

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: P453943

Luminaire Tested: **GALN-SA5A-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 14978 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

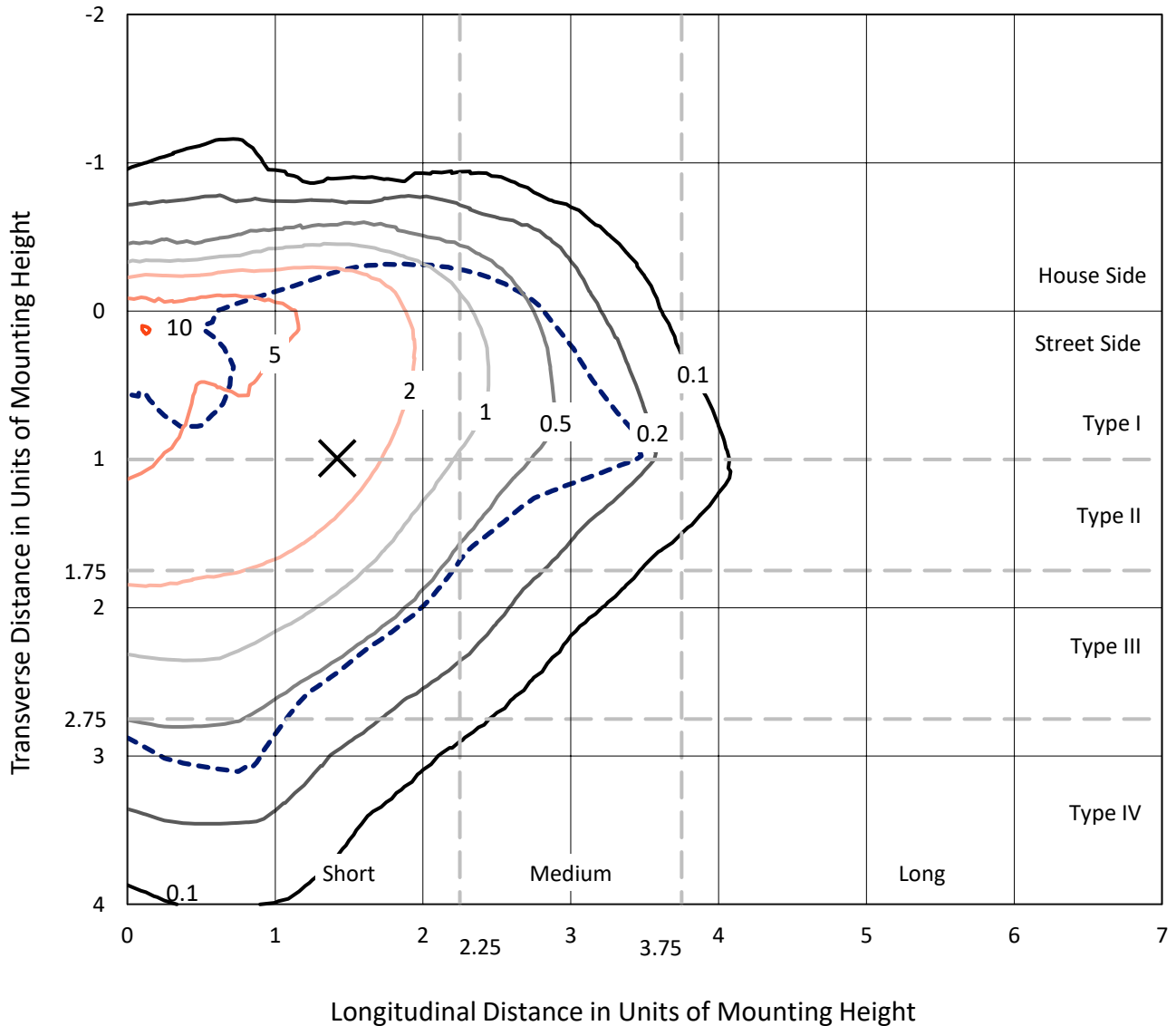
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

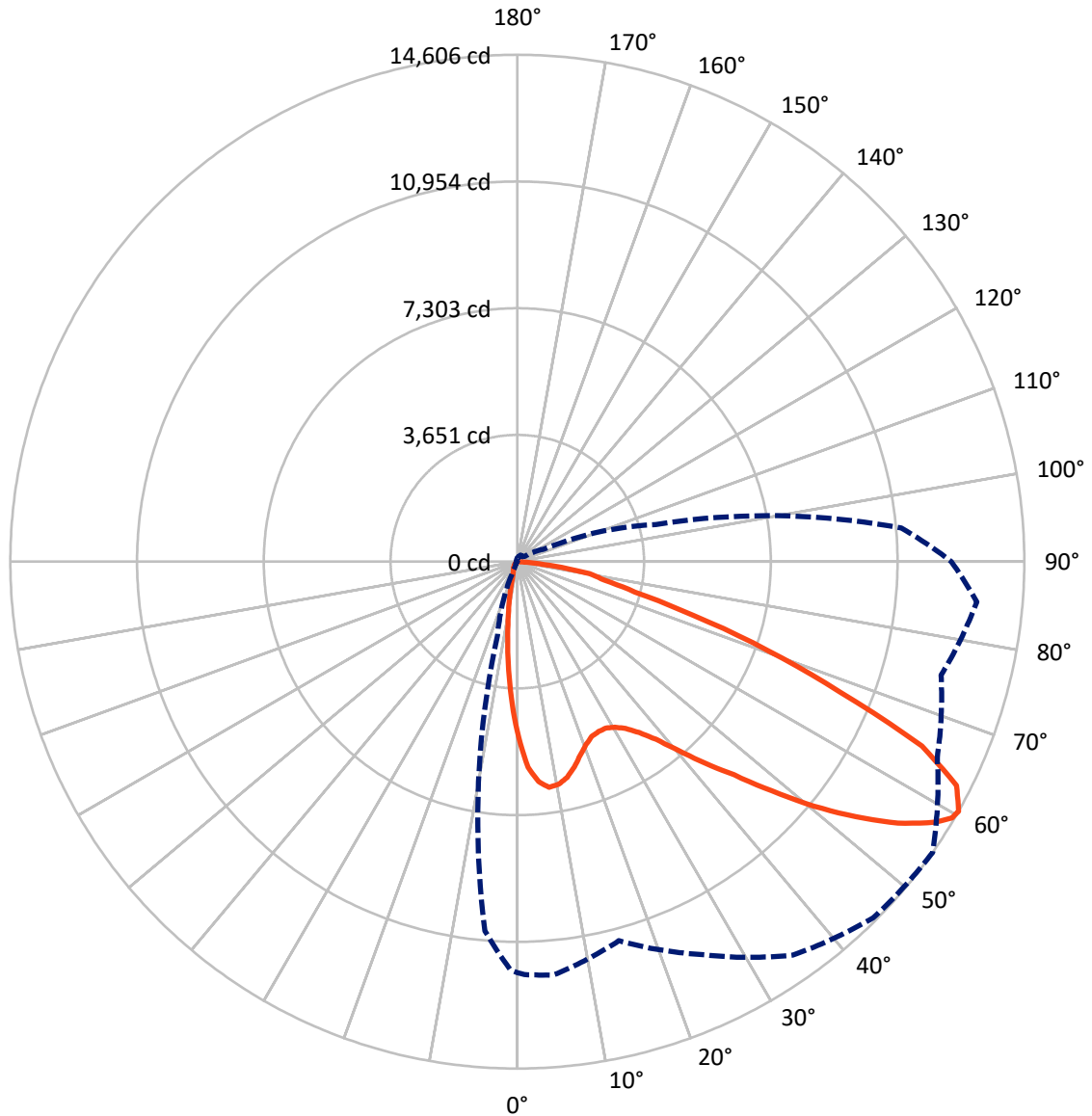
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2222.9	0.0	2222.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	12755.1	0.0	12755.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	14978.0	0.0	14978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	2.5
10°-20°	739.6	4.9
20°-30°	1094.7	7.3
30°-40°	1631.7	10.9
40°-50°	2389.7	16.0
50°-60°	3449.9	23.0
60°-70°	3629.2	24.2
70°-80°	1492.9	10.0
80°-90°	174.9	1.2
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°	14978.0	100.0
0°-180°	14978.0	100.0

Coefficient of Utilization



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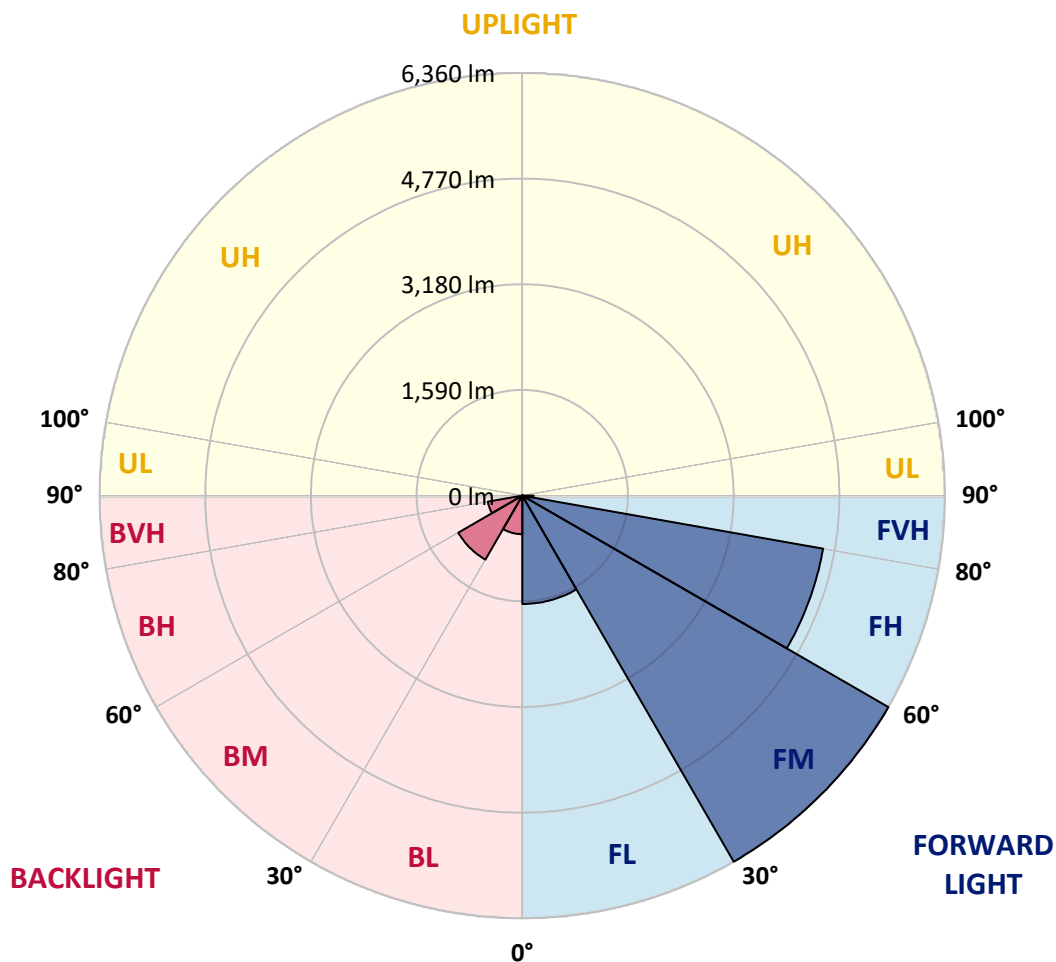
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1629.8	10.9			
FM	(30°-60°)	6359.7	42.5			
FH	(60°-80°)	4595.9	30.7			G2/5000
FVH	(80°-90°)	169.7	1.1			G2/225
BL	(0°-30°)	580.0	3.9	B2/1000		
BM	(30°-60°)	1111.6	7.4	B2/2500		
BH	(60°-80°)	526.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	5540.7	5531.5	5613.4	5747.1	5882.0	5952.3	5938.5	5932.7	5820.9	5739.0	5567.2
5°	5529.2	5576.5	5722.9	6084.9	6359.3	6491.9	6531.1	6366.2	6148.3	5832.4	5442.7
7.5°	5198.3	5257.1	5495.8	6061.8	6549.5	6837.7	6827.3	6563.3	6113.7	5624.9	5069.2
10°	4787.9	4857.1	5137.2	5824.3	6457.3	6837.7	6858.5	6524.1	5965.0	5337.8	4753.3
12.5°	4498.5	4580.4	4890.5	5603.0	6219.8	6594.5	6618.7	6376.6	5853.2	5227.1	4581.5
15°	4400.5	4477.8	4792.5	5491.2	5967.3	6169.0	6163.3	6137.9	5809.4	5253.7	4590.8
17.5°	4568.9	4632.3	4987.3	5541.9	5731.0	5710.2	5740.2	5862.4	5818.6	5476.2	4881.3
20°	5003.5	5068.1	5449.7	5697.5	5550.0	5418.5	5432.4	5636.4	5903.9	5894.7	5335.5
22.5°	5601.8	5711.4	6057.2	5999.6	5525.7	5237.5	5208.7	5473.9	6049.1	6376.6	5948.8
25°	6359.3	6470.0	6739.7	6481.5	5644.5	5194.9	5168.4	5424.3	6225.5	6846.9	6639.4
27.5°	6995.7	7079.8	7348.4	6950.7	5819.7	5213.3	5169.5	5431.2	6368.5	7247.0	7221.6
30°	7505.2	7567.5	7725.4	7169.7	5970.8	5294.0	5243.3	5532.7	6431.9	7441.8	7693.2
32.5°	7915.7	8020.6	8070.1	7403.8	6187.5	5446.2	5359.7	5727.5	6586.4	7682.8	8187.7
35°	8384.9	8505.9	8442.5	7627.4	6473.4	5683.7	5577.6	6043.4	6820.4	7905.3	8761.9
37.5°	8979.8	9119.3	8871.4	7862.6	6775.5	6041.1	5991.5	6487.2	7175.5	8223.5	9377.5
40°	9595.4	9676.1	9287.6	8148.5	7146.7	6561.0	6608.3	7146.7	7640.1	8605.1	10032.3
42.5°	10076.2	10152.2	9715.3	8388.3	7526.0	7177.8	7375.0	7942.2	8172.8	8995.9	10521.2
45°	10443.9	10508.5	10011.6	8650.0	8037.9	8071.3	8443.7	8761.9	8706.5	9234.6	10898.2
47.5°	10729.8	10785.2	10239.9	8931.3	8804.5	9164.2	9733.7	9868.6	9259.9	9492.8	11239.4
50°	10847.4	10863.6	10311.3	9289.9	9675.0	10556.9	11150.6	11068.8	9894.0	9779.9	11602.6
52.5°	11000.8	10997.3	10515.4	9631.1	10493.5	11802.0	12394.6	12209.0	10611.1	10209.9	12010.7
55°	11403.1	11407.7	10952.3	10115.3	11191.0	12807.3	13441.4	13306.5	11367.4	10936.2	12486.8
57.5°	11891.9	11909.2	11573.7	10681.4	11857.3	13535.9	14223.1	14171.2	12390.0	11744.4	12936.4
59°	11955.3	11989.9	11867.7	11080.3	12252.8	13759.6	14490.5	14541.2	12937.6	12277.0	13179.7
60°	11840.1	11897.7	11953.0	11306.3	12484.5	13840.3	14506.7	14605.8	13349.2	12639.0	13290.4
62.5°	11337.4	11428.5	11706.3	12001.5	12773.9	13589.0	13991.3	14198.8	13858.7	13590.1	13300.8
65°	10679.1	10726.4	11127.6	12124.8	12212.4	12415.3	12539.9	12806.2	13246.6	13956.7	12824.6
67.5°	9600.0	9739.5	10230.6	11408.9	10555.7	10316.0	10284.8	10019.7	11163.3	13082.9	11651.0
70°	7930.6	7992.9	8598.2	9353.3	7966.4	7597.5	7745.0	7645.9	8653.5	11262.5	9377.5
72.5°	5997.3	6137.9	6729.3	7455.7	5420.8	4942.4	5349.4	5312.5	6499.9	9051.2	6442.3
75°	4266.8	4357.9	5111.9	5834.7	3796.4	3216.5	3362.9	3500.1	4537.7	7146.7	3806.8
77.5°	2931.8	3010.2	3576.2	3858.7	2769.2	2652.8	2426.8	2559.4	2973.3	4240.3	2071.7
80°	1768.5	1765.1	2137.4	2206.6	1928.8	2240.0	1879.2	2109.8	1797.3	1814.6	802.4
82.5°	1148.3	1136.7	1307.4	1425.0	1073.3	1128.7	757.4	1091.8	1171.3	506.1	253.6
85°	514.2	536.1	628.3	828.9	470.4	250.2	154.5	335.5	499.2	254.8	0.0
87.5°	53.0	41.5	110.7	201.8	64.6	6.9	23.1	11.5	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°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	5487.7	5420.8	5221.4	5034.6	4874.4	4678.4	4551.6	4352.1	4231.1	4194.2	4199.9
5°	5267.5	5075.0	4695.7	4392.5	4054.7	3862.1	3569.3	3288.0	3135.8	3079.3	3054.0
7.5°	4806.3	4600.0	4142.3	3666.2	3304.1	2966.4	2748.5	2500.6	2331.1	2191.6	2167.4
10°	4463.9	4193.0	3625.8	3113.9	2828.0	2574.4	2356.5	2108.6	1909.2	1750.1	1706.3
12.5°	4258.7	3955.5	3322.6	2893.7	2622.8	2362.2	2078.6	1791.6	1587.5	1415.7	1336.2
15°	4221.8	3870.2	3237.3	2735.8	2401.4	2086.7	1709.7	1399.6	1189.8	1027.2	977.6
17.5°	4444.3	4023.5	3224.6	2570.9	2112.1	1665.9	1273.9	1016.8	780.5	689.4	653.7
20°	4840.9	4294.5	3223.4	2379.5	1814.6	1283.2	894.6	662.9	567.2	523.4	502.7
22.5°	5381.6	4663.4	3284.5	2214.7	1505.7	946.5	638.7	528.0	472.7	436.9	428.9
25°	6042.2	5209.9	3434.4	2102.8	1269.3	742.5	526.9	451.9	405.8	389.7	382.8
27.5°	6629.0	5733.3	3599.3	1987.6	1099.8	657.1	488.8	413.9	377.0	364.3	353.9
30°	7135.2	6208.2	3678.8	1835.4	963.8	601.8	495.7	442.7	394.3	356.2	338.9
32.5°	7557.1	6572.6	3730.7	1697.0	848.5	492.3	392.0	342.4	320.5	306.7	295.1
35°	8085.1	6966.8	3699.6	1618.6	789.7	448.5	357.4	295.1	258.2	230.6	219.0
37.5°	8638.5	7361.1	3645.4	1554.1	763.2	416.2	340.1	280.1	239.8	211.0	196.0
40°	9211.5	7726.6	3582.0	1494.1	739.0	395.4	329.7	267.5	227.1	196.0	179.8
42.5°	9736.1	8082.8	3556.6	1454.9	699.8	398.9	321.7	261.7	214.4	182.2	168.3
45°	10160.3	8420.6	3591.2	1434.2	657.1	393.1	324.0	254.8	204.1	172.9	159.1
47.5°	10613.4	8897.9	3703.0	1413.4	615.6	365.5	341.3	253.6	199.4	167.2	152.2
50°	11140.3	9508.9	3959.0	1362.7	564.9	335.5	363.2	252.5	193.7	160.3	145.3
52.5°	11842.4	10203.0	4223.0	1273.9	491.1	306.7	347.0	249.0	182.2	152.2	137.2
55°	12473.0	10933.9	4446.6	1169.0	397.7	265.2	312.4	234.0	162.6	138.3	124.5
57.5°	12733.5	11346.6	4439.7	1023.8	318.2	232.9	257.1	214.4	141.8	122.2	110.7
59°	12637.8	11294.7	4291.0	916.5	290.5	215.6	213.3	212.1	132.6	110.7	101.5
60°	12503.0	11105.7	4130.8	863.5	273.2	204.1	196.0	209.8	124.5	103.8	94.5
62.5°	11986.5	10321.7	3599.3	773.6	250.2	172.9	156.8	177.5	110.7	89.9	81.9
65°	11238.3	9117.0	3047.1	748.2	243.3	143.0	130.3	126.8	94.5	76.1	69.2
67.5°	9778.7	7715.1	2468.3	730.9	245.6	119.9	114.1	95.7	78.4	63.4	58.8
70°	7829.2	6015.7	2021.0	711.3	247.9	98.0	95.7	76.1	63.4	53.0	48.4
72.5°	4756.8	3565.9	1591.0	617.9	241.0	78.4	85.3	57.6	46.1	38.0	35.7
75°	2941.0	2440.6	986.9	480.8	159.1	57.6	59.9	35.7	31.1	24.2	24.2
77.5°	1704.0	1541.4	352.8	172.9	70.3	34.6	26.5	18.4	17.3	10.4	10.4
80°	706.7	566.1	122.2	58.8	38.0	16.1	5.8	1.2	0.0	0.0	0.0
82.5°	206.4	183.3	33.4	26.5	11.5	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	4101.9	4063.9	4046.6	4105.4	4051.2	4120.4	4067.4	4090.4	4158.4	4188.4	4265.6
5°	3070.1	3030.9	3012.5	3101.2	3096.6	3140.4	3135.8	3176.2	3210.8	3133.5	3213.1
7.5°	2138.6	2112.1	2155.9	2225.1	2298.8	2274.6	2274.6	2220.4	2238.9	2227.4	2223.9
10°	1626.7	1535.6	1512.6	1510.3	1537.9	1543.7	1512.6	1437.6	1465.3	1473.4	1521.8
12.5°	1279.7	1209.4	1102.2	1053.7	1041.0	1051.4	948.8	883.1	914.2	895.8	943.1
15°	917.7	860.0	796.6	742.5	727.5	706.7	594.9	516.5	507.3	510.7	518.8
17.5°	654.8	615.6	615.6	558.0	526.9	464.6	408.1	373.5	370.1	373.5	379.3
20°	483.1	462.3	460.0	445.0	410.4	368.9	329.7	322.8	320.5	326.3	328.6
22.5°	416.2	394.3	375.8	374.7	342.4	307.8	289.4	280.1	281.3	283.6	289.4
25°	372.4	349.3	329.7	318.2	295.1	270.9	253.6	249.0	249.0	252.5	253.6
27.5°	341.3	312.4	295.1	279.0	258.2	237.5	222.5	219.0	216.7	219.0	224.8
30°	319.3	290.5	268.6	244.4	228.3	208.7	196.0	191.4	190.2	191.4	196.0
32.5°	273.2	255.9	238.6	216.7	197.1	184.5	170.6	162.6	162.6	164.9	169.5
35°	206.4	197.1	196.0	190.2	174.1	160.3	144.1	136.0	136.0	140.7	143.0
37.5°	182.2	164.9	162.6	160.3	153.3	134.9	119.9	113.0	111.8	115.3	119.9
40°	166.0	146.4	136.0	133.7	134.9	114.1	98.0	91.1	91.1	92.2	96.8
42.5°	153.3	130.3	111.8	109.5	114.1	95.7	79.5	72.6	72.6	72.6	78.4
45°	143.0	116.4	94.5	83.0	89.9	78.4	64.6	57.6	55.3	57.6	59.9
47.5°	136.0	106.1	83.0	66.9	66.9	62.3	51.9	43.8	41.5	42.7	46.1
50°	130.3	96.8	70.3	54.2	48.4	49.6	39.2	33.4	31.1	31.1	34.6
52.5°	121.1	87.6	61.1	46.1	36.9	33.4	28.8	24.2	23.1	24.2	26.5
55°	109.5	79.5	53.0	38.0	28.8	23.1	20.8	17.3	16.1	17.3	20.8
57.5°	96.8	66.9	42.7	30.0	19.6	15.0	13.8	11.5	9.2	10.4	12.7
59°	88.8	59.9	36.9	24.2	15.0	10.4	10.4	8.1	5.8	6.9	10.4
60°	85.3	55.3	31.1	20.8	12.7	8.1	8.1	5.8	3.5	4.6	8.1
62.5°	72.6	46.1	24.2	12.7	5.8	1.2	3.5	1.2	0.0	1.2	3.5
65°	61.1	36.9	16.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	50.7	27.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	40.4	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	4270.3	4435.1	4536.6	4728.0	4923.9	5075.0	5264.0	5433.5	5503.8	5540.7
5°	3293.8	3523.2	3718.0	4009.7	4280.6	4610.4	4944.7	5339.0	5490.0	5529.2
7.5°	2311.5	2545.6	2749.6	3087.4	3473.6	3915.2	4415.5	4915.9	5136.1	5198.3
10°	1669.4	1919.5	2168.6	2506.4	2867.2	3345.7	3866.8	4485.8	4739.5	4787.9
12.5°	1053.7	1322.4	1727.0	2144.4	2526.0	2911.0	3456.3	4129.6	4409.8	4498.5
15°	611.0	811.6	1117.1	1661.3	2146.7	2656.2	3251.1	3995.9	4309.5	4400.5
17.5°	409.3	478.4	688.3	1104.5	1745.5	2421.0	3199.2	4105.4	4452.4	4568.9
20°	344.7	375.8	449.6	673.3	1344.3	2211.2	3213.1	4402.8	4858.2	5003.5
22.5°	303.2	332.0	379.3	484.2	938.4	1950.7	3278.8	4828.3	5416.2	5601.8
25°	267.5	296.3	337.8	401.2	630.6	1649.8	3422.9	5450.8	6155.2	6359.3
27.5°	237.5	264.0	299.7	353.9	485.4	1314.3	3550.9	6057.2	6829.6	6995.7
30°	209.8	231.7	266.3	307.8	403.5	1013.4	3615.4	6587.5	7320.8	7505.2
32.5°	182.2	202.9	236.3	269.8	332.0	772.4	3570.5	6977.2	7798.1	7915.7
35°	155.6	177.5	205.2	236.3	287.1	623.7	3345.7	7415.3	8292.6	8384.9
37.5°	133.7	152.2	181.0	205.2	259.4	499.2	3073.6	7809.6	8847.2	8979.8
40°	113.0	131.4	160.3	182.2	238.6	393.1	2828.0	8247.7	9431.7	9595.4
42.5°	92.2	114.1	139.5	175.2	205.2	299.7	2530.6	8602.8	9870.9	10076.2
45°	73.8	98.0	125.7	174.1	178.7	228.3	2243.5	8879.5	10259.5	10443.9
47.5°	58.8	83.0	121.1	162.6	146.4	181.0	2079.8	9168.8	10582.3	10729.8
50°	47.3	69.2	126.8	143.0	122.2	153.3	2075.2	9491.6	10749.4	10847.4
52.5°	38.0	56.5	107.2	109.5	103.8	134.9	2199.7	9854.8	10920.1	11000.8
55°	32.3	47.3	70.3	80.7	93.4	122.2	2293.1	10413.9	11327.0	11403.1
57.5°	25.4	40.4	54.2	64.6	83.0	111.8	2305.8	10845.1	11842.4	11891.9
59°	21.9	34.6	48.4	57.6	76.1	104.9	2253.9	10871.6	11875.8	11955.3
60°	18.4	31.1	42.7	54.2	70.3	99.1	2197.4	10679.1	11751.3	11840.1
62.5°	13.8	24.2	31.1	43.8	57.6	85.3	1929.9	10007.0	11275.1	11337.4
65°	9.2	17.3	23.1	32.3	45.0	73.8	1572.5	9135.4	10539.6	10679.1
67.5°	5.8	12.7	18.4	24.2	36.9	62.3	1120.6	7833.8	9510.1	9600.0
70°	3.5	8.1	13.8	19.6	28.8	49.6	665.2	6192.1	7912.2	7930.6
72.5°	2.3	5.8	9.2	13.8	23.1	45.0	322.8	4036.2	5777.1	5997.3
75°	1.2	3.5	5.8	10.4	18.4	36.9	154.5	2696.6	4203.4	4266.8
77.5°	0.0	1.2	3.5	6.9	13.8	28.8	89.9	1770.8	2866.1	2931.8
80°	0.0	0.0	2.3	5.8	10.4	18.4	54.2	1044.5	1736.2	1768.5
82.5°	0.0	0.0	1.2	4.6	6.9	13.8	27.7	458.8	1136.7	1148.3
85°	0.0	0.0	1.2	4.6	5.8	9.2	10.4	62.3	505.0	514.2
87.5°	0.0	0.0	1.2	5.8	5.8	5.8	5.8	3.5	42.7	53.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)