

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: P455336

Luminaire Tested: **GALN-SA6C-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455336
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: MCGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 32727 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

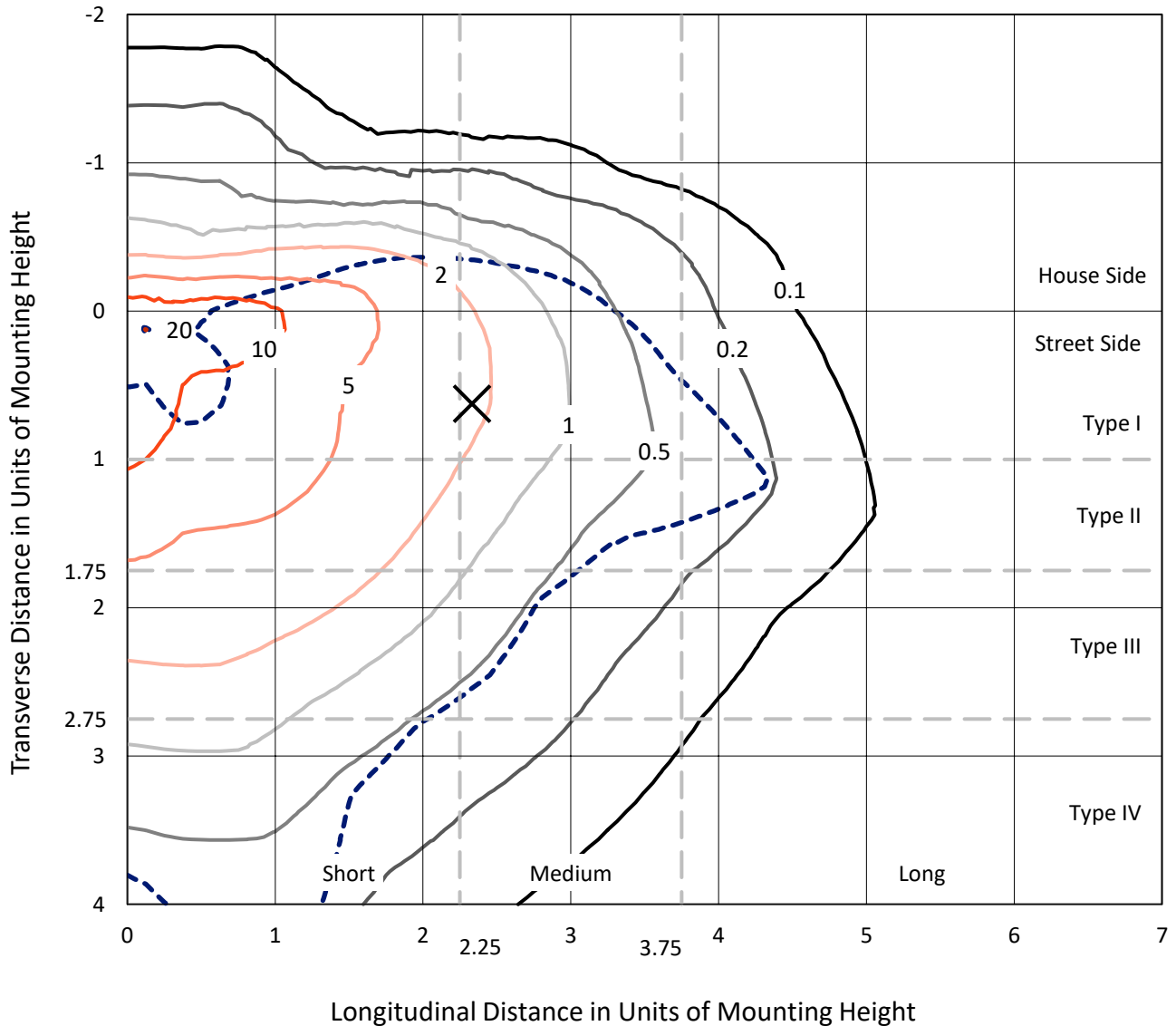
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

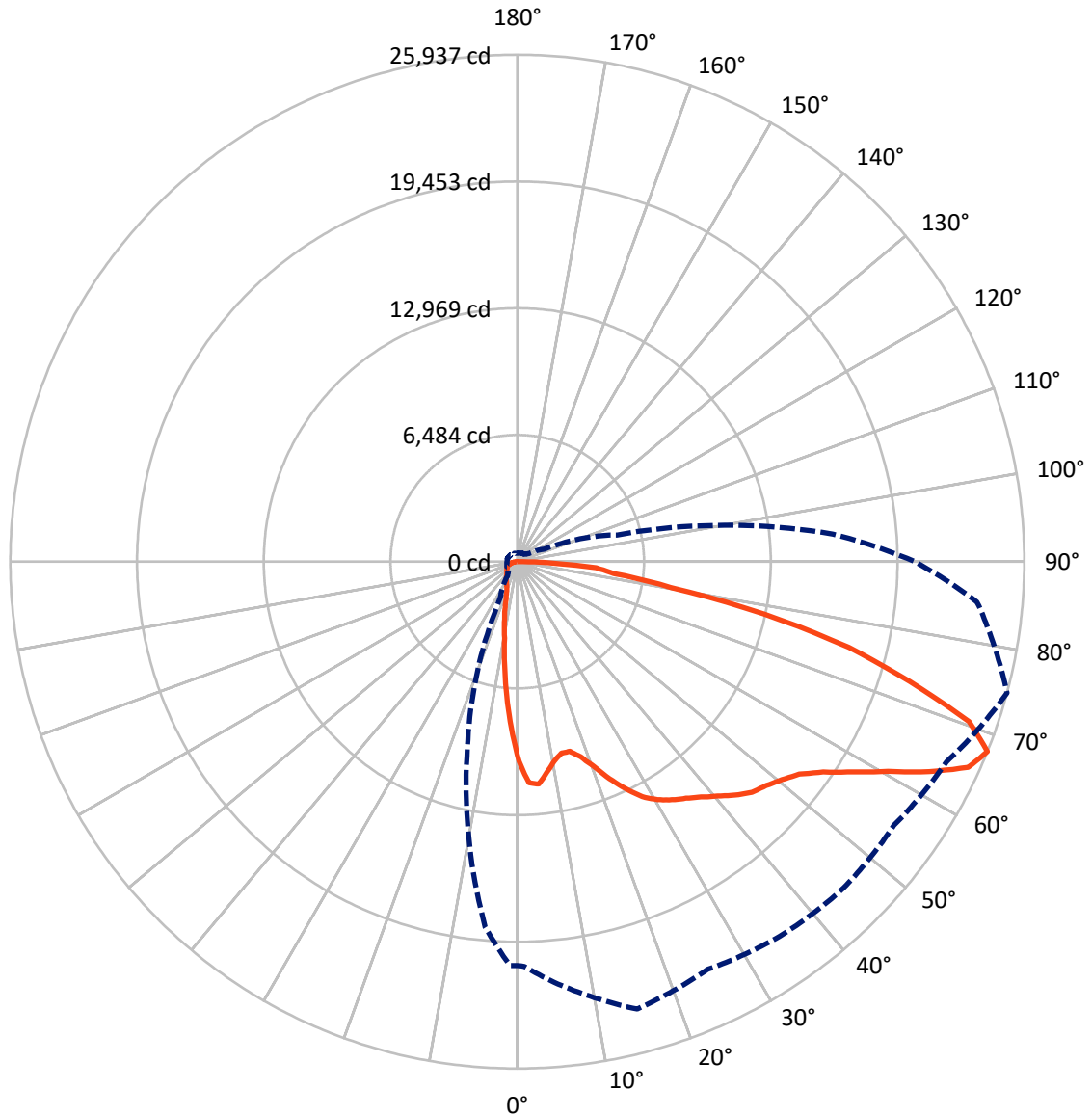
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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	5531.6	0.0	5531.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27195.4	0.0	27195.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	32727.0	0.0	32727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.5	2.4
10°-20°	1617.4	4.9
20°-30°	2327.4	7.1
30°-40°	3352.1	10.2
40°-50°	4708.8	14.4
50°-60°	6567.1	20.1
60°-70°	7807.9	23.9
70°-80°	4598.4	14.1
80°-90°	972.4	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°	32727.0	100.0
0°-180°	32727.0	100.0

Coefficient of Utilization



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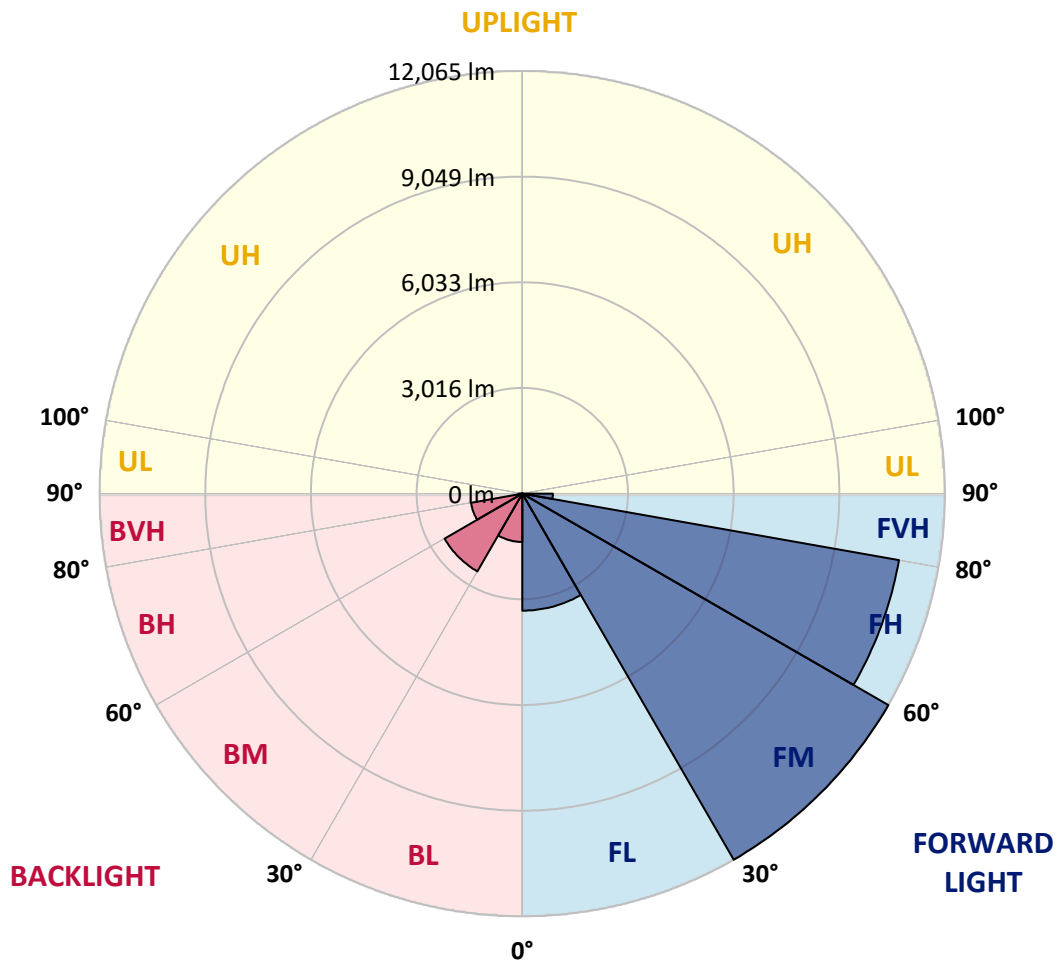
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3340.5	10.2			
FM	(30°-60°)	12065.2	36.9			
FH	(60°-80°)	10917.9	33.4			G4/12000
FVH	(80°-90°)	871.8	2.7			G5
BL	(0°-30°)	1379.7	4.2	B3/2500		
BM	(30°-60°)	2562.8	7.8	B3/5000		
BH	(60°-80°)	1488.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	100.6	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°	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7
2.5°	11024.3	11039.0	11133.4	11408.3	11597.2	11666.5	11714.7	11624.5	11536.4	11322.3	10999.1
5°	10990.7	11076.7	11322.3	11939.3	12426.2	12636.1	12699.0	12428.3	11981.3	11431.4	10770.3
7.5°	10348.5	10463.9	10841.7	11876.3	12734.7	13225.8	13160.7	12671.7	11865.8	10885.8	9962.4
10°	9586.7	9714.7	10170.1	11420.9	12526.9	13202.7	13202.7	12606.7	11536.4	10371.6	9307.6
12.5°	8982.3	9116.6	9637.1	10952.9	12094.6	12734.7	12841.7	12329.6	11299.2	10046.3	8877.3
15°	8782.9	8913.0	9473.4	10669.6	11637.1	12027.4	12063.1	11895.2	11183.8	10069.4	8858.5
17.5°	9030.5	9198.4	9765.1	10753.6	11217.4	11240.4	11267.7	11399.9	11196.4	10491.2	9240.4
20°	9746.2	9926.7	10518.5	11024.3	10850.1	10610.8	10625.5	10965.5	11345.4	11188.0	10153.3
22.5°	10778.7	10936.1	11542.7	11500.7	10694.8	10201.6	10098.8	10573.1	11565.7	12056.8	11125.0
25°	11893.1	12077.8	12774.6	12207.9	10738.9	9958.2	9893.1	10342.2	11794.5	12869.0	12247.8
27.5°	13169.1	13349.6	13899.4	12921.5	10969.7	9939.3	9861.6	10321.2	12000.2	13620.3	13320.2
30°	14117.7	14283.5	14657.1	13521.7	11253.0	10065.2	9968.7	10487.0	12176.4	14134.5	14365.4
32.5°	14862.7	15034.8	15238.4	13895.3	11626.6	10293.9	10115.6	10789.2	12407.3	14526.9	15139.8
35°	15639.2	15842.8	15828.1	14226.8	11975.0	10558.4	10384.2	11225.8	12770.4	14869.0	16121.9
37.5°	16623.5	16705.4	16600.4	14524.9	12392.6	11034.8	10938.2	11874.2	13286.6	15282.5	17269.9
40°	17622.5	17786.2	17246.8	14885.8	12900.5	11930.9	11920.4	12833.3	13899.4	15767.3	18382.2
42.5°	18478.7	18617.2	17851.2	15200.6	13515.4	13024.3	13104.1	14119.8	14703.2	16329.7	19276.2
45°	19123.0	19246.8	18409.5	15504.9	14325.5	14287.7	14757.8	15498.6	15716.9	16835.5	19800.9
47.5°	19670.8	19790.4	18797.7	15966.6	15326.5	15796.6	16615.1	16936.2	16583.6	17125.1	20388.5
50°	20132.5	20168.2	19064.3	16516.5	16568.9	17645.6	18438.9	18646.6	17439.9	17540.6	20898.5
52.5°	20613.1	20566.9	19523.9	17209.0	17912.1	19400.0	19977.2	20193.3	18260.5	18052.7	21641.4
55°	21689.7	21733.8	20554.3	18082.1	19269.9	21123.0	21882.8	21675.0	19169.2	18995.0	22585.8
57.5°	22990.9	22953.1	22004.5	19448.3	20652.9	22726.4	23293.1	22959.4	20382.2	20289.9	23542.8
60°	23496.6	23547.0	23217.5	20917.4	22017.1	24130.4	24709.7	24191.3	21836.6	21794.6	24264.7
62.5°	22988.8	23272.1	23494.5	22224.8	23179.7	25163.0	25738.0	25146.2	23353.9	23658.2	24770.5
65°	21977.2	22038.1	22795.7	23332.9	23740.1	25333.0	25633.1	25318.3	24621.5	25356.1	24747.4
67.5°	20663.4	20715.9	21603.6	23696.0	23018.1	23402.2	23612.1	23519.7	24229.1	25937.4	23607.9
70°	19412.6	19370.7	20308.8	22770.5	20038.0	19454.6	19628.8	19339.2	20906.9	24516.6	21372.8
72.5°	16978.2	17129.3	18136.7	20197.5	15865.9	14917.3	15297.2	14547.9	16080.0	20997.1	17347.6
75°	13299.2	13334.9	15015.9	16950.9	11968.7	10472.3	10986.5	10673.8	12317.1	17515.4	11979.2
77.5°	9208.9	9129.2	10936.1	12946.7	8535.3	7666.4	7674.8	7525.8	8600.3	12896.3	8138.6
80°	5849.0	5727.3	6845.8	7998.0	5865.8	6275.0	6069.3	6063.0	5599.2	7956.0	4921.4
82.5°	3160.6	3294.9	4325.3	5013.7	4207.8	4850.0	4445.0	4314.9	3842.7	4980.1	3148.0
85°	1439.7	1565.6	2306.4	3410.3	3196.3	3231.9	2159.5	2547.8	3179.5	4044.1	1681.0
87.5°	140.6	180.5	476.4	1609.7	1091.3	860.5	321.1	619.1	799.6	1437.6	134.3
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°	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7
2.5°	10866.9	10757.7	10386.3	10079.9	9754.6	9506.9	9183.8	8967.6	8818.6	8594.0	8566.7
5°	10367.4	10100.9	9454.5	8795.5	8226.8	7798.6	7364.2	6965.5	6730.4	6657.0	6562.5
7.5°	9525.8	9076.7	8245.6	7490.1	6837.4	6199.5	5708.4	5360.0	5127.0	4990.6	4826.9
10°	8833.3	8312.8	7301.3	6375.7	5838.5	5441.8	5009.5	4635.9	4348.4	4102.9	3968.6
12.5°	8367.4	7779.7	6642.3	5890.9	5475.4	5053.6	4547.8	4128.1	3704.1	3425.0	3305.4
15°	8226.8	7605.6	6438.7	5649.6	5053.6	4501.6	3935.0	3387.2	2967.5	2703.1	2614.9
17.5°	8570.9	7819.6	6436.6	5328.5	4558.3	3899.3	3173.2	2659.0	2228.8	2031.5	1968.5
20°	9213.1	8231.0	6455.5	5011.6	4021.0	3093.4	2308.5	1886.7	1681.0	1597.1	1565.6
22.5°	10109.3	8858.5	6512.2	4698.9	3433.4	2375.7	1729.3	1515.2	1441.8	1427.1	1420.8
25°	11213.2	9635.0	6703.1	4417.7	2938.1	1813.2	1446.0	1349.4	1307.5	1292.8	1290.7
27.5°	12228.9	10638.1	6934.0	4176.3	2459.6	1563.5	1307.5	1225.6	1183.6	1181.5	1185.7
30°	13146.0	11477.6	7127.1	3905.6	2096.6	1389.3	1217.2	1135.4	1095.5	1093.4	1106.0
32.5°	13939.3	12168.1	7269.8	3639.1	1895.1	1282.3	1135.4	1047.2	1013.7	1007.4	1013.7
35°	14787.2	12856.4	7204.7	3431.3	1779.7	1194.1	1074.5	988.5	948.6	929.7	929.7
37.5°	15754.7	13565.8	7093.5	3259.2	1727.2	1120.7	1022.0	938.1	898.2	879.3	877.2
40°	16810.3	14275.1	6940.3	3106.0	1674.7	1076.6	986.4	898.2	850.0	831.1	826.9
42.5°	17742.1	14881.6	6814.4	3005.3	1588.7	1085.0	954.9	868.8	808.0	782.8	780.7
45°	18552.2	15492.3	6791.3	2946.5	1517.3	1072.4	946.5	845.8	774.4	747.1	742.9
47.5°	19186.0	16128.2	6923.5	2912.9	1439.7	1005.3	1001.1	831.1	745.0	715.6	711.4
50°	19958.3	17030.7	7225.7	2843.7	1368.3	942.3	1057.7	829.0	721.9	684.2	673.7
52.5°	20986.6	18205.9	7634.9	2719.9	1265.5	883.5	1009.5	829.0	694.7	656.9	644.3
55°	22541.7	19704.4	8035.8	2545.7	1120.7	805.9	910.8	803.8	654.8	621.2	612.8
57.5°	23572.2	20799.9	8291.8	2304.3	940.2	749.2	784.9	763.9	614.9	579.2	579.2
60°	23624.7	21093.7	8170.1	2000.0	826.9	696.8	682.1	770.2	579.2	541.5	537.3
62.5°	23020.2	20373.8	7536.3	1727.2	766.0	640.1	617.0	675.8	543.6	505.8	499.5
65°	22075.8	18537.5	6436.6	1597.1	732.4	589.7	556.1	554.0	505.8	470.1	461.7
67.5°	20340.2	16199.6	5288.6	1521.5	715.6	533.1	501.6	491.1	461.7	432.3	428.1
70°	17782.0	13567.9	4241.4	1490.1	707.2	474.3	449.1	436.5	411.3	388.3	386.2
72.5°	13834.4	11005.4	3500.6	1469.1	703.1	419.7	392.5	375.7	361.0	340.0	340.0
75°	9937.2	8096.6	2671.6	1324.3	650.6	361.0	331.6	321.1	300.1	283.3	287.5
77.5°	6264.5	5452.3	1758.7	973.8	503.7	289.6	264.4	258.1	241.3	218.3	233.0
80°	4230.9	3834.3	1026.2	612.8	316.9	212.0	203.6	201.5	182.6	157.4	159.5
82.5°	2879.4	2824.8	533.1	348.4	182.6	123.8	119.6	123.8	102.8	83.9	83.9
85°	1124.9	1536.2	251.8	136.4	58.8	18.9	27.3	29.4	16.8	8.4	10.5
87.5°	21.0	157.4	6.3	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°	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7
2.5°	8524.8	8505.9	8537.4	8403.0	8430.3	8480.7	8505.9	8520.6	8728.3	8680.1	8812.3
5°	6650.7	6631.8	6753.5	6770.3	6833.2	6820.7	6881.5	6896.2	6971.8	6999.0	7183.7
7.5°	4837.4	4919.3	5057.8	5129.1	5236.2	5269.7	5238.3	5315.9	5158.5	5271.8	5305.4
10°	3886.7	3788.1	3729.3	3893.0	3914.0	4069.3	4006.3	3956.0	4048.3	4052.5	4140.7
12.5°	3236.1	3024.2	2883.6	2929.7	2980.1	3047.3	3057.8	3158.5	3225.6	3288.6	3341.1
15°	2537.3	2463.8	2335.8	2272.9	2344.2	2371.5	2436.5	2520.5	2591.8	2610.7	2682.1
17.5°	1947.6	1960.2	1939.2	1901.4	1945.5	1966.4	1970.6	1972.7	1991.6	1979.0	2084.0
20°	1567.7	1611.8	1664.2	1672.6	1687.3	1697.8	1678.9	1607.6	1609.7	1653.7	1687.3
22.5°	1418.7	1427.1	1485.9	1504.7	1550.9	1532.0	1477.5	1443.9	1439.7	1450.2	1467.0
25°	1301.2	1313.8	1355.7	1385.1	1420.8	1387.2	1347.3	1315.9	1311.7	1322.2	1338.9
27.5°	1196.2	1215.1	1252.9	1282.3	1315.9	1284.4	1246.6	1219.3	1217.2	1215.1	1225.6
30°	1112.3	1133.3	1160.6	1194.1	1217.2	1189.9	1154.3	1139.6	1137.5	1133.3	1137.5
32.5°	1028.3	1061.9	1089.2	1106.0	1129.1	1108.1	1080.8	1072.4	1057.7	1045.1	1038.8
35°	933.9	969.6	1011.6	1032.5	1055.6	1034.6	1015.8	980.1	954.9	952.8	957.0
37.5°	879.3	894.0	927.6	963.3	986.4	975.9	940.2	904.5	898.2	898.2	902.4
40°	831.1	837.4	852.1	898.2	940.2	908.7	864.6	854.2	854.2	852.1	854.2
42.5°	782.8	789.1	789.1	824.8	891.9	841.6	808.0	808.0	808.0	810.1	816.4
45°	738.7	740.8	738.7	763.9	826.9	784.9	761.8	768.1	772.3	776.5	780.7
47.5°	701.0	703.1	701.0	721.9	753.4	736.6	724.0	732.4	740.8	747.1	751.3
50°	667.4	665.3	669.5	682.1	696.8	701.0	692.6	705.2	709.3	717.7	728.2
52.5°	638.0	635.9	640.1	646.4	667.4	667.4	667.4	677.9	686.3	694.7	709.3
55°	604.4	606.5	612.8	621.2	648.5	644.3	646.4	654.8	663.2	675.8	684.2
57.5°	572.9	577.1	585.5	598.1	625.4	623.3	625.4	629.6	640.1	646.4	654.8
60°	537.3	545.7	556.1	564.5	591.8	589.7	600.2	608.6	614.9	614.9	619.1
62.5°	501.6	514.2	524.7	531.0	560.3	562.4	577.1	583.4	587.6	583.4	589.7
65°	465.9	484.8	489.0	497.4	526.8	528.9	545.7	560.3	556.1	551.9	562.4
67.5°	430.2	453.3	451.2	461.7	491.1	495.3	510.0	535.2	526.8	522.6	531.0
70°	390.4	407.1	409.2	415.5	455.4	449.1	472.2	495.3	489.0	491.1	491.1
72.5°	346.3	361.0	361.0	373.6	415.5	405.0	423.9	449.1	449.1	447.0	447.0
75°	293.8	302.2	310.6	329.5	373.6	361.0	373.6	396.6	400.8	396.6	396.6
77.5°	237.1	249.7	253.9	279.1	310.6	308.5	321.1	331.6	340.0	335.8	335.8
80°	167.9	180.5	197.3	224.6	243.4	249.7	256.0	264.4	268.6	268.6	272.8
82.5°	94.4	113.3	128.0	155.3	163.7	195.2	193.1	199.4	193.1	170.0	188.9
85°	21.0	39.9	56.7	71.4	81.8	113.3	119.6	134.3	111.2	102.8	102.8
87.5°	0.0	0.0	0.0	0.0	0.0	16.8	33.6	46.2	39.9	33.6	33.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7	10224.7
2.5°	8923.5	9106.1	9326.5	9706.3	9972.8	10260.4	10550.0	10858.5	10940.3	11024.3
5°	7234.1	7593.0	7788.1	8298.1	8833.3	9513.2	10069.4	10678.0	10931.9	10990.7
7.5°	5479.6	5723.1	6235.1	6751.4	7414.6	8128.1	8980.2	9928.8	10224.7	10348.5
10°	4344.2	4675.8	5124.9	5679.0	6260.3	7028.4	7989.6	9097.7	9517.4	9586.7
12.5°	3697.8	4067.2	4556.2	5141.7	5691.6	6270.8	7240.4	8384.2	8833.3	8982.3
15°	2957.0	3404.0	3968.6	4585.6	5183.7	5817.5	6799.7	8090.3	8608.7	8782.9
17.5°	2323.2	2684.2	3294.9	3964.4	4673.7	5475.4	6707.3	8231.0	8869.0	9030.5
20°	1777.6	2035.7	2549.9	3257.1	4088.2	5137.5	6730.4	8761.9	9525.8	9746.2
22.5°	1536.2	1668.4	1981.1	2654.8	3584.5	4843.7	6824.9	9490.2	10411.5	10778.7
25°	1391.4	1460.7	1637.0	2077.7	3103.9	4558.3	7041.0	10470.2	11649.7	11893.1
27.5°	1267.6	1318.0	1427.1	1744.0	2667.4	4293.9	7292.9	11557.3	12806.0	13169.1
30°	1150.1	1217.2	1320.1	1548.8	2388.3	4052.5	7609.8	12438.8	13779.8	14117.7
32.5°	1059.8	1127.0	1221.4	1412.4	2151.1	3798.6	7798.6	13213.2	14575.2	14862.7
35°	986.4	1043.0	1141.7	1303.3	1970.6	3605.5	7760.9	13828.1	15345.4	15639.2
37.5°	933.9	982.2	1080.8	1200.4	1834.2	3404.0	7742.0	14640.3	16283.5	16623.5
40°	885.6	936.0	1026.2	1133.3	1697.8	3166.9	7752.5	15446.2	17282.5	17622.5
42.5°	847.9	904.5	978.0	1114.4	1557.2	2975.9	7752.5	16147.1	18151.3	18478.7
45°	816.4	877.2	948.6	1112.3	1446.0	2831.1	7700.0	16749.4	18843.9	19123.0
47.5°	789.1	856.3	959.1	1074.5	1418.7	2726.2	7653.8	17232.1	19408.4	19670.8
50°	770.2	850.0	1020.0	1030.4	1427.1	2694.7	7876.3	17840.7	19905.8	20132.5
52.5°	755.5	852.1	1017.9	965.4	1412.4	2715.7	8340.1	18791.4	20596.3	20613.1
55°	726.1	850.0	965.4	891.9	1351.5	2751.3	8936.1	20172.4	21677.1	21689.7
57.5°	696.8	826.9	896.1	829.0	1227.7	2751.3	9653.9	21479.8	22980.4	22990.9
60°	667.4	860.5	787.0	774.4	1066.1	2701.0	10411.5	22054.9	23389.6	23496.6
62.5°	638.0	866.7	703.1	726.1	948.6	2579.3	10976.0	21419.0	22835.6	22988.8
65°	604.4	698.9	648.5	675.8	887.7	2375.7	10797.6	20254.2	21794.6	21977.2
67.5°	564.5	591.8	589.7	623.3	866.7	2075.6	9857.4	18780.9	20673.9	20663.4
70°	516.3	531.0	537.3	572.9	826.9	1842.6	8214.2	16869.1	19177.6	19412.6
72.5°	465.9	478.5	484.8	516.3	787.0	1710.4	6375.7	14235.2	16610.9	16978.2
75°	411.3	419.7	428.1	455.4	745.0	1515.2	4541.5	10866.9	12722.1	13299.2
77.5°	354.7	354.7	365.2	392.5	627.5	1250.8	3047.3	7622.3	8619.2	9208.9
80°	287.5	289.6	285.4	314.8	461.7	856.3	1731.4	5091.4	5735.6	5849.0
82.5°	220.4	214.1	216.2	230.9	344.2	583.4	923.4	3162.7	3223.5	3160.6
85°	138.5	138.5	134.3	151.1	220.4	304.3	503.7	1937.1	1513.1	1439.7
87.5°	56.7	46.2	52.5	60.9	104.9	123.8	197.3	398.7	153.2	140.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)