

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: P457540

Luminaire Tested: **GLAN-SA8D-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457540
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-SA8D-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 39583 lumens
Efficiency: N/A
Efficacy: 80.3 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): 493
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

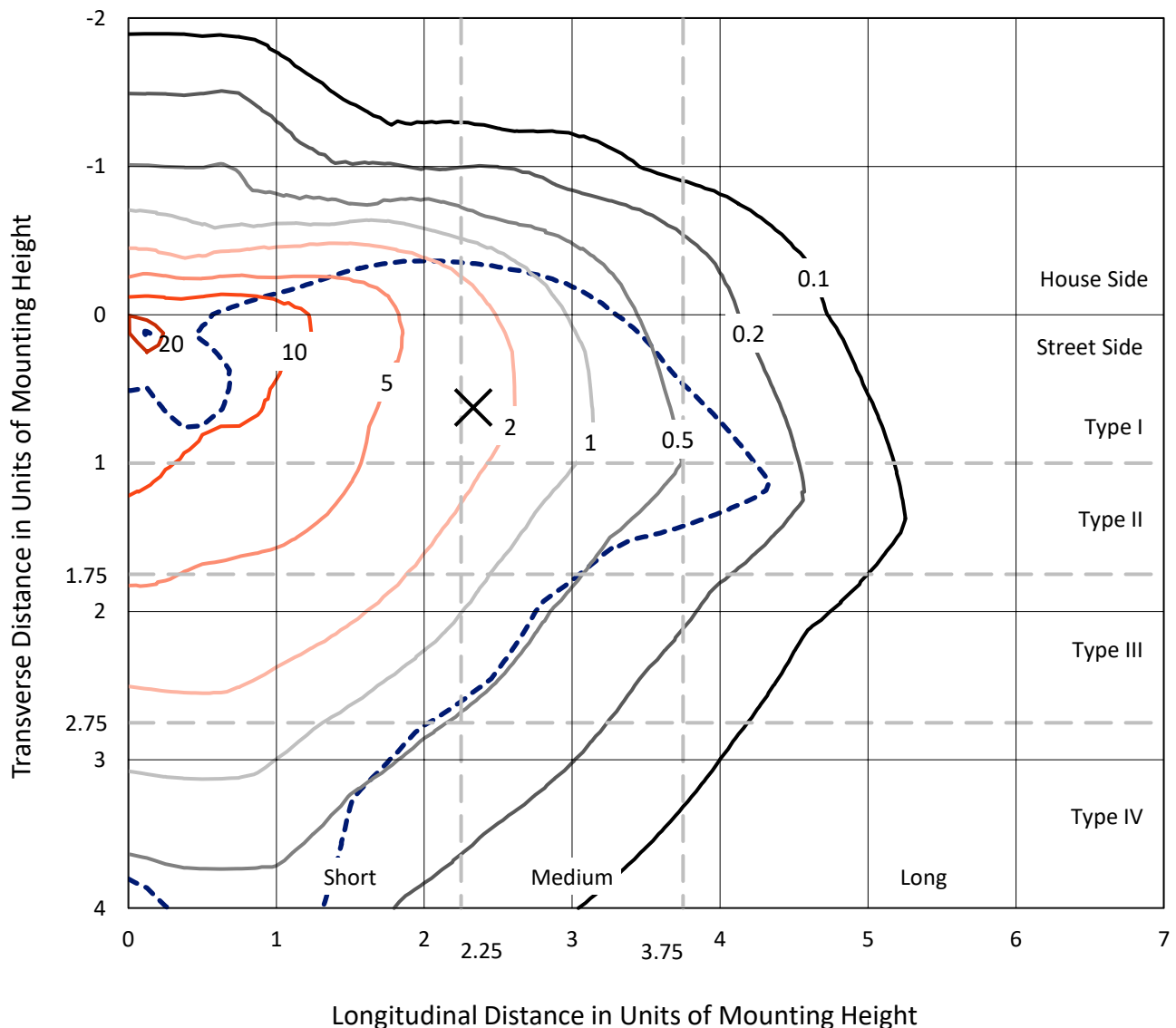


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

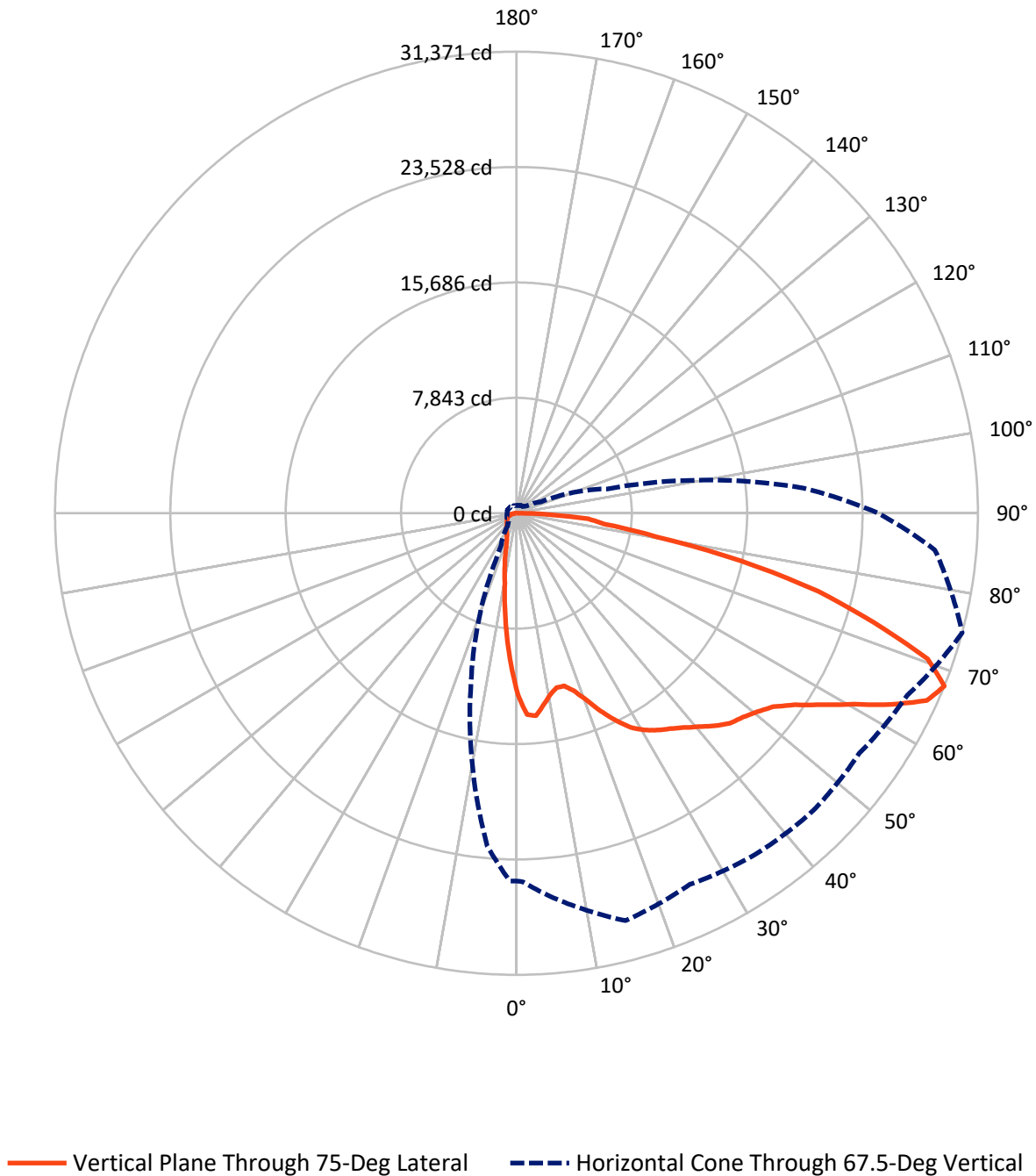


Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6690.4	0.0	6690.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32892.6	0.0	32892.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	39583.0	0.0	39583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.0	2.4
10°-20°	1956.2	4.9
20°-30°	2815.0	7.1
30°-40°	4054.3	10.2
40°-50°	5695.2	14.4
50°-60°	7942.9	20.1
60°-70°	9443.6	23.9
70°-80°	5561.7	14.1
80°-90°	1176.1	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°	39583.0	100.0
0°-180°	39583.0	100.0

Coefficient of Utilization



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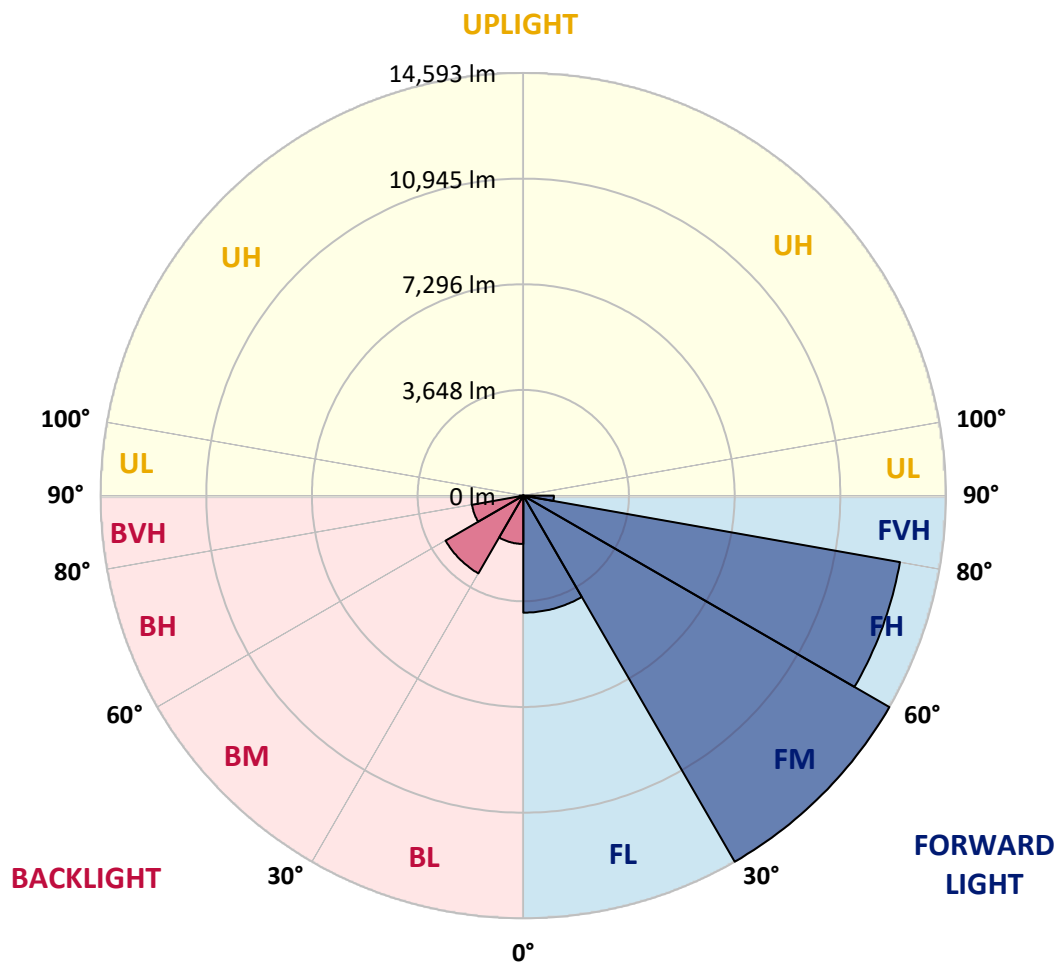
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4040.3	10.2			
FM	(30°-60°)	14592.8	36.9			
FH	(60°-80°)	13205.0	33.4			G5
FVH	(80°-90°)	1054.4	2.7			G5
BL	(0°-30°)	1668.8	4.2	B3/2500		
BM	(30°-60°)	3099.7	7.8	B3/5000		
BH	(60°-80°)	1800.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	121.6	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°	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7
2.5°	13333.8	13351.5	13465.8	13798.3	14026.7	14110.5	14168.9	14059.7	13953.1	13694.2	13303.3
5°	13293.2	13397.2	13694.2	14440.5	15029.4	15283.2	15359.3	15031.9	14491.2	13826.2	13026.6
7.5°	12516.4	12656.0	13112.9	14364.3	15402.5	15996.5	15917.8	15326.3	14351.6	13166.2	12049.4
10°	11595.0	11749.9	12300.7	13813.5	15151.2	15968.5	15968.5	15247.7	13953.1	12544.3	11257.4
12.5°	10864.0	11026.4	11655.9	13247.5	14628.3	15402.5	15531.9	14912.6	13666.3	12150.9	10737.1
15°	10622.8	10780.2	11457.9	12904.8	14075.0	14547.1	14590.2	14387.2	13526.7	12178.8	10714.2
17.5°	10922.4	11125.4	11810.8	13006.3	13567.3	13595.2	13628.2	13788.1	13541.9	12689.0	11176.2
20°	11787.9	12006.2	12722.0	13333.8	13123.1	12833.7	12851.5	13262.7	13722.1	13531.8	12280.4
22.5°	13036.8	13227.2	13960.7	13910.0	12935.2	12338.7	12214.4	12788.0	13988.6	14582.6	13455.6
25°	14384.6	14608.0	15450.7	14765.4	12988.6	12044.3	11965.6	12508.8	14265.3	15564.9	14813.6
27.5°	15927.9	16146.2	16811.3	15628.4	13267.8	12021.5	11927.5	12483.4	14514.1	16473.7	16110.7
30°	17075.2	17275.8	17727.6	16354.4	13610.4	12173.8	12057.0	12684.0	14727.3	17095.5	17374.8
32.5°	17976.3	18184.5	18430.7	16806.2	14062.3	12450.4	12234.7	13049.5	15006.5	17570.2	18311.4
35°	18915.5	19161.7	19144.0	17207.2	14483.6	12770.3	12559.6	13577.4	15445.6	17984.0	19499.3
37.5°	20106.0	20205.0	20078.1	17567.7	14988.7	13346.5	13229.7	14361.8	16070.1	18484.0	20887.8
40°	21314.2	21512.2	20859.9	18004.3	15603.0	14430.3	14417.6	15521.8	16811.3	19070.4	22233.1
42.5°	22349.9	22517.4	21590.9	18385.0	16346.7	15752.8	15849.2	17077.8	17783.4	19750.6	23314.4
45°	23129.1	23278.9	22266.1	18753.1	17326.5	17280.8	17849.4	18745.4	19009.4	20362.4	23949.0
47.5°	23791.6	23936.3	22735.7	19311.5	18537.3	19105.9	20095.8	20484.2	20057.8	20712.6	24659.7
50°	24350.0	24393.2	23058.0	19976.5	20040.0	21342.1	22301.6	22552.9	21093.4	21215.2	25276.5
52.5°	24931.3	24875.5	23613.9	20814.2	21664.5	23464.2	24162.2	24423.7	22085.9	21834.6	26175.1
55°	26233.5	26286.8	24860.2	21870.1	23306.8	25548.1	26467.0	26215.7	23185.0	22974.3	27317.3
57.5°	27807.2	27761.5	26614.2	23522.6	24979.5	27487.4	28172.7	27769.2	24652.1	24540.4	28474.8
60°	28419.0	28479.9	28081.4	25299.4	26629.5	29185.5	29886.1	29259.1	26411.2	26360.4	29348.0
62.5°	27804.7	28147.4	28416.4	26880.7	28035.7	30434.4	31129.9	30414.1	28246.4	28614.4	29959.7
65°	26581.2	26654.8	27571.2	28221.0	28713.4	30640.0	31003.0	30622.2	29779.5	30667.9	29931.8
67.5°	24992.2	25055.7	26129.4	28660.1	27840.2	28304.7	28558.6	28446.9	29304.8	31371.0	28553.5
70°	23479.4	23428.6	24563.3	27540.7	24235.8	23530.2	23740.9	23390.6	25286.7	29652.6	25850.2
72.5°	20535.0	20717.7	21936.1	24428.7	19189.7	18042.3	18501.8	17595.6	19448.6	25395.8	20981.7
75°	16085.3	16128.4	18161.6	20502.0	14476.0	12666.2	13288.1	12909.9	14897.4	21184.8	14488.7
77.5°	11138.1	11041.7	13227.2	15658.9	10323.3	9272.5	9282.6	9102.4	10402.0	15597.9	9843.6
80°	7074.3	6927.1	8280.0	9673.5	7094.6	7589.6	7340.8	7333.2	6772.2	9622.7	5952.3
82.5°	3822.7	3985.2	5231.5	6064.0	5089.3	5866.0	5376.1	5218.8	4647.7	6023.4	3807.5
85°	1741.3	1893.6	2789.6	4124.8	3865.9	3909.0	2611.9	3081.5	3845.5	4891.3	2033.2
87.5°	170.1	218.3	576.2	1946.9	1319.9	1040.7	388.4	748.8	967.1	1738.7	162.5
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°	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7
2.5°	13143.4	13011.4	12562.1	12191.5	11798.1	11498.6	11107.7	10846.2	10666.0	10394.4	10361.4
5°	12539.3	12216.9	11435.1	10638.1	9950.2	9432.4	8906.9	8424.7	8140.4	8051.5	7937.3
7.5°	11521.4	10978.2	9973.0	9059.2	8269.8	7498.2	6904.2	6482.9	6201.1	6036.1	5838.1
10°	10683.8	10054.3	8830.8	7711.4	7061.6	6581.8	6059.0	5607.1	5259.4	4962.4	4800.0
12.5°	10120.3	9409.5	8033.8	7125.0	6622.5	6112.3	5500.5	4992.9	4480.1	4142.5	3997.8
15°	9950.2	9198.9	7787.5	6833.1	6112.3	5444.7	4759.3	4096.8	3589.2	3269.3	3162.7
17.5°	10366.5	9457.8	7785.0	6444.8	5513.2	4716.2	3837.9	3216.0	2695.7	2457.1	2380.9
20°	11143.2	9955.3	7807.9	6061.5	4863.4	3741.5	2792.1	2281.9	2033.2	1931.7	1893.6
22.5°	12227.1	10714.2	7876.4	5683.3	4152.7	2873.4	2091.6	1832.7	1743.8	1726.1	1718.4
25°	13562.2	11653.4	8107.4	5343.2	3553.6	2193.1	1748.9	1632.1	1581.4	1563.6	1561.1
27.5°	14790.8	12866.7	8386.6	5051.2	2974.9	1891.0	1581.4	1482.4	1431.6	1429.1	1434.1
30°	15900.0	13882.0	8620.1	4723.8	2535.8	1680.4	1472.2	1373.2	1325.0	1322.5	1337.7
32.5°	16859.5	14717.1	8792.7	4401.4	2292.1	1550.9	1373.2	1266.6	1226.0	1218.4	1226.0
35°	17885.0	15549.7	8714.0	4150.1	2152.5	1444.3	1299.6	1195.5	1147.3	1124.5	1124.5
37.5°	19055.1	16407.7	8579.5	3942.0	2089.0	1355.5	1236.2	1134.6	1086.4	1063.6	1061.0
40°	20331.9	17265.6	8394.2	3756.7	2025.6	1302.2	1193.0	1086.4	1028.0	1005.2	1000.1
42.5°	21458.9	17999.2	8241.9	3634.9	1921.5	1312.3	1154.9	1050.9	977.3	946.8	944.3
45°	22438.7	18737.8	8214.0	3563.8	1835.2	1297.1	1144.8	1022.9	936.6	903.6	898.6
47.5°	23205.3	19506.9	8373.9	3523.2	1741.3	1215.9	1210.8	1005.2	901.1	865.6	860.5
50°	24139.4	20598.4	8739.4	3439.4	1655.0	1139.7	1279.3	1002.6	873.2	827.5	814.8
52.5°	25383.1	22019.9	9234.4	3289.7	1530.6	1068.6	1220.9	1002.6	840.2	794.5	779.3
55°	27264.0	23832.2	9719.2	3079.0	1355.5	974.7	1101.6	972.2	792.0	751.3	741.2
57.5°	28510.3	25157.2	10028.9	2787.1	1137.2	906.2	949.3	923.9	743.7	700.6	700.6
60°	28573.8	25512.6	9881.7	2419.0	1000.1	842.7	825.0	931.6	700.6	654.9	649.8
62.5°	27842.8	24642.0	9115.1	2089.0	926.5	774.2	746.3	817.3	657.4	611.7	604.1
65°	26700.5	22420.9	7785.0	1931.7	885.9	713.3	672.7	670.1	611.7	568.6	558.4
67.5°	24601.3	19593.2	6396.6	1840.3	865.6	644.7	606.7	594.0	558.4	522.9	517.8
70°	21507.1	16410.2	5129.9	1802.2	855.4	573.7	543.2	528.0	497.5	469.6	467.0
72.5°	16732.6	13310.9	4233.9	1776.8	850.3	507.7	474.7	454.4	436.6	411.2	411.2
75°	12018.9	9792.8	3231.3	1601.7	786.9	436.6	401.1	388.4	363.0	342.7	347.7
77.5°	7576.9	6594.5	2127.1	1177.8	609.2	350.3	319.8	312.2	291.9	264.0	281.8
80°	5117.2	4637.5	1241.2	741.2	383.3	256.4	246.2	243.7	220.8	190.4	192.9
82.5°	3482.6	3416.6	644.7	421.4	220.8	149.8	144.7	149.8	124.4	101.5	101.5
85°	1360.5	1858.0	304.6	165.0	71.1	22.8	33.0	35.5	20.3	10.2	12.7
87.5°	25.4	190.4	7.6	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°	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7
2.5°	10310.6	10287.8	10325.9	10163.4	10196.4	10257.3	10287.8	10305.6	10556.8	10498.5	10658.4
5°	8043.9	8021.1	8168.3	8188.6	8264.8	8249.5	8323.1	8340.9	8432.3	8465.3	8688.6
7.5°	5850.8	5949.8	6117.3	6203.6	6333.1	6373.7	6335.6	6429.5	6239.2	6376.2	6416.9
10°	4701.0	4581.7	4510.6	4708.6	4734.0	4921.8	4845.6	4784.7	4896.4	4901.5	5008.1
12.5°	3914.1	3657.7	3487.6	3543.5	3604.4	3685.6	3698.3	3820.2	3901.4	3977.5	4041.0
15°	3068.8	2980.0	2825.1	2749.0	2835.3	2868.3	2947.0	3048.5	3134.8	3157.7	3244.0
17.5°	2355.6	2370.8	2345.4	2299.7	2353.0	2378.4	2383.5	2386.0	2408.9	2393.6	2520.5
20°	1896.1	1949.4	2012.9	2023.0	2040.8	2053.5	2030.7	1944.3	1946.9	2000.2	2040.8
22.5°	1715.9	1726.1	1797.1	1820.0	1875.8	1853.0	1787.0	1746.4	1741.3	1754.0	1774.3
25°	1573.8	1589.0	1639.8	1675.3	1718.4	1677.8	1629.6	1591.5	1586.4	1599.1	1619.4
27.5°	1446.8	1469.7	1515.4	1550.9	1591.5	1553.4	1507.8	1474.8	1472.2	1469.7	1482.4
30°	1345.3	1370.7	1403.7	1444.3	1472.2	1439.2	1396.1	1378.3	1375.8	1370.7	1375.8
32.5°	1243.8	1284.4	1317.4	1337.7	1365.6	1340.2	1307.2	1297.1	1279.3	1264.1	1256.5
35°	1129.5	1172.7	1223.5	1248.9	1276.8	1251.4	1228.5	1185.4	1154.9	1152.4	1157.5
37.5°	1063.6	1081.3	1121.9	1165.1	1193.0	1180.3	1137.2	1094.0	1086.4	1086.4	1091.5
40°	1005.2	1012.8	1030.6	1086.4	1137.2	1099.1	1045.8	1033.1	1033.1	1030.6	1033.1
42.5°	946.8	954.4	954.4	997.6	1078.8	1017.9	977.3	977.3	977.3	979.8	987.4
45°	893.5	896.0	893.5	923.9	1000.1	949.3	921.4	929.0	934.1	939.2	944.3
47.5°	847.8	850.3	847.8	873.2	911.3	890.9	875.7	885.9	896.0	903.6	908.7
50°	807.2	804.6	809.7	825.0	842.7	847.8	837.6	852.9	858.0	868.1	880.8
52.5°	771.6	769.1	774.2	781.8	807.2	807.2	807.2	819.9	830.0	840.2	858.0
55°	731.0	733.6	741.2	751.3	784.3	779.3	781.8	792.0	802.1	817.3	827.5
57.5°	693.0	698.0	708.2	723.4	756.4	753.9	756.4	761.5	774.2	781.8	792.0
60°	649.8	660.0	672.7	682.8	715.8	713.3	726.0	736.1	743.7	743.7	748.8
62.5°	606.7	621.9	634.6	642.2	677.7	680.3	698.0	705.7	710.7	705.7	713.3
65°	563.5	586.4	591.4	601.6	637.1	639.7	660.0	677.7	672.7	667.6	680.3
67.5°	520.4	548.3	545.7	558.4	594.0	599.0	616.8	647.3	637.1	632.0	642.2
70°	472.1	492.4	495.0	502.6	550.8	543.2	571.1	599.0	591.4	594.0	594.0
72.5°	418.8	436.6	436.6	451.8	502.6	489.9	512.7	543.2	543.2	540.7	540.7
75°	355.4	365.5	375.7	398.5	451.8	436.6	451.8	479.7	484.8	479.7	479.7
77.5°	286.8	302.1	307.1	337.6	375.7	373.1	388.4	401.1	411.2	406.1	406.1
80°	203.1	218.3	238.6	271.6	294.4	302.1	309.7	319.8	324.9	324.9	330.0
82.5°	114.2	137.1	154.8	187.8	198.0	236.1	233.5	241.1	233.5	205.6	228.4
85°	25.4	48.2	68.5	86.3	99.0	137.1	144.7	162.5	134.5	124.4	124.4
87.5°	0.0	0.0	0.0	0.0	0.0	20.3	40.6	55.8	48.2	40.6	40.6
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: P457540

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7	12366.7
2.5°	10792.9	11013.7	11280.3	11739.7	12062.1	12409.8	12760.1	13133.2	13232.2	13333.8
5°	8749.6	9183.6	9419.7	10036.5	10683.8	11506.2	12178.8	12914.9	13222.1	13293.2
7.5°	6627.5	6922.0	7541.3	8165.8	8967.9	9830.9	10861.4	12008.8	12366.7	12516.4
10°	5254.3	5655.4	6198.6	6868.7	7571.8	8500.8	9663.4	11003.6	11511.3	11595.0
12.5°	4472.5	4919.3	5510.7	6218.9	6883.9	7584.5	8757.2	10140.6	10683.8	10864.0
15°	3576.5	4117.1	4800.0	5546.2	6269.6	7036.2	8224.1	9785.2	10412.2	10622.8
17.5°	2809.9	3246.5	3985.2	4794.9	5652.8	6622.5	8112.5	9955.3	10726.9	10922.4
20°	2150.0	2462.2	3084.1	3939.5	4944.6	6213.8	8140.4	10597.5	11521.4	11787.9
22.5°	1858.0	2018.0	2396.2	3211.0	4335.4	5858.4	8254.6	11478.3	12592.6	13036.8
25°	1682.9	1766.7	1979.9	2512.9	3754.2	5513.2	8516.0	12663.6	14090.2	14384.6
27.5°	1533.1	1594.1	1726.1	2109.3	3226.2	5193.4	8820.6	13978.5	15488.8	15927.9
30°	1391.0	1472.2	1596.6	1873.3	2888.6	4901.5	9203.9	15044.6	16666.6	17075.2
32.5°	1281.8	1363.1	1477.3	1708.3	2601.8	4594.3	9432.4	15981.2	17628.6	17976.3
35°	1193.0	1261.5	1380.8	1576.3	2383.5	4360.8	9386.7	16725.0	18560.2	18915.5
37.5°	1129.5	1187.9	1307.2	1451.9	2218.5	4117.1	9363.8	17707.3	19694.8	20106.0
40°	1071.2	1132.1	1241.2	1370.7	2053.5	3830.3	9376.5	18682.0	20903.0	21314.2
42.5°	1025.5	1094.0	1182.9	1347.8	1883.4	3599.3	9376.5	19529.8	21953.9	22349.9
45°	987.4	1061.0	1147.3	1345.3	1748.9	3424.2	9313.1	20258.3	22791.5	23129.1
47.5°	954.4	1035.6	1160.0	1299.6	1715.9	3297.3	9257.2	20842.1	23474.3	23791.6
50°	931.6	1028.0	1233.6	1246.3	1726.1	3259.2	9526.3	21578.2	24075.9	24350.0
52.5°	913.8	1030.6	1231.1	1167.6	1708.3	3284.6	10087.3	22728.1	24911.0	24931.3
55°	878.3	1028.0	1167.6	1078.8	1634.7	3327.7	10808.1	24398.3	26218.2	26233.5
57.5°	842.7	1000.1	1083.9	1002.6	1484.9	3327.7	11676.2	25979.6	27794.5	27807.2
60°	807.2	1040.7	951.9	936.6	1289.5	3266.8	12592.6	26675.1	28289.5	28419.0
62.5°	771.6	1048.3	850.3	878.3	1147.3	3119.6	13275.4	25906.0	27619.4	27804.7
65°	731.0	845.3	784.3	817.3	1073.7	2873.4	13059.6	24497.3	26360.4	26581.2
67.5°	682.8	715.8	713.3	753.9	1048.3	2510.4	11922.5	22715.4	25004.9	24992.2
70°	624.4	642.2	649.8	693.0	1000.1	2228.6	9935.0	20403.0	23195.1	23479.4
72.5°	563.5	578.7	586.4	624.4	951.9	2068.7	7711.4	17217.4	20090.8	20535.0
75°	497.5	507.7	517.8	550.8	901.1	1832.7	5492.9	13143.4	15387.3	16085.3
77.5°	429.0	429.0	441.7	474.7	759.0	1512.8	3685.6	9219.2	10424.9	11138.1
80°	347.7	350.3	345.2	380.7	558.4	1035.6	2094.1	6157.9	6937.2	7074.3
82.5°	266.5	258.9	261.4	279.2	416.3	705.7	1116.9	3825.2	3898.9	3822.7
85°	167.5	167.5	162.5	182.8	266.5	368.1	609.2	2342.9	1830.1	1741.3
87.5°	68.5	55.8	63.5	73.6	126.9	149.8	238.6	482.3	185.3	170.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)