

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: McGRAW-EDISON

Report Number: P299438

Luminaire Tested: **GLNA-AF-08-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-08-LED-E1-SLR-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32653.4 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 334  
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: 25 FT

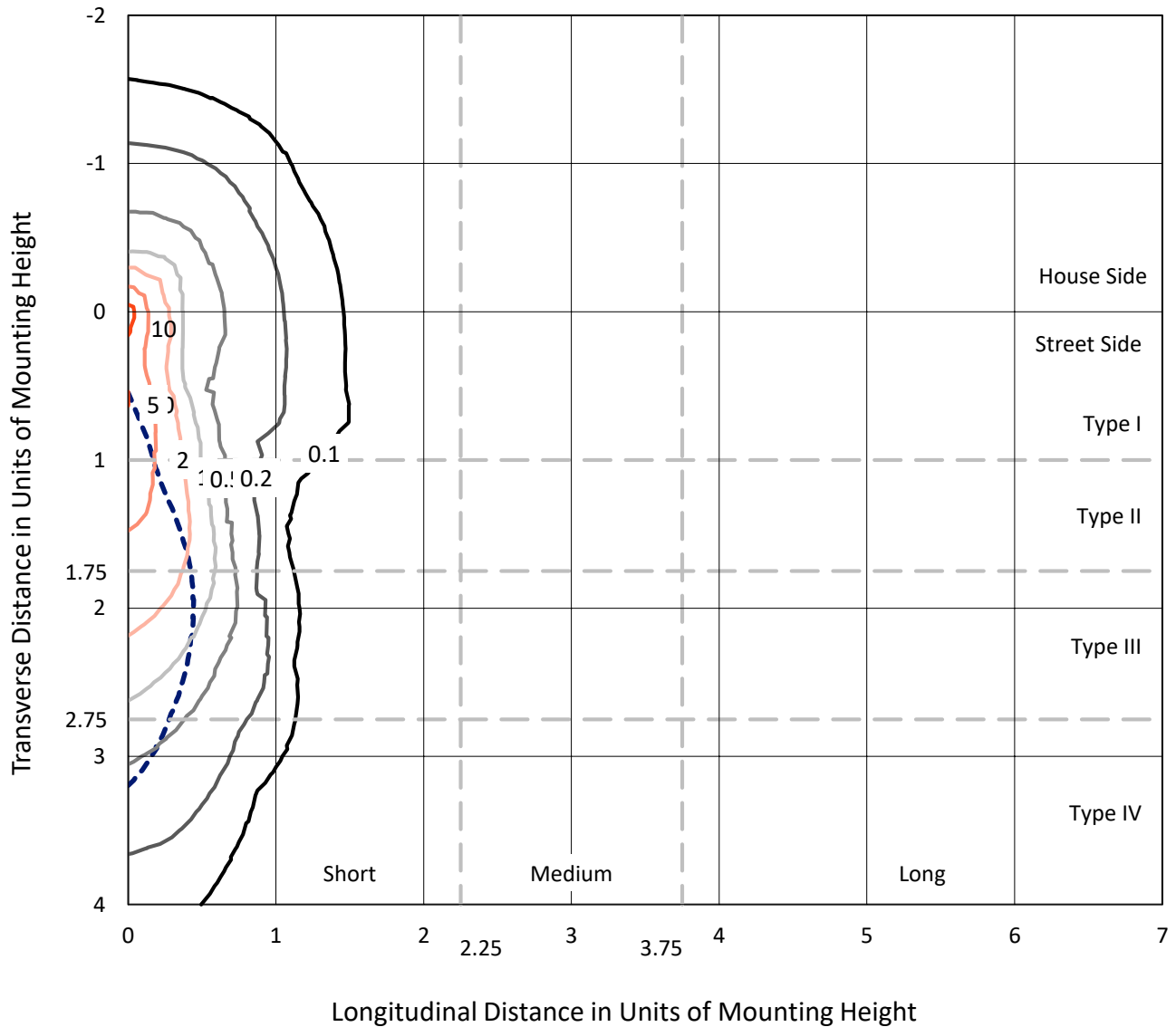


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### Iso-Footcandle Lines of Horizontal Illumination

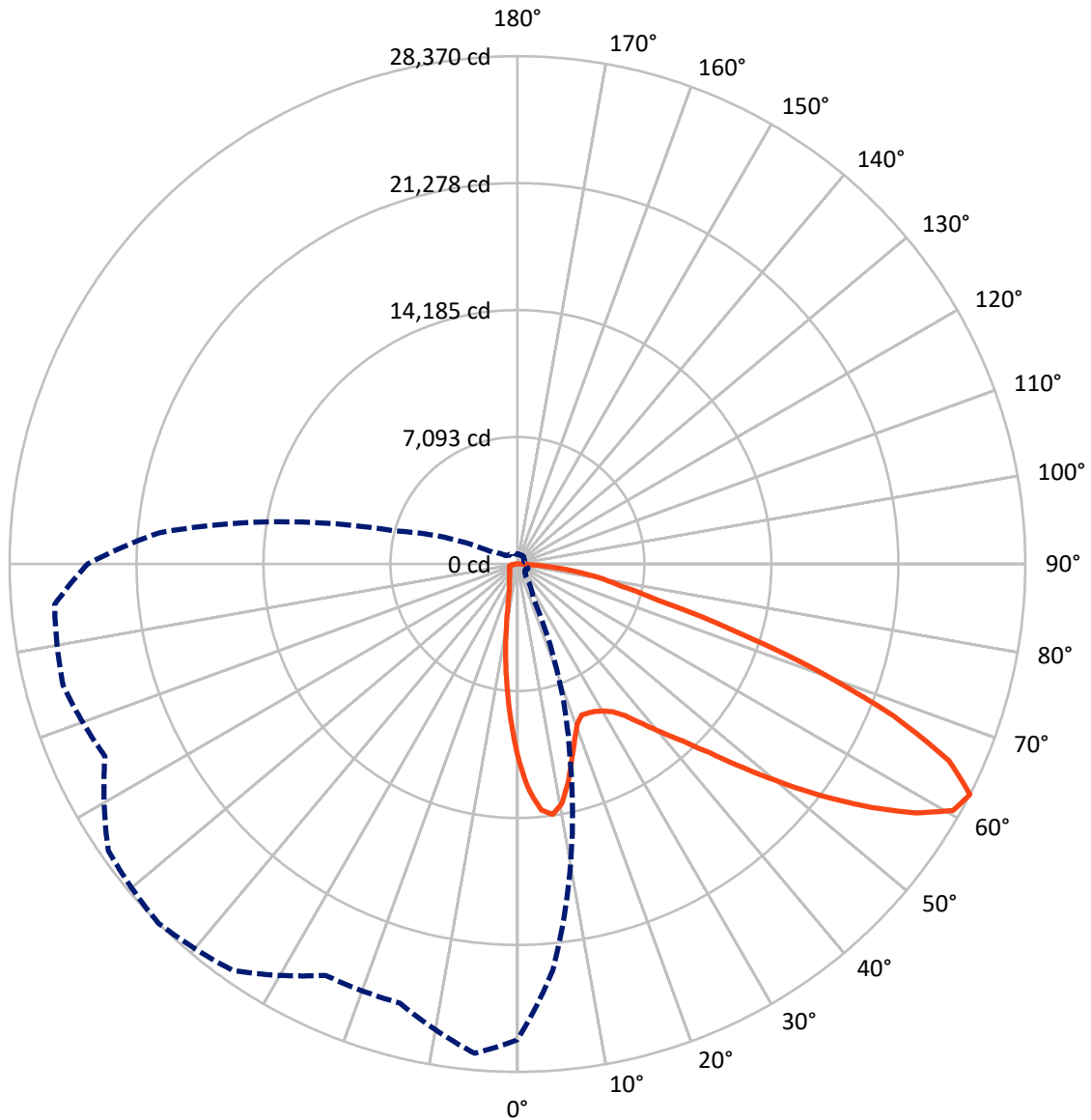
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5403.7	0.0	5403.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27249.7	0.0	27249.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	32653.4	0.0	32653.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.1	2.5
10°-20°	1472.6	4.5
20°-30°	2147.1	6.6
30°-40°	3306.9	10.1
40°-50°	4866.8	14.9
50°-60°	7138.6	21.9
60°-70°	7979.9	24.4
70°-80°	3906.9	12.0
80°-90°	1031.5	3.2
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°	32653.4	100.0
0°-180°	32653.4	100.0

**Coefficient of Utilization**



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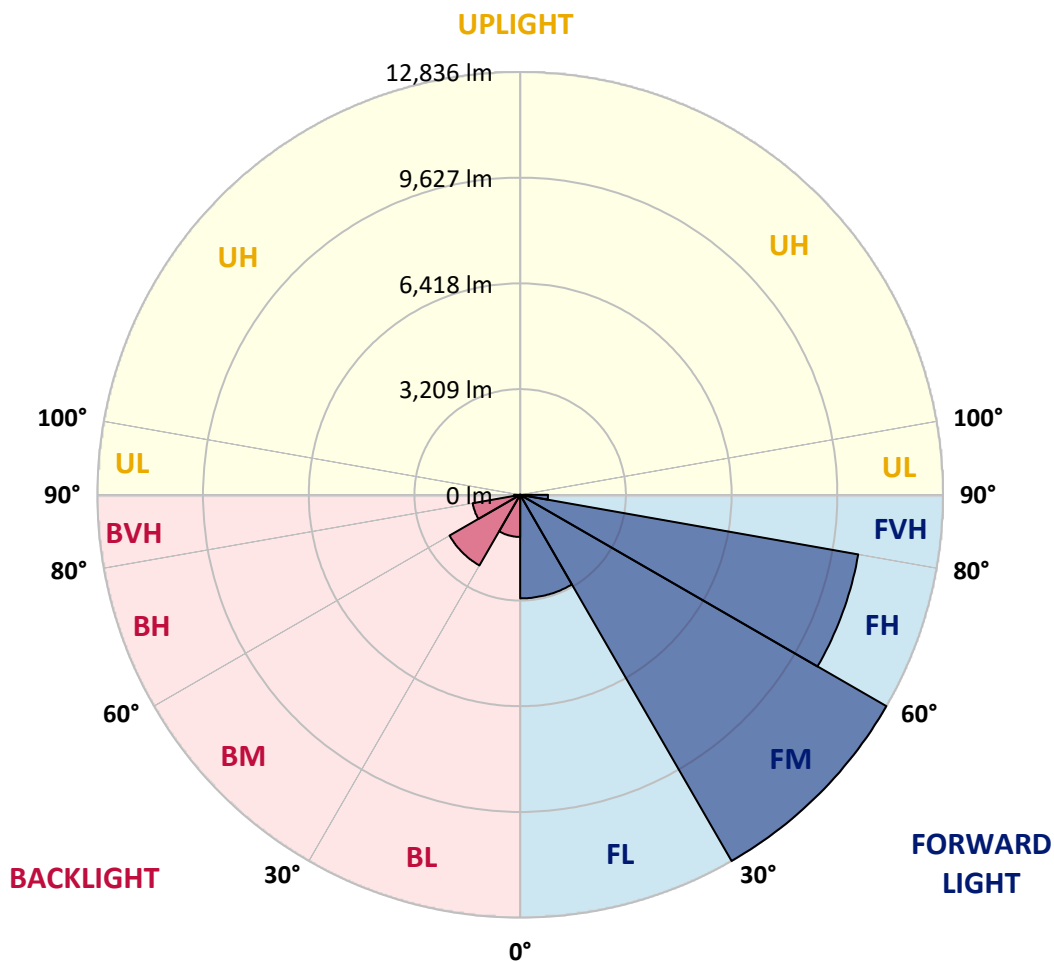
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3144.4	9.6			
FM	(30°-60°)	12836.3	39.3			
FH	(60°-80°)	10421.8	31.9			G4/12000
FVH	(80°-90°)	847.1	2.6			G5
BL	(0°-30°)	1278.4	3.9	B3/2500		
BM	(30°-60°)	2475.9	7.6	B2/2500		
BH	(60°-80°)	1465.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	184.4	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3
2.5°	11462.7	11229.5	10841.5	10437.8	10192.2	9904.7	9680.3	9483.0	9088.0	9010.8	9080.9
5°	10779.0	10310.6	9579.7	8844.0	8353.8	7827.8	7418.6	7090.4	6589.4	6501.3	6607.3
7.5°	9682.4	9122.2	8156.6	7217.5	6524.7	5867.7	5426.5	5074.3	4683.1	4514.6	4525.0
10°	8736.4	8104.4	6962.7	5941.6	5374.3	4930.9	4559.2	4198.4	3801.7	3541.4	3469.7
12.5°	8206.6	7480.0	6163.9	5252.0	4726.0	4259.8	3859.3	3473.5	3049.6	2783.9	2708.9
15°	8115.3	7325.1	5864.5	4810.8	4151.6	3561.5	3089.3	2658.4	2222.0	2006.8	1961.7
17.5°	8511.9	7601.7	5767.2	4417.4	3611.5	2882.8	2303.0	1822.0	1466.7	1359.1	1349.8
20°	9272.7	8133.2	5754.7	4047.8	3078.4	2224.2	1604.7	1254.7	1098.8	1067.8	1070.0
22.5°	10341.1	8957.0	5909.0	3769.6	2588.3	1658.5	1206.4	1049.9	989.0	960.2	960.2
25°	11722.9	10091.6	6264.4	3566.9	2162.8	1324.8	1064.5	971.1	913.5	893.9	897.7
27.5°	13062.4	11195.3	6677.4	3407.2	1884.5	1202.6	1008.6	924.3	874.3	854.2	863.5
30°	14106.9	12175.6	7021.9	3189.8	1742.7	1168.3	1028.7	942.3	870.5	840.1	841.7
32.5°	14972.0	13033.6	7311.0	3033.3	1617.2	1001.5	886.8	848.8	840.1	804.2	786.3
35°	16077.8	13968.9	7505.0	3037.1	1558.0	893.9	789.6	723.3	674.9	633.6	633.6
37.5°	17373.8	15042.1	7711.5	3078.4	1536.8	830.9	755.9	689.0	644.5	604.8	597.7
40°	18655.2	16094.1	7900.1	3118.1	1523.7	793.4	728.7	667.8	626.5	586.9	576.0
42.5°	19745.3	16959.2	8068.5	3137.6	1480.8	789.6	709.1	653.2	614.1	570.6	560.3
45°	20551.2	17684.1	8250.0	3168.1	1437.9	804.2	709.1	651.5	603.2	561.9	551.0
47.5°	21270.6	18535.1	8553.2	3168.1	1385.7	777.1	732.5	653.2	601.6	558.1	549.4
50°	22234.6	19701.8	9127.6	3094.7	1312.3	748.3	771.6	646.1	585.3	551.0	540.1
52.5°	23562.7	21197.3	10039.5	2967.0	1199.3	692.8	766.2	642.9	568.9	533.1	520.6
55°	25133.7	22798.1	11033.9	2818.1	1030.3	653.2	739.6	633.6	551.0	511.3	498.8
57.5°	26359.6	23900.2	11733.8	2588.3	883.0	632.0	655.4	624.9	529.3	488.0	477.7
60°	26847.6	23857.3	11926.2	2281.2	811.3	614.1	572.8	699.9	511.3	470.0	457.5
62.5°	26584.1	22755.2	11387.7	2066.0	795.0	590.7	536.9	647.7	497.2	457.5	439.6
65°	25365.2	20802.2	9960.7	2008.4	841.7	567.3	513.5	508.1	477.7	439.6	421.7
67.5°	22710.1	17883.6	7975.1	2013.9	901.0	544.0	490.2	465.2	450.5	420.1	403.8
70°	18497.6	14139.5	5944.9	2028.5	931.4	516.8	465.2	438.0	421.7	391.3	380.4
72.5°	13601.0	10897.5	4319.0	1935.1	936.8	486.4	430.9	407.6	391.3	359.2	350.0
75°	9305.3	8335.9	2995.8	1603.1	816.7	443.4	392.9	371.7	360.8	321.2	315.7
77.5°	6797.5	6257.3	1917.1	1190.1	629.8	389.6	346.7	330.4	323.3	279.9	272.8
80°	5455.3	4950.4	1199.3	815.1	461.4	326.6	290.7	282.0	274.4	231.5	226.1
82.5°	3783.8	3315.3	770.0	529.3	346.7	253.2	229.9	226.1	215.2	176.1	170.6
85°	1995.9	1800.3	488.0	360.8	251.1	173.9	159.8	159.8	154.3	116.8	113.0
87.5°	254.9	414.6	247.8	188.6	138.0	77.2	77.2	75.5	81.0	66.3	57.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3
2.5°	8915.7	9002.1	8919.5	8924.9	9016.2	9289.0	9412.9	9515.1	9624.8	9696.6	9728.6
5°	6462.2	6663.3	6731.2	6874.7	7086.6	7434.9	7572.9	7673.5	7740.3	7779.4	7795.7
7.5°	4419.5	4541.3	4677.7	4909.2	5370.5	5575.4	5666.7	5643.3	5568.3	5541.1	5514.5
10°	3331.6	3283.3	3257.7	3385.4	3758.8	3965.2	4029.9	3966.9	3925.6	3934.8	3979.4
12.5°	2581.2	2497.0	2394.8	2380.1	2626.3	2811.1	2852.3	2855.6	2931.1	2997.4	3096.3
15°	1881.3	1872.0	1822.0	1791.6	1931.3	2082.3	2100.3	2132.3	2200.8	2249.2	2335.0
17.5°	1326.5	1374.8	1414.5	1434.1	1540.0	1647.6	1628.1	1611.7	1599.3	1599.3	1640.5
20°	1070.0	1102.0	1152.6	1209.6	1317.8	1392.8	1344.4	1279.7	1233.0	1218.9	1224.3
22.5°	964.0	989.0	1017.8	1067.8	1165.1	1217.2	1165.1	1118.3	1071.6	1055.3	1049.9
25°	910.2	942.3	969.4	1006.9	1078.7	1114.5	1064.5	1030.3	1001.5	981.9	967.3
27.5°	879.8	908.0	915.6	933.6	994.4	1026.5	1001.5	987.4	969.4	951.5	933.6
30°	847.2	841.7	829.2	830.9	879.8	911.8	910.2	913.5	911.8	906.4	903.1
32.5°	773.8	762.9	752.1	762.9	807.5	836.3	838.5	845.5	845.5	843.9	858.0
35°	644.5	664.0	676.5	709.1	762.9	787.9	777.1	759.1	727.1	707.0	705.3
37.5°	596.1	599.4	621.1	665.7	725.5	748.3	732.5	691.2	669.5	665.7	671.1
40°	572.8	576.0	588.5	629.8	689.0	712.4	698.3	667.8	647.7	646.1	655.4
42.5°	556.5	560.3	567.3	596.1	644.5	673.3	674.9	653.2	629.8	632.0	640.7
45°	547.2	549.4	547.2	561.9	606.4	640.7	655.4	640.7	621.1	624.9	635.2
47.5°	545.6	540.1	533.1	536.9	583.6	617.3	635.2	629.8	621.1	624.9	633.6
50°	538.5	526.0	516.8	515.2	561.9	597.7	614.1	614.1	617.3	624.9	633.6
52.5°	516.8	502.7	502.7	497.2	547.2	581.4	592.3	593.9	599.4	611.9	624.9
55°	490.2	484.7	490.2	480.9	536.9	568.9	574.4	578.2	581.4	592.3	610.2
57.5°	466.8	459.7	472.2	468.4	527.6	556.5	556.5	563.5	563.5	578.2	592.3
60°	454.3	439.6	445.1	448.9	515.2	545.6	542.3	549.4	552.6	565.7	576.0
62.5°	438.0	425.5	425.5	434.2	501.0	529.3	527.6	533.1	547.2	551.0	561.9
65°	418.4	413.0	407.6	418.4	486.4	511.3	513.5	520.6	533.1	536.9	545.6
67.5°	398.3	400.5	389.6	400.5	473.9	493.4	493.4	508.1	513.5	520.6	529.3
70°	377.1	378.8	369.5	382.6	465.2	473.9	472.2	491.8	495.6	501.0	509.7
72.5°	350.0	350.0	346.7	364.6	450.5	454.3	450.5	466.8	468.4	473.9	477.7
75°	321.2	321.2	317.9	342.9	441.8	432.6	421.7	434.2	438.0	441.8	441.8
77.5°	283.7	287.5	287.5	317.9	410.8	423.9	387.5	395.1	400.5	402.1	396.7
80°	236.9	246.2	249.4	289.1	344.5	391.3	346.7	351.6	353.8	353.8	346.7
82.5°	181.5	197.3	206.5	249.4	264.1	328.2	301.6	307.0	301.6	290.7	287.5
85°	125.5	147.3	158.1	190.2	199.4	253.2	251.1	251.1	240.7	226.1	224.4
87.5°	68.5	81.0	88.0	113.0	136.4	170.6	184.8	179.3	170.6	161.4	163.6
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3
2.5°	9897.6	10141.6	10531.3	10829.0	11129.0	11418.1	11730.6	11969.1	12171.8	12251.1	12491.3
5°	7959.3	8264.2	8632.0	9296.1	9766.7	10285.1	10885.0	11678.4	11983.2	12405.5	13096.1
7.5°	5627.5	5903.6	6495.9	7032.8	7699.0	8433.2	9242.3	10337.3	10737.7	11414.3	12539.7
10°	4202.2	4523.3	4998.8	5451.5	6038.4	6788.8	7718.6	8942.9	9429.2	10163.4	11459.4
12.5°	3385.4	3764.2	4268.5	4694.0	5148.2	5677.5	6580.7	7922.9	8575.0	9217.3	10527.4
15°	2600.8	2997.4	3466.4	4006.5	4507.0	5078.2	6024.2	7492.5	8242.4	8912.4	10030.2
17.5°	1800.3	2139.4	2730.1	3293.6	3934.8	4665.2	5869.9	7583.8	8479.3	9251.5	10116.6
20°	1276.5	1469.9	1954.6	2608.4	3407.2	4323.9	5841.1	8064.7	9229.8	10111.2	10669.3
22.5°	1073.2	1145.0	1427.0	2026.4	2949.1	4069.0	5941.6	8739.6	10242.2	11367.6	11550.7
25°	978.1	1021.6	1168.3	1590.6	2541.5	3884.3	6280.7	9744.9	11495.3	12624.5	12591.9
27.5°	926.0	971.1	1067.8	1342.8	2235.0	3769.6	6619.8	10937.2	12927.7	13988.4	13586.3
30°	910.2	971.1	1073.2	1265.6	2016.0	3588.1	6898.0	11983.2	14029.7	14909.5	14039.0
32.5°	897.7	906.4	953.1	1091.2	1807.4	3376.2	7086.6	12922.2	15108.4	15785.5	14690.5
35°	725.5	770.0	845.5	978.1	1685.7	3249.0	7086.6	13731.9	16171.3	16670.1	15311.6
37.5°	698.3	737.9	804.2	917.3	1617.2	3186.0	6944.8	14512.8	17257.0	17673.8	15823.0
40°	684.2	716.2	779.2	870.5	1588.4	3114.3	6738.3	15201.8	18317.7	18678.6	16300.6
42.5°	673.3	702.1	761.3	841.7	1550.9	3035.5	6571.4	15754.5	19238.8	19536.6	16756.5
45°	667.8	698.3	762.9	856.4	1475.4	2931.1	6516.0	16352.2	19996.3	20252.8	17250.0
47.5°	667.8	703.7	771.6	886.8	1385.7	2823.5	6689.9	17140.7	20712.5	20838.1	17831.4
50°	662.4	702.1	797.2	856.4	1254.7	2687.2	7099.1	18133.0	21488.0	21502.1	18567.7
52.5°	651.5	698.3	858.0	838.5	1103.7	2507.8	7652.3	19407.8	22635.1	22721.0	19719.7
55°	639.0	692.8	841.7	797.2	980.3	2294.3	8104.4	20956.5	24246.9	24485.4	21414.6
57.5°	622.7	685.8	815.1	739.6	899.3	2019.3	8268.0	22091.2	25372.3	25971.7	23324.2
60°	608.6	680.3	735.8	705.3	848.8	1787.8	7951.7	21866.7	25295.1	26587.3	25016.9
62.5°	593.9	685.8	671.1	684.2	825.4	1638.9	7126.3	20069.7	24015.4	25952.1	26271.6
65°	578.2	637.4	633.6	665.7	820.5	1579.7	5907.4	17375.5	21541.8	23943.7	26567.8
67.5°	556.5	588.5	606.4	642.9	838.5	1527.5	4767.3	14332.9	18104.2	20933.2	25023.9
70°	533.1	560.3	579.8	614.1	827.6	1504.2	3965.2	11302.9	14365.5	17156.5	21978.1
72.5°	502.7	526.0	544.0	576.0	816.7	1491.7	3349.6	9102.6	10725.2	12744.6	17869.4
75°	466.8	488.0	501.0	533.1	782.5	1366.1	2633.4	7702.3	8025.6	8865.7	14232.4
77.5°	425.5	441.8	452.1	488.0	692.8	1136.3	1904.6	5941.6	6232.3	6436.7	10911.6
80°	377.1	392.9	398.3	432.6	574.4	888.5	1242.2	4388.6	4661.4	4708.1	7126.3
82.5°	321.2	337.5	337.5	369.5	470.0	639.0	815.1	3006.7	3060.5	3218.6	5036.9
85°	258.7	271.2	271.2	287.5	364.6	477.7	560.3	1509.6	1493.3	1705.2	4363.6
87.5°	184.8	194.0	202.7	206.5	260.3	315.7	337.5	459.7	303.2	348.3	2801.8
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: P299438

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**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3	11032.3
2.5°	12672.8	12775.0	12670.7	12595.7	12270.7	12003.3	11645.8	11462.7
5°	13622.2	13882.5	13794.4	13478.7	12800.0	12037.0	11170.3	10779.0
7.5°	13507.5	14112.3	14126.4	13536.3	12536.4	11412.7	10238.9	9682.4
10°	12613.6	13386.9	13608.0	13035.3	11974.5	10718.2	9371.6	8736.4
12.5°	11615.4	12372.9	12541.9	12344.1	11457.8	10195.4	8829.8	8206.6
15°	10798.6	11138.2	11338.8	11511.6	11014.3	9987.3	8798.9	8115.3
17.5°	10301.4	10263.9	10321.5	10620.9	10705.1	10225.9	9265.7	8511.9
20°	10122.1	9546.1	9531.4	9944.4	10560.1	10795.3	10177.5	9272.7
22.5°	10221.0	9287.4	9168.9	9659.1	10637.2	11615.4	11373.0	10341.1
25°	10561.7	9309.1	9213.5	9687.9	10917.1	12489.7	12663.6	11722.9
27.5°	11098.6	9445.5	9319.5	9806.3	11288.8	13223.8	13934.6	13062.4
30°	11608.3	9682.4	9525.9	10039.5	11627.8	13514.6	14713.9	14106.9
32.5°	12227.8	10125.9	9850.9	10468.2	12047.9	13977.5	15408.3	14972.0
35°	12834.2	10757.3	10416.6	11130.6	12516.3	14554.1	16201.7	16077.8
37.5°	13500.4	11583.3	11301.3	11987.0	13157.5	15097.5	17214.1	17373.8
40°	14211.2	12678.3	12344.1	13236.3	14152.0	15780.0	18271.6	18655.2
42.5°	14927.4	13893.3	13495.0	14399.2	15244.8	16452.8	19175.8	19745.3
45°	15747.4	15212.7	15024.2	16002.3	16295.2	17094.0	19843.6	20551.2
47.5°	16702.7	16709.8	17013.0	17404.3	17354.3	17818.9	20515.3	21270.6
50°	17817.3	18578.0	19248.1	19507.8	18445.4	18598.1	21446.7	22234.6
52.5°	19156.2	20813.1	21642.3	21471.7	19621.4	19549.1	22922.0	23562.7
55°	20831.0	23179.1	24002.9	23880.6	20972.8	20845.1	24760.4	25133.7
57.5°	22769.3	25471.2	26228.7	25679.3	22595.5	22267.2	26280.9	26359.6
60°	24472.9	27287.8	27951.8	27343.2	24232.7	23780.1	27230.2	26847.6
62.5°	25420.6	27903.5	28370.3	27714.9	25354.3	25391.8	27438.3	26584.1
65°	24997.3	26347.1	26497.7	26443.9	25065.2	26327.0	26690.0	25365.2
67.5°	22678.1	22412.3	22665.6	23015.5	22588.4	25095.7	24616.4	22710.1
70°	18592.7	17133.1	17637.9	17872.7	18066.7	21595.6	21365.7	18497.6
72.5°	14011.8	12003.3	12401.7	12353.3	13250.5	17321.7	16616.3	13601.0
75°	9928.1	8138.6	8188.6	8169.1	9246.1	13552.1	12032.1	9305.3
77.5°	6946.4	5896.5	5923.7	6034.5	6216.0	10221.0	8596.2	6797.5
80°	4776.6	4475.0	4623.9	4633.1	4308.1	6866.0	6350.8	5455.3
82.5°	3557.7	3110.5	3074.6	3126.8	3376.2	5562.9	4880.3	3783.8
85°	2913.2	1841.6	1480.8	1856.3	2992.0	5509.1	3242.0	1995.9
87.5°	1640.5	874.3	395.1	732.5	1193.9	3647.4	936.8	254.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)