23.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1
2.5°	16765.5	16791.7	16927.1	17241.6	17584.4	17610.6	17842.1	17604.1	17523.3	17138.9	16741.5
5°	16892.2	16992.6	17457.8	18381.6	19183.0	19440.7	19624.2	19156.8	18665.5	17726.4	16724.0
7.5°	15872.3	16040.5	16772.0	18506.0	19938.6	20572.0	20692.1	19960.5	18757.2	17211.0	15704.1
10°	14566.3	14758.5	15640.8	17772.3	19739.9	20825.3	20991.3	20032.5	18302.9	16376.8	14601.3
12.5°	13509.4	13734.3	14636.2	16946.8	19056.4	20257.5	20585.1	19790.1	17909.8	15784.9	13847.9
15°	13022.4	13280.1	14227.8	16413.9	18298.6	19244.2	19515.0	19172.1	17691.5	15691.0	13673.1
17.5°	13301.9	13581.4	14559.8	16459.8	17586.6	17990.6	18209.0	18348.8	17691.5	16256.7	14184.2
20°	14448.4	14749.8	15784.9	16924.9	16997.0	16846.3	17080.0	17571.3	17896.7	17331.1	15411.5
22.5°	16033.9	16387.7	17556.1	17722.0	16708.7	16138.7	16169.3	16940.2	18270.2	18693.8	17114.9
25°	17966.6	18399.0	19587.0	18910.0	16828.8	15717.2	15706.3	16420.4	18634.9	20058.8	19012.7
27.5°	19886.2	20362.3	21406.2	20360.1	17324.6	15640.8	15619.0	16263.2	18990.8	21273.0	21085.2
30°	21495.7	21958.7	22858.5	21410.6	17859.6	15819.9	15715.1	16431.4	19202.7	22061.4	22596.4
32.5°	22806.1	23177.3	23904.5	22133.4	18431.8	16167.1	15940.0	16881.2	19563.0	22727.4	23985.3
35°	24247.4	24638.3	24928.8	22821.3	19073.8	16667.2	16341.8	17595.4	20117.7	23404.4	25507.5
37.5°	25891.8	26280.6	26245.6	23450.3	19888.4	17494.9	17287.4	18726.6	20980.3	24074.9	27206.5
40°	27501.3	27898.8	27614.9	24138.2	20844.9	18859.8	18706.9	20425.6	22135.6	24933.1	29198.2
42.5°	29008.2	29438.4	28831.3	24789.0	21984.9	20580.7	20842.8	22613.9	23581.3	25990.1	30914.7
45°	30222.4	30661.4	29851.2	25422.3	23186.0	22668.5	23456.8	25038.0	25319.7	26883.3	32074.4
47.5°	31104.7	31519.7	30558.8	26055.6	24723.5	25221.4	26595.0	27580.0	26889.9	27658.6	32897.7
50°	31668.2	31991.4	30766.2	26848.4	26741.4	28200.2	29864.3	30344.7	28368.3	28357.4	33897.9
52.5°	32026.3	32172.6	30919.1	27676.1	28846.6	31443.2	33065.8	33216.5	29890.5	29126.1	35245.3
55°	33260.2	33378.1	32002.3	28678.5	30587.1	34284.4	35961.6	35821.9	31613.6	30630.8	36835.2
57.5°	35365.4	35489.9	34240.7	30119.8	31995.7	36040.2	38060.3	38311.5	33633.6	32744.8	38538.6
60°	36422.4	36653.9	36208.4	31945.5	33360.6	37162.7	39490.7	40292.2	36158.2	35531.4	40189.6
62.5°	35463.7	35800.0	36446.4	33969.9	34716.8	37780.8	39936.2	41002.0	38743.9	38778.8	41207.3
65°	33550.6	33819.3	34915.6	35079.3	35503.0	37704.3	38835.6	40010.5	40327.2	41762.0	41152.7
67.5°	31240.1	31340.6	32270.9	35166.7	34363.0	35406.9	35529.2	36398.4	39075.8	42818.9	39499.5
70°	27914.1	27968.7	28781.1	32242.5	29530.2	29759.5	29578.2	29755.1	33594.3	40244.2	35326.1
72.5°	22465.4	22603.0	23758.2	26776.3	21513.2	20851.5	22275.4	22196.8	25872.2	34000.5	26236.9
75°	16540.6	16778.6	18523.5	21567.8	15099.2	13657.9	14697.4	14974.7	18392.5	26300.2	16407.3
77.5°	11581.0	11757.9	13448.2	15854.8	10928.0	9766.2	9390.6	9720.4	12140.1	19025.8	8265.9
80°	6671.7	6737.2	7816.0	9154.7	7364.0	8425.3	7632.6	7859.7	7274.4	8464.6	3555.3
82.5°	4365.5	4376.5	4797.9	5448.7	4586.1	5328.6	3944.1	5042.5	4474.7	3400.3	1157.4
85°	2358.6	2371.7	2782.2	3867.6	2596.6	1467.6	862.6	1771.1	2767.0	779.6	316.7
87.5°	259.9	238.0	838.6	1406.4	720.7	133.2	45.9	198.7	443.3	50.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1
2.5°	16538.4	16357.1	15905.1	15426.8	15042.4	14682.1	14319.6	13876.2	13533.4	13463.5	13349.9
5°	16184.6	15610.2	14662.4	13710.3	12943.7	11976.3	11362.6	10884.4	10417.0	10388.6	10294.7
7.5°	14948.5	14192.9	12858.6	11541.7	10462.9	9541.3	8611.0	7988.6	7499.4	7326.9	7224.2
10°	13760.5	12911.0	11244.7	9742.2	8779.1	7964.5	7309.4	6658.6	6068.9	5662.7	5479.3
12.5°	12930.6	11991.6	10154.9	8859.9	8169.8	7396.7	6597.4	5785.0	5105.9	4616.7	4317.5
15°	12609.6	11607.2	9790.2	8510.5	7658.8	6680.4	5658.4	4730.2	3976.8	3533.5	3264.9
17.5°	12991.8	11825.6	9761.9	8084.6	6894.4	5678.0	4549.0	3452.7	2742.9	2406.6	2234.1
20°	13961.4	12520.1	9750.9	7562.7	5986.0	4490.0	3081.4	2271.2	1841.0	1653.2	1572.4
22.5°	15332.9	13406.7	9838.3	7047.3	5040.3	3208.1	2127.1	1668.5	1447.9	1347.4	1301.6
25°	17097.4	14651.5	10085.1	6580.0	4151.5	2393.5	1657.5	1397.7	1242.6	1164.0	1131.2
27.5°	18977.7	16084.1	10469.4	6173.8	3428.7	1908.7	1419.5	1196.8	1085.4	1030.8	1000.2
30°	20528.3	17743.9	10858.2	5721.7	2904.5	1664.1	1299.4	1091.9	963.1	928.1	899.8
32.5°	21884.5	18999.6	11133.3	5313.3	2561.7	1478.5	1174.9	976.2	888.8	821.1	790.6
35°	23288.7	20045.7	11124.6	5027.2	2325.8	1338.7	1070.1	873.5	768.7	690.1	666.1
37.5°	24808.7	21227.1	10934.6	4782.7	2223.2	1227.3	1011.1	818.9	714.1	635.5	604.9
40°	26588.5	22467.6	10740.2	4553.3	2194.8	1137.8	969.6	775.3	663.9	587.5	556.9
42.5°	28322.5	23585.7	10569.9	4383.0	2072.5	1135.6	932.5	742.5	624.6	550.3	515.4
45°	29709.2	24627.4	10537.1	4280.4	1943.6	1174.9	912.9	720.7	594.0	519.8	487.0
47.5°	30862.3	25758.6	10746.8	4208.3	1821.3	1072.3	960.9	705.4	565.6	493.6	456.4
50°	32233.8	27147.6	11240.3	4090.4	1692.5	965.3	1100.7	709.8	541.6	467.3	428.0
52.5°	34146.8	29069.4	11965.4	3891.6	1515.6	867.0	1083.2	714.1	515.4	439.0	399.6
55°	36291.4	31469.4	12745.0	3561.9	1268.8	738.1	928.1	683.5	465.2	408.4	371.3
57.5°	38545.1	33646.7	13208.0	3168.8	1008.9	637.7	742.5	622.4	410.6	366.9	342.9
60°	38898.9	34474.4	12996.2	2686.1	801.5	554.7	550.3	633.3	366.9	323.2	305.7
62.5°	38018.8	33434.9	11971.9	2255.9	670.4	487.0	452.1	552.5	331.9	288.3	270.8
65°	36326.3	30624.3	10312.2	2033.2	622.4	417.1	375.6	388.7	290.5	251.1	235.9
67.5°	33972.1	26872.4	8466.8	1906.5	615.8	358.2	321.0	294.8	251.1	218.4	205.3
70°	29158.9	22386.7	6754.7	1836.6	598.4	301.4	270.8	240.2	209.7	185.6	174.7
72.5°	21460.8	15863.6	5254.4	1760.2	602.7	240.2	235.9	198.7	168.2	144.1	139.8
75°	12400.0	9063.0	3446.1	1426.1	574.4	185.6	196.5	139.8	117.9	100.5	100.5
77.5°	6608.4	5527.3	1312.5	594.0	209.7	117.9	111.4	83.0	74.3	61.1	59.0
80°	2880.5	2432.8	395.3	166.0	115.7	63.3	41.5	37.1	32.8	26.2	24.0
82.5°	1019.9	880.1	128.8	80.8	50.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	231.5	166.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1
2.5°	13118.4	13070.4	12786.5	12797.4	12847.6	12919.7	12749.4	12828.0	13039.8	13242.9	13319.4
5°	10144.0	10154.9	9982.4	10089.4	10185.5	10251.0	9975.9	9980.2	10148.4	10377.7	10497.8
7.5°	7147.8	7130.3	7139.0	7394.6	7575.8	7444.8	7547.4	7191.5	7213.3	7377.1	7254.8
10°	5313.3	5073.1	4937.7	5129.9	5328.6	5256.6	5079.7	4963.9	5044.7	5226.0	5212.9
12.5°	4175.5	3830.5	3627.4	3489.8	3653.6	3518.2	3513.8	3413.4	3304.2	3323.8	3614.3
15°	3140.4	2889.2	2649.0	2428.5	2424.1	2378.2	2144.6	1882.5	1860.6	1873.8	2024.4
17.5°	2159.8	2074.7	1976.4	1786.4	1736.2	1544.0	1316.9	1212.0	1159.6	1183.7	1233.9
20°	1517.8	1485.0	1495.9	1393.3	1321.2	1137.8	1004.6	963.1	954.3	978.4	1002.4
22.5°	1257.9	1198.9	1192.4	1146.5	1074.5	941.2	869.2	845.2	834.2	856.1	873.5
25°	1100.7	1041.7	1017.7	989.3	912.9	821.1	777.5	755.6	744.7	757.8	768.7
27.5°	969.6	915.0	893.2	873.5	799.3	733.8	698.8	679.2	670.4	674.8	685.7
30°	871.4	823.3	794.9	770.9	707.6	661.7	631.1	611.5	602.7	602.7	613.7
32.5°	768.7	742.5	716.3	685.7	626.8	596.2	565.6	543.8	535.0	537.2	546.0
35°	639.9	631.1	637.7	609.3	559.1	532.9	502.3	478.3	471.7	473.9	482.6
37.5°	567.8	528.5	552.5	537.2	508.8	473.9	434.6	412.7	401.8	408.4	412.7
40°	521.9	473.9	456.4	471.7	467.3	410.6	375.6	353.8	345.0	347.2	351.6
42.5°	482.6	425.9	386.5	384.4	410.6	358.2	321.0	301.4	290.5	290.5	294.8
45°	445.5	384.4	336.3	299.2	345.0	303.6	268.6	251.1	238.0	238.0	240.2
47.5°	417.1	349.4	292.6	244.6	259.9	249.0	220.6	203.1	190.0	190.0	192.2
50°	390.9	314.5	253.3	205.3	194.4	205.3	179.1	159.4	150.7	148.5	152.9
52.5°	362.5	279.5	216.2	174.7	152.9	155.1	139.8	126.7	115.7	115.7	120.1
55°	334.1	251.1	187.8	148.5	126.7	115.7	111.4	102.6	93.9	93.9	98.3
57.5°	305.7	220.6	159.4	122.3	100.5	91.7	91.7	85.2	78.6	78.6	83.0
60°	279.5	190.0	131.0	100.5	78.6	76.4	78.6	72.1	67.7	67.7	72.1
62.5°	249.0	161.6	107.0	83.0	63.3	61.1	67.7	63.3	59.0	59.0	63.3
65°	211.8	137.6	85.2	63.3	48.0	48.0	56.8	52.4	48.0	48.0	52.4
67.5°	179.1	115.7	65.5	45.9	34.9	37.1	48.0	43.7	41.5	41.5	45.9
70°	148.5	89.5	45.9	28.4	19.7	28.4	37.1	37.1	37.1	37.1	41.5
72.5°	111.4	61.1	26.2	10.9	8.7	19.7	30.6	34.9	32.8	32.8	39.3
75°	72.1	34.9	8.7	0.0	0.0	10.9	24.0	28.4	28.4	26.2	32.8
77.5°	41.5	10.9	0.0	0.0	0.0	0.0	15.3	13.1	10.9	8.7	15.3
80°	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P324182
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1	15466.1
2.5°	13627.3	13885.0	14247.5	14631.9	15223.7	15693.2	16154.0	16549.3	16702.2	16765.5
5°	10786.1	11163.9	11694.6	12375.9	13443.8	14404.7	15378.7	16359.3	16785.1	16892.2
7.5°	7739.6	8222.2	8897.0	9750.9	11002.3	12247.1	13607.6	15046.8	15706.3	15872.3
10°	5728.3	6317.9	7091.0	7990.7	9185.3	10465.1	11947.9	13592.3	14345.8	14566.3
12.5°	4064.2	4861.3	5896.4	6990.5	8025.7	9167.8	10668.2	12480.8	13271.3	13509.4
15°	2387.0	3157.9	4383.0	5848.4	7174.0	8331.4	9855.8	11910.8	12782.1	13022.4
17.5°	1369.3	1753.6	2679.6	4313.1	6112.6	7715.6	9600.2	12052.7	13079.1	13301.9
20°	1046.1	1168.4	1544.0	2777.9	4872.2	7110.6	9600.2	12856.4	14120.8	14448.4
22.5°	915.0	1004.6	1157.4	1657.5	3585.9	6462.0	9711.6	14018.2	15671.4	16033.9
25°	812.4	893.2	1024.2	1247.0	2445.9	5691.1	9975.9	15444.3	17497.1	17966.6
27.5°	727.2	803.7	921.6	1091.9	1672.8	4760.8	10331.8	17117.1	19510.6	19886.2
30°	650.8	722.9	829.9	950.0	1290.7	3706.0	10635.4	18693.8	21091.7	21495.7
32.5°	578.7	644.2	740.3	829.9	1057.0	2740.7	10668.2	19943.0	22404.2	22806.1
35°	511.0	570.0	657.3	727.2	875.7	2164.2	10159.3	21026.2	23716.7	24247.4
37.5°	445.5	502.3	578.7	631.1	770.9	1764.6	9381.9	22233.9	25400.5	25891.8
40°	384.4	434.6	513.2	548.1	729.4	1356.2	8536.7	23500.5	27051.5	27501.3
42.5°	327.6	375.6	452.1	519.8	639.9	1013.3	7623.9	24688.5	28536.5	29008.2
45°	273.0	323.2	399.6	550.3	530.7	757.8	6647.7	25476.9	29709.2	30222.4
47.5°	220.6	277.4	382.2	524.1	423.7	556.9	5874.6	26223.8	30598.1	31104.7
50°	176.9	233.7	430.2	467.3	347.2	425.9	5551.4	26892.1	31181.2	31668.2
52.5°	144.1	196.5	406.2	358.2	290.5	351.6	5726.1	27975.2	31720.6	32026.3
55°	120.1	155.1	244.6	249.0	246.8	299.2	5942.3	29530.2	33116.1	33260.2
57.5°	104.8	124.5	170.3	192.2	207.5	266.4	5946.7	31762.1	35275.9	35365.4
60°	89.5	109.2	142.0	155.1	179.1	238.0	5730.4	32541.7	36125.4	36422.4
62.5°	78.6	96.1	117.9	128.8	150.7	214.0	5223.8	31412.6	34959.2	35463.7
65°	69.9	87.4	98.3	109.2	133.2	192.2	4389.6	29154.5	33024.3	33550.6
67.5°	61.1	76.4	87.4	98.3	120.1	170.3	3232.1	26531.7	30803.3	31240.1
70°	54.6	67.7	78.6	87.4	104.8	144.1	1961.1	22513.4	27732.8	27914.1
72.5°	52.4	61.1	72.1	78.6	91.7	126.7	993.7	16544.9	22170.5	22465.4
75°	45.9	54.6	65.5	69.9	80.8	109.2	404.0	10866.9	16066.7	16540.6
77.5°	37.1	50.2	59.0	63.3	69.9	89.5	205.3	6944.7	11275.3	11581.0
80°	13.1	37.1	50.2	52.4	59.0	65.5	135.4	3802.1	6540.7	6671.7
82.5°	0.0	24.0	39.3	37.1	41.5	50.2	87.4	1808.2	4317.5	4365.5
85°	0.0	10.9	30.6	24.0	17.5	34.9	30.6	395.3	2264.7	2358.6
87.5°	0.0	0.0	2.2	10.9	8.7	13.1	4.4	2.2	205.3	259.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)