

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: P383702

Luminaire Tested: **GAN-SA9D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383702
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-SA9D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 47904.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

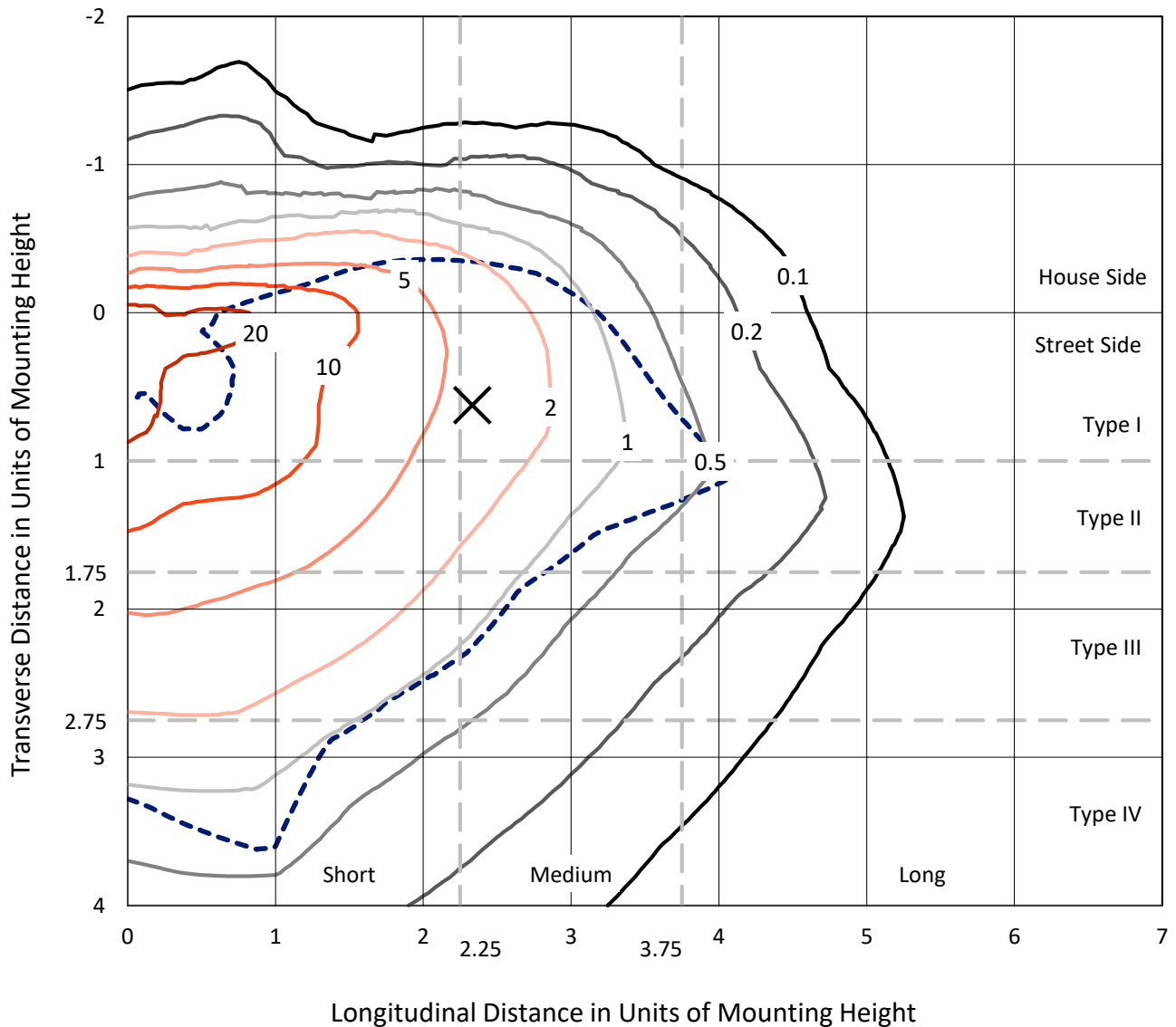
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

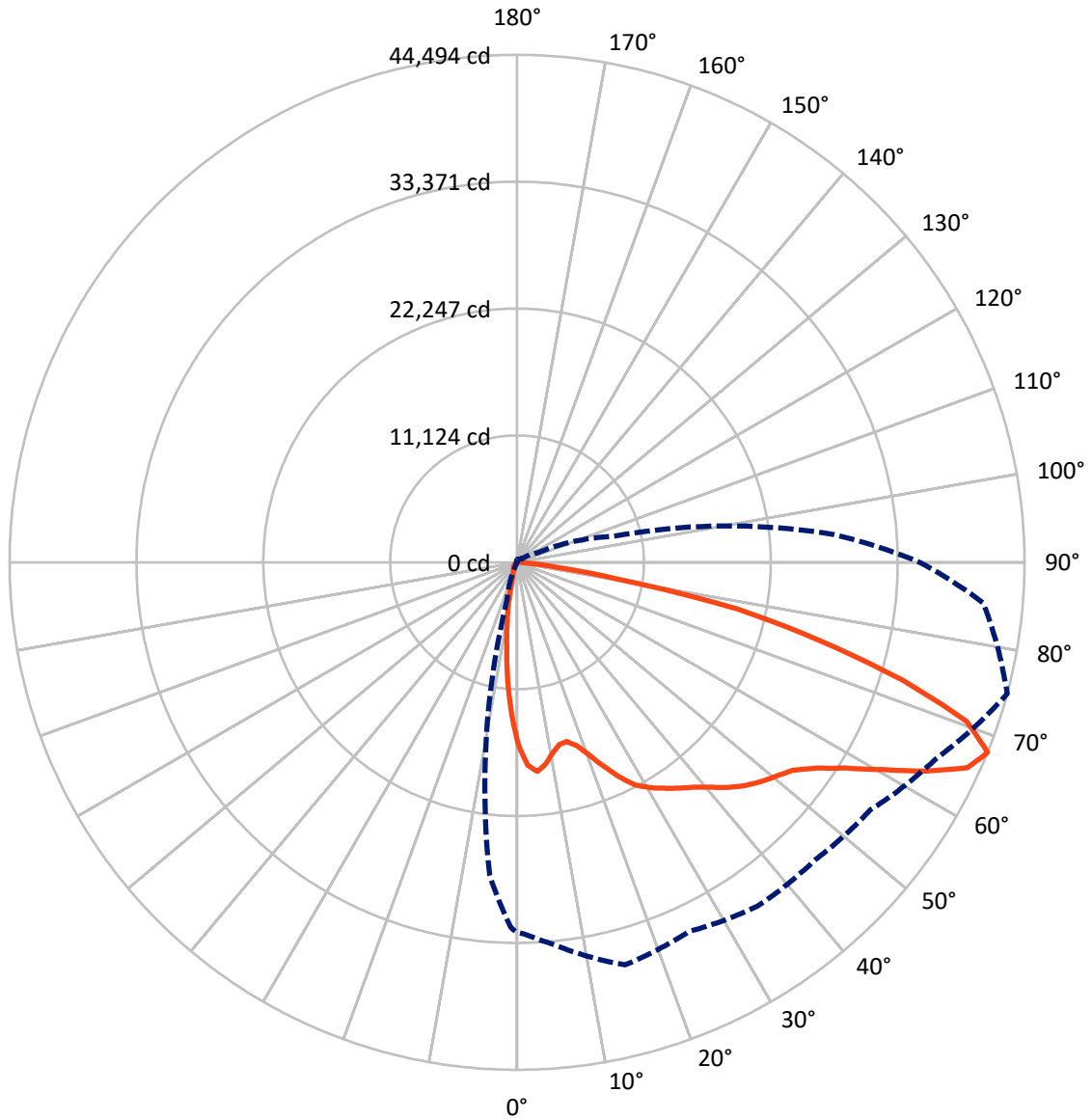
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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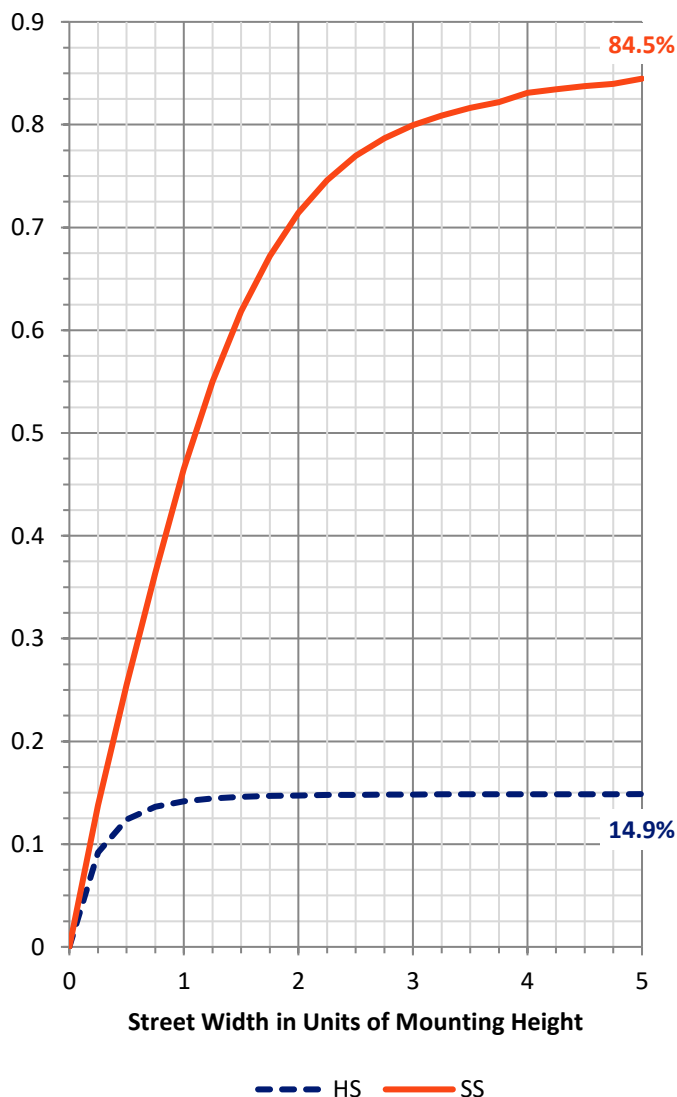
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7188.6	0.0	7188.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	40716.2	0.0	40716.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	47904.8	0.0	47904.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1219.1	2.5
10°-20°	2400.4	5.0
20°-30°	3395.9	7.1
30°-40°	4992.9	10.4
40°-50°	7176.4	15.0
50°-60°	10102.5	21.1
60°-70°	11798.8	24.6
70°-80°	6019.4	12.6
80°-90°	799.6	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°	47904.8	100.0
0°-180°	47904.8	100.0

Coefficient of Utilization

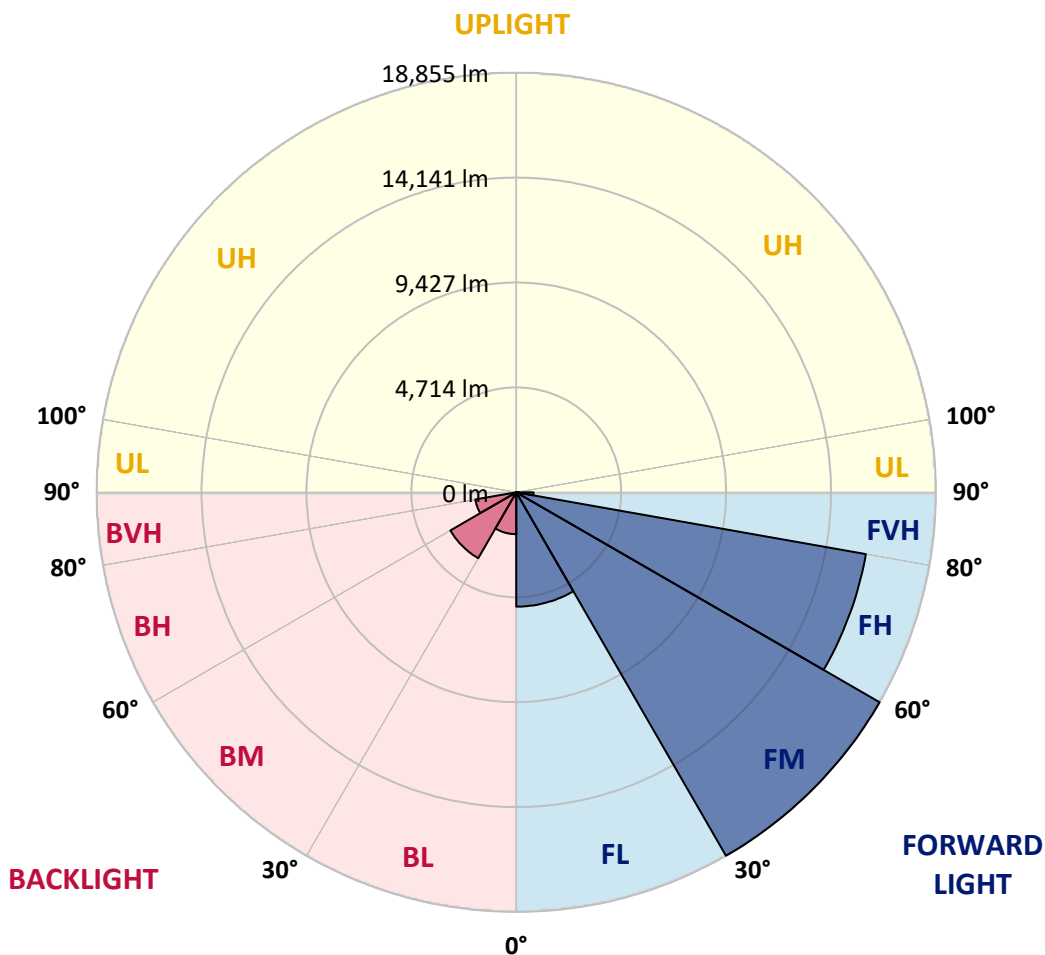


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5135.4	10.7			
FM (30°-60°)	18854.5	39.4			
FH (60°-80°)	15950.9	33.3			G5
FVH (80°-90°)	775.4	1.6			G5
BL (0°-30°)	1879.9	3.9	B3/2500		
BM (30°-60°)	3417.2	7.1	B3/5000		
BH (60°-80°)	1867.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	24.2	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°	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2
2.5°	17421.5	17448.7	17589.4	17916.2	18272.5	18299.7	18540.2	18292.9	18209.0	17809.5	17396.6
5°	17553.2	17657.5	18140.9	19100.8	19933.6	20201.4	20392.0	19906.4	19395.8	18420.0	17378.4
7.5°	16493.3	16668.1	17428.3	19230.1	20718.8	21376.9	21501.7	20741.5	19491.1	17884.4	16318.6
10°	15136.3	15336.0	16252.8	18467.7	20512.3	21640.1	21812.7	20816.4	19019.1	17017.5	15172.6
12.5°	14038.0	14271.7	15208.9	17609.9	19802.0	21050.1	21390.5	20564.5	18610.6	16402.6	14389.7
15°	13531.9	13799.7	14784.6	17056.2	19014.6	19997.2	20278.6	19922.3	18383.7	16305.0	14208.2
17.5°	13822.4	14112.9	15129.5	17103.8	18274.7	18694.6	18921.5	19066.7	18383.7	16892.8	14739.1
20°	15013.8	15326.9	16402.6	17587.2	17662.0	17505.5	17748.3	18258.9	18597.0	18009.2	16014.5
22.5°	16661.3	17028.9	18243.0	18415.5	17362.5	16770.2	16802.0	17603.1	18985.0	19425.3	17784.5
25°	18669.6	19118.9	20353.5	19650.0	17487.3	16332.3	16320.9	17063.0	19364.0	20843.7	19756.6
27.5°	20664.3	21159.1	22243.8	21156.8	18002.4	16252.8	16230.1	16899.6	19733.9	22105.3	21910.2
30°	22336.8	22817.9	23752.9	22248.3	18558.4	16438.9	16329.9	17074.2	19954.0	22924.5	23480.6
32.5°	23698.4	24084.2	24839.9	22999.4	19153.0	16799.7	16563.7	17541.8	20328.5	23616.7	24923.8
35°	25196.1	25602.4	25904.2	23714.3	19820.2	17319.3	16981.3	18283.9	20904.9	24320.2	26505.5
37.5°	26905.0	27308.9	27272.5	24367.9	20666.6	18179.4	17963.9	19459.4	21801.3	25016.9	28271.1
40°	28577.5	28990.4	28695.4	25082.7	21660.5	19597.8	19438.9	21224.8	23001.7	25908.7	30340.7
42.5°	30143.2	30590.3	29959.4	25759.0	22845.2	21386.0	21658.3	23498.7	24504.0	27007.1	32124.3
45°	31405.0	31861.1	31019.2	26417.0	24093.3	23555.4	24374.7	26017.7	26310.4	27935.2	33329.4
47.5°	32321.8	32752.9	31754.4	27075.2	25690.9	26208.3	27635.7	28659.2	27942.0	28740.9	34184.9
50°	32907.3	33243.1	31970.1	27898.9	27787.7	29303.6	31032.8	31532.0	29478.4	29467.0	35224.2
52.5°	33279.4	33431.5	32128.9	28758.9	29975.3	32673.6	34359.7	34516.2	31060.0	30265.8	36624.4
55°	34561.6	34684.1	33254.5	29800.6	31783.9	35625.9	37368.8	37223.5	32850.6	31829.3	38276.5
57.5°	36749.2	36878.6	35580.6	31298.3	33247.7	37450.4	39549.5	39810.5	34949.6	34026.0	40046.5
60°	37847.6	38088.1	37625.1	33195.4	34666.0	38616.8	41036.0	41868.8	37572.9	36921.7	41762.1
62.5°	36851.3	37200.8	37872.5	35299.1	36075.2	39259.0	41498.9	42606.3	40259.8	40296.1	42819.6
65°	34863.4	35142.5	36281.7	36451.9	36892.2	39179.7	40355.1	41576.0	41905.1	43396.1	42762.9
67.5°	32462.5	32566.9	33533.6	36542.7	35707.6	36792.3	36919.4	37822.6	40604.8	44494.3	41045.0
70°	29006.3	29063.1	29907.2	33504.1	30685.6	30923.8	30735.6	30919.4	34908.8	41818.8	36708.4
72.5°	23344.4	23487.4	24687.8	27824.0	22355.0	21667.3	23147.0	23065.3	26884.6	35330.9	27263.5
75°	17187.8	17435.1	19248.3	22411.7	15690.0	14192.2	15272.4	15560.7	19112.1	27329.3	17049.4
77.5°	12034.1	12218.0	13974.4	16475.2	11355.7	10148.4	9758.1	10100.7	12615.1	19770.2	8589.3
80°	6932.8	7000.9	8121.9	9513.0	7652.1	8755.0	7931.2	8167.3	7559.0	8795.9	3694.4
82.5°	4536.4	4547.7	4985.6	5661.9	4765.5	5537.1	4098.3	5239.9	4649.8	3533.4	1202.7
85°	2450.8	2464.5	2891.1	4019.0	2698.2	1524.9	896.3	1840.4	2875.2	810.2	329.0
87.5°	270.1	247.3	871.4	1461.4	748.9	138.4	47.7	206.5	460.7	52.2	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°	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2
2.5°	17185.5	16997.1	16527.4	16030.4	15631.0	15256.6	14879.9	14419.2	14062.9	13990.3	13872.3
5°	16817.9	16221.0	15236.1	14246.7	13450.2	12444.9	11807.2	11310.2	10824.6	10795.1	10697.5
7.5°	15533.5	14748.3	13361.7	11993.3	10872.3	9914.6	8947.9	8301.1	7792.8	7613.5	7506.9
10°	14298.9	13416.1	11684.7	10123.4	9122.6	8276.1	7595.4	6919.2	6306.4	5884.3	5693.7
12.5°	13436.5	12460.8	10552.3	9206.6	8489.5	7686.2	6855.6	6011.4	5305.6	4797.3	4486.4
15°	13103.0	12061.4	10173.3	8843.5	7958.5	6941.8	5879.7	4915.3	4132.4	3671.8	3392.6
17.5°	13500.1	12288.3	10143.8	8401.0	7164.3	5900.2	4727.0	3587.8	2850.3	2500.7	2321.5
20°	14507.7	13010.0	10132.4	7858.6	6220.2	4665.7	3202.0	2360.1	1913.0	1717.9	1633.9
22.5°	15932.8	13931.3	10223.3	7323.1	5237.5	3333.6	2210.3	1733.8	1504.5	1400.2	1352.5
25°	17766.4	15224.8	10479.6	6837.5	4314.0	2487.1	1722.4	1452.4	1291.2	1209.5	1175.5
27.5°	19720.3	16713.5	10879.1	6415.4	3562.8	1983.4	1475.0	1243.6	1127.8	1071.1	1039.3
30°	21331.5	18438.1	11283.0	5945.6	3018.2	1729.2	1350.3	1134.6	1000.8	964.4	935.0
32.5°	22740.8	19743.0	11569.0	5521.2	2661.9	1536.3	1220.9	1014.4	923.6	853.3	821.5
35°	24199.9	20830.0	11559.9	5223.9	2416.8	1391.1	1112.0	907.7	798.8	717.1	692.1
37.5°	25779.4	22057.6	11362.5	4969.8	2310.1	1275.4	1050.7	851.0	742.1	660.4	628.6
40°	27628.9	23346.6	11160.5	4731.5	2280.6	1182.3	1007.6	805.6	689.9	610.4	578.7
42.5°	29430.7	24508.6	10983.5	4554.5	2153.6	1180.1	969.0	771.6	649.0	571.9	535.5
45°	30871.7	25591.0	10949.4	4447.9	2019.7	1220.9	948.6	748.9	617.2	540.1	506.0
47.5°	32069.9	26766.5	11167.3	4373.0	1892.6	1114.2	998.5	732.9	587.7	512.9	474.3
50°	33495.0	28209.8	11680.1	4250.4	1758.7	1003.0	1143.8	737.5	562.7	485.6	444.8
52.5°	35482.9	30206.8	12433.6	4043.9	1574.9	900.9	1125.6	742.1	535.5	456.1	415.3
55°	37711.4	32700.8	13243.7	3701.2	1318.5	767.0	964.4	710.3	483.4	424.3	385.8
57.5°	40053.3	34963.2	13724.8	3292.7	1048.5	662.6	771.6	646.8	426.6	381.3	356.3
60°	40421.0	35823.3	13504.6	2791.3	832.8	576.4	571.9	658.1	381.3	335.8	317.7
62.5°	39506.4	34743.1	12440.4	2344.2	696.7	506.0	469.8	574.1	345.0	299.6	281.4
65°	37747.7	31822.5	10715.7	2112.7	646.8	433.4	390.3	403.9	301.8	260.9	245.1
67.5°	35301.4	27923.9	8798.1	1981.1	640.0	372.2	333.6	306.4	260.9	226.9	213.3
70°	30299.8	23262.7	7018.9	1908.5	621.8	313.2	281.4	249.7	217.9	192.9	181.6
72.5°	22300.5	16484.3	5460.0	1829.1	626.4	249.7	245.1	206.5	174.8	149.8	145.2
75°	12885.2	9417.7	3581.0	1481.9	596.8	192.9	204.2	145.2	122.5	104.4	104.4
77.5°	6866.9	5743.6	1363.9	617.2	217.9	122.5	115.7	86.3	77.1	63.5	61.3
80°	2993.2	2528.0	410.7	172.4	120.3	65.8	43.1	38.6	34.0	27.2	25.0
82.5°	1059.7	914.5	133.9	83.9	52.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	240.5	172.4	0.0	20.4	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°	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2
2.5°	13631.7	13581.8	13286.8	13298.1	13350.4	13425.3	13248.2	13329.9	13550.0	13761.1	13840.6
5°	10540.9	10552.3	10373.1	10484.2	10584.1	10652.2	10366.2	10370.7	10545.5	10783.8	10908.6
7.5°	7427.4	7409.3	7418.4	7683.9	7872.2	7736.0	7842.7	7472.9	7495.5	7665.7	7538.6
10°	5521.2	5271.6	5130.9	5330.6	5537.1	5462.2	5278.4	5158.2	5242.1	5430.5	5416.9
12.5°	4339.0	3980.4	3769.3	3626.3	3796.5	3655.9	3651.3	3547.0	3433.5	3453.9	3755.7
15°	3263.3	3002.3	2752.6	2523.5	2518.9	2471.3	2228.4	1956.2	1933.4	1947.0	2103.6
17.5°	2244.4	2155.9	2053.7	1856.3	1804.1	1604.4	1368.4	1259.5	1205.0	1229.9	1282.2
20°	1577.2	1543.1	1554.5	1447.8	1372.9	1182.3	1043.9	1000.8	991.7	1016.7	1041.7
22.5°	1307.1	1245.9	1239.1	1191.4	1116.5	978.0	903.2	878.3	866.9	889.5	907.7
25°	1143.8	1082.5	1057.5	1028.0	948.6	853.3	807.8	785.2	773.8	787.4	798.8
27.5°	1007.6	950.8	928.2	907.7	830.6	762.5	726.1	705.7	696.7	701.2	712.5
30°	905.5	855.5	826.0	801.0	735.3	687.6	655.8	635.4	626.4	626.4	637.6
32.5°	798.8	771.6	744.3	712.5	651.3	619.5	587.7	565.1	555.9	558.3	567.3
35°	664.9	655.8	662.6	633.2	580.9	553.7	521.9	497.0	490.2	492.4	501.5
37.5°	590.0	549.1	574.1	558.3	528.7	492.4	451.6	428.9	417.5	424.3	428.9
40°	542.3	492.4	474.3	490.2	485.6	426.6	390.3	367.6	358.6	360.8	365.4
42.5°	501.5	442.5	401.7	399.4	426.6	372.2	333.6	313.2	301.8	301.8	306.4
45°	463.0	399.4	349.5	310.9	358.6	315.4	279.1	260.9	247.3	247.3	249.7
47.5°	433.4	363.1	304.1	254.1	270.1	258.7	229.2	211.1	197.4	197.4	199.7
50°	406.2	326.8	263.3	213.3	202.0	213.3	186.1	165.6	156.6	154.4	158.8
52.5°	376.7	290.5	224.7	181.6	158.8	161.2	145.2	131.6	120.3	120.3	124.8
55°	347.2	260.9	195.2	154.4	131.6	120.3	115.7	106.7	97.6	97.6	102.1
57.5°	317.7	229.2	165.6	127.1	104.4	95.3	95.3	88.5	81.7	81.7	86.3
60°	290.5	197.4	136.2	104.4	81.7	79.5	81.7	74.9	70.3	70.3	74.9
62.5°	258.7	168.0	111.2	86.3	65.8	63.5	70.3	65.8	61.3	61.3	65.8
65°	220.1	143.0	88.5	65.8	49.9	49.9	59.0	54.5	49.9	49.9	54.5
67.5°	186.1	120.3	68.1	47.7	36.3	38.6	49.9	45.4	43.1	43.1	47.7
70°	154.4	93.1	47.7	29.5	20.4	29.5	38.6	38.6	38.6	38.6	43.1
72.5°	115.7	63.5	27.2	11.4	9.0	20.4	31.8	36.3	34.0	34.0	40.8
75°	74.9	36.3	9.0	0.0	0.0	11.4	25.0	29.5	29.5	27.2	34.0
77.5°	43.1	11.4	0.0	0.0	0.0	0.0	15.9	13.6	11.4	9.0	15.9
80°	11.4	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2	16071.2
2.5°	14160.5	14428.3	14805.0	15204.3	15819.4	16307.3	16786.1	17196.8	17355.7	17421.5
5°	11208.1	11600.7	12152.1	12860.2	13969.9	14968.4	15980.5	16999.4	17441.9	17553.2
7.5°	8042.4	8544.0	9245.1	10132.4	11432.8	12726.2	14140.1	15635.6	16320.9	16493.3
10°	5952.4	6565.1	7368.4	8303.4	9544.7	10874.5	12415.4	14124.2	14907.1	15136.3
12.5°	4223.2	5051.5	6127.2	7264.0	8339.7	9526.6	11085.6	12969.1	13790.6	14038.0
15°	2480.3	3281.4	4554.5	6077.2	7454.7	8657.4	10241.4	12376.8	13282.3	13531.9
17.5°	1422.8	1822.3	2784.5	4481.9	6351.8	8017.5	9975.9	12524.3	13590.9	13822.4
20°	1087.0	1214.1	1604.4	2886.6	5062.9	7388.8	9975.9	13359.4	14673.4	15013.8
22.5°	950.8	1043.9	1202.7	1722.4	3726.2	6714.9	10091.6	14566.7	16284.6	16661.3
25°	844.2	928.2	1064.3	1295.8	2541.6	5913.8	10366.2	16048.5	18181.7	18669.6
27.5°	755.7	835.1	957.6	1134.6	1738.3	4947.1	10736.1	17786.9	20274.0	20664.3
30°	676.2	751.1	862.3	987.2	1341.1	3851.0	11051.5	19425.3	21917.0	22336.8
32.5°	601.4	669.4	769.3	862.3	1098.4	2848.0	11085.6	20723.3	23280.9	23698.4
35°	531.0	592.3	683.1	755.7	910.0	2248.8	10556.9	21848.9	24644.7	25196.1
37.5°	463.0	521.9	601.4	655.8	801.0	1833.6	9748.9	23103.9	26394.4	26905.0
40°	399.4	451.6	533.3	569.6	757.9	1409.2	8870.8	24420.1	28109.9	28577.5
42.5°	340.4	390.3	469.8	540.1	664.9	1052.9	7922.2	25654.5	29653.1	30143.2
45°	283.7	335.8	415.3	571.9	551.5	787.4	6907.8	26473.7	30871.7	31405.0
47.5°	229.2	288.2	397.1	544.7	440.2	578.7	6104.4	27249.9	31795.3	32321.8
50°	183.8	242.9	447.0	485.6	360.8	442.5	5768.6	27944.3	32401.2	32907.3
52.5°	149.8	204.2	422.1	372.2	301.8	365.4	5950.2	29069.9	32961.7	33279.4
55°	124.8	161.2	254.1	258.7	256.5	310.9	6174.8	30685.6	34411.8	34561.6
57.5°	108.9	129.4	177.0	199.7	215.6	276.9	6179.3	33004.8	36656.1	36749.2
60°	93.1	113.5	147.5	161.2	186.1	247.3	5954.6	33815.0	37538.9	37847.6
62.5°	81.7	99.9	122.5	133.9	156.6	222.4	5428.2	32641.8	36327.1	36851.3
65°	72.7	90.7	102.1	113.5	138.4	199.7	4561.3	30295.3	34316.5	34863.4
67.5°	63.5	79.5	90.7	102.1	124.8	177.0	3358.6	27569.8	32008.6	32462.5
70°	56.7	70.3	81.7	90.7	108.9	149.8	2037.9	23394.3	28818.0	29006.3
72.5°	54.5	63.5	74.9	81.7	95.3	131.6	1032.5	17192.3	23038.0	23344.4
75°	47.7	56.7	68.1	72.7	83.9	113.5	419.8	11292.1	16695.3	17187.8
77.5°	38.6	52.2	61.3	65.8	72.7	93.1	213.3	7216.4	11716.4	12034.1
80°	13.6	38.6	52.2	54.5	61.3	68.1	140.7	3950.9	6796.6	6932.8
82.5°	0.0	25.0	40.8	38.6	43.1	52.2	90.7	1879.0	4486.4	4536.4
85°	0.0	11.4	31.8	25.0	18.2	36.3	31.8	410.7	2353.3	2450.8
87.5°	0.0	0.0	2.2	11.4	9.0	13.6	4.6	2.2	213.3	270.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)