

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: P534191

Luminaire Tested: **GALN-SA9C-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27999 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 481
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



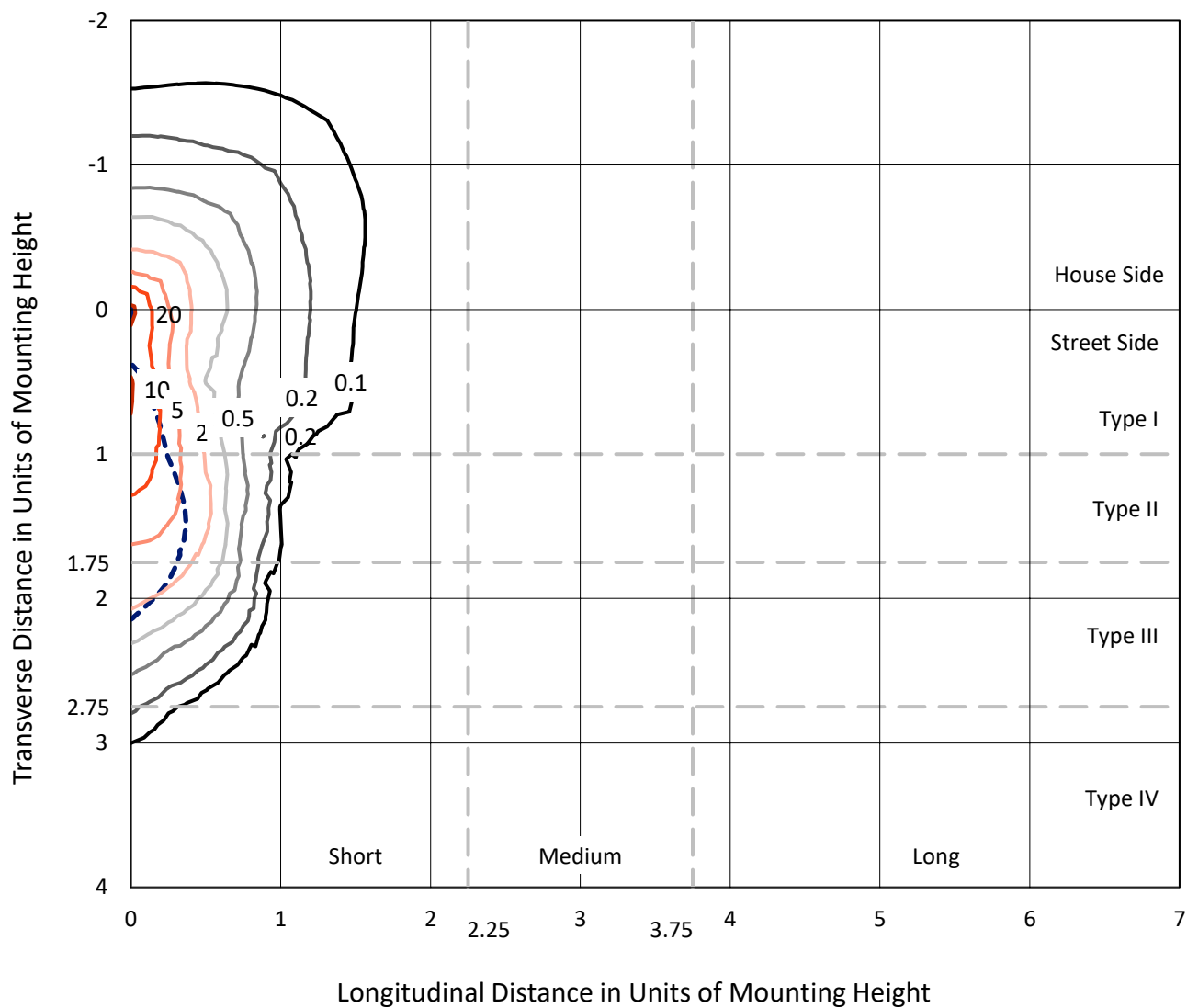
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



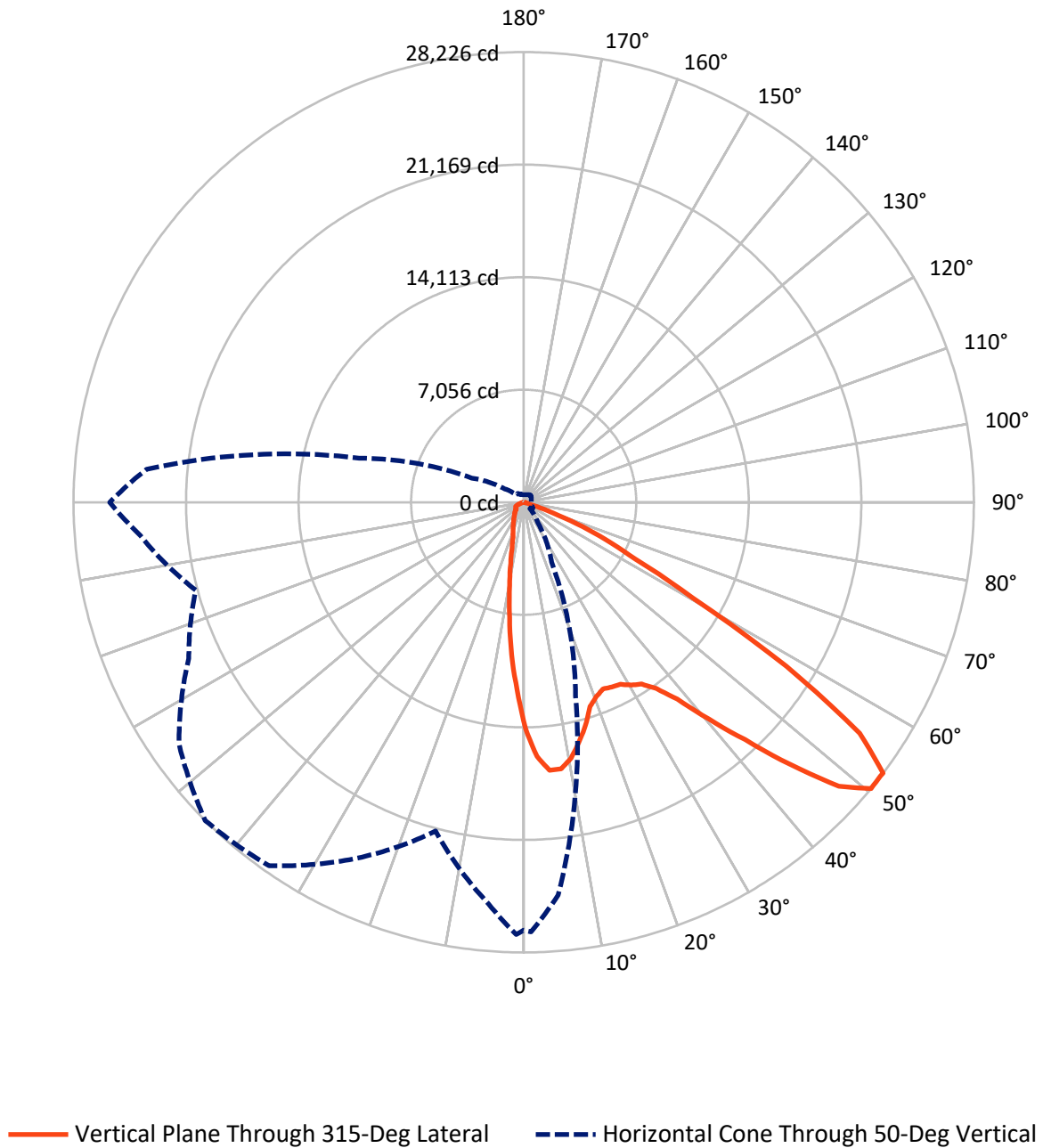
Based on 25 foot mounting height. Maximum calculated value = 22.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5608.2	0.0	5608.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	22390.8	0.0	22390.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	27999.0	0.0	27999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.9	3.7
10°-20°	2056.9	7.3
20°-30°	3090.1	11.0
30°-40°	4638.2	16.6
40°-50°	6518.7	23.3
50°-60°	7031.6	25.1
60°-70°	3264.7	11.7
70°-80°	307.2	1.1
80°-90°	56.6	0.2
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°	27999.0	100.0
0°-180°	27999.0	100.0

Coefficient of Utilization



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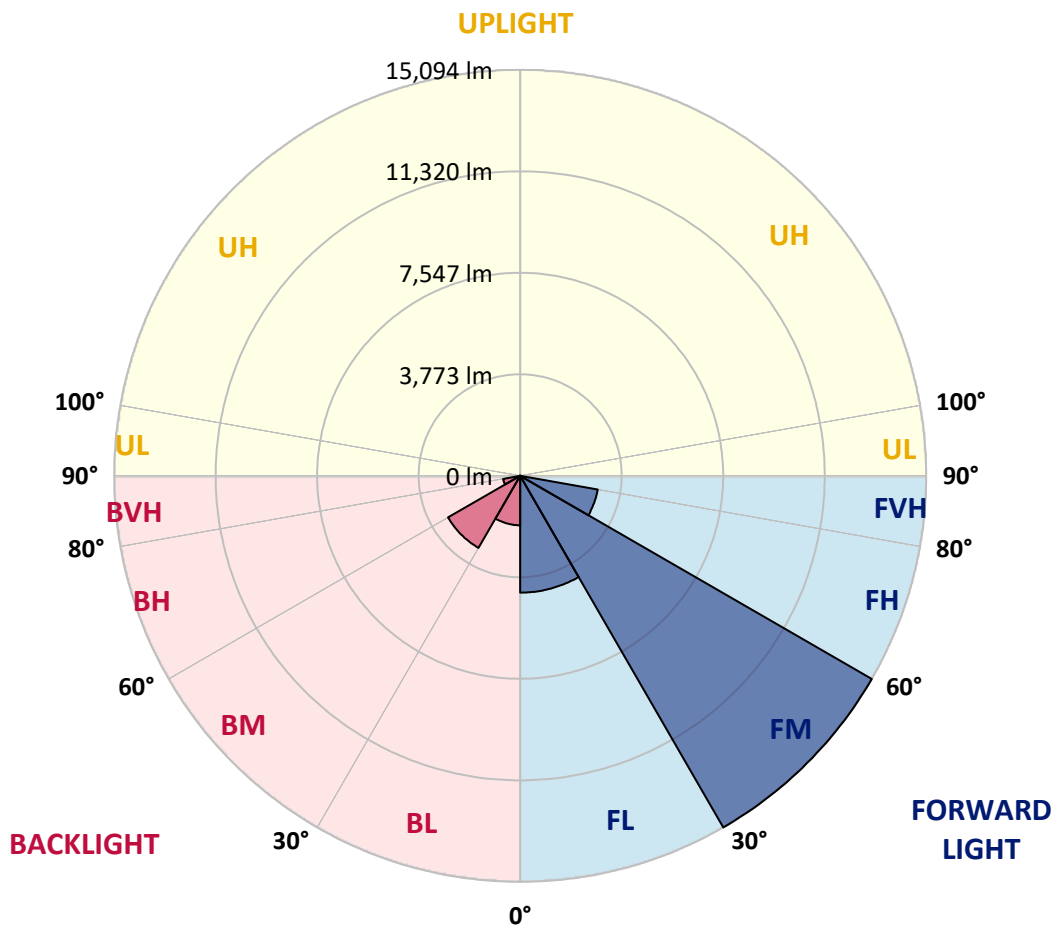
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4343.8	15.5			
FM	(30°-60°)	15093.6	53.9			
FH	(60°-80°)	2927.9	10.5			G2/5000
FVH	(80°-90°)	25.5	0.1			G1/100
BL	(0°-30°)	1838.2	6.6	B3/2500		
BM	(30°-60°)	3094.9	11.1	B3/5000		
BH	(60°-80°)	644.0	2.3	B2/1000		G2/1000
BVH	(80°-90°)	31.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0
2.5°	14760.1	14532.3	14243.5	14004.6	13649.1	12932.4	12738.0	12504.7	12310.3	12049.2	11682.5
5°	13421.3	13349.1	13215.8	12315.8	11665.9	10799.3	10088.2	9788.2	9393.8	9071.6	8838.3
7.5°	12399.1	12110.3	11688.1	10782.6	9743.8	8816.1	8027.2	7566.1	7044.0	6866.2	6549.5
10°	11304.8	11371.4	10749.3	9477.1	8221.7	7471.7	6982.9	6538.4	6066.2	5755.2	5305.2
12.5°	10954.8	10738.1	10260.4	8688.3	7616.1	6916.2	6321.8	5771.8	5271.9	4771.9	4338.6
15°	11182.6	10849.3	10182.6	8521.6	7149.5	6277.3	5533.0	4788.6	4327.5	3688.6	3238.7
17.5°	11999.2	11732.5	10838.1	8699.4	6910.6	5666.3	4560.8	3794.2	3088.7	2510.9	2283.2
20°	13360.2	12982.4	11860.3	8927.2	6555.1	4927.4	3699.7	2755.4	2088.7	1844.3	1716.5
22.5°	14693.4	14487.9	13071.3	9366.0	6238.5	4271.9	2777.6	1855.4	1561.0	1516.6	1433.2
25°	17232.1	16615.5	14921.2	10160.4	5994.0	3655.3	2094.3	1494.3	1322.1	1288.8	1299.9
27.5°	18743.2	18226.5	16632.2	10688.2	5721.8	3183.1	1772.1	1372.1	1255.5	1183.3	1155.5
30°	20193.1	19593.1	17482.1	10999.2	5138.5	2683.1	1572.1	1316.6	1288.8	1183.3	1149.9
32.5°	21309.6	20720.8	18709.8	11465.9	4899.7	2360.9	1294.4	1027.7	955.5	944.4	1044.4
35°	23020.6	22392.9	19759.8	11721.4	4716.3	2194.3	1122.1	916.6	833.3	799.9	805.5
37.5°	24615.0	24187.2	20731.9	11821.4	4521.9	2144.3	1005.5	822.2	749.9	727.7	722.2
40°	25948.2	24992.7	21654.1	11927.0	4438.6	2049.9	933.3	749.9	700.0	666.6	666.6
42.5°	26559.3	25587.1	22687.3	11865.8	4416.4	1899.9	933.3	688.8	650.0	616.6	611.1
45°	26426.0	26031.5	23148.4	11838.1	4416.4	1749.9	849.9	672.2	616.6	572.2	561.1
47.5°	26770.4	26253.7	23726.1	11954.7	4327.5	1644.3	716.6	705.5	583.3	527.7	516.6
50°	26831.5	26931.5	24731.6	12560.2	4133.0	1511.0	561.1	694.4	561.1	477.7	466.6
52°	27231.5	26609.3	25037.2	12882.4	3927.5	1411.0	472.2	594.4	538.9	444.4	433.3
52.5°	26681.5	27087.0	25109.4	12999.1	3949.7	1344.4	455.5	583.3	527.7	444.4	416.6
55°	26064.9	26453.7	24815.0	13249.1	3622.0	1055.5	355.5	422.2	477.7	388.9	372.2
57.5°	22654.0	23048.4	21565.2	12132.5	2949.8	744.4	294.4	316.6	422.2	361.1	344.4
60°	20137.5	19854.2	18098.8	10121.5	2094.3	416.6	233.3	244.4	461.1	333.3	327.8
62.5°	18404.3	17798.8	15126.7	7816.1	1277.7	277.8	183.3	188.9	355.5	311.1	311.1
65°	13615.7	12938.0	10049.3	4727.5	627.7	194.4	138.9	150.0	222.2	266.6	266.6
67.5°	7771.7	7510.6	4855.2	2133.2	261.1	122.2	105.5	116.7	172.2	216.7	205.5
70°	3572.0	3205.3	1866.5	450.0	122.2	83.3	83.3	94.4	138.9	161.1	150.0
72.5°	1044.4	988.8	455.5	72.2	50.0	50.0	55.6	72.2	105.5	122.2	111.1
75°	77.8	50.0	33.3	22.2	22.2	33.3	44.4	72.2	105.5	116.7	94.4
77.5°	5.6	11.1	5.6	5.6	16.7	33.3	50.0	88.9	138.9	144.4	105.5
80°	5.6	5.6	0.0	5.6	16.7	33.3	55.6	100.0	155.5	166.7	88.9
82.5°	0.0	0.0	0.0	5.6	22.2	44.4	66.7	105.5	144.4	177.8	94.4
85°	0.0	0.0	0.0	5.6	33.3	61.1	77.8	27.8	16.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0
2.5°	11943.6	11799.2	11743.6	11793.6	11777.0	11760.3	12065.8	11999.2	11988.1	12088.1	12065.8
5°	8966.0	8710.5	9410.5	9127.1	9421.6	9599.3	9632.7	9649.3	9854.9	9638.2	9921.5
7.5°	6388.4	6455.1	6449.6	6638.4	6977.3	7277.3	7455.0	7316.2	7305.1	7277.3	7155.1
10°	5105.2	4988.5	4966.3	4921.9	5027.4	5283.0	5499.6	5327.4	5205.2	5371.9	5321.9
12.5°	4171.9	4010.8	3922.0	3744.2	3749.7	3922.0	3922.0	3922.0	4044.2	4138.6	4210.8
15°	3199.8	3066.5	3066.5	2888.7	2849.8	2855.4	2944.2	2955.4	3149.8	3205.3	3233.1
17.5°	2238.7	2166.5	2249.8	2322.1	2277.6	2288.7	2322.1	2333.2	2360.9	2338.7	2394.3
20°	1722.1	1711.0	1733.2	1861.0	1955.4	2011.0	1972.1	1916.5	1883.2	1805.4	1805.4
22.5°	1461.0	1483.2	1522.1	1627.7	1749.9	1783.2	1738.8	1611.0	1511.0	1499.9	1505.5
25°	1299.9	1322.1	1383.2	1449.9	1516.6	1572.1	1527.7	1433.2	1377.7	1327.7	1327.7
27.5°	1199.9	1211.0	1244.4	1294.4	1349.9	1394.3	1377.7	1327.7	1266.6	1244.4	1194.4
30°	1122.1	1138.8	1177.7	1188.8	1238.8	1261.0	1233.2	1222.1	1183.3	1155.5	1138.8
32.5°	1083.3	1077.7	1105.5	1116.6	1122.1	1138.8	1105.5	1122.1	1116.6	1072.1	1055.5
35°	816.6	861.1	933.3	994.4	1011.0	1033.3	1027.7	1005.5	944.4	894.4	833.3
37.5°	733.3	761.1	799.9	849.9	916.6	944.4	933.3	877.7	805.5	772.2	761.1
40°	677.7	694.4	727.7	761.1	827.7	877.7	838.8	788.8	733.3	705.5	688.8
42.5°	627.7	633.3	650.0	683.3	733.3	811.1	744.4	677.7	655.5	638.8	627.7
45°	572.2	572.2	594.4	611.1	666.6	738.8	672.2	611.1	600.0	588.8	583.3
47.5°	527.7	533.3	544.4	566.6	611.1	661.1	616.6	566.6	538.9	533.3	522.2
50°	472.2	477.7	500.0	522.2	577.7	605.5	577.7	522.2	494.4	477.7	477.7
52°	427.7	444.4	466.6	511.1	550.0	594.4	561.1	500.0	466.6	450.0	438.9
52.5°	422.2	433.3	455.5	505.5	550.0	588.8	555.5	494.4	455.5	444.4	433.3
55°	377.8	394.4	433.3	494.4	544.4	588.8	544.4	488.9	433.3	405.5	394.4
57.5°	361.1	372.2	422.2	500.0	538.9	588.8	544.4	488.9	433.3	383.3	372.2
60°	344.4	366.6	422.2	483.3	533.3	594.4	550.0	483.3	422.2	361.1	361.1
62.5°	327.8	344.4	416.6	472.2	511.1	572.2	527.7	472.2	405.5	344.4	338.9
65°	283.3	311.1	366.6	394.4	438.9	494.4	450.0	411.1	355.5	305.5	300.0
67.5°	216.7	227.8	272.2	305.5	333.3	383.3	361.1	311.1	272.2	233.3	233.3
70°	150.0	161.1	194.4	211.1	238.9	266.6	250.0	211.1	183.3	161.1	155.5
72.5°	105.5	111.1	122.2	133.3	144.4	155.5	150.0	122.2	105.5	100.0	94.4
75°	83.3	94.4	100.0	94.4	88.9	83.3	83.3	72.2	61.1	55.6	55.6
77.5°	83.3	88.9	83.3	72.2	61.1	55.6	50.0	44.4	33.3	27.8	33.3
80°	72.2	72.2	72.2	61.1	55.6	50.0	44.4	38.9	33.3	27.8	27.8
82.5°	77.8	77.8	72.2	61.1	61.1	50.0	50.0	44.4	38.9	27.8	27.8
85°	0.0	0.0	0.0	11.1	27.8	50.0	50.0	44.4	38.9	33.3	33.3
87.5°	0.0	0.0	0.0	0.0	5.6	11.1	22.2	27.8	33.3	33.3	33.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0
2.5°	12265.8	12476.9	12876.9	13276.9	13521.3	13810.2	14332.3	14610.1	14971.2	15149.0	15498.9
5°	9882.7	10382.6	10560.4	11015.9	11504.8	11993.6	12771.3	13626.8	14337.9	14826.8	15460.0
7.5°	7210.6	7327.3	8016.1	8321.6	9121.6	10010.4	11071.5	12149.2	13049.1	13849.0	14332.3
10°	5405.2	5832.9	6266.2	6849.5	7493.9	8410.5	9427.1	10615.9	11782.5	12582.5	13193.5
12.5°	4344.1	4683.0	5260.7	5888.5	6682.9	7288.4	8310.5	9488.2	10999.2	11782.5	12588.0
15°	3288.7	3722.0	4377.5	5027.4	5866.3	6505.1	7538.4	9021.6	10965.9	12043.6	12738.0
17.5°	2438.7	2733.1	3322.0	4049.7	4905.2	5805.2	7199.5	8971.6	11338.1	12621.4	13338.0
20°	1866.5	1966.5	2338.7	2988.7	3916.4	5094.1	6649.5	9188.3	12438.0	14026.8	14754.5
22.5°	1511.0	1555.4	1699.9	2149.9	3049.8	4471.9	6388.4	9338.2	13676.8	15710.0	16682.2
25°	1316.6	1305.5	1399.9	1594.3	2383.2	3888.6	6055.1	9904.9	15193.4	17687.7	18559.8
27.5°	1199.9	1199.9	1244.4	1383.2	1977.6	3510.9	5844.0	10310.4	16721.1	19426.4	19898.6
30°	1138.8	1149.9	1277.7	1322.1	1644.3	3060.9	5494.1	10721.5	18182.1	20537.5	21187.4
32.5°	1055.5	1011.0	983.3	1094.4	1383.2	2655.4	5144.1	10893.7	19365.3	21898.5	22454.0
35°	811.1	788.8	822.2	905.5	1188.8	2311.0	4755.2	11088.1	20726.4	23476.2	23587.3
37.5°	733.3	727.7	749.9	822.2	999.9	2011.0	4477.5	11038.1	21765.2	24781.6	24481.6
40°	677.7	677.7	694.4	755.5	894.4	1799.9	4188.6	10993.7	22770.7	26248.2	25370.5
42.5°	633.3	633.3	661.1	700.0	849.9	1661.0	3971.9	10932.6	23615.0	27148.1	25892.7
45°	572.2	588.8	633.3	672.2	861.1	1566.6	3810.8	10699.3	23903.9	27137.0	25642.7
47.5°	527.7	550.0	594.4	650.0	777.7	1538.8	3699.7	10493.7	23803.9	26470.4	24859.4
50°	477.7	505.5	566.6	661.1	661.1	1483.2	3583.1	10677.0	23731.7	25953.8	24109.5
52°	444.4	466.6	544.4	644.4	577.7	1366.6	3510.9	11032.6	24026.1	25887.1	23776.1
52.5°	438.9	455.5	527.7	633.3	550.0	1344.4	3460.9	11115.9	24120.6	25720.5	24003.9
55°	388.9	411.1	483.3	494.4	450.0	1105.5	3299.8	11304.8	23653.9	25392.7	23787.3
57.5°	366.6	377.8	427.7	405.5	388.9	833.3	2838.7	11010.4	21009.7	22554.0	22131.8
60°	338.9	350.0	400.0	316.6	327.8	583.3	2133.2	9560.5	16871.1	18793.2	19554.2
62.5°	327.8	322.2	377.8	255.5	277.8	422.2	1505.5	7771.7	12999.1	15471.2	16787.7
65°	288.9	283.3	272.2	216.7	238.9	327.8	899.9	5071.9	9160.5	11704.7	12426.9
67.5°	222.2	233.3	200.0	172.2	200.0	255.5	500.0	2272.1	4805.2	7021.7	7605.0
70°	155.5	166.7	161.1	150.0	177.8	211.1	288.9	777.7	1988.8	3688.6	4066.4
72.5°	94.4	116.7	122.2	127.8	155.5	183.3	205.5	250.0	527.7	1305.5	1622.1
75°	55.6	77.8	94.4	111.1	127.8	155.5	172.2	177.8	183.3	244.4	394.4
77.5°	38.9	55.6	83.3	105.5	127.8	155.5	183.3	194.4	183.3	172.2	183.3
80°	33.3	55.6	77.8	100.0	133.3	161.1	183.3	183.3	177.8	155.5	166.7
82.5°	33.3	55.6	83.3	105.5	127.8	155.5	177.8	183.3	166.7	155.5	161.1
85°	38.9	61.1	88.9	111.1	138.9	127.8	116.7	94.4	88.9	72.2	77.8
87.5°	38.9	55.6	55.6	61.1	66.7	66.7	66.7	61.1	50.0	44.4	44.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0	14199.0
2.5°	15515.6	15960.0	15943.3	15954.5	15887.8	15437.8	15221.2	14671.2	14826.8	14760.1
5°	16110.0	16548.9	16926.6	16882.2	16371.1	15760.0	14854.5	13999.0	13765.7	13421.3
7.5°	15515.6	16571.1	16921.1	16871.1	16115.6	15332.3	13887.9	13032.4	12626.9	12399.1
10°	14571.2	15793.4	16226.7	16315.5	15804.5	14615.7	13288.0	11915.8	11699.2	11304.8
12.5°	14032.4	14921.2	15187.8	15426.7	15249.0	14360.1	12832.4	11515.9	11215.9	10954.8
15°	13593.5	14121.2	14232.4	14504.6	14610.1	14132.4	13071.3	11949.2	11210.3	11182.6
17.5°	13999.0	13782.4	13376.9	13460.2	13793.5	14137.9	13687.9	12804.7	12088.1	11999.2
20°	14671.2	13715.7	12799.1	13004.7	13282.4	14337.9	14621.2	13999.0	13588.0	13360.2
22.5°	15443.4	13832.4	12615.8	12715.8	13243.5	14787.9	16132.2	15787.8	15021.2	14693.4
25°	16871.1	14154.6	12760.2	12826.9	13549.1	15415.6	17498.8	17754.3	17298.8	17232.1
27.5°	18265.4	14987.9	13076.9	12926.9	13704.6	16026.7	18326.5	19698.6	18898.7	18743.2
30°	18976.5	15665.6	13549.1	13293.5	14349.0	16398.9	18826.5	20965.2	20265.3	20193.1
32.5°	20065.3	16282.2	13915.7	13588.0	14710.1	16860.0	19759.8	22348.5	21670.7	21309.6
35°	20520.8	16954.4	14721.2	14337.9	15743.4	17504.4	20237.5	23581.7	23370.6	23020.6
37.5°	21398.5	17676.6	15671.1	15648.9	16993.3	18343.2	21098.5	25259.4	25220.5	24615.0
40°	21470.7	18465.4	17171.0	17871.0	18926.5	19804.2	21854.1	25726.0	26359.3	25948.2
42.5°	21581.8	19848.6	19765.3	20343.0	21248.5	21059.7	21881.8	25837.1	26803.7	26559.3
45°	21631.8	21231.9	22404.0	23470.6	23848.4	22704.0	21620.7	25626.0	27037.0	26426.0
47.5°	21231.9	22420.7	24537.2	26598.2	26709.3	23715.0	21509.6	25409.4	27175.9	26770.4
50°	21287.4	23165.1	26381.5	28225.8	27820.3	24609.4	21337.4	25276.0	27103.7	26831.5
52°	21154.1	23181.7	26642.6	28192.5	27909.2	24115.0	21043.0	24765.0	27037.0	27231.5
52.5°	21304.1	23081.7	26370.4	28214.7	27848.1	24359.4	21004.1	25048.3	27075.9	26681.5
55°	20787.5	21892.9	24776.1	25559.4	25503.8	22109.6	19809.7	24109.5	26059.3	26064.9
57.5°	18787.6	18976.5	19432.0	19415.3	19159.8	17382.1	16943.3	22170.7	23231.7	22654.0
60°	16554.4	13893.5	12665.8	12165.8	11882.5	11593.6	14987.9	20281.9	20381.9	20137.5
62.5°	14304.6	9632.7	7999.4	7860.6	7927.2	8982.7	14487.9	19532.0	18932.0	18404.3
65°	11543.6	7021.7	5810.7	5627.4	6277.3	7416.2	11727.0	14976.7	14054.6	13615.7
67.5°	7249.5	5121.9	3927.5	3583.1	4366.4	5105.2	7705.0	9410.5	8377.2	7771.7
70°	4299.7	2860.9	1777.7	1594.3	1794.3	2722.0	4316.4	4694.1	3883.1	3572.0
72.5°	1694.3	1049.9	494.4	422.2	438.9	955.5	1588.8	1549.9	1172.1	1044.4
75°	455.5	316.6	172.2	138.9	116.7	177.8	255.5	166.7	61.1	77.8
77.5°	211.1	188.9	150.0	116.7	88.9	66.7	33.3	11.1	11.1	5.6
80°	183.3	161.1	138.9	116.7	88.9	55.6	27.8	5.6	5.6	5.6
82.5°	172.2	150.0	127.8	105.5	83.3	55.6	27.8	5.6	0.0	0.0
85°	72.2	94.4	105.5	100.0	88.9	55.6	27.8	5.6	0.0	0.0
87.5°	38.9	33.3	27.8	22.2	16.7	11.1	11.1	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

(END OF REPORT)