

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: P324143

Luminaire Tested: **GAN-SA9D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324143
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 46832 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

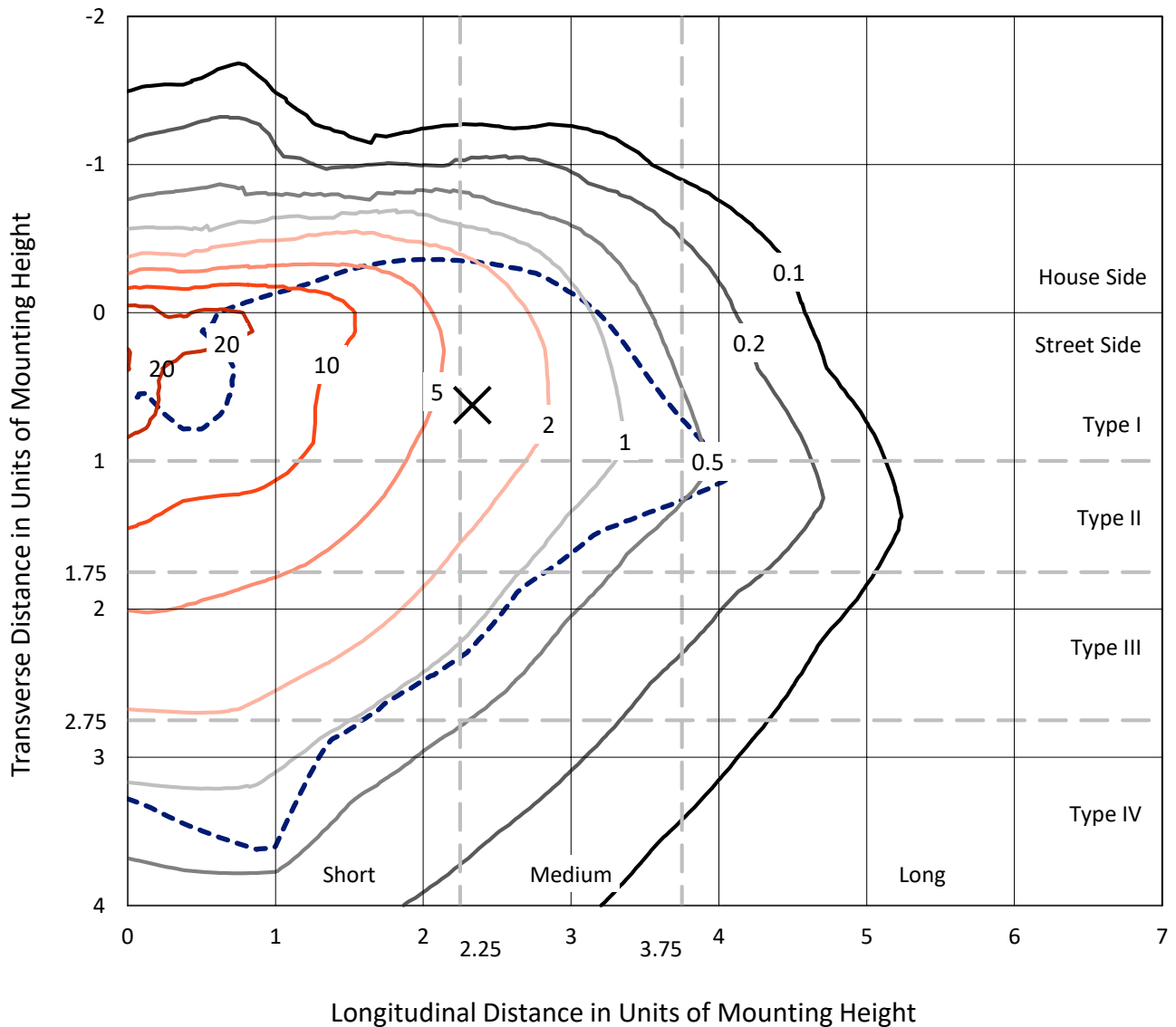
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

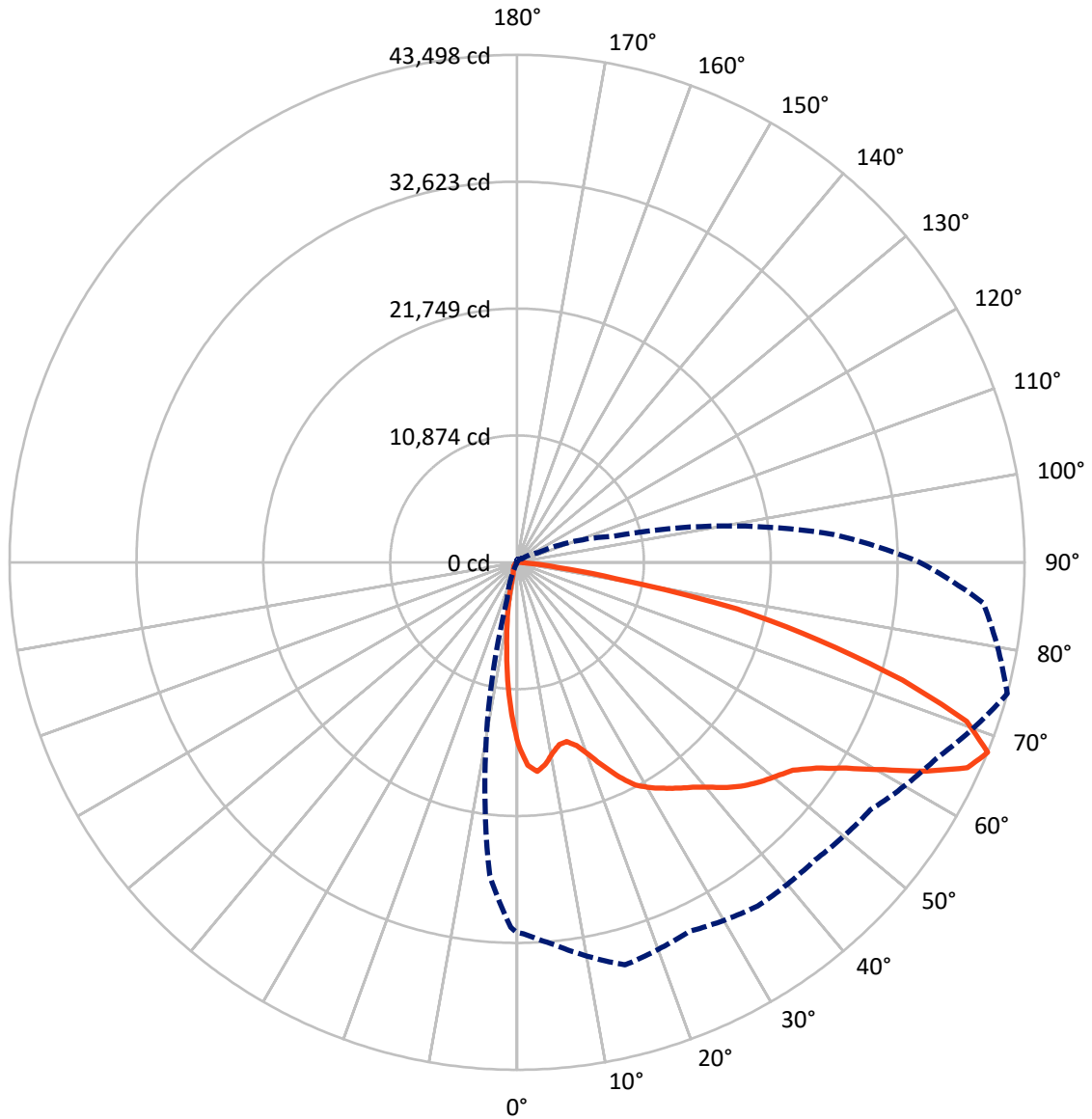
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.6 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	7027.6	0.0	7027.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39804.4	0.0	39804.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	46832.0	0.0	46832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1191.8	2.5
10°-20°	2346.6	5.0
20°-30°	3319.8	7.1
30°-40°	4881.0	10.4
40°-50°	7015.7	15.0
50°-60°	9876.2	21.1
60°-70°	11534.6	24.6
70°-80°	5884.5	12.6
80°-90°	781.7	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°	46832.0	100.0
0°-180°	46832.0	100.0

Coefficient of Utilization

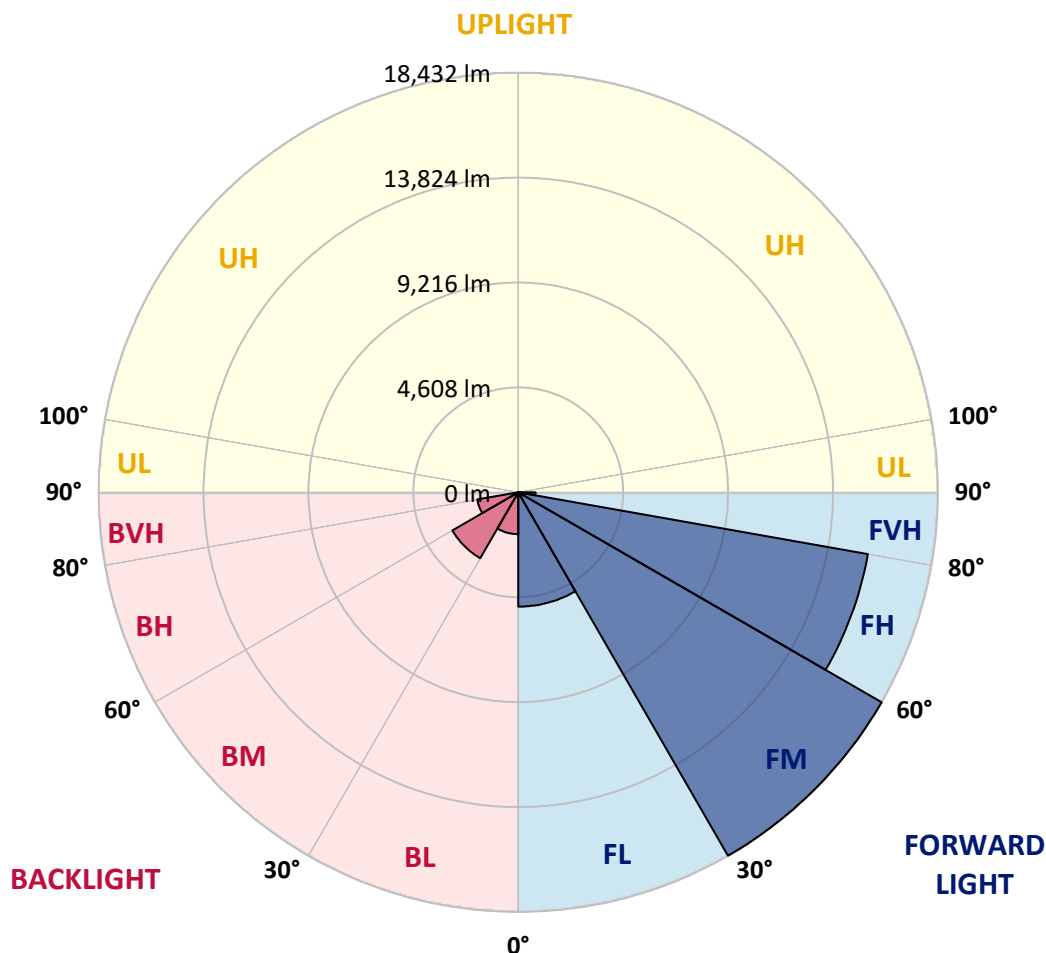


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5020.4	10.7			
FM (30°-60°)	18432.2	39.4			
FH (60°-80°)	15593.7	33.3			G5
FVH (80°-90°)	758.0	1.6			G5
BL (0°-30°)	1837.8	3.9	B3/2500		
BM (30°-60°)	3340.7	7.1	B3/5000		
BH (60°-80°)	1825.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	23.7	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°	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3
2.5°	17031.3	17058.0	17195.5	17515.0	17863.3	17889.9	18125.1	17883.2	17801.2	17410.7	17006.9
5°	17160.0	17262.1	17734.6	18673.0	19487.2	19749.0	19935.3	19460.6	18961.4	18007.5	16989.2
7.5°	16124.0	16294.8	17038.0	18799.5	20254.8	20898.2	21020.2	20277.0	19054.6	17483.9	15953.2
10°	14797.3	14992.5	15888.8	18054.1	20052.9	21155.5	21324.1	20350.2	18593.2	16636.4	14832.8
12.5°	13723.6	13952.1	14868.3	17215.5	19358.5	20578.7	20911.5	20103.9	18193.8	16035.2	14067.4
15°	13228.8	13490.6	14453.5	16674.2	18588.7	19549.3	19824.4	19476.1	17972.0	15939.8	13890.0
17.5°	13512.8	13796.8	14790.7	16720.7	17865.5	18275.9	18497.8	18639.7	17972.0	16514.4	14409.1
20°	14677.5	14983.7	16035.2	17193.3	17266.5	17113.4	17350.8	17850.0	18180.5	17605.9	15655.9
22.5°	16288.1	16647.5	17834.4	18003.0	16973.7	16394.6	16425.7	17208.8	18559.9	18990.3	17386.3
25°	18251.5	18690.8	19897.6	19209.9	17095.7	15966.5	15955.4	16680.8	18930.4	20376.8	19314.2
27.5°	20201.6	20685.2	21745.6	20683.0	17599.3	15888.8	15866.6	16521.1	19292.0	21610.3	21419.5
30°	21836.6	22306.9	23220.9	21750.1	18142.8	16070.7	15964.2	16691.9	19507.2	22411.2	22954.7
32.5°	23167.7	23544.8	24283.6	22484.4	18724.0	16423.5	16192.7	17148.9	19873.2	23087.8	24365.7
35°	24631.9	25029.0	25324.0	23183.2	19376.3	16931.5	16600.9	17874.4	20436.7	23775.5	25911.9
37.5°	26302.4	26697.3	26661.8	23822.1	20203.8	17772.3	17561.6	19023.5	21313.0	24456.6	27637.9
40°	27937.4	28341.2	28052.8	24521.0	21175.5	19158.9	19003.6	20749.5	22486.6	25328.5	29661.2
42.5°	29468.2	29905.2	29288.5	25182.1	22333.5	20907.0	21173.3	22972.4	23955.2	26402.2	31404.9
45°	30701.7	31147.6	30324.5	25825.4	23553.7	23027.9	23828.8	25435.0	25721.2	27309.6	32582.9
47.5°	31597.9	32019.4	31043.3	26468.8	25115.5	25621.3	27016.8	28017.3	27316.2	28097.2	33419.3
50°	32170.3	32498.6	31254.1	27274.1	27165.4	28647.3	30337.8	30825.9	28818.2	28807.1	34435.4
52.5°	32534.1	32682.8	31409.4	28114.9	29304.0	31941.8	33590.1	33743.2	30364.5	29588.0	35804.2
55°	33787.6	33907.4	32509.7	29133.2	31072.1	34828.0	36531.8	36389.9	32114.8	31116.5	37419.2
57.5°	35926.2	36052.7	34783.7	30597.4	32503.1	36611.7	38663.8	38918.9	34166.9	33264.0	39149.7
60°	36999.9	37235.1	36782.5	32452.0	33889.6	37752.0	40116.9	40931.1	36731.5	36094.8	40826.8
62.5°	36026.0	36367.7	37024.4	34508.6	35267.3	38379.8	40569.5	41652.1	39358.2	39393.7	41860.7
65°	34082.6	34355.5	35469.2	35635.6	36066.0	38302.2	39451.4	40644.9	40966.6	42424.2	41805.2
67.5°	31735.5	31837.5	32782.6	35724.3	34907.9	35968.4	36092.6	36975.5	39695.4	43497.9	40125.8
70°	28356.7	28412.2	29237.5	32753.8	29998.4	30231.3	30047.2	30226.9	34127.0	40882.3	35886.3
72.5°	22821.6	22961.4	24134.9	27200.9	21854.3	21182.1	22628.6	22548.7	26282.4	34539.6	26652.9
75°	16802.8	17044.6	18817.2	21909.8	15338.6	13874.4	14930.4	15212.2	18684.1	26717.3	16667.5
77.5°	11764.6	11944.3	13661.5	16106.2	11101.3	9921.1	9539.5	9874.5	12332.6	19327.5	8397.0
80°	6777.5	6844.0	7940.0	9299.9	7480.7	8558.9	7753.6	7984.3	7389.8	8598.9	3611.7
82.5°	4434.8	4445.9	4874.0	5535.1	4658.8	5413.1	4006.6	5122.5	4545.7	3454.2	1175.8
85°	2396.0	2409.3	2826.4	3928.9	2637.8	1490.8	876.3	1799.2	2810.8	792.0	321.7
87.5°	264.0	241.8	851.9	1428.7	732.1	135.3	46.6	201.9	450.4	51.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3
2.5°	16800.6	16616.5	16157.3	15671.4	15280.9	14914.9	14546.6	14096.3	13748.0	13677.0	13561.6
5°	16441.2	15857.8	14894.9	13927.7	13149.0	12166.2	11542.8	11056.9	10582.2	10553.3	10458.0
7.5°	15185.6	14418.0	13062.5	11724.7	10628.8	9692.6	8747.5	8115.2	7618.3	7443.0	7338.8
10°	13978.7	13115.7	11423.0	9896.7	8918.3	8090.8	7425.3	6764.2	6165.2	5752.5	5566.2
12.5°	13135.7	12181.7	10316.0	9000.4	8299.4	7514.0	6702.1	5876.8	5186.8	4689.9	4386.0
15°	12809.6	11791.3	9945.5	8645.4	7780.2	6786.4	5748.1	4805.2	4039.9	3589.5	3316.6
17.5°	13197.8	12013.1	9916.6	8212.8	7003.8	5768.1	4621.1	3507.4	2786.4	2444.8	2269.5
20°	14182.8	12718.6	9905.6	7682.6	6080.9	4561.2	3130.3	2307.2	1870.2	1679.4	1597.3
22.5°	15576.0	13619.3	9994.3	7159.1	5120.3	3259.0	2160.8	1694.9	1470.9	1368.8	1322.2
25°	17368.5	14883.8	10245.0	6684.3	4217.3	2431.5	1683.8	1419.8	1262.3	1182.5	1149.2
27.5°	19278.7	16339.2	10635.4	6271.7	3483.0	1939.0	1442.0	1215.7	1102.6	1047.1	1016.1
30°	20853.8	18025.2	11030.3	5812.4	2950.6	1690.5	1320.0	1109.2	978.4	942.9	914.0
32.5°	22231.5	19300.8	11309.9	5397.6	2602.3	1501.9	1193.5	991.7	902.9	834.2	803.1
35°	23658.0	20363.5	11301.0	5107.0	2362.7	1359.9	1087.1	887.4	780.9	701.0	676.6
37.5°	25202.0	21563.7	11108.0	4858.5	2258.4	1246.8	1027.2	831.9	725.4	645.6	614.5
40°	27010.1	22823.8	10910.5	4625.5	2229.6	1155.8	985.0	787.6	674.4	596.8	565.7
42.5°	28771.6	23959.7	10737.5	4452.5	2105.3	1153.6	947.3	754.3	634.5	559.1	523.6
45°	30180.3	25017.9	10704.2	4348.2	1974.5	1193.5	927.3	732.1	603.4	528.0	494.7
47.5°	31351.7	26167.1	10917.2	4275.0	1850.2	1089.3	976.1	716.6	574.6	501.4	463.7
50°	32744.9	27578.0	11418.6	4155.2	1719.3	980.6	1118.1	721.0	550.2	474.8	434.8
52.5°	34688.3	29530.3	12155.1	3953.3	1539.6	880.7	1100.4	725.4	523.6	445.9	406.0
55°	36866.8	31968.4	12947.1	3618.4	1288.9	749.8	942.9	694.4	472.5	414.9	377.1
57.5°	39156.3	34180.3	13417.4	3219.0	1024.9	647.8	754.3	632.3	417.1	372.7	348.3
60°	39515.7	35021.1	13202.2	2728.7	814.2	563.5	559.1	643.4	372.7	328.3	310.6
62.5°	38621.7	33965.1	12161.8	2291.7	681.1	494.7	459.2	561.3	337.2	292.8	275.1
65°	36902.3	31109.9	10475.7	2065.4	632.3	423.7	381.6	394.9	295.1	255.1	239.6
67.5°	34510.8	27298.5	8601.1	1936.7	625.6	363.8	326.1	299.5	255.1	221.8	208.5
70°	29621.3	22741.7	6861.8	1865.7	607.9	306.2	275.1	244.0	213.0	188.6	177.5
72.5°	21801.1	16115.1	5337.7	1788.1	612.3	244.0	239.6	201.9	170.8	146.4	142.0
75°	12596.6	9206.7	3500.8	1448.7	583.5	188.6	199.7	142.0	119.8	102.1	102.1
77.5°	6713.1	5615.0	1333.3	603.4	213.0	119.8	113.1	84.3	75.4	62.1	59.9
80°	2926.2	2471.4	401.5	168.6	117.6	64.3	42.2	37.7	33.3	26.6	24.4
82.5°	1036.0	894.1	130.9	82.1	51.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	235.2	168.6	0.0	20.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3
2.5°	13326.5	13277.7	12989.2	13000.3	13051.4	13124.6	12951.5	13031.4	13246.6	13452.9	13530.6
5°	10304.9	10316.0	10140.7	10249.4	10347.0	10413.6	10134.1	10138.5	10309.3	10542.3	10664.3
7.5°	7261.1	7243.4	7252.2	7511.8	7695.9	7562.8	7667.1	7305.5	7327.7	7494.1	7369.8
10°	5397.6	5153.5	5016.0	5211.2	5413.1	5339.9	5160.2	5042.6	5124.7	5308.8	5295.5
12.5°	4241.7	3891.2	3684.9	3545.1	3711.5	3574.0	3569.5	3467.5	3356.6	3376.5	3671.6
15°	3190.2	2935.1	2691.0	2467.0	2462.5	2415.9	2178.6	1912.3	1890.2	1903.5	2056.5
17.5°	2194.1	2107.6	2007.7	1814.7	1763.7	1568.5	1337.7	1231.3	1178.0	1202.4	1253.4
20°	1541.8	1508.6	1519.7	1415.4	1342.2	1155.8	1020.5	978.4	969.5	993.9	1018.3
22.5°	1277.8	1218.0	1211.3	1164.7	1091.5	956.2	883.0	858.6	847.5	869.6	887.4
25°	1118.1	1058.2	1033.8	1005.0	927.3	834.2	789.8	767.6	756.5	769.8	780.9
27.5°	985.0	929.5	907.4	887.4	812.0	745.4	709.9	689.9	681.1	685.5	696.6
30°	885.2	836.4	807.5	783.1	718.8	672.2	641.1	621.2	612.3	612.3	623.4
32.5°	780.9	754.3	727.7	696.6	636.7	605.6	574.6	552.4	543.5	545.7	554.6
35°	650.0	641.1	647.8	619.0	567.9	541.3	510.3	485.8	479.2	481.4	490.3
37.5°	576.8	536.9	561.3	545.7	516.9	481.4	441.5	419.3	408.2	414.9	419.3
40°	530.2	481.4	463.7	479.2	474.8	417.1	381.6	359.4	350.5	352.7	357.2
42.5°	490.3	432.6	392.7	390.5	417.1	363.8	326.1	306.2	295.1	295.1	299.5
45°	452.6	390.5	341.6	303.9	350.5	308.4	272.9	255.1	241.8	241.8	244.0
47.5°	423.7	355.0	297.3	248.5	264.0	252.9	224.1	206.3	193.0	193.0	195.2
50°	397.1	319.5	257.3	208.5	197.4	208.5	181.9	161.9	153.1	150.9	155.3
52.5°	368.3	284.0	219.6	177.5	155.3	157.5	142.0	128.7	117.6	117.6	122.0
55°	339.4	255.1	190.8	150.9	128.7	117.6	113.1	104.3	95.4	95.4	99.8
57.5°	310.6	224.1	161.9	124.2	102.1	93.2	93.2	86.5	79.9	79.9	84.3
60°	284.0	193.0	133.1	102.1	79.9	77.6	79.9	73.2	68.8	68.8	73.2
62.5°	252.9	164.2	108.7	84.3	64.3	62.1	68.8	64.3	59.9	59.9	64.3
65°	215.2	139.8	86.5	64.3	48.8	48.8	57.7	53.2	48.8	48.8	53.2
67.5°	181.9	117.6	66.6	46.6	35.5	37.7	48.8	44.4	42.2	42.2	46.6
70°	150.9	91.0	46.6	28.8	20.0	28.8	37.7	37.7	37.7	37.7	42.2
72.5°	113.1	62.1	26.6	11.1	8.9	20.0	31.1	35.5	33.3	33.3	39.9
75°	73.2	35.5	8.9	0.0	0.0	11.1	24.4	28.8	28.8	26.6	33.3
77.5°	42.2	11.1	0.0	0.0	0.0	0.0	15.5	13.3	11.1	8.9	15.5
80°	11.1	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



REPORT NUMBER: P324143
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3	15711.3
2.5°	13843.4	14105.1	14473.4	14863.9	15465.1	15942.1	16410.2	16811.7	16967.0	17031.3
5°	10957.1	11340.9	11880.0	12572.2	13657.0	14633.1	15622.6	16618.7	17051.3	17160.0
7.5°	7862.3	8352.6	9038.1	9905.6	11176.7	12441.3	13823.4	15285.4	15955.4	16124.0
10°	5819.1	6418.1	7203.4	8117.4	9331.0	10631.0	12137.4	13807.9	14573.3	14797.3
12.5°	4128.6	4938.4	5989.9	7101.4	8152.9	9313.2	10837.3	12678.7	13481.8	13723.6
15°	2424.8	3207.9	4452.5	5941.1	7287.7	8463.5	10012.0	12099.6	12984.8	13228.8
17.5°	1391.0	1781.4	2722.1	4381.5	6209.5	7837.9	9752.5	12243.8	13286.5	13512.8
20°	1062.7	1186.9	1568.5	2821.9	4949.4	7223.4	9752.5	13060.2	14344.7	14677.5
22.5°	929.5	1020.5	1175.8	1683.8	3642.8	6564.5	9865.6	14240.5	15919.9	16288.1
25°	825.3	907.4	1040.5	1266.8	2484.7	5781.4	10134.1	15689.2	17774.5	18251.5
27.5°	738.8	816.4	936.2	1109.2	1699.4	4836.3	10495.7	17388.5	19820.0	20201.6
30°	661.1	734.3	843.0	965.0	1311.1	3764.8	10804.0	18990.3	21426.2	21836.6
32.5°	587.9	654.5	752.1	843.0	1073.7	2784.2	10837.3	20259.2	22759.5	23167.7
35°	519.1	579.0	667.8	738.8	889.6	2198.5	10320.4	21359.6	24092.8	24631.9
37.5°	452.6	510.3	587.9	641.1	783.1	1792.5	9530.6	22586.4	25803.2	26302.4
40°	390.5	441.5	521.3	556.8	741.0	1377.7	8672.1	23873.2	27480.4	27937.4
42.5°	332.8	381.6	459.2	528.0	650.0	1029.4	7744.7	25080.0	28989.0	29468.2
45°	277.3	328.3	406.0	559.1	539.1	769.8	6753.1	25880.9	30180.3	30701.7
47.5°	224.1	281.7	388.2	532.4	430.4	565.7	5967.7	26639.6	31083.2	31597.9
50°	179.7	237.4	437.0	474.8	352.7	432.6	5639.4	27318.5	31675.6	32170.3
52.5°	146.4	199.7	412.6	363.8	295.1	357.2	5816.9	28418.8	32223.5	32534.1
55°	122.0	157.5	248.5	252.9	250.7	303.9	6036.5	29998.4	33641.2	33787.6
57.5°	106.5	126.5	173.0	195.2	210.8	270.7	6040.9	32265.7	35835.2	35926.2
60°	91.0	110.9	144.2	157.5	181.9	241.8	5821.3	33057.7	36698.2	36999.9
62.5°	79.9	97.6	119.8	130.9	153.1	217.4	5306.6	31910.7	35513.6	36026.0
65°	71.0	88.7	99.8	110.9	135.3	195.2	4459.2	29616.8	33548.0	34082.6
67.5°	62.1	77.6	88.7	99.8	122.0	173.0	3283.4	26952.4	31291.8	31735.5
70°	55.5	68.8	79.9	88.7	106.5	146.4	1992.2	22870.4	28172.6	28356.7
72.5°	53.2	62.1	73.2	79.9	93.2	128.7	1009.4	16807.3	22522.1	22821.6
75°	46.6	55.5	66.6	71.0	82.1	110.9	410.4	11039.2	16321.4	16802.8
77.5°	37.7	51.0	59.9	64.3	71.0	91.0	208.5	7054.8	11454.1	11764.6
80°	13.3	37.7	51.0	53.2	59.9	66.6	137.5	3862.4	6644.4	6777.5
82.5°	0.0	24.4	39.9	37.7	42.2	51.0	88.7	1836.9	4386.0	4434.8
85°	0.0	11.1	31.1	24.4	17.7	35.5	31.1	401.5	2300.6	2396.0
87.5°	0.0	0.0	2.2	11.1	8.9	13.3	4.4	2.2	208.5	264.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)