

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: P324133

Luminaire Tested: **GAN-SA9C-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324133
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-SA9C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 42690 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

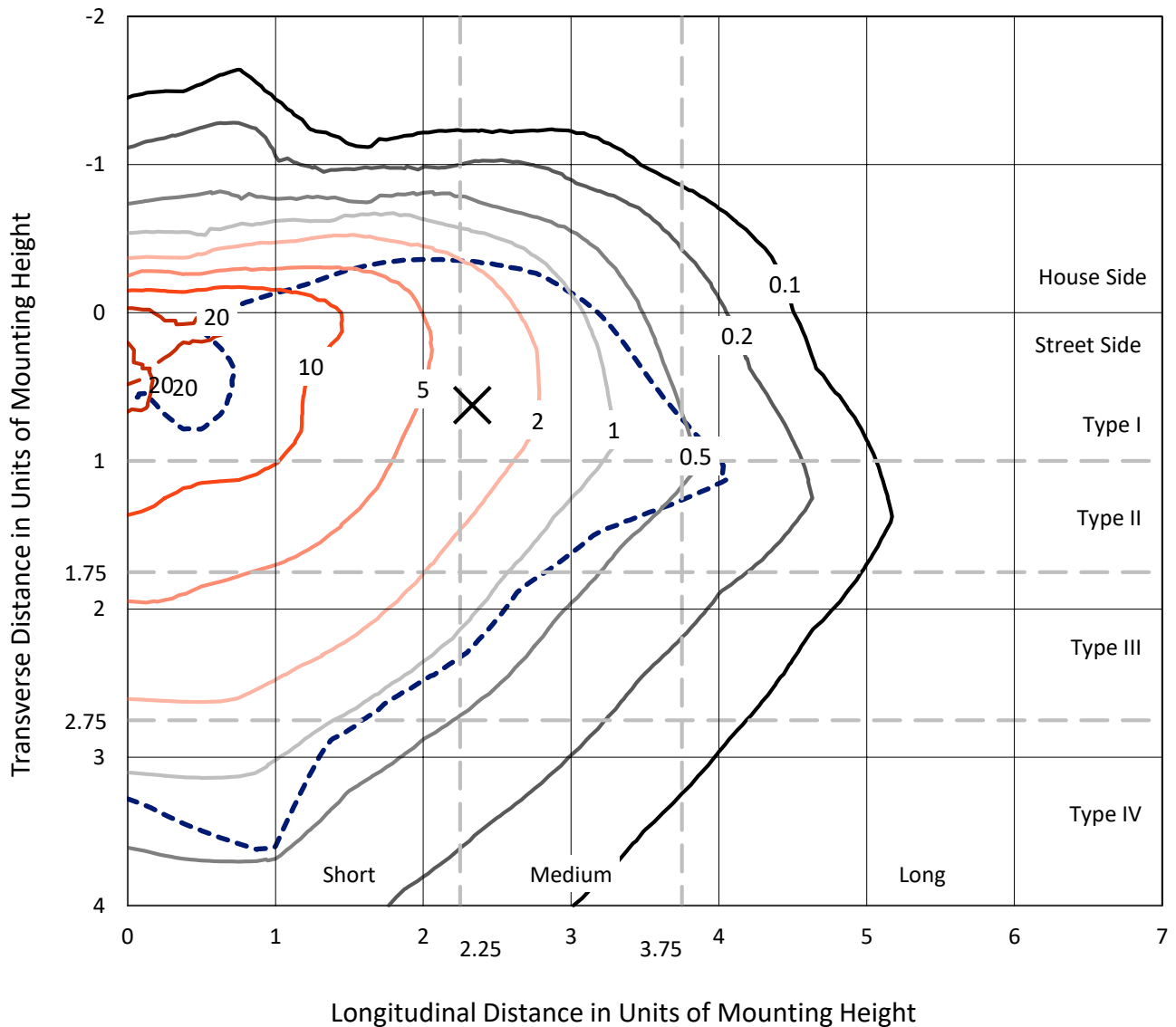
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

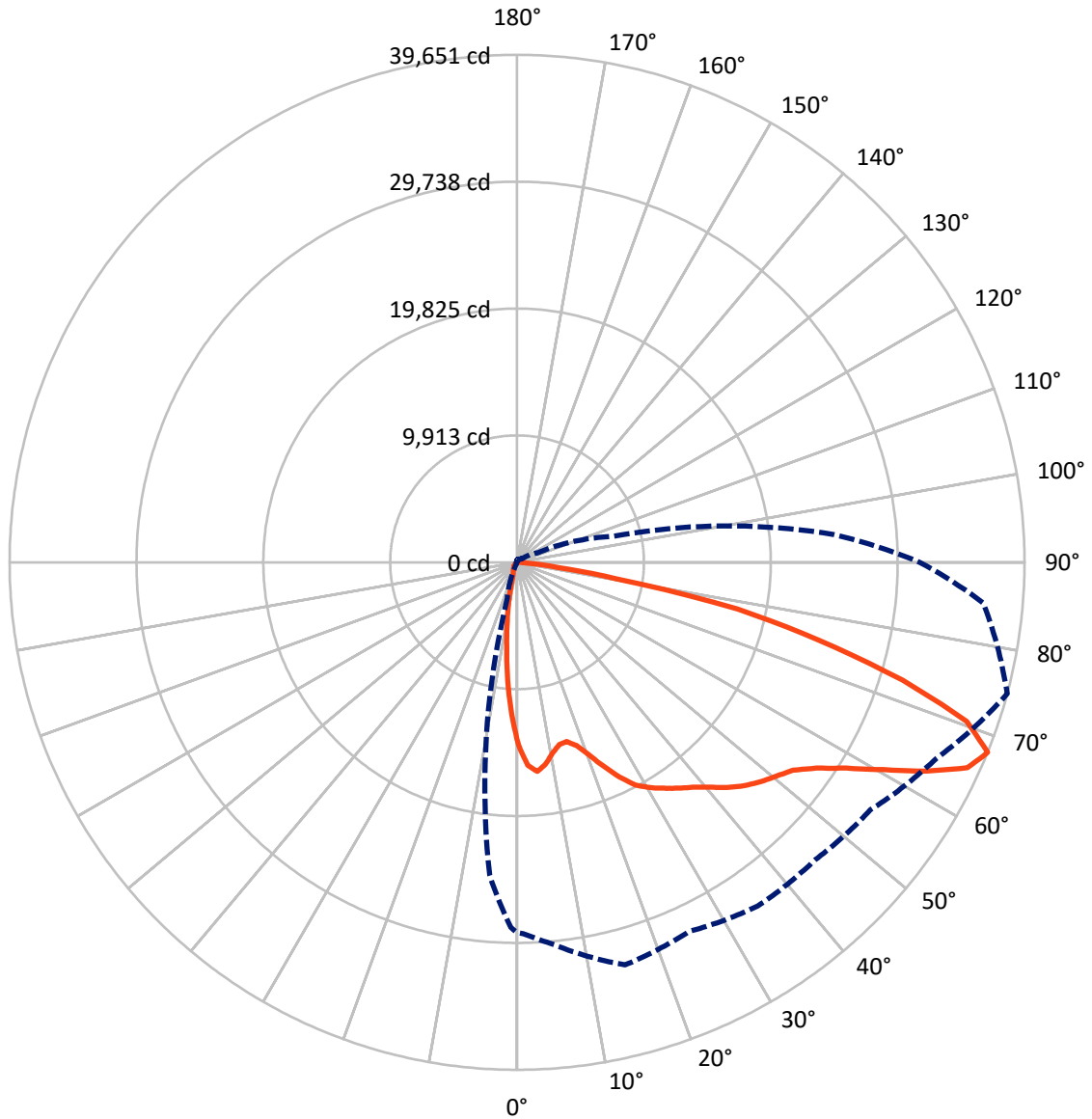
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.7 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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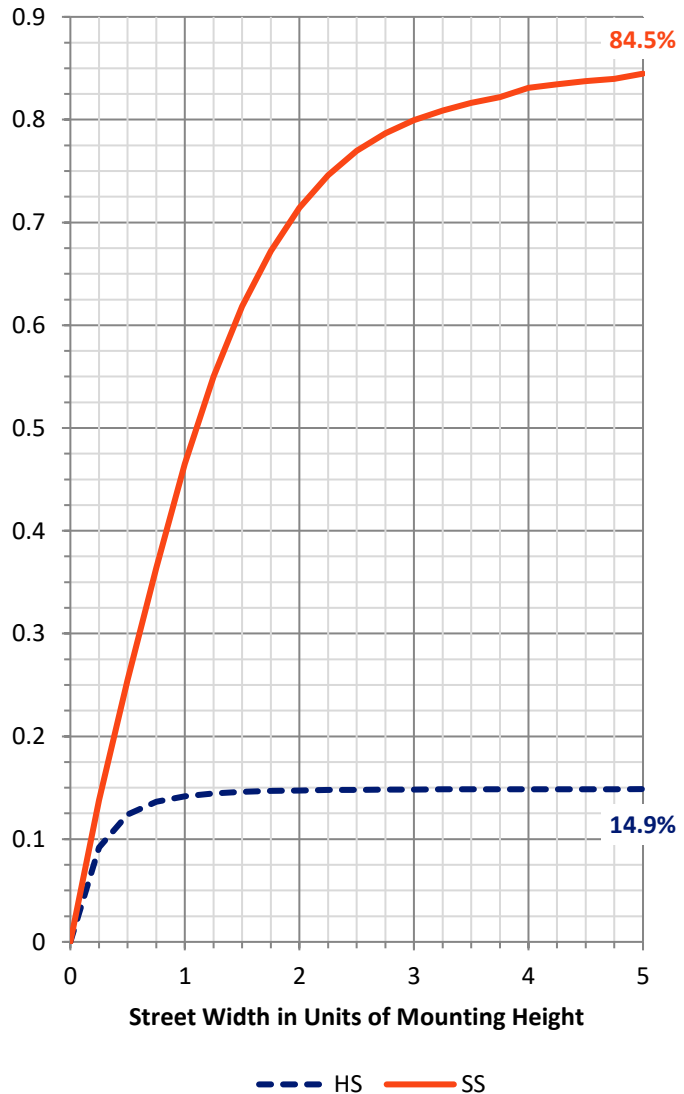
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6406.1	0.0	6406.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36283.9	0.0	36283.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	42690.0	0.0	42690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.4	2.5
10°-20°	2139.1	5.0
20°-30°	3026.2	7.1
30°-40°	4449.3	10.4
40°-50°	6395.2	15.0
50°-60°	9002.7	21.1
60°-70°	10514.4	24.6
70°-80°	5364.1	12.6
80°-90°	712.6	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°	42690.0	100.0
0°-180°	42690.0	100.0

Coefficient of Utilization

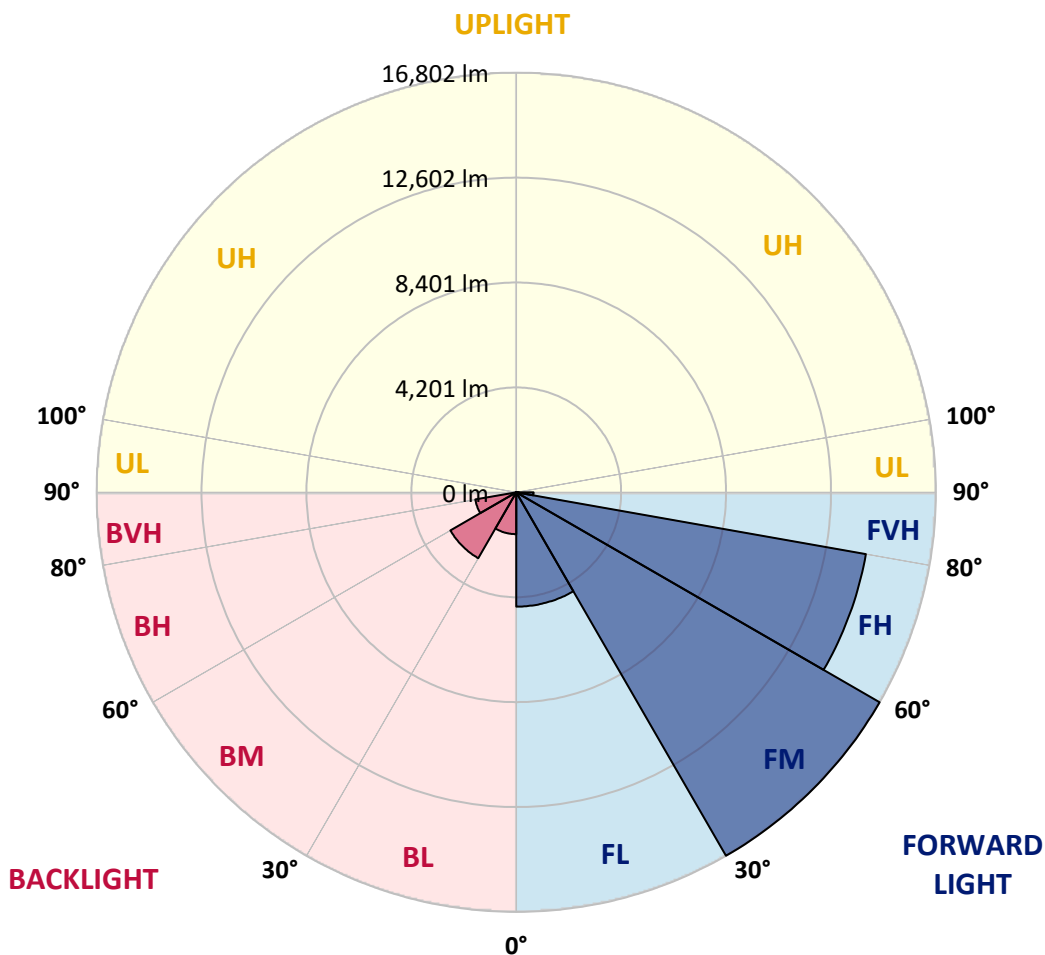


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4576.4	10.7			
FM (30°-60°)	16802.0	39.4			
FH (60°-80°)	14214.5	33.3			G5
FVH (80°-90°)	691.0	1.6			G4/750
BL (0°-30°)	1675.3	3.9	B3/2500		
BM (30°-60°)	3045.3	7.1	B3/5000		
BH (60°-80°)	1664.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	21.6	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°	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8
2.5°	15525.0	15549.3	15674.7	15965.9	16283.4	16307.6	16522.0	16301.6	16226.7	15870.8	15502.8
5°	15642.3	15735.3	16166.1	17021.5	17763.7	18002.3	18172.2	17739.4	17284.4	16414.8	15486.6
7.5°	14697.9	14853.6	15531.1	17136.8	18463.4	19049.8	19161.1	18483.6	17369.3	15937.6	14542.2
10°	13488.6	13666.5	14483.5	16457.3	18279.4	19284.4	19438.1	18550.3	16948.7	15165.1	13520.9
12.5°	12509.8	12718.1	13553.3	15692.9	17646.4	18758.6	19062.0	18325.9	16584.7	14617.0	12823.3
15°	12058.8	12297.5	13175.1	15199.4	16944.7	17820.3	18071.1	17753.6	16382.5	14530.1	12661.5
17.5°	12317.7	12576.5	13482.5	15241.9	16285.4	16659.5	16861.7	16991.2	16382.5	15053.8	13134.7
20°	13379.4	13658.5	14617.0	15672.6	15739.4	15599.8	15816.2	16271.2	16572.6	16048.8	14271.2
22.5°	14847.6	15175.2	16257.1	16410.8	15472.4	14944.6	14972.9	15686.8	16918.4	17310.7	15848.6
25°	16637.3	17037.7	18137.8	17510.9	15583.7	14554.3	14544.2	15205.5	17256.1	18574.6	17605.9
27.5°	18414.9	18855.7	19822.4	18853.7	16042.7	14483.5	14463.3	15059.9	17585.7	19699.0	19525.1
30°	19905.3	20334.0	21167.2	19826.4	16538.2	14649.4	14552.3	15215.6	17781.9	20429.0	20924.5
32.5°	21118.6	21462.4	22135.8	20495.8	17068.0	14970.9	14760.6	15632.2	18115.6	21045.8	22210.7
35°	22453.3	22815.3	23084.3	21132.8	17662.6	15434.0	15132.7	16293.5	18629.2	21672.7	23620.2
37.5°	23976.1	24336.1	24303.7	21715.2	18416.9	16200.5	16008.3	17341.0	19428.0	22293.6	25193.5
40°	25466.5	25834.6	25571.7	22352.2	19302.6	17464.4	17322.8	18914.4	20497.8	23088.3	27037.8
42.5°	26861.9	27260.3	26698.1	22954.9	20358.3	19057.9	19300.6	20940.7	21836.5	24067.1	28627.4
45°	27986.3	28392.8	27642.5	23541.3	21470.5	20991.2	21721.3	23185.4	23446.3	24894.2	29701.2
47.5°	28803.3	29187.5	28297.7	24127.8	22894.2	23355.3	24627.3	25539.3	24900.3	25612.1	30463.6
50°	29325.0	29624.3	28489.8	24861.9	24762.8	26113.7	27654.6	28099.5	26269.4	26259.3	31389.8
52.5°	29656.7	29792.2	28631.4	25628.3	26712.3	29116.7	30619.3	30758.8	27678.9	26971.1	32637.5
55°	30799.3	30908.5	29634.4	26556.5	28324.0	31747.7	33300.8	33171.4	29274.5	28364.5	34109.7
57.5°	32748.8	32864.0	31707.3	27891.2	29628.4	33373.6	35244.2	35476.8	31145.1	30322.0	35687.1
60°	33727.5	33941.9	33529.4	29581.9	30892.3	34413.1	36568.8	37311.0	33482.8	32902.4	37216.0
62.5°	32839.8	33151.2	33749.8	31456.5	32148.1	34985.4	36981.4	37968.2	35877.2	35909.6	38158.3
65°	31068.2	31317.0	32332.2	32483.8	32876.2	34914.6	35962.1	37050.1	37343.4	38672.0	38107.8
67.5°	28928.7	29021.7	29883.2	32564.7	31820.5	32787.2	32900.4	33705.3	36184.6	39650.8	36576.9
70°	25848.7	25899.3	26651.6	29856.9	27345.2	27557.6	27389.7	27553.5	31108.7	37266.5	32712.4
72.5°	20803.2	20930.6	22000.4	24795.1	19921.4	19308.7	20627.2	20554.4	23957.9	31484.8	24295.6
75°	15316.7	15537.2	17153.0	19972.0	13982.0	12647.3	13609.9	13866.8	17031.6	24354.3	15193.4
77.5°	10724.1	10887.9	12453.2	14681.7	10119.5	9043.6	8695.8	9001.2	11241.8	17618.1	7654.3
80°	6178.1	6238.7	7237.7	8477.4	6819.1	7801.9	7067.9	7278.2	6736.2	7838.3	3292.3
82.5°	4042.5	4052.6	4442.9	5045.6	4246.8	4934.4	3652.2	4669.4	4143.6	3148.7	1071.8
85°	2184.1	2196.2	2576.4	3581.5	2404.5	1359.0	798.8	1640.1	2562.2	722.0	293.2
87.5°	240.7	220.4	776.6	1302.3	667.4	123.4	42.5	184.0	410.5	46.5	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°	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8
2.5°	15314.7	15146.9	14728.2	14285.4	13929.4	13595.8	13260.1	12849.5	12532.0	12467.3	12362.2
5°	14987.1	14455.2	13577.6	12695.9	11986.0	11090.2	10521.9	10079.0	9646.3	9620.0	9533.0
7.5°	13842.5	13142.8	11907.2	10687.7	9688.7	8835.3	7973.8	7397.5	6944.5	6784.7	6689.7
10°	12742.4	11955.7	10412.7	9021.4	8129.6	7375.2	6768.6	6165.9	5619.9	5243.8	5073.9
12.5°	11973.9	11104.3	9403.6	8204.4	7565.3	6849.5	6109.3	5357.0	4728.1	4275.1	3998.0
15°	11676.6	10748.4	9065.9	7880.8	7092.1	6186.1	5239.7	4380.3	3682.6	3272.0	3023.3
17.5°	12030.5	10950.6	9039.6	7486.5	6384.3	5257.9	4212.4	3197.2	2540.0	2228.5	2068.8
20°	12928.4	11593.7	9029.5	7003.1	5543.1	4157.8	2853.4	2103.2	1704.8	1530.9	1456.0
22.5°	14198.4	12414.8	9110.4	6525.9	4667.4	2970.7	1969.7	1545.0	1340.8	1247.7	1205.3
25°	15832.4	13567.5	9338.9	6093.1	3844.3	2216.4	1534.9	1294.3	1150.7	1077.9	1047.5
27.5°	17573.6	14894.1	9694.8	5717.0	3175.0	1767.5	1314.5	1108.2	1005.1	954.5	926.2
30°	19009.4	16431.0	10054.8	5298.4	2689.6	1541.0	1203.3	1011.1	891.8	859.5	833.2
32.5°	20265.2	17593.8	10309.6	4920.2	2372.1	1369.1	1088.0	904.0	823.1	760.4	732.1
35°	21565.6	18562.5	10301.5	4655.3	2153.7	1239.7	990.9	808.9	711.8	639.0	616.8
37.5°	22973.1	19656.5	10125.5	4428.8	2058.7	1136.5	936.3	758.4	661.3	588.5	560.2
40°	24621.2	20805.2	9945.6	4216.4	2032.4	1053.6	897.9	717.9	614.8	544.0	515.7
42.5°	26226.9	21840.6	9787.8	4058.7	1919.1	1051.6	863.5	687.6	578.4	509.6	477.3
45°	27511.1	22805.2	9757.5	3963.7	1799.8	1088.0	845.3	667.4	550.1	481.3	451.0
47.5°	28578.8	23852.8	9951.6	3896.9	1686.6	992.9	889.8	653.2	523.8	457.0	422.7
50°	29848.8	25138.9	10408.7	3787.7	1567.3	893.8	1019.2	657.2	501.5	432.8	396.4
52.5°	31620.3	26918.5	11080.1	3603.7	1403.5	802.8	1003.0	661.3	477.3	406.5	370.1
55°	33606.2	29141.0	11802.0	3298.3	1174.9	683.5	859.5	633.0	430.7	378.2	343.8
57.5°	35693.2	31157.2	12230.7	2934.3	934.3	590.5	687.6	576.3	380.2	339.7	317.5
60°	36020.8	31923.7	12034.6	2487.4	742.2	513.7	509.6	586.5	339.7	299.3	283.1
62.5°	35205.8	30961.1	11086.1	2089.0	620.8	451.0	418.6	511.6	307.4	266.9	250.8
65°	33638.6	28358.4	9549.2	1882.7	576.3	386.3	347.8	360.0	269.0	232.6	218.4
67.5°	31458.5	24884.1	7840.4	1765.4	570.3	331.7	297.3	273.0	232.6	202.2	190.1
70°	27001.4	20730.4	6254.9	1700.7	554.1	279.1	250.8	222.5	194.1	171.9	161.8
72.5°	19872.9	14689.8	4865.6	1630.0	558.1	222.5	218.4	184.0	155.7	133.5	129.4
75°	11482.5	8392.4	3191.2	1320.5	531.9	171.9	182.0	129.4	109.2	93.0	93.0
77.5°	6119.4	5118.4	1215.4	550.1	194.1	109.2	103.1	76.8	68.8	56.6	54.6
80°	2667.4	2252.8	366.0	153.7	107.2	58.6	38.4	34.4	30.3	24.3	22.2
82.5°	944.4	815.0	119.3	74.8	46.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	214.4	153.7	0.0	18.2	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°	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8
2.5°	12147.8	12103.3	11840.4	11850.5	11897.1	11963.8	11806.1	11878.9	12075.0	12263.1	12333.9
5°	9393.5	9403.6	9243.8	9342.9	9431.9	9492.6	9237.8	9241.8	9397.5	9609.9	9721.1
7.5°	6618.9	6602.7	6610.8	6847.4	7015.3	6893.9	6989.0	6659.4	6679.6	6831.3	6718.0
10°	4920.2	4697.7	4572.4	4750.3	4934.4	4867.6	4703.8	4596.6	4671.5	4839.3	4827.2
12.5°	3866.6	3547.1	3359.0	3231.6	3383.3	3257.9	3253.8	3160.8	3059.7	3077.9	3346.9
15°	2908.0	2675.5	2453.0	2248.8	2244.7	2202.3	1985.9	1743.2	1723.0	1735.1	1874.7
17.5°	2000.0	1921.2	1830.2	1654.2	1607.7	1429.7	1219.4	1122.4	1073.8	1096.1	1142.6
20°	1405.5	1375.1	1385.3	1290.2	1223.5	1053.6	930.2	891.8	883.7	906.0	928.2
22.5°	1164.8	1110.2	1104.2	1061.7	995.0	871.6	804.9	782.6	772.5	792.7	808.9
25°	1019.2	964.6	942.4	916.1	845.3	760.4	719.9	699.7	689.6	701.7	711.8
27.5°	897.9	847.3	827.1	808.9	740.2	679.5	647.1	628.9	620.8	624.9	635.0
30°	806.9	762.4	736.1	713.9	655.2	612.7	584.4	566.2	558.1	558.1	568.3
32.5°	711.8	687.6	663.3	635.0	580.4	552.1	523.8	503.5	495.5	497.5	505.6
35°	592.5	584.4	590.5	564.2	517.7	493.4	465.1	442.9	436.8	438.8	446.9
37.5°	525.8	489.4	511.6	497.5	471.2	438.8	402.4	382.2	372.1	378.2	382.2
40°	483.3	438.8	422.7	436.8	432.8	380.2	347.8	327.6	319.5	321.5	325.6
42.5°	446.9	394.3	357.9	355.9	380.2	331.7	297.3	279.1	269.0	269.0	273.0
45°	412.5	355.9	311.4	277.1	319.5	281.1	248.7	232.6	220.4	220.4	222.5
47.5°	386.3	323.6	271.0	226.5	240.7	230.5	204.2	188.1	175.9	175.9	178.0
50°	362.0	291.2	234.6	190.1	180.0	190.1	165.8	147.6	139.5	137.5	141.6
52.5°	335.7	258.9	200.2	161.8	141.6	143.6	129.4	117.3	107.2	107.2	111.2
55°	309.4	232.6	173.9	137.5	117.3	107.2	103.1	95.0	87.0	87.0	91.0
57.5°	283.1	204.2	147.6	113.2	93.0	84.9	84.9	78.9	72.8	72.8	76.8
60°	258.9	175.9	121.3	93.0	72.8	70.8	72.8	66.7	62.7	62.7	66.7
62.5°	230.5	149.6	99.1	76.8	58.6	56.6	62.7	58.6	54.6	54.6	58.6
65°	196.2	127.4	78.9	58.6	44.5	44.5	52.6	48.5	44.5	44.5	48.5
67.5°	165.8	107.2	60.7	42.5	32.4	34.4	44.5	40.4	38.4	38.4	42.5
70°	137.5	82.9	42.5	26.3	18.2	26.3	34.4	34.4	34.4	34.4	38.4
72.5°	103.1	56.6	24.3	10.1	8.1	18.2	28.3	32.4	30.3	30.3	36.4
75°	66.7	32.4	8.1	0.0	0.0	10.1	22.2	26.3	26.3	24.3	30.3
77.5°	38.4	10.1	0.0	0.0	0.0	0.0	14.2	12.1	10.1	8.1	14.2
80°	10.1	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°	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8	14321.8
2.5°	12619.0	12857.6	13193.3	13549.3	14097.3	14532.1	14958.8	15324.8	15466.4	15525.0
5°	9988.0	10337.9	10829.3	11460.2	12449.1	13338.9	14240.9	15148.9	15543.2	15642.3
7.5°	7166.9	7613.9	8238.8	9029.5	10188.2	11340.9	12600.8	13933.5	14544.2	14697.9
10°	5304.4	5850.4	6566.3	7399.5	8505.7	9690.8	11063.9	12586.7	13284.3	13488.6
12.5°	3763.5	4501.6	5460.1	6473.3	7431.9	8489.5	9878.8	11557.3	12289.4	12509.8
15°	2210.3	2924.2	4058.7	5415.7	6643.2	7715.0	9126.5	11029.5	11836.4	12058.8
17.5°	1268.0	1623.9	2481.3	3994.0	5660.4	7144.7	8889.9	11160.9	12111.4	12317.7
20°	968.7	1081.9	1429.7	2572.3	4511.7	6584.5	8889.9	11905.1	13076.0	13379.4
22.5°	847.3	930.2	1071.8	1534.9	3320.6	5983.9	8993.1	12981.0	14511.9	14847.6
25°	752.3	827.1	948.4	1154.7	2265.0	5270.1	9237.8	14301.5	16202.5	16637.3
27.5°	673.4	744.2	853.4	1011.1	1549.1	4408.6	9567.4	15850.6	18067.0	18414.9
30°	602.6	669.4	768.5	879.7	1195.2	3431.8	9848.5	17310.7	19531.2	19905.3
32.5°	535.9	596.6	685.6	768.5	978.8	2538.0	9878.8	18467.4	20746.5	21118.6
35°	473.2	527.8	608.7	673.4	810.9	2004.1	9407.6	19470.5	21961.9	22453.3
37.5°	412.5	465.1	535.9	584.4	713.9	1634.0	8687.7	20588.8	23521.1	23976.1
40°	355.9	402.4	475.2	507.6	675.4	1255.8	7905.1	21761.7	25049.9	25466.5
42.5°	303.3	347.8	418.6	481.3	592.5	938.3	7059.8	22861.8	26425.1	26861.9
45°	252.8	299.3	370.1	509.6	491.4	701.7	6155.8	23591.9	27511.1	27986.3
47.5°	204.2	256.8	353.9	485.3	392.3	515.7	5439.9	24283.5	28334.1	28803.3
50°	163.8	216.4	398.4	432.8	321.5	394.3	5140.6	24902.3	28874.1	29325.0
52.5°	133.5	182.0	376.1	331.7	269.0	325.6	5302.4	25905.4	29373.6	29656.7
55°	111.2	143.6	226.5	230.5	228.5	277.1	5502.6	27345.2	30665.8	30799.3
57.5°	97.1	115.3	157.7	178.0	192.1	246.7	5506.7	29412.0	32665.8	32748.8
60°	82.9	101.1	131.4	143.6	165.8	220.4	5306.5	30133.9	33452.5	33727.5
62.5°	72.8	89.0	109.2	119.3	139.5	198.2	4837.3	29088.4	32372.6	32839.8
65°	64.7	80.9	91.0	101.1	123.4	178.0	4064.8	26997.4	30580.9	31068.2
67.5°	56.6	70.8	80.9	91.0	111.2	157.7	2993.0	24568.6	28524.2	28928.7
70°	50.6	62.7	72.8	80.9	97.1	133.5	1816.0	20847.7	25680.9	25848.7
72.5°	48.5	56.6	66.7	72.8	84.9	117.3	920.1	15320.8	20530.2	20803.2
75°	42.5	50.6	60.7	64.7	74.8	101.1	374.1	10062.8	14877.9	15316.7
77.5°	34.4	46.5	54.6	58.6	64.7	82.9	190.1	6430.8	10441.0	10724.1
80°	12.1	34.4	46.5	48.5	54.6	60.7	125.4	3520.8	6056.7	6178.1
82.5°	0.0	22.2	36.4	34.4	38.4	46.5	80.9	1674.4	3998.0	4042.5
85°	0.0	10.1	28.3	22.2	16.2	32.4	28.3	366.0	2097.1	2184.1
87.5°	0.0	0.0	2.0	10.1	8.1	12.1	4.0	2.0	190.1	240.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)