

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: P648436

Luminaire Tested: **GALN-SA5B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648436
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-SA5B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 16023.3 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

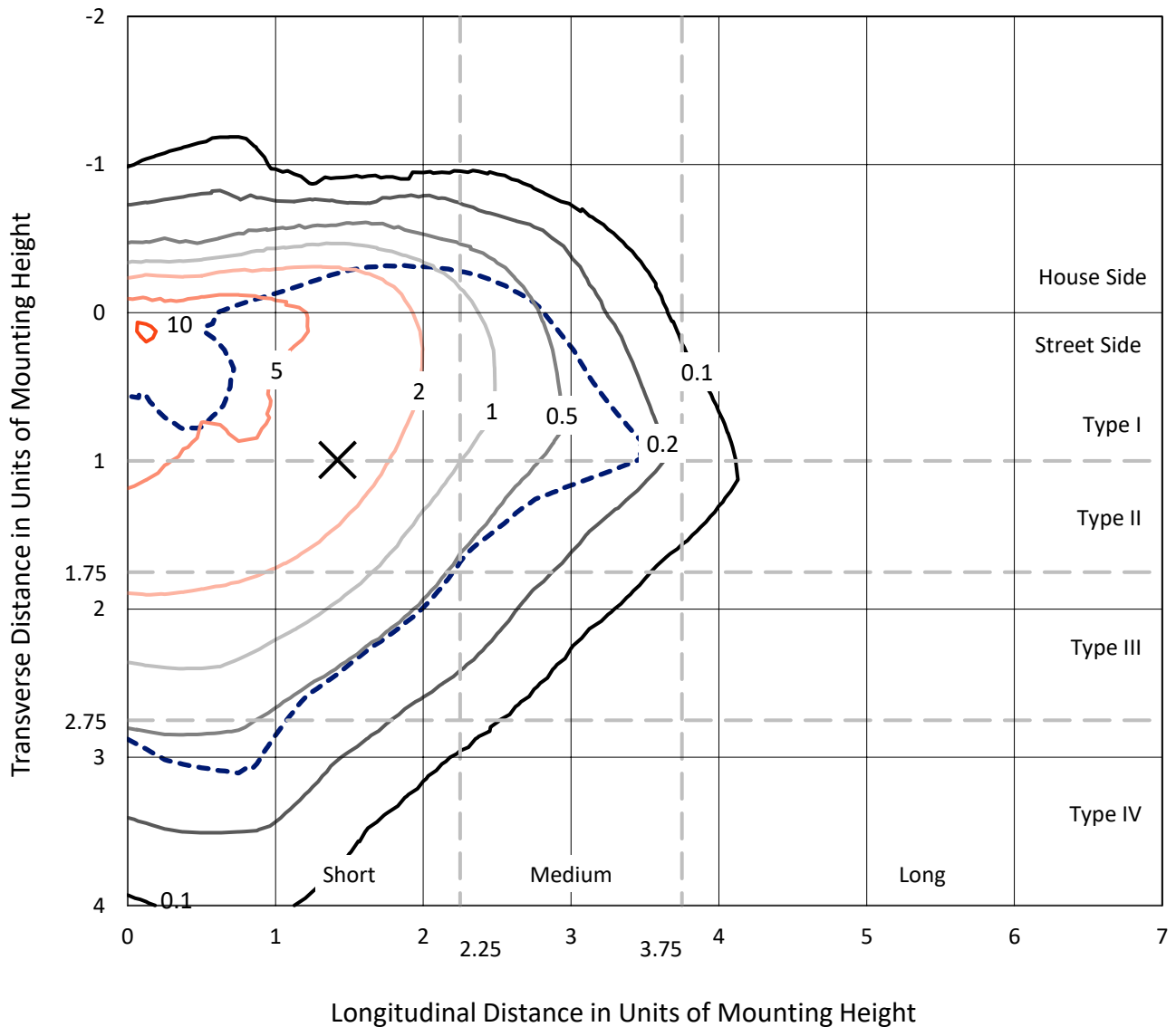
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

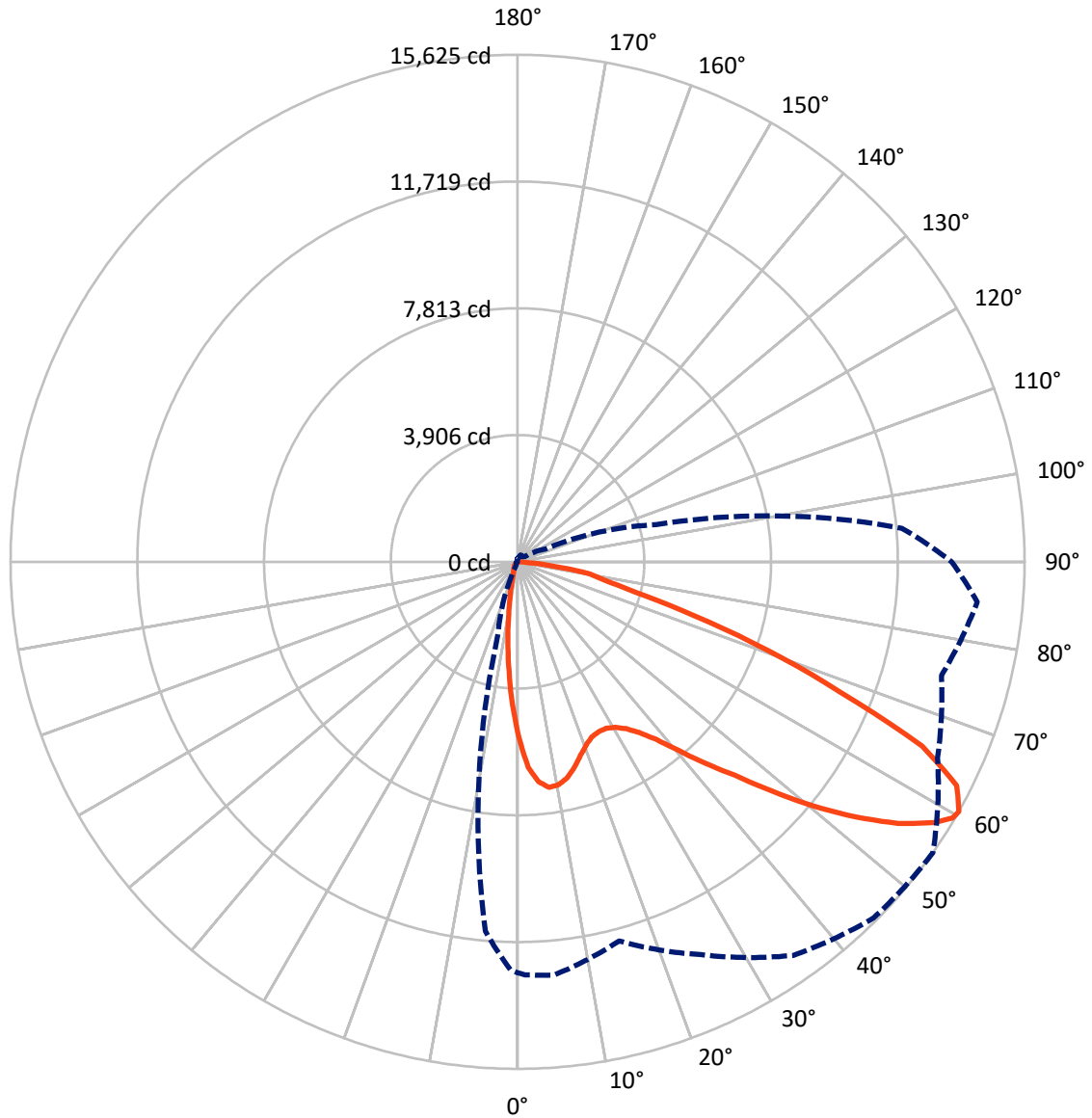
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2378.0	0.0	2378.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13645.3	0.0	13645.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	16023.3	0.0	16023.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	2.5
10°-20°	791.2	4.9
20°-30°	1171.1	7.3
30°-40°	1745.6	10.9
40°-50°	2556.4	16.0
50°-60°	3690.7	23.0
60°-70°	3882.4	24.2
70°-80°	1597.1	10.0
80°-90°	187.1	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°	16023.3	100.0
0°-180°	16023.3	100.0

Coefficient of Utilization



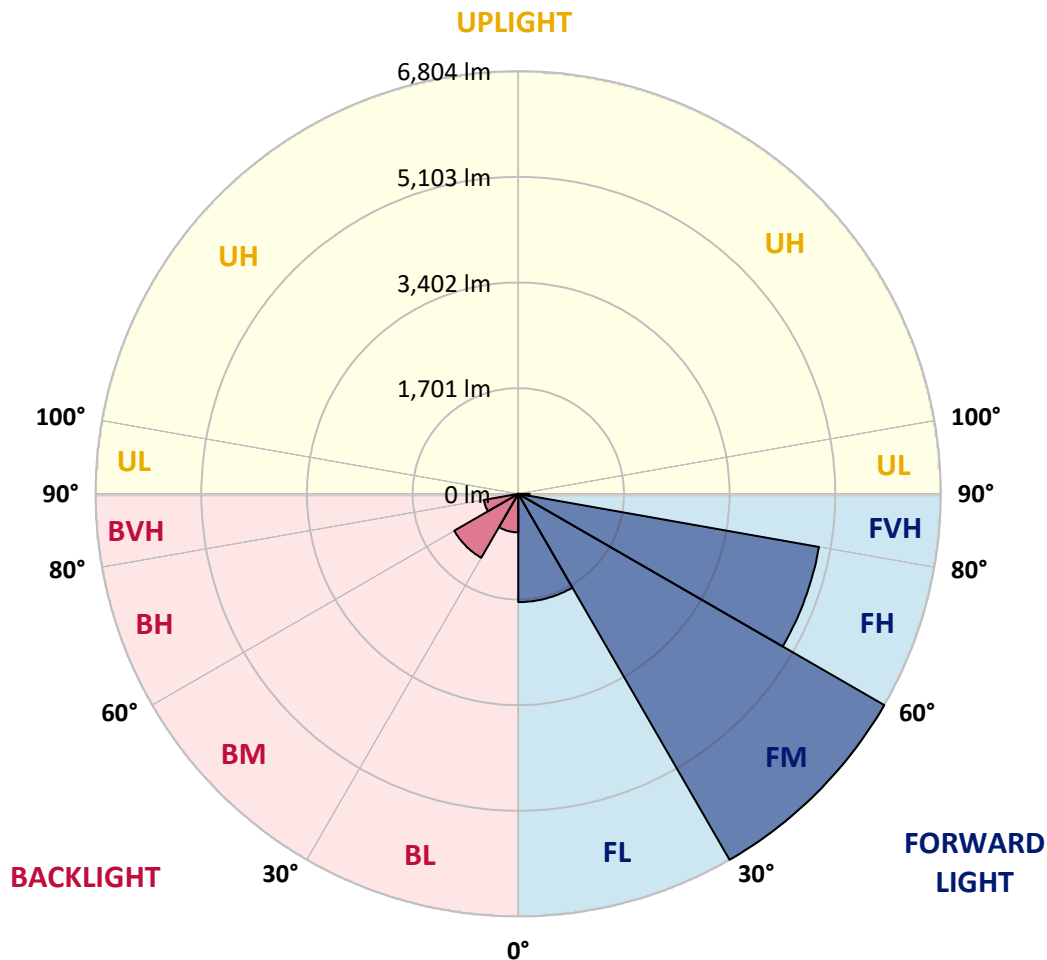
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.6	10.9			
FM (30°-60°)	6803.5	42.5			
FH (60°-80°)	4916.7	30.7			G2/5000
FVH (80°-90°)	181.6	1.1			G2/225
BL (0°-30°)	620.4	3.9	B2/1000		
BM (30°-60°)	1189.2	7.4	B2/2500		
BH (60°-80°)	562.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.5	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°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	5927.4	5917.5	6005.1	6148.2	6292.5	6367.7	6352.9	6346.8	6227.1	6139.6	5955.8
5°	5915.1	5965.7	6122.3	6509.5	6803.1	6944.9	6986.9	6810.5	6577.4	6239.4	5822.5
7.5°	5561.1	5624.1	5879.3	6484.9	7006.6	7314.9	7303.8	7021.4	6540.4	6017.4	5423.0
10°	5122.1	5196.1	5495.7	6230.8	6907.9	7314.9	7337.1	6979.4	6381.3	5710.3	5085.0
12.5°	4812.5	4900.0	5231.8	5994.0	6653.9	7054.7	7080.6	6821.6	6261.7	5592.0	4901.3
15°	4707.6	4790.3	5127.0	5874.4	6383.7	6599.6	6593.4	6566.3	6214.7	5620.3	4911.1
17.5°	4887.7	4955.5	5335.4	5928.6	6130.9	6108.7	6140.8	6271.5	6224.6	5858.3	5222.0
20°	5352.7	5421.7	5830.0	6095.2	5937.3	5796.7	5811.5	6029.8	6315.9	6306.0	5707.9
22.5°	5992.8	6110.0	6480.0	6418.3	5911.4	5603.1	5572.2	5855.9	6471.3	6821.6	6364.0
25°	6803.1	6921.5	7210.1	6933.9	6038.4	5557.4	5529.1	5802.8	6660.0	7324.8	7102.7
27.5°	7483.9	7574.0	7861.3	7435.8	6225.9	5577.2	5530.3	5810.3	6813.0	7752.7	7725.6
30°	8029.0	8095.6	8264.6	7670.1	6387.5	5663.5	5609.3	5918.8	6880.8	7961.2	8230.0
32.5°	8468.1	8580.3	8633.4	7920.5	6619.3	5826.3	5733.8	6127.2	7046.1	8219.0	8759.2
35°	8970.0	9099.6	9031.7	8159.7	6925.2	6080.4	5966.9	6465.2	7296.4	8457.0	9373.4
37.5°	9606.5	9755.7	9490.5	8411.4	7248.3	6462.6	6409.6	6940.0	7676.3	8797.4	10032.0
40°	10265.1	10351.4	9935.8	8717.2	7645.4	7018.9	7069.5	7645.4	8173.3	9205.7	10732.5
42.5°	10779.3	10860.8	10393.3	8973.7	8051.2	7678.7	7889.7	8496.5	8743.1	9623.7	11255.5
45°	11172.8	11241.8	10710.3	9253.7	8598.8	8634.6	9032.9	9373.4	9314.2	9879.0	11658.7
47.5°	11478.7	11537.9	10954.5	9554.6	9419.0	9803.8	10413.0	10557.3	9906.1	10155.3	12023.8
50°	11604.5	11621.8	11031.0	9938.2	10350.2	11293.7	11928.8	11841.2	10584.5	10462.4	12412.3
52.5°	11768.5	11764.8	11249.3	10303.3	11225.9	12625.6	13259.6	13061.1	11351.6	10922.5	12848.9
55°	12198.9	12203.8	11716.7	10821.3	11972.0	13701.2	14379.5	14235.2	12160.7	11699.4	13358.3
57.5°	12721.9	12740.3	12381.5	11426.9	12684.8	14480.6	15215.6	15160.2	13254.7	12564.0	13839.3
59°	12789.7	12826.7	12696.0	11853.6	13107.9	14719.9	15501.8	15556.1	13840.5	13133.8	14099.5
60°	12666.4	12728.1	12787.3	12095.3	13355.8	14806.2	15519.1	15625.2	14280.8	13521.1	14217.9
62.5°	12128.7	12226.1	12523.3	12839.0	13665.4	14537.3	14967.7	15189.8	14825.9	14538.6	14229.0
65°	11424.4	11474.9	11904.2	12971.0	13064.7	13281.8	13415.0	13699.9	14171.0	14930.8	13719.6
67.5°	10270.0	10419.2	10944.6	12205.1	11292.4	11035.9	11002.6	10719.0	11942.4	13995.9	12464.1
70°	8484.1	8550.8	9198.2	10006.0	8522.3	8127.7	8285.5	8179.5	9257.4	12048.5	10032.0
72.5°	6415.8	6566.3	7199.0	7976.0	5799.1	5287.3	5722.7	5683.2	6953.6	9682.9	6891.9
75°	4564.6	4662.0	5468.6	6241.9	4061.3	3441.0	3597.7	3744.4	4854.4	7645.4	4072.5
77.5°	3136.4	3220.2	3825.8	4128.0	2962.5	2837.9	2596.2	2738.0	3180.8	4536.2	2216.3
80°	1892.0	1888.2	2286.6	2360.6	2063.4	2396.4	2010.4	2257.0	1922.7	1941.3	858.4
82.5°	1228.4	1216.1	1398.6	1524.4	1148.3	1207.5	810.3	1168.0	1253.0	541.4	271.3
85°	550.1	573.5	672.2	886.7	503.2	267.6	165.3	358.9	534.0	272.6	0.0
87.5°	56.8	44.4	118.4	215.9	69.1	7.4	24.7	12.4	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°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	5870.7	5799.1	5585.8	5385.9	5214.5	5004.9	4869.2	4655.9	4526.4	4486.9	4493.0
5°	5635.1	5429.2	5023.4	4699.0	4337.7	4131.7	3818.4	3517.5	3354.7	3294.2	3267.1
7.5°	5141.8	4921.0	4431.4	3922.0	3534.8	3173.3	2940.2	2675.1	2493.8	2344.5	2318.7
10°	4775.5	4485.7	3878.8	3331.3	3025.4	2754.0	2520.9	2255.7	2042.4	1872.2	1825.3
12.5°	4556.0	4231.6	3554.5	3095.7	2805.9	2527.1	2223.7	1916.6	1698.3	1514.6	1429.4
15°	4516.5	4140.3	3463.2	2926.7	2569.0	2232.3	1829.0	1497.3	1272.8	1098.9	1045.9
17.5°	4754.5	4304.3	3449.7	2750.4	2259.5	1782.2	1362.8	1087.8	835.0	737.5	699.3
20°	5178.8	4594.2	3448.4	2545.6	1941.3	1372.7	957.1	709.2	606.8	559.9	537.8
22.5°	5757.2	4988.9	3513.8	2369.2	1610.7	1012.6	683.2	564.9	505.7	467.5	458.8
25°	6463.9	5573.5	3674.1	2249.6	1357.9	794.3	563.6	483.5	434.2	416.9	409.4
27.5°	7091.7	6133.4	3850.5	2126.2	1176.6	703.0	523.0	442.8	403.3	389.7	378.7
30°	7633.2	6641.5	3935.6	1963.5	1031.1	643.8	530.3	473.6	421.8	381.1	362.6
32.5°	8084.6	7031.3	3991.1	1815.5	907.7	526.6	419.3	366.3	342.9	328.1	315.7
35°	8649.4	7453.1	3957.8	1731.6	844.9	479.7	382.3	315.7	276.2	246.6	234.4
37.5°	9241.4	7874.9	3899.8	1662.5	816.4	445.2	363.9	299.7	256.5	225.7	209.7
40°	9854.4	8265.8	3832.0	1598.4	790.6	423.1	352.7	286.1	243.0	209.7	192.4
42.5°	10415.5	8646.9	3804.8	1556.4	748.6	426.7	344.1	280.0	229.4	194.9	180.1
45°	10869.4	9008.3	3841.9	1534.3	703.0	420.5	346.6	272.6	218.3	185.0	170.2
47.5°	11354.1	9518.9	3961.5	1512.1	658.6	391.0	365.0	271.3	213.4	178.8	162.8
50°	11917.7	10172.6	4235.2	1457.8	604.3	358.9	388.5	270.1	207.2	171.4	155.4
52.5°	12668.9	10915.0	4517.7	1362.8	525.4	328.1	371.2	266.4	194.9	162.8	146.7
55°	13343.5	11697.0	4757.0	1250.6	425.5	283.7	334.3	250.4	173.9	148.0	133.2
57.5°	13622.2	12138.5	4749.6	1095.2	340.4	249.2	275.1	229.4	151.7	130.8	118.4
59°	13519.8	12083.0	4590.5	980.5	310.8	230.7	228.2	226.9	141.8	118.4	108.5
60°	13375.5	11880.8	4419.0	923.8	292.3	218.3	209.7	224.5	133.2	111.0	101.2
62.5°	12823.0	11042.1	3850.5	827.6	267.6	185.0	167.7	190.0	118.4	96.2	87.5
65°	12022.6	9753.2	3259.7	800.5	260.3	152.9	139.4	135.7	101.2	81.4	74.0
67.5°	10461.2	8253.5	2640.6	781.9	262.7	128.3	122.1	102.3	83.9	67.8	62.9
70°	8375.6	6435.6	2162.0	761.0	265.2	104.8	102.3	81.4	67.8	56.8	51.8
72.5°	5088.7	3814.7	1702.0	661.1	257.8	83.9	91.3	61.7	49.3	40.7	38.2
75°	3146.3	2611.0	1055.7	514.3	170.2	61.7	64.1	38.2	33.3	25.9	25.9
77.5°	1822.9	1649.0	377.4	185.0	75.2	37.0	28.3	19.7	18.5	11.1	11.1
80°	756.1	605.6	130.8	62.9	40.7	17.3	6.2	1.3	0.0	0.0	0.0
82.5°	220.8	196.1	35.8	28.3	12.4	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°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	4388.2	4347.5	4329.1	4391.9	4334.0	4408.0	4351.2	4375.9	4448.6	4480.7	4563.3
5°	3284.4	3242.5	3222.7	3317.6	3312.7	3359.6	3354.7	3397.8	3434.9	3352.2	3437.3
7.5°	2287.8	2259.5	2306.3	2380.3	2459.2	2433.4	2433.4	2375.4	2395.1	2382.8	2379.1
10°	1740.2	1642.8	1618.1	1615.6	1645.2	1651.4	1618.1	1538.0	1567.6	1576.2	1628.0
12.5°	1369.0	1293.8	1179.0	1127.3	1113.7	1124.8	1015.0	944.8	978.0	958.3	1008.9
15°	981.7	920.1	852.2	794.3	778.2	756.1	636.4	552.6	542.7	546.4	555.0
17.5°	700.6	658.6	658.6	597.0	563.6	497.0	436.6	399.6	395.9	399.6	405.8
20°	516.8	494.5	492.1	476.1	439.1	394.6	352.7	345.3	342.9	349.1	351.5
22.5°	445.2	421.8	402.1	400.8	366.3	329.3	309.6	299.7	300.9	303.4	309.6
25°	398.4	373.7	352.7	340.4	315.7	289.9	271.3	266.4	266.4	270.1	271.3
27.5°	365.0	334.3	315.7	298.5	276.2	254.1	238.0	234.4	231.8	234.4	240.5
30°	341.6	310.8	287.4	261.4	244.2	223.2	209.7	204.8	203.5	204.8	209.7
32.5°	292.3	273.8	255.3	231.8	210.9	197.3	182.5	173.9	173.9	176.3	181.3
35°	220.8	210.9	209.7	203.5	186.2	171.4	154.2	145.6	145.6	150.5	152.9
37.5°	194.9	176.3	173.9	171.4	164.0	144.3	128.3	120.9	119.6	123.3	128.3
40°	177.6	156.6	145.6	143.1	144.3	122.1	104.8	97.4	97.4	98.7	103.6
42.5°	164.0	139.4	119.6	117.1	122.1	102.3	85.1	77.7	77.7	77.7	83.9
45°	152.9	124.6	101.2	88.8	96.2	83.9	69.1	61.7	59.2	61.7	64.1
47.5°	145.6	113.5	88.8	71.6	71.6	66.6	55.5	46.9	44.4	45.6	49.3
50°	139.4	103.6	75.2	57.9	51.8	53.0	42.0	35.8	33.3	33.3	37.0
52.5°	129.5	93.7	65.4	49.3	39.5	35.8	30.9	25.9	24.7	25.9	28.3
55°	117.1	85.1	56.8	40.7	30.9	24.7	22.2	18.5	17.3	18.5	22.2
57.5°	103.6	71.6	45.6	32.1	21.0	16.1	14.8	12.4	9.9	11.1	13.5
59°	95.0	64.1	39.5	25.9	16.1	11.1	11.1	8.6	6.2	7.4	11.1
60°	91.3	59.2	33.3	22.2	13.5	8.6	8.6	6.2	3.7	4.9	8.6
62.5°	77.7	49.3	25.9	13.5	6.2	1.3	3.7	1.3	0.0	1.3	3.7
65°	65.4	39.5	17.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	54.3	29.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	43.1	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	29.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.4	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°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	4568.3	4744.7	4853.2	5057.9	5267.6	5429.2	5631.4	5812.7	5887.9	5927.4
5°	3523.7	3769.0	3977.5	4289.5	4579.4	4932.1	5289.8	5711.6	5873.1	5915.1
7.5°	2472.9	2723.2	2941.5	3302.9	3716.0	4188.4	4723.7	5258.9	5494.5	5561.1
10°	1785.9	2053.5	2319.9	2681.3	3067.3	3579.2	4136.6	4798.9	5070.2	5122.1
12.5°	1127.3	1414.6	1847.6	2294.0	2702.2	3114.1	3697.6	4417.8	4717.5	4812.5
15°	653.6	868.3	1195.1	1777.3	2296.5	2841.6	3478.0	4274.7	4610.2	4707.6
17.5°	437.9	511.8	736.3	1181.5	1867.3	2590.0	3422.5	4391.9	4763.1	4887.7
20°	368.8	402.1	481.0	720.3	1438.1	2365.5	3437.3	4710.1	5197.3	5352.7
22.5°	324.4	355.2	405.8	518.0	1004.0	2086.8	3507.6	5165.2	5794.2	5992.8
25°	286.1	317.0	361.4	429.2	674.6	1764.9	3661.8	5831.2	6584.8	6803.1
27.5°	254.1	282.4	320.6	378.7	519.2	1406.0	3798.6	6480.0	7306.3	7483.9
30°	224.5	247.9	284.9	329.3	431.7	1084.1	3867.7	7047.3	7831.7	8029.0
32.5°	194.9	217.0	252.8	288.6	355.2	826.3	3819.6	7464.2	8342.3	8468.1
35°	166.5	190.0	219.6	252.8	307.1	667.3	3579.2	7932.8	8871.4	8970.0
37.5°	143.1	162.8	193.6	219.6	277.5	534.0	3288.1	8354.6	9464.6	9606.5
40°	120.9	140.6	171.4	194.9	255.3	420.5	3025.4	8823.3	10089.9	10265.1
42.5°	98.7	122.1	149.2	187.5	219.6	320.6	2707.1	9203.1	10559.9	10779.3
45°	78.9	104.8	134.4	186.2	191.1	244.2	2400.1	9499.2	10975.5	11172.8
47.5°	62.9	88.8	129.5	173.9	156.6	193.6	2225.0	9808.7	11320.8	11478.7
50°	50.6	74.0	135.7	152.9	130.8	164.0	2220.0	10154.1	11499.6	11604.5
52.5°	40.7	60.4	114.7	117.1	111.0	144.3	2353.2	10542.5	11682.2	11768.5
55°	34.5	50.6	75.2	86.4	99.9	130.8	2453.1	11140.8	12117.6	12198.9
57.5°	27.2	43.1	57.9	69.1	88.8	119.6	2466.7	11602.0	12668.9	12721.9
59°	23.4	37.0	51.8	61.7	81.4	112.2	2411.2	11630.4	12704.6	12789.7
60°	19.7	33.3	45.6	57.9	75.2	106.1	2350.7	11424.4	12571.4	12666.4
62.5°	14.8	25.9	33.3	46.9	61.7	91.3	2064.6	10705.3	12062.0	12128.7
65°	9.9	18.5	24.7	34.5	48.1	78.9	1682.3	9772.9	11275.2	11424.4
67.5°	6.2	13.5	19.7	25.9	39.5	66.6	1198.8	8380.5	10173.8	10270.0
70°	3.7	8.6	14.8	21.0	30.9	53.0	711.7	6624.3	8464.4	8484.1
72.5°	2.5	6.2	9.9	14.8	24.7	48.1	345.3	4317.9	6180.2	6415.8
75°	1.3	3.7	6.2	11.1	19.7	39.5	165.3	2884.8	4496.8	4564.6
77.5°	0.0	1.3	3.7	7.4	14.8	30.9	96.2	1894.4	3066.1	3136.4
80°	0.0	0.0	2.5	6.2	11.1	19.7	57.9	1117.4	1857.4	1892.0
82.5°	0.0	0.0	1.3	4.9	7.4	14.8	29.6	490.9	1216.1	1228.4
85°	0.0	0.0	1.3	4.9	6.2	9.9	11.1	66.6	540.2	550.1
87.5°	0.0	0.0	1.3	6.2	6.2	6.2	6.2	3.7	45.6	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)