

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: P457656

Luminaire Tested: **GLAN-SA9A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32545 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 274
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

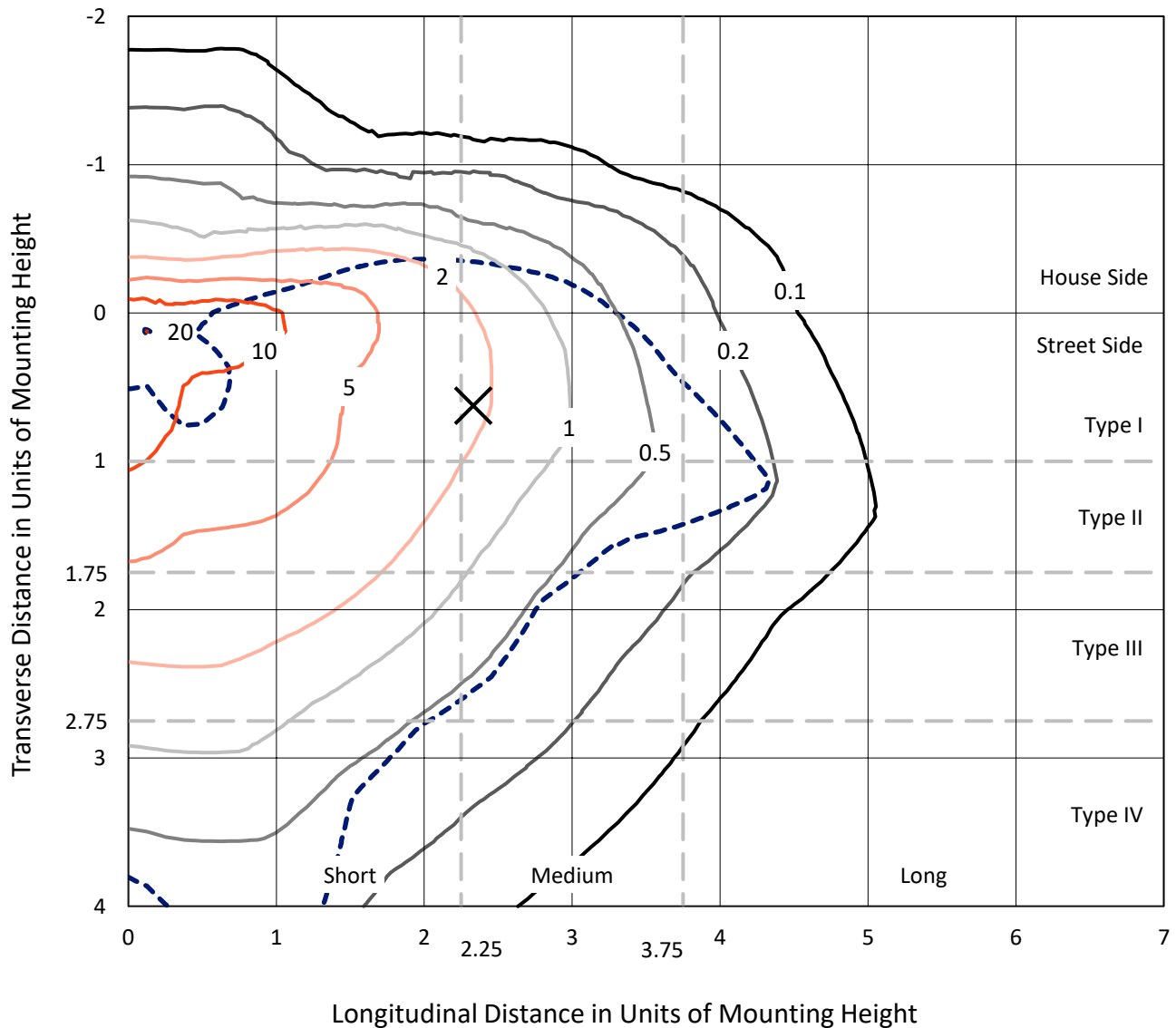


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

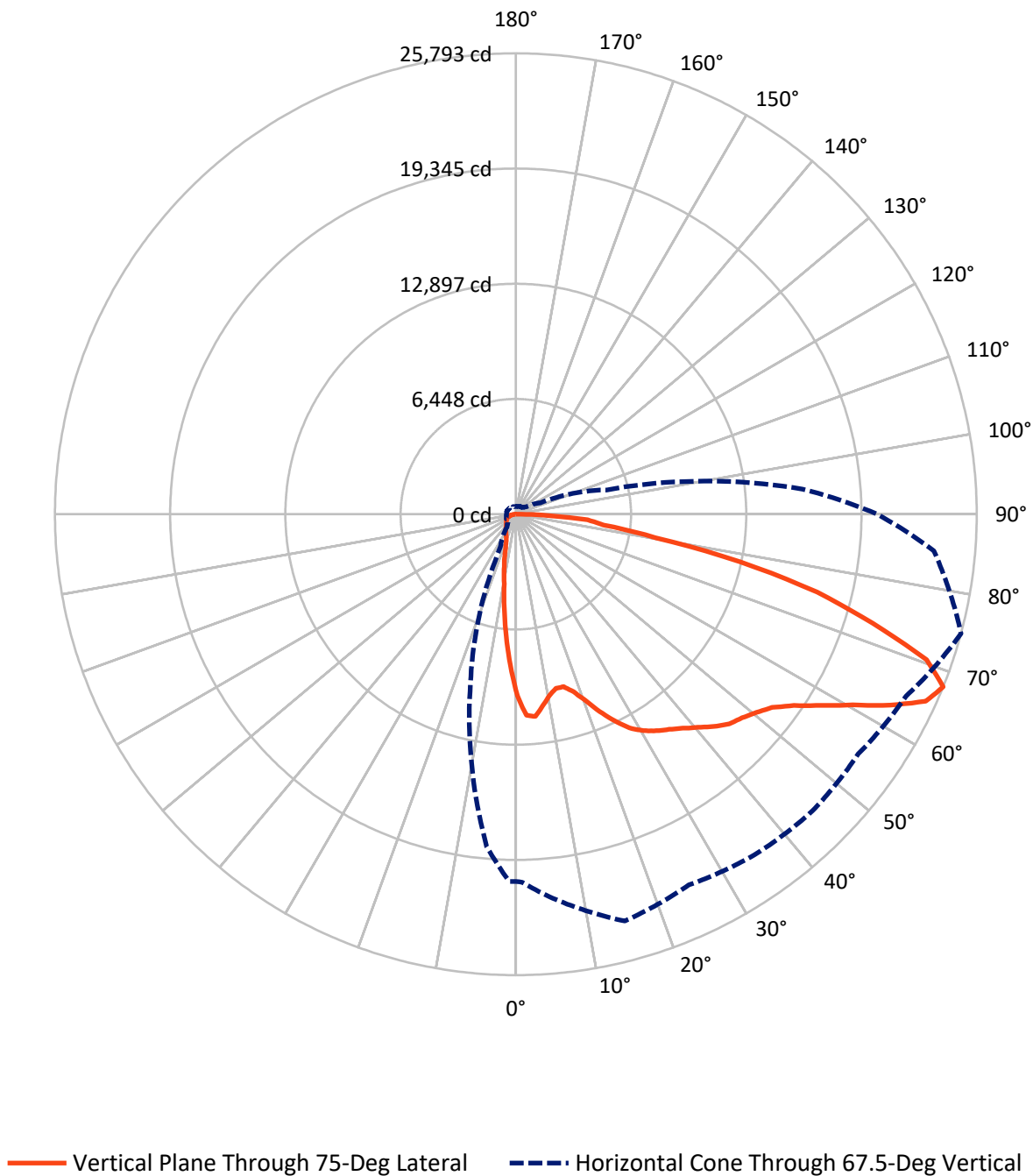


Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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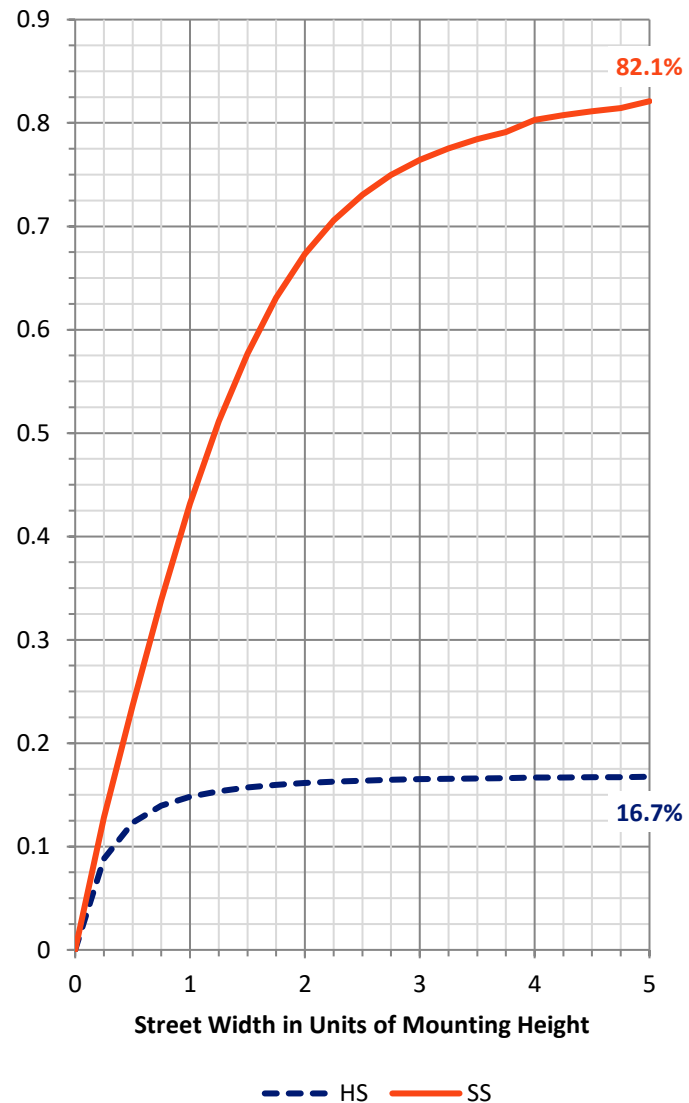
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5500.8	0.0	5500.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27044.2	0.0	27044.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	32545.0	0.0	32545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.2	2.4
10°-20°	1608.4	4.9
20°-30°	2314.5	7.1
30°-40°	3333.5	10.2
40°-50°	4682.6	14.4
50°-60°	6530.6	20.1
60°-70°	7764.5	23.9
70°-80°	4572.8	14.1
80°-90°	967.0	3.0
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°	32545.0	100.0
0°-180°	32545.0	100.0

Coefficient of Utilization



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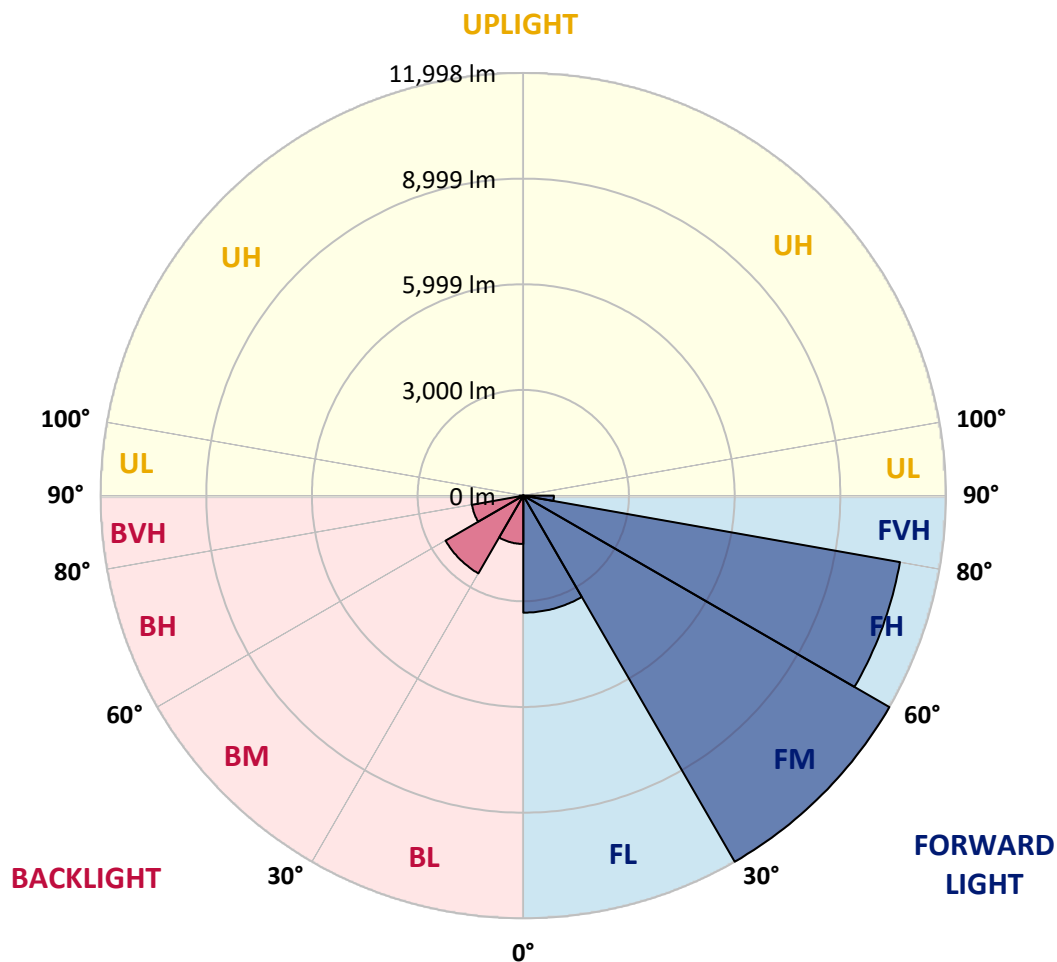
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3322.0	10.2			
FM	(30°-60°)	11998.1	36.9			
FH	(60°-80°)	10857.1	33.4			G4/12000
FVH	(80°-90°)	867.0	2.7			G5
BL	(0°-30°)	1372.1	4.2	B3/2500		
BM	(30°-60°)	2548.5	7.8	B3/5000		
BH	(60°-80°)	1480.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	100.0	0.3			G2/225
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°	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8
2.5°	10963.0	10977.6	11071.5	11344.9	11532.7	11601.6	11649.6	11559.9	11472.2	11259.3	10937.9
5°	10929.6	11015.1	11259.3	11872.9	12357.1	12565.8	12628.4	12359.2	11914.6	11367.8	10710.4
7.5°	10291.0	10405.7	10781.4	11810.3	12663.9	13152.2	13087.5	12601.3	11799.9	10825.2	9907.0
10°	9533.4	9660.7	10113.6	11357.4	12457.3	13129.3	13129.3	12536.6	11472.2	10313.9	9255.8
12.5°	8932.3	9065.9	9583.5	10892.0	12027.3	12663.9	12770.3	12261.1	11236.4	9990.4	8828.0
15°	8734.1	8863.5	9420.7	10610.3	11572.4	11960.6	11996.0	11829.1	11121.6	10013.4	8809.2
17.5°	8980.3	9147.3	9710.8	10693.8	11155.0	11177.9	11205.1	11336.5	11134.1	10432.9	9189.0
20°	9692.0	9871.5	10460.0	10963.0	10789.8	10551.8	10566.4	10904.5	11282.3	11125.8	10096.9
22.5°	10718.8	10875.3	11478.5	11436.7	10635.3	10144.9	10042.6	10514.3	11501.4	11989.8	11063.1
25°	11827.0	12010.6	12703.5	12140.0	10679.1	9902.8	9838.1	10284.7	11728.9	12797.4	12179.7
27.5°	13095.9	13275.4	13822.2	12849.6	10908.7	9884.0	9806.8	10263.8	11933.4	13544.6	13246.1
30°	14039.2	14204.1	14575.6	13446.5	11190.5	10009.2	9913.2	10428.7	12108.7	14055.9	14285.5
32.5°	14780.1	14951.2	15153.7	13818.0	11561.9	10236.7	10059.3	10729.2	12338.3	14446.2	15055.6
35°	15552.3	15754.7	15740.1	14147.7	11908.4	10499.7	10326.4	11163.3	12699.4	14786.3	16032.3
37.5°	16531.1	16612.5	16508.1	14444.1	12323.7	10973.4	10877.4	11808.2	13212.8	15197.5	17173.9
40°	17524.5	17687.3	17150.9	14803.0	12828.7	11864.6	11854.1	12762.0	13822.2	15679.6	18280.0
42.5°	18376.0	18513.7	17752.0	15116.1	13440.2	12951.9	13031.2	14041.3	14621.5	16238.9	19169.0
45°	19016.7	19139.8	18307.1	15418.7	14245.8	14208.2	14675.7	15412.4	15629.5	16741.9	19690.8
47.5°	19561.4	19680.3	18693.2	15877.8	15241.3	15708.8	16522.7	16842.0	16491.4	17029.9	20275.1
50°	20020.5	20056.0	18958.2	16424.6	16476.8	17547.4	18336.3	18542.9	17342.9	17443.1	20782.3
52.5°	20498.4	20452.5	19415.3	17113.3	17812.5	19292.2	19866.1	20081.0	18158.9	17952.3	21521.1
55°	21569.1	21612.9	20440.0	17981.5	19162.8	21005.6	21761.1	21554.5	19062.6	18889.4	22460.2
57.5°	22863.0	22825.4	21882.1	19340.2	20538.1	22600.0	23163.5	22831.7	20268.9	20177.0	23411.9
60°	23366.0	23416.1	23088.4	20801.1	21894.6	23996.2	24572.3	24056.8	21715.2	21673.4	24129.8
62.5°	22860.9	23142.7	23363.9	22101.3	23050.8	25023.0	25594.9	25006.3	23224.1	23526.7	24632.8
65°	21855.0	21915.5	22668.9	23203.2	23608.1	25192.1	25490.5	25177.5	24484.6	25215.0	24609.8
67.5°	20548.5	20600.7	21483.5	23564.2	22890.1	23272.1	23480.8	23388.9	24094.3	25793.1	23476.6
70°	19304.7	19262.9	20195.8	22643.9	19926.6	19346.4	19519.6	19231.6	20790.6	24380.2	21253.9
72.5°	16883.8	17034.0	18035.8	20085.2	15777.7	14834.3	15212.1	14467.0	15990.5	20880.4	17251.1
75°	13225.3	13260.8	14932.4	16856.6	11902.1	10414.1	10925.4	10614.4	12248.6	17418.0	11912.6
77.5°	9157.7	9078.4	10875.3	12874.7	8487.8	7623.8	7632.1	7484.0	8552.5	12824.6	8093.4
80°	5816.4	5695.4	6807.8	7953.5	5833.1	6240.1	6035.6	6029.3	5568.1	7911.8	4894.0
82.5°	3143.0	3276.6	4301.3	4985.8	4184.4	4823.0	4420.3	4290.9	3821.3	4952.4	3130.5
85°	1431.7	1556.9	2293.6	3391.4	3178.5	3214.0	2147.5	2533.6	3161.8	4021.6	1671.7
87.5°	139.8	179.5	473.7	1600.7	1085.2	855.7	319.3	615.7	795.1	1429.6	133.6
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°	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8
2.5°	10806.4	10697.9	10328.5	10023.8	9700.3	9454.1	9132.7	8917.7	8769.5	8546.2	8519.1
5°	10309.7	10044.7	9401.9	8746.6	8181.0	7755.3	7323.3	6926.7	6693.0	6619.9	6526.0
7.5°	9472.9	9026.2	8199.8	7448.5	6799.4	6165.0	5676.6	5330.2	5098.5	4962.9	4800.1
10°	8784.2	8266.6	7260.6	6340.3	5806.0	5411.6	4981.7	4610.2	4324.2	4080.1	3946.5
12.5°	8320.8	7736.5	6605.3	5858.2	5445.0	5025.5	4522.5	4105.1	3683.5	3406.0	3287.0
15°	8181.0	7563.3	6402.9	5618.2	5025.5	4476.6	3913.1	3368.4	2951.0	2688.0	2600.4
17.5°	8523.3	7776.1	6400.8	5298.9	4532.9	3877.6	3155.5	2644.2	2216.4	2020.2	1957.6
20°	9161.9	8185.2	6419.6	4983.7	3998.7	3076.2	2295.7	1876.2	1671.7	1588.2	1556.9
22.5°	10053.0	8809.2	6475.9	4672.8	3414.3	2362.5	1719.7	1506.8	1433.8	1419.2	1412.9
25°	11150.8	9581.4	6665.9	4393.1	2921.8	1803.2	1437.9	1341.9	1300.2	1285.6	1283.5
27.5°	12160.9	10579.0	6895.4	4153.1	2446.0	1554.8	1300.2	1218.8	1177.1	1175.0	1179.2
30°	13072.9	11413.8	7087.4	3883.9	2084.9	1381.6	1210.5	1129.1	1089.4	1087.3	1099.8
32.5°	13861.8	12100.4	7229.3	3618.8	1884.6	1275.2	1129.1	1041.4	1008.0	1001.8	1008.0
35°	14705.0	12784.9	7164.6	3412.2	1769.8	1187.5	1068.5	983.0	943.3	924.5	924.5
37.5°	15667.1	13490.3	7054.0	3241.1	1717.6	1114.5	1016.4	932.9	893.2	874.4	872.4
40°	16716.8	14195.7	6901.7	3088.7	1665.4	1070.6	980.9	893.2	845.2	826.4	822.3
42.5°	17643.4	14798.9	6776.5	2988.6	1579.9	1079.0	949.6	864.0	803.5	778.4	776.4
45°	18449.0	15406.2	6753.5	2930.1	1508.9	1066.5	941.2	841.1	770.1	743.0	738.8
47.5°	19079.3	16038.5	6885.0	2896.7	1431.7	999.7	995.5	826.4	740.9	711.7	707.5
50°	19847.3	16935.9	7185.5	2827.9	1360.7	937.1	1051.8	824.4	717.9	680.4	669.9
52.5°	20869.9	18104.7	7592.5	2704.7	1258.5	878.6	1003.8	824.4	690.8	653.2	640.7
55°	22416.4	19594.8	7991.1	2531.5	1114.5	801.4	905.8	799.3	651.1	617.7	609.4
57.5°	23441.1	20684.2	8245.7	2291.5	935.0	745.1	780.5	759.7	611.5	576.0	576.0
60°	23493.3	20976.4	8124.7	1988.9	822.3	692.9	678.3	765.9	576.0	538.4	534.3
62.5°	22892.2	20260.5	7494.4	1717.6	761.8	636.5	613.6	672.0	540.5	503.0	496.7
65°	21953.1	18434.4	6400.8	1588.2	728.4	586.4	553.1	551.0	503.0	467.5	459.1
67.5°	20227.1	16109.5	5259.2	1513.1	711.7	530.1	498.8	488.4	459.1	429.9	425.7
70°	17683.1	13492.4	4217.8	1481.8	703.3	471.7	446.6	434.1	409.1	386.1	384.0
72.5°	13757.5	10944.2	3481.1	1460.9	699.1	417.4	390.3	373.6	359.0	338.1	338.1
75°	9881.9	8051.6	2656.7	1316.9	647.0	359.0	329.7	319.3	298.4	281.7	285.9
77.5°	6229.7	5422.0	1748.9	968.4	500.9	288.0	263.0	256.7	240.0	217.0	231.7
80°	4207.4	3812.9	1020.5	609.4	315.1	210.8	202.4	200.4	181.6	156.5	158.6
82.5°	2863.4	2809.1	530.1	346.4	181.6	123.1	119.0	123.1	102.3	83.5	83.5
85°	1118.6	1527.7	250.4	135.7	58.4	18.8	27.1	29.2	16.7	8.3	10.4
87.5°	20.9	156.5	6.3	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°	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8
2.5°	8477.4	8458.6	8489.9	8356.3	8383.4	8433.5	8458.6	8473.2	8679.8	8631.8	8763.3
5°	6613.7	6594.9	6715.9	6732.6	6795.2	6782.7	6843.2	6857.9	6933.0	6960.1	7143.8
7.5°	4810.5	4891.9	5029.7	5100.6	5207.0	5240.4	5209.1	5286.4	5129.8	5242.5	5275.9
10°	3865.1	3767.0	3708.6	3871.4	3892.2	4046.7	3984.1	3934.0	4025.8	4030.0	4117.6
12.5°	3218.1	3007.4	2867.5	2913.4	2963.5	3030.3	3040.7	3140.9	3207.7	3270.3	3322.5
15°	2523.2	2450.1	2322.8	2260.2	2331.2	2358.3	2423.0	2506.5	2577.4	2596.2	2667.2
17.5°	1936.7	1949.3	1928.4	1890.8	1934.6	1955.5	1959.7	1961.8	1980.6	1968.0	2072.4
20°	1559.0	1602.8	1655.0	1663.3	1677.9	1688.4	1669.6	1598.6	1600.7	1644.6	1677.9
22.5°	1410.8	1419.2	1477.6	1496.4	1542.3	1523.5	1469.2	1435.9	1431.7	1442.1	1458.8
25°	1293.9	1306.5	1348.2	1377.4	1412.9	1379.5	1339.8	1308.5	1304.4	1314.8	1331.5
27.5°	1189.6	1208.4	1245.9	1275.2	1308.5	1277.2	1239.7	1212.5	1210.5	1208.4	1218.8
30°	1106.1	1127.0	1154.1	1187.5	1210.5	1183.3	1147.8	1133.2	1131.2	1127.0	1131.2
32.5°	1022.6	1056.0	1083.1	1099.8	1122.8	1101.9	1074.8	1066.5	1051.8	1039.3	1033.1
35°	928.7	964.2	1005.9	1026.8	1049.8	1028.9	1010.1	974.6	949.6	947.5	951.7
37.5°	874.4	889.1	922.5	957.9	980.9	970.5	935.0	899.5	893.2	893.2	897.4
40°	826.4	832.7	847.3	893.2	935.0	903.7	859.8	849.4	849.4	847.3	849.4
42.5°	778.4	784.7	784.7	820.2	887.0	836.9	803.5	803.5	803.5	805.6	811.8
45°	734.6	736.7	734.6	759.7	822.3	780.5	757.6	763.8	768.0	772.2	776.4
47.5°	697.1	699.1	697.1	717.9	749.2	732.5	720.0	728.4	736.7	743.0	747.1
50°	663.7	661.6	665.8	678.3	692.9	697.1	688.7	701.2	705.4	713.8	724.2
52.5°	634.4	632.4	636.5	642.8	663.7	663.7	663.7	674.1	682.4	690.8	705.4
55°	601.1	603.1	609.4	617.7	644.9	640.7	642.8	651.1	659.5	672.0	680.4
57.5°	569.7	573.9	582.3	594.8	621.9	619.8	621.9	626.1	636.5	642.8	651.1
60°	534.3	542.6	553.1	561.4	588.5	586.4	596.9	605.2	611.5	611.5	615.7
62.5°	498.8	511.3	521.7	528.0	557.2	559.3	573.9	580.2	584.4	580.2	586.4
65°	463.3	482.1	486.3	494.6	523.8	525.9	542.6	557.2	553.1	548.9	559.3
67.5°	427.8	450.8	448.7	459.1	488.4	492.5	507.1	532.2	523.8	519.7	528.0
70°	388.2	404.9	407.0	413.2	452.9	446.6	469.6	492.5	486.3	488.4	488.4
72.5°	344.4	359.0	359.0	371.5	413.2	402.8	421.6	446.6	446.6	444.5	444.5
75°	292.2	300.5	308.9	327.7	371.5	359.0	371.5	394.4	398.6	394.4	394.4
77.5°	235.8	248.4	252.5	277.6	308.9	306.8	319.3	329.7	338.1	333.9	333.9
80°	167.0	179.5	196.2	223.3	242.1	248.4	254.6	263.0	267.1	267.1	271.3
82.5°	93.9	112.7	127.3	154.4	162.8	194.1	192.0	198.3	192.0	169.0	187.8
85°	20.9	39.7	56.3	71.0	81.4	112.7	119.0	133.6	110.6	102.3	102.3
87.5°	0.0	0.0	0.0	0.0	0.0	16.7	33.4	45.9	39.7	33.4	33.4
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: P457656

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8	10167.8
2.5°	8873.9	9055.5	9274.6	9652.3	9917.4	10203.3	10491.3	10798.1	10879.5	10963.0
5°	7193.9	7550.7	7744.8	8252.0	8784.2	9460.3	10013.4	10618.6	10871.1	10929.6
7.5°	5449.1	5691.2	6200.5	6713.9	7373.3	8082.9	8930.2	9873.6	10167.8	10291.0
10°	4320.1	4649.8	5096.4	5647.4	6225.5	6989.3	7945.2	9047.1	9464.5	9533.4
12.5°	3677.3	4044.6	4530.9	5113.1	5659.9	6235.9	7200.1	8337.5	8784.2	8932.3
15°	2940.6	3385.1	3946.5	4560.1	5154.9	5785.1	6761.9	8045.4	8560.8	8734.1
17.5°	2310.3	2669.3	3276.6	3942.3	4647.7	5445.0	6670.0	8185.2	8819.6	8980.3
20°	1767.7	2024.4	2535.7	3239.0	4065.5	5109.0	6693.0	8713.2	9472.9	9692.0
22.5°	1527.7	1659.2	1970.1	2640.0	3564.6	4816.8	6786.9	9437.4	10353.6	10718.8
25°	1383.7	1452.5	1627.9	2066.1	3086.7	4532.9	7001.9	10412.0	11584.9	11827.0
27.5°	1260.5	1310.6	1419.2	1734.3	2652.6	4270.0	7252.3	11493.1	12734.8	13095.9
30°	1143.7	1210.5	1312.7	1540.2	2375.0	4030.0	7567.4	12369.6	13703.2	14039.2
32.5°	1053.9	1120.7	1214.6	1404.5	2139.2	3777.5	7755.3	13139.7	14494.2	14780.1
35°	980.9	1037.2	1135.3	1296.0	1959.7	3585.5	7717.7	13751.2	15260.1	15552.3
37.5°	928.7	976.7	1074.8	1193.8	1824.0	3385.1	7698.9	14558.9	16193.0	16531.1
40°	880.7	930.8	1020.5	1127.0	1688.4	3149.3	7709.4	15360.3	17186.4	17524.5
42.5°	843.1	899.5	972.5	1108.2	1548.5	2959.4	7709.4	16057.3	18050.4	18376.0
45°	811.8	872.4	943.3	1106.1	1437.9	2815.4	7657.2	16656.3	18739.1	19016.7
47.5°	784.7	851.5	953.8	1068.5	1410.8	2711.0	7611.3	17136.3	19300.5	19561.4
50°	765.9	845.2	1014.3	1024.7	1419.2	2679.7	7832.5	17741.5	19795.1	20020.5
52.5°	751.3	847.3	1012.2	960.0	1404.5	2700.6	8293.7	18686.9	20481.7	20498.4
55°	722.1	845.2	960.0	887.0	1344.0	2736.0	8886.4	20060.2	21556.5	21569.1
57.5°	692.9	822.3	891.1	824.4	1220.9	2736.0	9600.2	21360.4	22852.6	22863.0
60°	663.7	855.7	782.6	770.1	1060.2	2686.0	10353.6	21932.2	23259.5	23366.0
62.5°	634.4	861.9	699.1	722.1	943.3	2564.9	10915.0	21299.8	22708.6	22860.9
65°	601.1	695.0	644.9	672.0	882.8	2362.5	10737.6	20141.6	21673.4	21855.0
67.5°	561.4	588.5	586.4	619.8	861.9	2064.0	9802.6	18676.5	20559.0	20548.5
70°	513.4	528.0	534.3	569.7	822.3	1832.4	8168.5	16775.2	19070.9	19304.7
72.5°	463.3	475.8	482.1	513.4	782.6	1700.9	6340.3	14156.1	16518.5	16883.8
75°	409.1	417.4	425.7	452.9	740.9	1506.8	4516.3	10806.4	12651.3	13225.3
77.5°	352.7	352.7	363.1	390.3	624.0	1243.8	3030.3	7580.0	8571.3	9157.7
80°	285.9	288.0	283.8	313.0	459.1	851.5	1721.8	5063.0	5703.8	5816.4
82.5°	219.1	212.9	215.0	229.6	342.3	580.2	918.3	3145.1	3205.6	3143.0
85°	137.7	137.7	133.6	150.3	219.1	302.6	500.9	1926.3	1504.7	1431.7
87.5°	56.3	45.9	52.2	60.5	104.3	123.1	196.2	396.5	152.4	139.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)