

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: P649647

Luminaire Tested: **GLAN-SA9D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649647
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-SA9D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 47333.1 lumens
Efficiency: N/A
Efficacy: 85.7 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

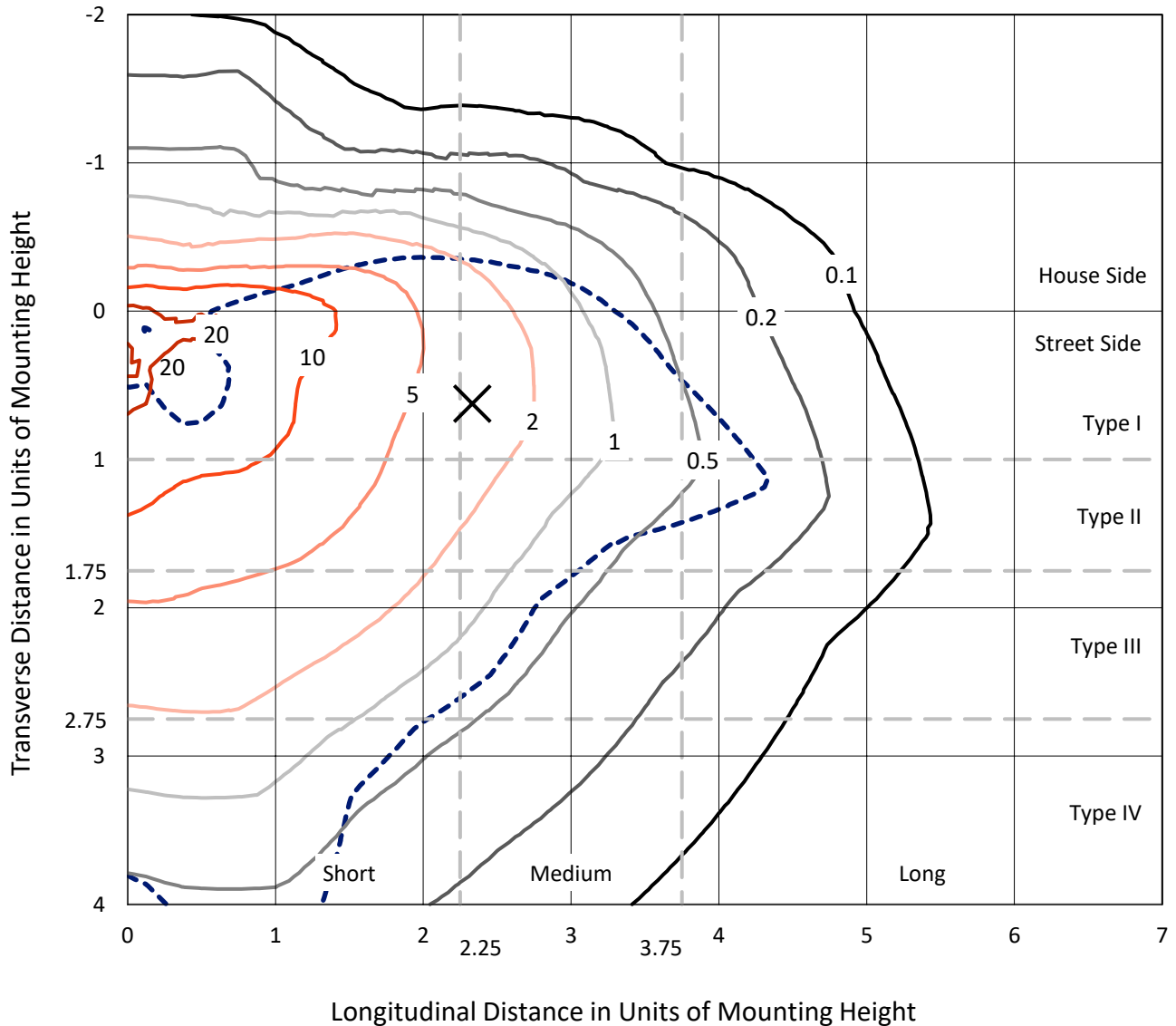
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

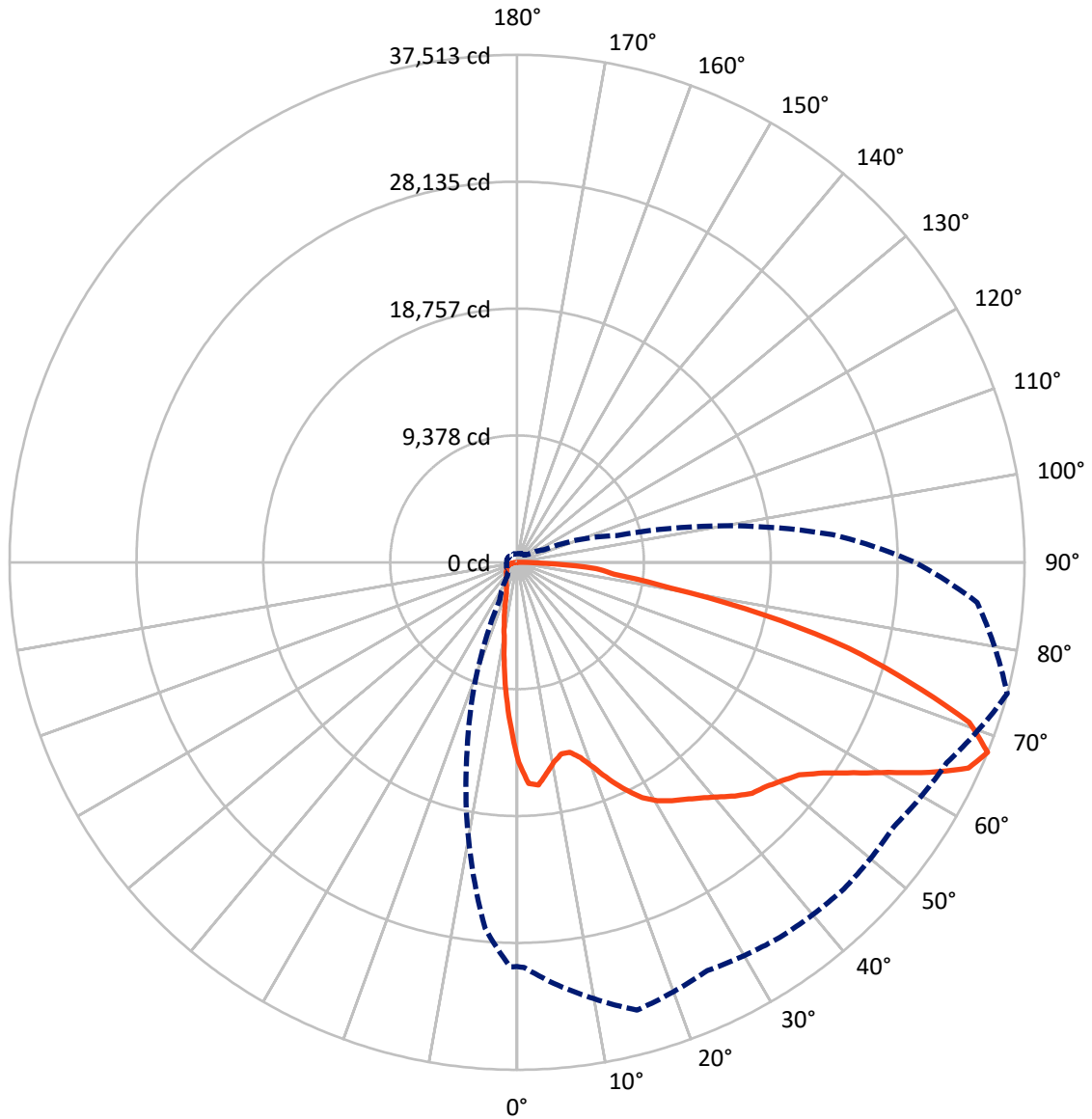
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 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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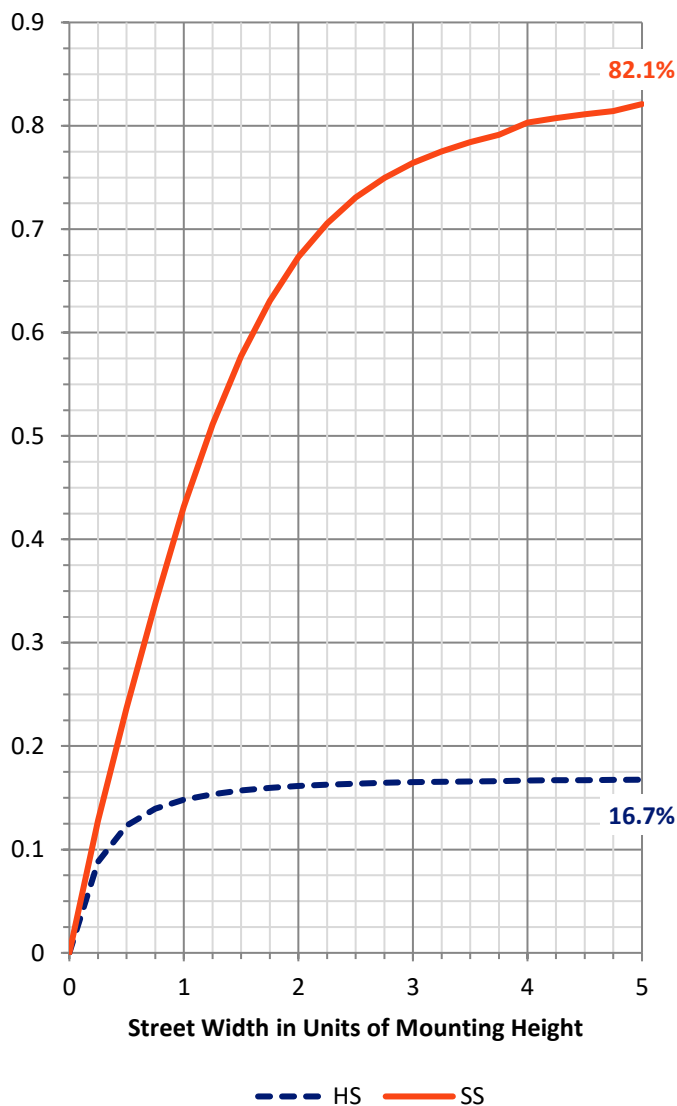
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8000.3	0.0	8000.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	39332.8	0.0	39332.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	47333.1	0.0	47333.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1121.6	2.4
10°-20°	2339.2	4.9
20°-30°	3366.1	7.1
30°-40°	4848.2	10.2
40°-50°	6810.3	14.4
50°-60°	9498.0	20.1
60°-70°	11292.6	23.9
70°-80°	6650.7	14.1
80°-90°	1406.4	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°	47333.1	100.0
0°-180°	47333.1	100.0

Coefficient of Utilization

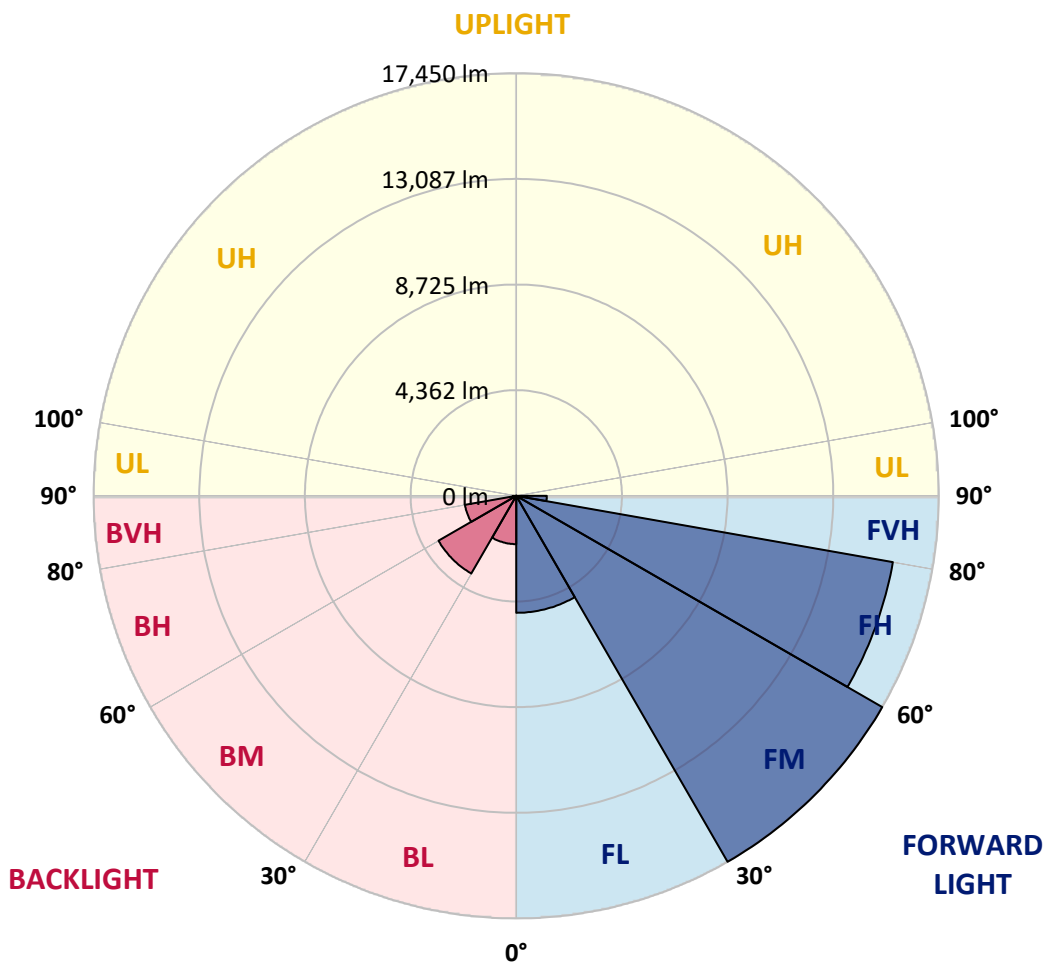


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4831.4	10.2			
FM (30°-60°)	17450.0	36.9			
FH (60°-80°)	15790.5	33.4			G5
FVH (80°-90°)	1260.9	2.7			G5
BL (0°-30°)	1995.5	4.2	B3/2500		
BM (30°-60°)	3706.6	7.8	B3/5000		
BH (60°-80°)	2152.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	145.5	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°	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0
2.5°	15944.5	15965.7	16102.2	16499.9	16773.1	16873.3	16943.0	16812.6	16685.0	16375.4	15908.1
5°	15895.8	16020.3	16375.4	17267.8	17972.0	18275.5	18366.6	17975.1	17328.6	16533.3	15577.2
7.5°	14967.0	15134.0	15680.4	17176.7	18418.2	19128.5	19034.4	18327.1	17161.6	15744.1	14408.6
10°	13865.3	14050.4	14709.0	16518.1	18117.7	19095.1	19095.1	18233.1	16685.0	15000.5	13461.6
12.5°	12991.1	13185.3	13938.1	15841.3	17492.5	18418.2	18573.0	17832.4	16342.1	14530.0	12839.3
15°	12702.8	12890.9	13701.3	15431.4	16830.7	17395.3	17446.9	17204.1	16175.1	14563.4	12812.0
17.5°	13060.9	13303.7	14123.3	15552.9	16223.7	16257.1	16296.5	16487.8	16193.3	15173.4	13364.4
20°	14096.0	14357.0	15212.9	15944.5	15692.5	15346.5	15367.7	15859.4	16408.9	16181.2	14684.8
22.5°	15589.3	15817.0	16694.2	16633.4	15467.9	14754.6	14605.8	15291.8	16727.5	17437.8	16090.1
25°	17201.0	17468.2	18475.9	17656.3	15531.7	14402.5	14308.4	14958.0	17058.4	18612.5	17714.0
27.5°	19046.6	19307.5	20102.8	18688.3	15865.5	14375.2	14262.9	14927.6	17355.8	19699.1	19265.1
30°	20418.4	20658.3	21198.6	19556.4	16275.3	14557.3	14417.7	15167.4	17610.8	20442.7	20776.7
32.5°	21496.0	21744.9	22039.3	20096.7	16815.6	14888.1	14630.1	15604.5	17944.7	21010.4	21896.7
35°	22619.1	22913.5	22892.3	20576.3	17319.4	15270.6	15018.6	16235.8	18469.8	21505.1	23317.2
37.5°	24042.6	24161.0	24009.2	21007.3	17923.5	15959.7	15820.0	17173.8	19216.5	22103.1	24977.5
40°	25487.4	25724.2	24944.1	21529.4	18658.0	17255.7	17240.5	18560.9	20102.8	22804.2	26586.2
42.5°	26725.8	26926.2	25818.3	21984.7	19547.4	18837.1	18952.4	20421.5	21265.3	23617.7	27879.3
45°	27657.7	27836.7	26625.7	22424.8	20719.0	20664.3	21344.3	22415.7	22731.4	24349.2	28638.1
47.5°	28449.9	28622.9	27187.2	23092.5	22166.8	22846.7	24030.5	24494.9	23984.9	24768.1	29487.9
50°	29117.7	29169.3	27572.7	23887.8	23963.7	25520.8	26668.2	26968.6	25223.3	25369.0	30225.5
52.5°	29812.7	29745.9	28237.4	24889.5	25906.3	28058.3	28893.0	29205.7	26410.2	26109.7	31300.0
55°	31369.9	31433.6	29727.8	26152.2	27870.2	30550.3	31649.1	31348.6	27724.5	27472.5	32665.9
57.5°	33251.7	33197.1	31825.1	28128.2	29870.4	32869.3	33688.8	33206.2	29478.9	29345.3	34050.0
60°	33983.2	34056.1	33579.6	30252.8	31843.4	34899.9	35737.6	34988.0	31582.3	31521.6	35094.1
62.5°	33248.7	33658.4	33980.2	32143.9	33524.9	36393.3	37224.9	36369.0	33776.8	34216.9	35825.7
65°	31785.7	31873.7	32969.5	33746.5	34335.3	36639.2	37073.2	36617.9	35610.1	36672.5	35792.3
67.5°	29885.5	29961.5	31245.4	34271.6	33291.2	33846.7	34150.2	34016.7	35042.5	37513.3	34144.1
70°	28076.6	28015.8	29372.6	32933.1	28981.1	28137.3	28389.2	27970.3	30237.7	35458.4	30911.5
72.5°	24555.6	24774.1	26231.0	29211.8	22946.9	21574.9	22124.3	21040.7	23256.5	30368.2	25089.8
75°	19234.7	19286.3	21717.6	24516.1	17310.3	15146.2	15889.8	15437.5	17814.2	25332.6	17325.5
77.5°	13318.9	13203.6	15817.0	18724.7	12344.5	11088.0	11100.1	10884.6	12438.7	18651.9	11770.9
80°	8459.4	8283.4	9901.2	11567.6	8483.6	9075.5	8778.1	8769.0	8098.2	11506.8	7117.8
82.5°	4571.2	4765.4	6255.8	7251.4	6085.8	7014.6	6428.7	6240.6	5557.7	7202.7	4553.0
85°	2082.2	2264.4	3335.8	4932.4	4622.8	4674.4	3123.3	3684.9	4598.5	5849.0	2431.3
87.5°	203.3	261.1	689.0	2328.1	1578.4	1244.5	464.4	895.4	1156.4	2079.2	194.3
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°	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0
2.5°	15716.8	15559.0	15021.7	14578.5	14108.1	13749.9	13282.5	12969.8	12754.4	12429.6	12390.1
5°	14994.4	14608.9	13674.0	12720.9	11898.4	11279.2	10650.8	10074.2	9734.2	9628.0	9491.4
7.5°	13777.2	13127.7	11925.7	10833.0	9889.0	8966.3	8256.0	7752.2	7415.2	7217.9	6981.2
10°	12775.6	12022.8	10559.9	9221.2	8444.2	7870.6	7245.3	6705.0	6289.1	5934.0	5739.8
12.5°	12101.7	11251.9	9606.7	8520.1	7919.1	7309.0	6577.5	5970.5	5357.3	4953.6	4780.6
15°	11898.4	10999.9	9312.3	8171.0	7309.0	6510.7	5691.2	4899.0	4291.9	3909.4	3782.0
17.5°	12396.1	11309.6	9309.2	7706.6	6592.7	5639.6	4589.4	3845.7	3223.5	2938.2	2847.1
20°	13324.9	11904.4	9336.6	7248.3	5815.7	4474.1	3338.9	2728.8	2431.3	2309.8	2264.4
22.5°	14621.0	12812.0	9418.6	6796.0	4965.8	3436.0	2501.1	2191.5	2085.3	2064.0	2054.9
25°	16217.7	13935.1	9694.8	6389.3	4249.4	2622.5	2091.3	1951.7	1891.0	1869.7	1866.7
27.5°	17686.7	15386.0	10028.7	6040.2	3557.4	2261.3	1891.0	1772.6	1711.9	1708.9	1714.9
30°	19013.1	16600.1	10307.9	5648.7	3032.2	2009.3	1760.5	1642.1	1584.4	1581.4	1599.6
32.5°	20160.4	17598.7	10514.3	5263.2	2740.9	1854.5	1642.1	1514.6	1466.1	1456.9	1466.1
35°	21386.7	18594.3	10420.2	4962.7	2574.0	1727.1	1554.1	1429.6	1372.0	1344.6	1344.6
37.5°	22786.0	19620.2	10259.3	4713.8	2498.1	1620.9	1478.2	1356.8	1299.1	1271.8	1268.8
40°	24312.8	20646.1	10037.7	4492.2	2422.1	1557.1	1426.6	1299.1	1229.3	1202.0	1195.9
42.5°	25660.5	21523.3	9855.6	4346.6	2297.7	1569.3	1381.1	1256.6	1168.6	1132.1	1129.2
45°	26832.1	22406.6	9822.3	4261.6	2194.5	1551.0	1368.9	1223.2	1120.0	1080.5	1074.5
47.5°	27748.7	23326.3	10013.5	4213.0	2082.2	1453.9	1447.8	1202.0	1077.6	1035.0	1028.9
50°	28865.7	24631.5	10450.5	4112.9	1979.0	1362.8	1529.8	1198.9	1044.1	989.5	974.4
52.5°	30353.0	26331.3	11042.4	3933.7	1830.3	1277.9	1460.0	1198.9	1004.7	950.0	931.8
55°	32602.2	28498.5	11622.1	3681.8	1620.9	1165.6	1317.3	1162.5	947.0	898.4	886.3
57.5°	34092.5	30082.9	11992.5	3332.8	1359.8	1083.6	1135.2	1104.8	889.3	837.7	837.7
60°	34168.4	30507.8	11816.4	2892.6	1195.9	1007.7	986.5	1114.0	837.7	783.1	777.0
62.5°	33294.3	29466.7	10899.8	2498.1	1107.9	925.7	892.4	977.3	786.1	731.5	722.4
65°	31928.3	26810.9	9309.2	2309.8	1059.3	852.9	804.4	801.3	731.5	679.9	667.7
67.5°	29418.2	23429.5	7649.0	2200.6	1035.0	770.9	725.4	710.3	667.7	625.3	619.2
70°	25718.1	19623.2	6134.3	2155.1	1022.9	686.0	649.6	631.3	594.9	561.6	558.5
72.5°	20008.7	15917.1	5062.9	2124.7	1016.8	607.1	567.6	543.3	522.1	491.7	491.7
75°	14372.1	11710.2	3863.9	1915.3	940.9	522.1	479.6	464.4	434.0	409.7	415.9
77.5°	9060.4	7885.7	2543.6	1408.4	728.5	418.9	382.4	373.3	349.1	315.7	336.9
80°	6119.1	5545.5	1484.3	886.3	458.4	306.5	294.4	291.4	264.1	227.6	230.7
82.5°	4164.5	4085.5	770.9	503.9	264.1	179.1	173.0	179.1	148.7	121.4	121.4
85°	1626.9	2221.8	364.3	197.3	85.0	27.3	39.5	42.5	24.3	12.1	15.2
87.5°	30.4	227.6	9.1	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0
2.5°	12329.4	12302.1	12347.6	12153.3	12192.8	12265.6	12302.1	12323.3	12623.8	12554.0	12745.2
5°	9618.8	9591.5	9767.6	9791.9	9882.9	9864.7	9952.8	9974.0	10083.2	10122.7	10389.9
7.5°	6996.3	7114.7	7315.1	7418.3	7573.1	7621.6	7576.2	7688.4	7460.7	7624.7	7673.2
10°	5621.4	5478.7	5393.7	5630.5	5660.9	5885.4	5794.4	5721.5	5855.1	5861.1	5988.6
12.5°	4680.5	4373.8	4170.5	4237.3	4310.1	4407.3	4422.5	4568.1	4665.3	4756.3	4832.2
15°	3669.7	3563.4	3378.3	3287.3	3390.5	3429.9	3524.0	3645.4	3748.6	3775.9	3879.1
17.5°	2816.8	2835.0	2804.6	2750.0	2813.7	2844.1	2850.1	2853.2	2880.5	2862.3	3014.1
20°	2267.3	2331.1	2407.0	2419.2	2440.4	2455.6	2428.2	2325.0	2328.1	2391.8	2440.4
22.5°	2051.9	2064.0	2149.0	2176.3	2243.1	2215.7	2136.9	2088.3	2082.2	2097.4	2121.7
25°	1881.9	1900.1	1960.8	2003.3	2054.9	2006.4	1948.7	1903.2	1897.1	1912.2	1936.5
27.5°	1730.1	1757.4	1812.1	1854.5	1903.2	1857.6	1802.9	1763.5	1760.5	1757.4	1772.6
30°	1608.7	1639.1	1678.5	1727.1	1760.5	1721.0	1669.4	1648.1	1645.2	1639.1	1645.2
32.5°	1487.3	1535.9	1575.3	1599.6	1633.0	1602.6	1563.2	1551.0	1529.8	1511.6	1502.5
35°	1350.7	1402.3	1463.0	1493.3	1526.8	1496.4	1469.1	1417.5	1381.1	1378.0	1384.1
37.5°	1271.8	1293.0	1341.6	1393.2	1426.6	1411.4	1359.8	1308.2	1299.1	1299.1	1305.2
40°	1202.0	1211.1	1232.4	1299.1	1359.8	1314.3	1250.5	1235.3	1235.3	1232.4	1235.3
42.5°	1132.1	1141.3	1141.3	1192.9	1290.0	1217.2	1168.6	1168.6	1168.6	1171.6	1180.8
45°	1068.4	1071.5	1068.4	1104.8	1195.9	1135.2	1101.8	1110.9	1117.0	1123.1	1129.2
47.5°	1013.8	1016.8	1013.8	1044.1	1089.7	1065.4	1047.2	1059.3	1071.5	1080.5	1086.6
50°	965.2	962.2	968.3	986.5	1007.7	1013.8	1001.6	1019.9	1026.0	1038.1	1053.2
52.5°	922.8	919.7	925.7	934.9	965.2	965.2	965.2	980.4	992.5	1004.7	1026.0
55°	874.1	877.2	886.3	898.4	937.9	931.8	934.9	947.0	959.2	977.3	989.5
57.5°	828.6	834.7	846.8	865.1	904.5	901.5	904.5	910.6	925.7	934.9	947.0
60°	777.0	789.2	804.4	816.5	856.0	852.9	868.1	880.2	889.3	889.3	895.4
62.5°	725.4	743.6	758.8	768.0	810.4	813.5	834.7	843.8	849.9	843.8	852.9
65°	673.8	701.2	707.2	719.3	761.9	764.9	789.2	810.4	804.4	798.3	813.5
67.5°	622.3	655.6	652.6	667.7	710.3	716.4	737.6	774.0	761.9	755.8	768.0
70°	564.5	588.8	591.9	601.0	658.7	649.6	682.9	716.4	707.2	710.3	710.3
72.5°	500.8	522.1	522.1	540.3	601.0	585.8	613.2	649.6	649.6	646.5	646.5
75°	424.9	437.1	449.2	476.5	540.3	522.1	540.3	573.7	579.7	573.7	573.7
77.5°	343.0	361.2	367.3	403.7	449.2	446.2	464.4	479.6	491.7	485.6	485.6
80°	242.8	261.1	285.3	324.8	352.1	361.2	370.3	382.4	388.5	388.5	394.6
82.5°	136.6	163.9	185.2	224.6	236.8	282.3	279.2	288.4	279.2	245.9	273.2
85°	30.4	57.7	82.0	103.2	118.4	163.9	173.0	194.3	160.9	148.7	148.7
87.5°	0.0	0.0	0.0	0.0	0.0	24.3	48.5	66.8	57.7	48.5	48.5
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: P649647

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0	14788.0
2.5°	12906.1	13170.1	13488.9	14038.3	14423.7	14839.6	15258.5	15704.6	15823.0	15944.5
5°	10462.7	10981.7	11264.0	12001.6	12775.6	13759.0	14563.4	15443.6	15810.9	15895.8
7.5°	7925.1	8277.2	9017.9	9764.6	10723.7	11755.7	12988.1	14360.0	14788.0	14967.0
10°	6283.1	6762.6	7412.2	8213.5	9054.3	10165.2	11555.4	13158.0	13765.1	13865.3
12.5°	5348.2	5882.4	6589.6	7436.5	8231.8	9069.5	10471.8	12126.0	12775.6	12991.1
15°	4276.7	4923.3	5739.8	6632.2	7497.2	8413.9	9834.4	11701.1	12450.8	12702.8
17.5°	3360.1	3882.1	4765.4	5733.7	6759.6	7919.1	9700.8	11904.4	12827.2	13060.9
20°	2570.9	2944.2	3687.9	4710.8	5912.7	7430.4	9734.2	12672.4	13777.2	14096.0
22.5°	2221.8	2413.0	2865.3	3839.7	5184.3	7005.5	9870.8	13725.6	15058.1	15589.3
25°	2012.4	2112.5	2367.6	3004.9	4489.2	6592.7	10183.5	15143.1	16849.0	17201.0
27.5°	1833.3	1906.1	2064.0	2522.4	3857.8	6210.2	10547.6	16715.4	18521.4	19046.6
30°	1663.3	1760.5	1909.2	2240.1	3454.2	5861.1	11006.0	17990.2	19929.8	20418.4
32.5°	1532.8	1630.0	1766.5	2042.8	3111.2	5493.9	11279.2	19110.3	21080.2	21496.0
35°	1426.6	1508.5	1651.2	1884.9	2850.1	5214.6	11224.5	19999.6	22194.1	22619.1
37.5°	1350.7	1420.5	1563.2	1736.2	2652.9	4923.3	11197.2	21174.3	23550.9	24042.6
40°	1280.9	1353.7	1484.3	1639.1	2455.6	4580.2	11212.4	22339.9	24995.7	25487.4
42.5°	1226.3	1308.2	1414.5	1611.7	2252.2	4304.1	11212.4	23353.6	26252.3	26725.8
45°	1180.8	1268.8	1372.0	1608.7	2091.3	4094.6	11136.5	24224.8	27254.0	27657.7
47.5°	1141.3	1238.4	1387.2	1554.1	2051.9	3942.9	11069.7	24922.9	28070.5	28449.9
50°	1114.0	1229.3	1475.2	1490.4	2064.0	3897.3	11391.5	25803.1	28789.8	29117.7
52.5°	1092.7	1232.4	1472.1	1396.2	2042.8	3927.7	12062.3	27178.1	29788.5	29812.7
55°	1050.2	1229.3	1396.2	1290.0	1954.8	3979.3	12924.4	29175.3	31351.6	31369.9
57.5°	1007.7	1195.9	1296.1	1198.9	1775.7	3979.3	13962.4	31066.3	33236.5	33251.7
60°	965.2	1244.5	1138.2	1120.0	1542.0	3906.5	15058.1	31898.0	33828.4	33983.2
62.5°	922.8	1253.6	1016.8	1050.2	1372.0	3730.4	15874.6	30978.3	33027.1	33248.7
65°	874.1	1010.8	937.9	977.3	1284.0	3436.0	15616.6	29293.7	31521.6	31785.7
67.5°	816.5	856.0	852.9	901.5	1253.6	3001.9	14256.8	27162.9	29900.7	29885.5
70°	746.7	768.0	777.0	828.6	1195.9	2665.0	11880.1	24397.7	27736.6	28076.6
72.5°	673.8	692.0	701.2	746.7	1138.2	2473.7	9221.2	20588.4	24024.4	24555.6
75°	594.9	607.1	619.2	658.7	1077.6	2191.5	6568.4	15716.8	18400.0	19234.7
77.5°	512.9	512.9	528.1	567.6	907.6	1809.0	4407.3	11024.2	12466.0	13318.9
80°	415.9	418.9	412.8	455.3	667.7	1238.4	2504.1	7363.6	8295.5	8459.4
82.5°	318.7	309.6	312.7	333.9	497.8	843.8	1335.6	4574.2	4662.2	4571.2
85°	200.3	200.3	194.3	218.5	318.7	440.1	728.5	2801.6	2188.5	2082.2
87.5°	82.0	66.8	75.9	88.0	151.7	179.1	285.3	576.7	221.6	203.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)