

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: P955948

Luminaire Tested: **GALN-SB8D-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62799 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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



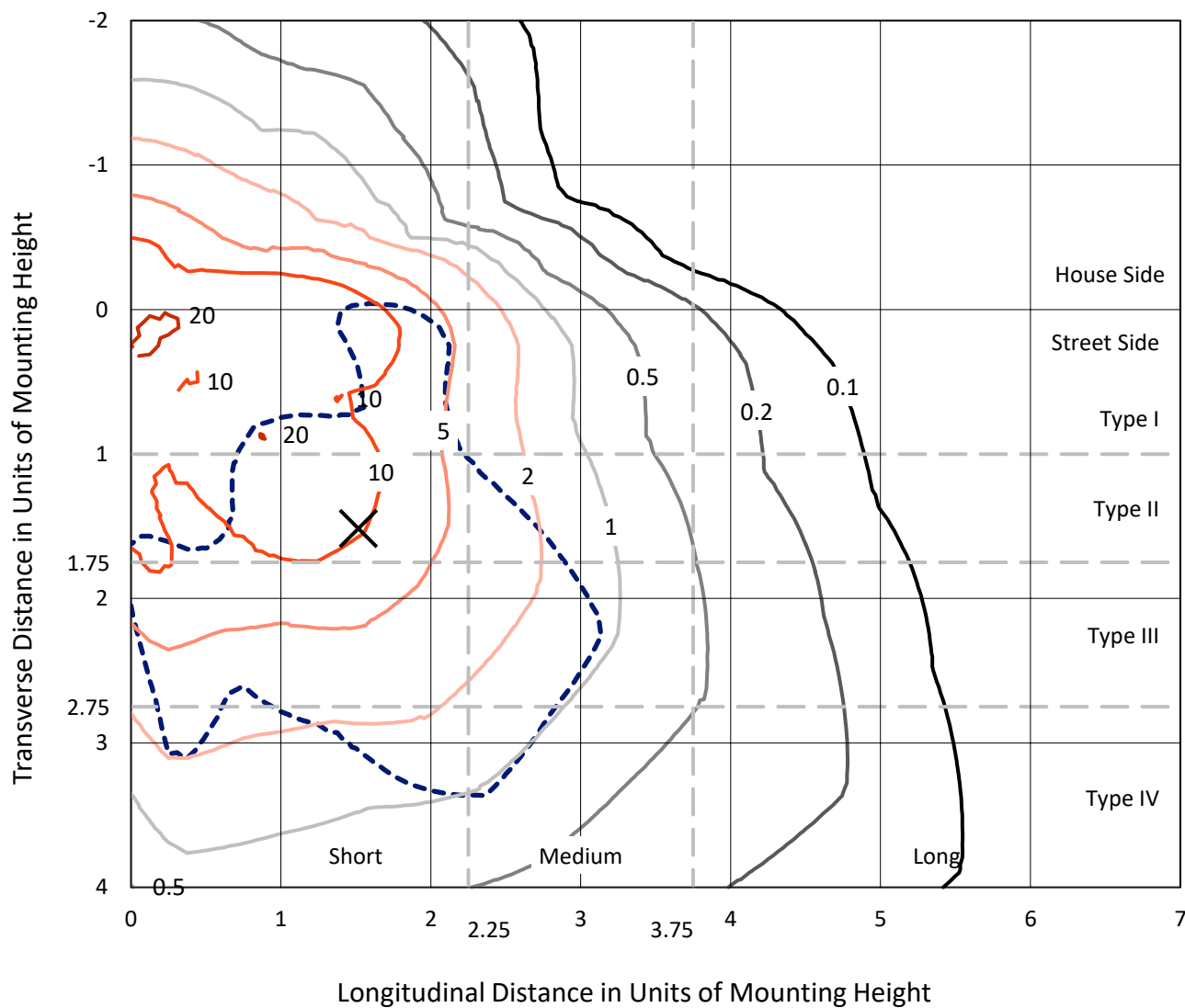
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

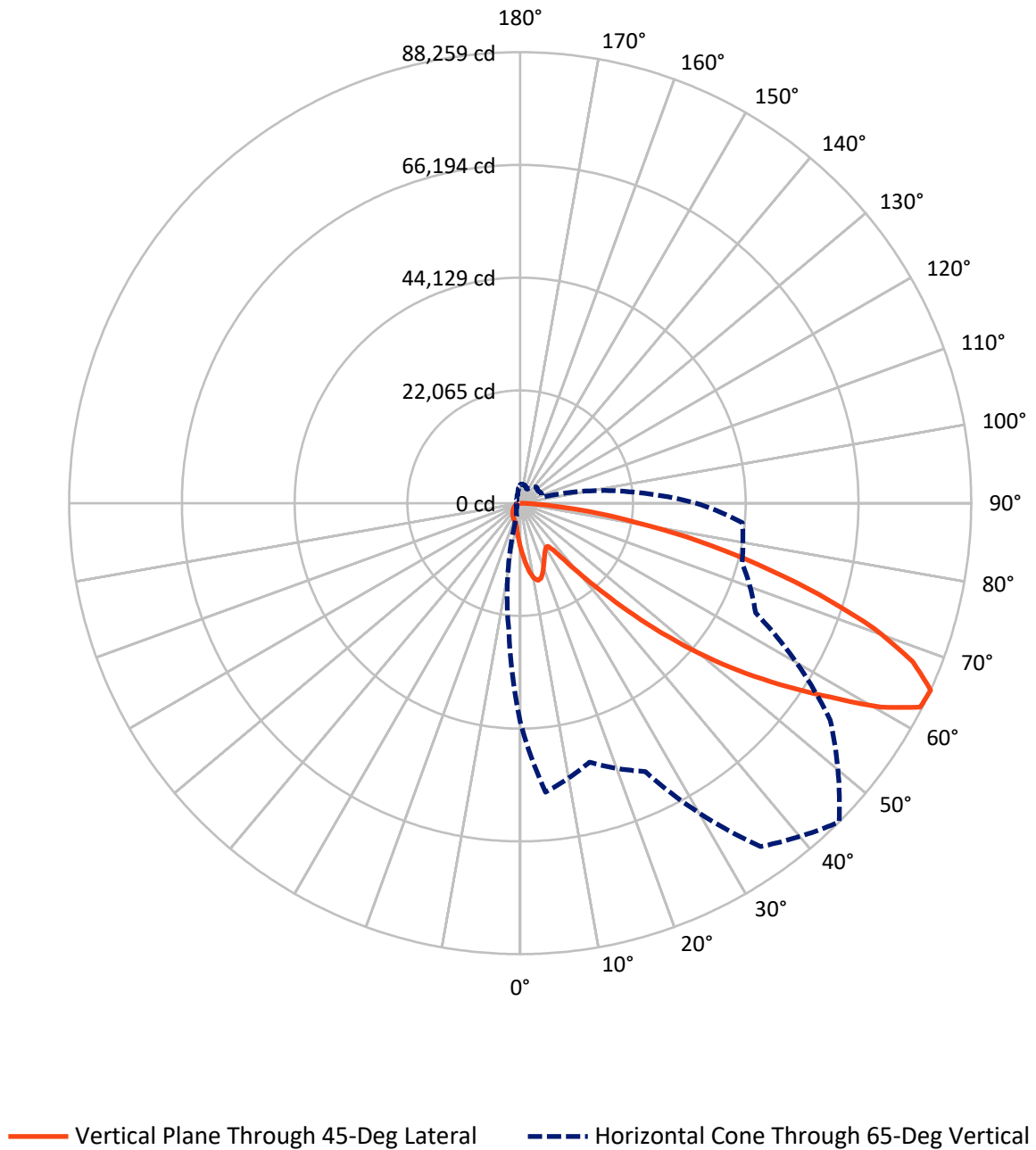
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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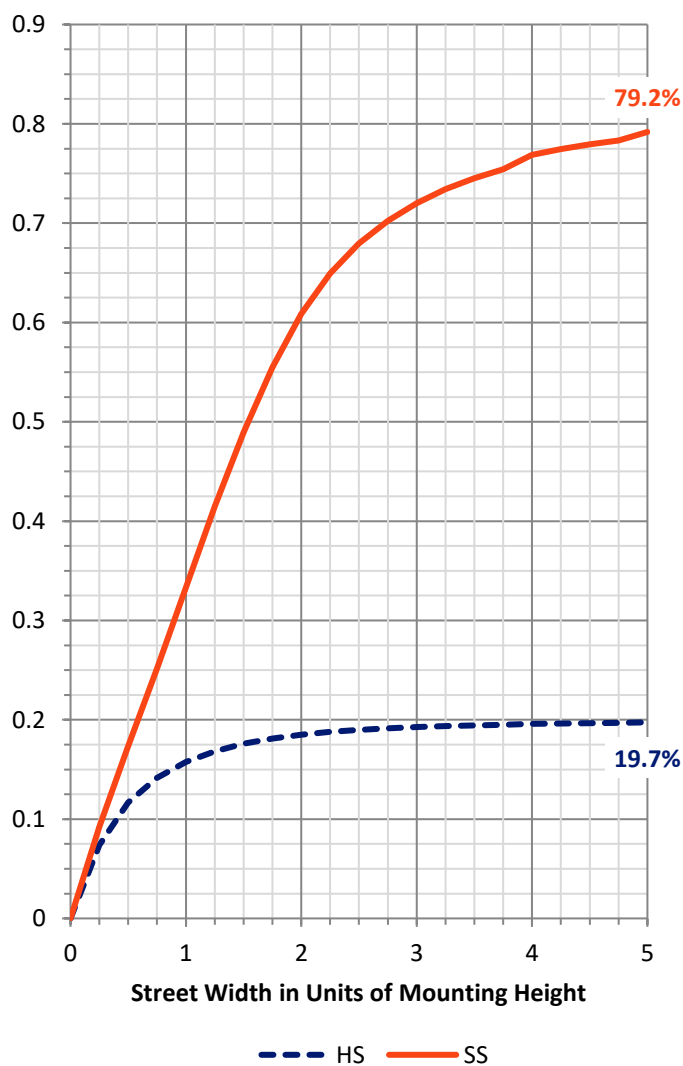
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12482.5	0.0	12482.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	50316.5	0.0	50316.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	62799.0	0.0	62799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.1	1.4
10°-20°	2566.4	4.1
20°-30°	3780.8	6.0
30°-40°	4857.3	7.7
40°-50°	7855.7	12.5
50°-60°	13775.7	21.9
60°-70°	17237.2	27.4
70°-80°	10072.6	16.0
80°-90°	1797.1	2.9
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°	62799.0	100.0
0°-180°	62799.0	100.0

Coefficient of Utilization



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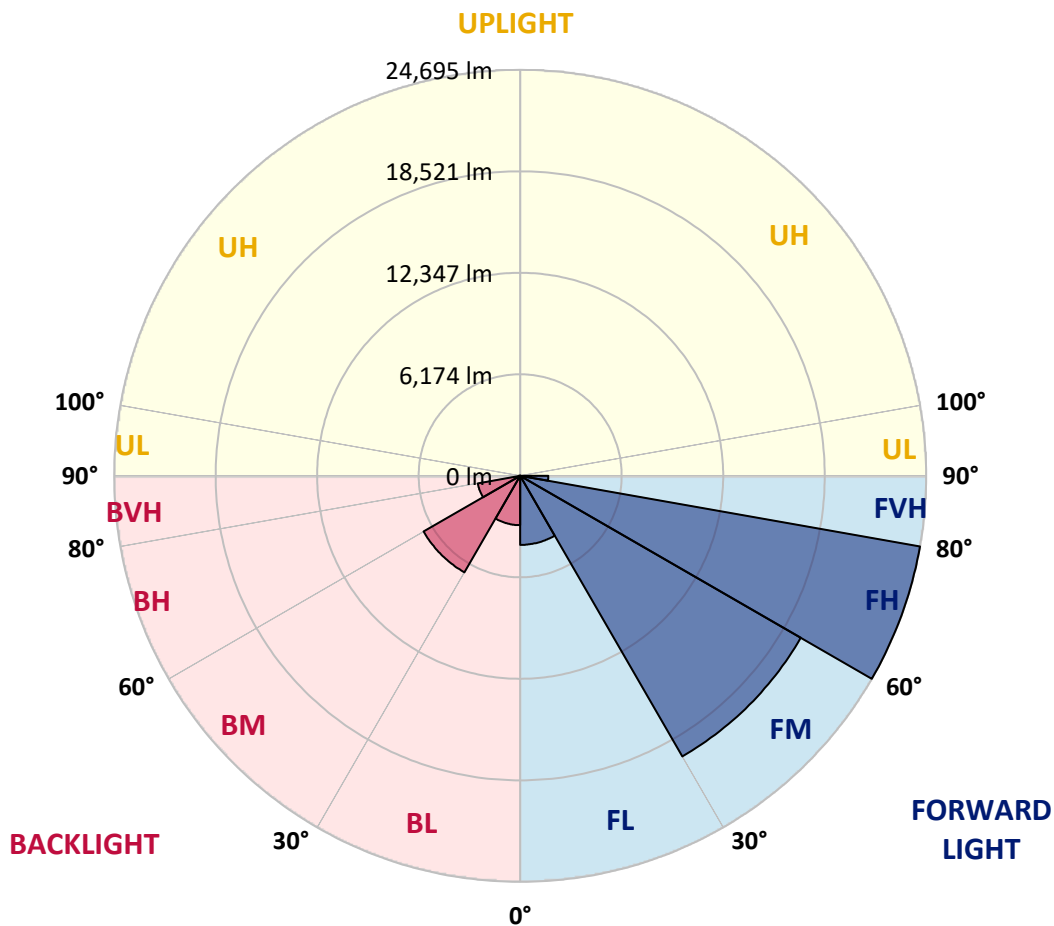
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4202.0	6.7			
FM	(30°-60°)	19707.1	31.4			
FH	(60°-80°)	24694.5	39.3			G5
FVH	(80°-90°)	1712.9	2.7			G5
BL	(0°-30°)	3001.3	4.8	B4/5000		
BM	(30°-60°)	6781.7	10.8	B4/8500		
BH	(60°-80°)	2615.3	4.2	B4/5000		G4/5000
BVH	(80°-90°)	84.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
2.5°	9742.6	9816.1	9980.5	10067.1	10201.2	10209.8	10209.8	10093.0	10088.7	9850.7	9824.8
5°	10889.0	11062.1	11451.4	11853.8	11940.3	11961.9	11918.7	11685.1	11512.0	11049.1	10949.6
7.5°	12026.8	12359.9	12952.6	13489.1	13662.1	13662.1	13558.3	13177.6	12822.8	12152.3	11901.4
10°	12969.9	13389.6	14194.2	14795.6	14994.6	14951.3	14739.3	14259.1	13770.3	12957.0	12628.2
12.5°	13592.9	14064.5	14947.0	15431.5	15634.9	15522.4	15280.1	14812.9	14298.1	13441.5	13069.4
15°	13904.4	14397.6	15163.3	15418.6	15362.3	15245.5	15215.2	14990.3	14600.9	13800.6	13393.9
17.5°	14038.5	14497.1	15029.2	14869.1	14393.3	14302.4	14605.2	14890.8	14795.6	14112.0	13731.3
20°	14164.0	14549.0	14709.1	13999.6	13168.9	13086.7	13666.5	14479.8	14895.1	14401.9	14051.5
22.5°	14337.0	14575.0	14246.2	13082.4	12186.9	11996.5	12636.8	13861.1	14925.4	14769.6	14419.2
25°	14575.0	14639.8	13735.7	12212.8	11313.0	11122.6	11719.7	13173.3	14873.5	15167.6	14869.1
27.5°	14860.5	14726.4	13246.8	11486.0	10616.5	10439.1	11036.1	12511.4	14726.4	15565.6	15353.7
30°	15232.5	14838.8	12762.3	10923.6	10119.0	9989.2	10564.6	11940.3	14544.7	16071.8	15955.0
32.5°	15608.9	14886.4	12312.4	10594.9	10006.5	10054.1	10525.6	11633.1	14345.7	16556.3	16612.6
35°	16015.6	15037.9	12091.7	10919.3	10945.3	11360.6	11555.3	11918.7	14315.4	17213.9	17434.6
37.5°	16569.3	15375.3	12355.6	12533.0	13432.8	14293.7	14133.7	13316.0	14665.8	18196.0	18607.0
40°	17365.3	15968.0	13506.4	15280.1	17127.4	18524.8	17914.8	15855.5	15738.7	19610.6	20225.0
42.5°	18524.8	16911.1	15548.3	18637.2	21769.4	24070.9	22435.6	19130.4	17616.3	21631.0	22414.0
45°	20237.9	18438.2	18018.6	22180.4	27493.0	31118.3	27717.9	22621.7	20246.6	24689.6	25303.9
47.5°	22613.0	20683.5	20333.1	25913.9	34449.5	39139.1	33575.6	25857.7	23240.3	28860.0	29002.8
50°	25766.8	23707.5	22526.5	29997.8	42076.6	47315.6	39428.9	28981.2	26671.0	33956.3	33791.9
52.5°	29928.6	27925.6	25083.3	33887.1	49920.0	55319.1	45308.2	31724.0	30928.0	39870.2	39532.8
55°	35604.6	34272.1	28578.8	37599.0	57759.0	63370.1	50958.3	34311.1	36552.0	46896.0	44854.0
57.5°	42647.6	43599.4	33618.9	41903.5	64806.4	71667.7	56634.2	37927.8	43854.6	54752.3	47942.9
60°	47190.1	56002.6	43270.6	48267.4	72814.2	81051.3	64412.7	44806.4	51529.3	57568.7	47354.5
62.5°	46091.3	59948.1	54830.2	56392.0	80177.4	87873.7	72035.5	51715.3	52974.3	53419.9	42820.7
65°	42721.2	56764.0	52472.4	57971.0	82042.0	88258.7	74073.1	50824.1	44936.2	43612.4	34419.2
67.5°	38083.5	52987.2	46870.0	53783.3	78671.9	82876.9	70279.0	44957.8	34726.4	32727.7	24970.8
70°	33078.1	48808.1	43192.7	49085.0	72247.5	73497.7	63828.7	39541.4	25541.9	22102.5	16024.2
72.5°	28327.9	44456.0	40674.9	44270.0	63677.3	61090.2	55431.5	34752.3	18598.3	15942.0	11390.9
75°	23469.6	38035.9	37088.5	38550.7	52407.5	48120.3	46056.7	28773.5	14596.6	11533.6	7860.7
77.5°	18109.5	29721.0	31901.4	30871.7	36889.5	35743.0	35699.8	21622.3	10664.1	7696.3	4927.5
80°	12394.5	20713.8	24923.2	21778.1	23941.2	23357.1	26887.3	14505.7	7735.2	4633.4	2742.8
82.5°	7285.3	12610.9	17348.0	10542.9	13238.2	13588.6	16011.2	7056.0	4551.2	1068.6	597.0
85°	2954.8	4979.5	6783.5	4127.2	6385.5	5386.1	6078.3	1981.4	1267.6	26.0	0.0
87.5°	744.1	1592.0	1116.2	462.9	739.8	679.2	536.4	242.3	51.9	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
2.5°	9656.1	9556.6	9310.0	9063.4	8864.4	8596.1	8418.8	8206.8	8003.5	7821.8	7787.2
5°	10677.0	10348.3	9898.3	9487.3	9067.7	8661.0	8258.7	7834.7	7445.4	7207.4	7056.0
7.5°	11507.7	10928.0	10331.0	9807.5	9301.3	8825.4	8293.3	7778.5	7168.5	6844.0	6549.9
10°	12126.3	11364.9	10581.9	9980.5	9470.0	9007.1	8557.2	8038.1	7302.6	6896.0	6454.7
12.5°	12533.0	11628.8	10711.7	10023.8	9452.7	9093.7	8894.7	8691.3	7960.2	7484.3	6844.0
15°	12814.2	11814.8	10802.5	9924.3	9223.4	8959.5	9158.6	9392.2	8924.9	8375.5	7540.6
17.5°	13121.3	12057.1	10841.4	9656.1	8777.8	8665.4	9180.2	9721.0	9699.3	9154.2	8336.6
20°	13445.8	12269.1	10815.5	9223.4	8237.1	8336.6	8994.2	9621.5	9885.4	9591.2	8864.4
22.5°	13778.9	12472.4	10716.0	8661.0	7730.9	8042.4	8700.0	9249.4	9560.9	9470.0	8916.3
25°	14198.6	12757.9	10568.9	8055.4	7311.3	7743.9	8358.2	8803.8	9020.1	9015.8	8635.1
27.5°	14700.4	13138.7	10491.0	7566.5	7012.8	7406.4	7951.5	8349.6	8501.0	8501.0	8198.1
30°	15284.4	13588.6	10404.5	7246.4	6839.7	7056.0	7480.0	7869.3	8020.8	8020.8	7765.5
32.5°	15933.4	14021.2	10196.8	7051.7	6709.9	6714.3	6982.5	7337.2	7518.9	7544.9	7363.2
35°	16712.1	14484.1	9742.6	6896.0	6558.5	6381.1	6510.9	6805.1	7021.4	7077.7	6965.2
37.5°	17733.1	15050.8	9093.7	6666.7	6324.9	6030.7	6061.0	6286.0	6523.9	6610.4	6536.9
40°	19104.5	15717.1	8418.8	6337.9	5996.1	5645.7	5632.7	5797.1	6030.7	6125.9	6087.0
42.5°	20917.2	16517.4	7774.2	6022.1	5598.1	5239.0	5217.4	5347.2	5550.5	5650.0	5632.7
45°	23236.0	17499.5	7220.4	5775.5	5208.7	4854.0	4845.3	4953.5	5130.9	5234.7	5213.1
47.5°	26459.0	18481.5	6844.0	5645.7	4901.6	4538.2	4555.5	4650.7	4810.7	4884.3	4854.0
50°	30659.7	18780.0	6653.7	5645.7	4737.2	4257.0	4343.5	4421.4	4542.5	4585.8	4546.8
52.5°	34691.8	17793.6	6480.6	5680.3	4758.8	4019.0	4205.1	4261.3	4365.1	4382.4	4326.2
55°	36668.8	15297.4	6242.7	5688.9	4892.9	3815.7	4092.6	4196.4	4235.3	4231.0	4135.8
57.5°	35989.6	12368.6	5840.4	5654.3	4983.8	3685.9	3954.1	4153.1	4179.1	4140.2	3962.8
60°	33605.9	9106.6	5533.2	5399.1	4949.2	3647.0	3742.2	4058.0	4096.9	4045.0	3755.1
62.5°	29608.5	6320.6	5295.3	4836.7	4797.8	3634.0	3409.0	3850.3	3945.5	3871.9	3448.0
65°	23309.5	4464.6	4559.8	4239.7	4469.0	3564.8	3062.9	3599.4	3729.2	3616.7	3019.7
67.5°	15773.3	3223.0	3694.6	3841.7	3936.8	3409.0	2812.0	3313.9	3486.9	3339.8	2522.2
70°	8518.3	2262.6	2440.0	3236.0	3344.1	3140.8	2587.1	3024.0	3223.0	3062.9	2054.9
72.5°	5031.4	1626.6	1708.8	2600.0	2786.1	2764.4	2336.1	2686.6	2928.8	2738.5	1669.9
75°	2773.1	1098.9	1220.0	1886.2	2262.6	2132.8	2007.4	2275.6	2522.2	2336.1	1289.2
77.5°	1241.6	657.6	847.9	1237.3	1778.1	1462.3	1553.1	1773.7	2003.0	1808.3	860.9
80°	480.2	367.7	562.4	674.9	1293.5	809.0	999.4	1306.5	1470.9	1315.2	523.5
82.5°	60.6	164.4	242.3	263.9	752.8	428.3	579.7	822.0	809.0	700.8	263.9
85°	0.0	30.3	34.6	17.3	324.5	155.7	190.4	268.2	250.9	190.4	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
2.5°	7575.2	7419.4	7341.6	7276.7	7337.2	7371.8	7371.8	7518.9	7605.5	7640.1	7882.3
5°	6675.3	6385.5	6190.8	6074.0	6112.9	6156.2	6203.8	6389.8	6515.2	6597.4	6973.8
7.5°	5965.8	5524.6	5252.0	5109.2	5130.9	5161.2	5200.1	5381.8	5507.2	5615.4	6035.0
10°	5615.4	4992.4	4633.4	4460.3	4430.0	4412.7	4399.7	4507.9	4603.1	4689.6	5104.9
12.5°	5632.7	4763.1	4326.2	4114.2	4023.4	3919.5	3837.3	3854.6	3915.2	4023.4	4287.3
15°	5853.3	4689.6	4166.1	3902.2	3750.8	3629.7	3530.2	3508.5	3530.2	3547.5	3711.9
17.5°	6151.8	4680.9	4027.7	3698.9	3543.2	3443.7	3352.8	3322.5	3326.8	3348.5	3391.7
20°	6389.8	4655.0	3871.9	3504.2	3365.8	3279.3	3188.4	3158.1	3166.8	3171.1	3218.7
22.5°	6515.2	4616.1	3698.9	3309.5	3192.7	3106.2	3024.0	3019.7	3019.7	3045.6	3080.3
25°	6515.2	4533.9	3543.2	3123.5	3019.7	2941.8	2842.3	2859.6	2868.3	2902.9	2954.8
27.5°	6359.5	4378.1	3417.7	2963.4	2855.3	2777.4	2686.6	2708.2	2721.2	2760.1	2825.0
30°	6160.5	4192.1	3274.9	2812.0	2686.6	2630.3	2552.5	2561.1	2578.4	2621.7	2695.2
32.5°	5948.5	3971.4	3158.1	2660.6	2535.2	2491.9	2405.4	2418.3	2435.6	2483.2	2565.4
35°	5714.9	3711.9	3019.7	2522.2	2396.7	2362.1	2262.6	2271.3	2297.2	2349.1	2431.3
37.5°	5468.3	3499.9	2881.2	2388.1	2258.3	2223.7	2119.8	2128.5	2158.8	2219.3	2297.2
40°	5226.0	3292.2	2734.2	2245.3	2115.5	2085.2	1972.7	1981.4	2016.0	2080.9	2163.1
42.5°	4962.1	3132.2	2543.8	2098.2	1959.8	1929.5	1825.7	1838.6	1877.6	1942.5	2024.7
45°	4646.3	3028.3	2331.8	1959.8	1804.0	1773.7	1678.6	1704.5	1747.8	1812.7	1899.2
47.5°	4321.9	2985.1	2154.4	1812.7	1644.0	1618.0	1540.1	1583.4	1631.0	1682.9	1778.1
50°	4010.4	2928.8	1972.7	1674.2	1505.5	1479.6	1427.6	1483.9	1531.5	1579.1	1669.9
52.5°	3655.6	2807.7	1808.3	1553.1	1388.7	1380.1	1354.1	1406.0	1449.3	1492.5	1570.4
55°	3287.9	2613.0	1665.6	1444.9	1289.2	1297.9	1284.9	1328.1	1362.8	1401.7	1470.9
57.5°	2967.8	2366.4	1553.1	1328.1	1202.7	1228.6	1211.3	1233.0	1254.6	1302.2	1358.4
60°	2643.3	2072.2	1427.6	1189.7	1116.2	1146.4	1098.9	1094.5	1103.2	1116.2	1220.0
62.5°	2206.4	1765.1	1271.9	1068.6	1021.0	1034.0	943.1	873.9	873.9	886.9	1042.6
65°	1773.7	1479.6	1098.9	930.1	891.2	882.5	752.8	657.6	648.9	687.9	822.0
67.5°	1457.9	1228.6	925.8	774.4	748.4	757.1	661.9	566.7	558.1	601.3	700.8
70°	1207.0	990.7	739.8	597.0	623.0	661.9	566.7	475.9	462.9	501.8	597.0
72.5°	960.4	774.4	566.7	441.3	514.8	562.4	462.9	376.4	367.7	402.3	493.2
75°	705.2	553.8	385.0	320.1	398.0	441.3	337.4	268.2	255.2	285.5	376.4
77.5°	436.9	311.5	242.3	190.4	272.6	294.2	177.4	155.7	151.4	173.0	237.9
80°	203.3	134.1	116.8	64.9	99.5	116.8	73.5	82.2	86.5	103.8	147.1
82.5°	56.2	21.6	4.3	0.0	0.0	34.6	17.3	34.6	43.3	64.9	95.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	21.6	38.9	69.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	34.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
2.5°	8064.0	8237.1	8514.0	8799.5	9080.7	9366.2	9643.1	9742.6
5°	7315.6	7713.6	8263.0	8851.4	9457.1	10071.4	10633.8	10889.0
7.5°	6480.6	7051.7	7878.0	8799.5	9764.2	10729.0	11615.8	12026.8
10°	5589.4	6311.9	7255.0	8501.0	9885.4	11217.8	12437.8	12969.9
12.5°	4741.5	5498.6	6541.2	8033.7	9790.2	11499.0	12965.6	13592.9
15°	4032.0	4702.6	5827.4	7480.0	9483.0	11516.3	13216.5	13904.4
17.5°	3499.9	3936.8	5100.6	6865.7	9080.7	11356.3	13303.0	14038.5
20°	3236.0	3357.1	4157.5	6078.3	8704.3	11204.8	13389.6	14164.0
22.5°	3080.3	3110.5	3400.4	5061.6	8254.4	11157.3	13541.0	14337.0
25°	2954.8	2963.4	3041.3	4010.4	7566.5	11127.0	13774.6	14575.0
27.5°	2829.3	2829.3	2872.6	3231.7	6632.1	10997.2	14077.4	14860.5
30°	2703.9	2703.9	2734.2	2859.6	5537.5	10741.9	14440.8	15232.5
32.5°	2574.1	2574.1	2600.0	2690.9	4421.4	10421.8	14774.0	15608.9
35°	2444.3	2435.6	2470.3	2565.4	3517.2	10015.1	15107.1	16015.6
37.5°	2305.9	2301.5	2336.1	2444.3	3037.0	9543.6	15358.0	16569.3
40°	2158.8	2158.8	2197.7	2314.5	2898.6	8950.9	15756.0	17365.3
42.5°	2024.7	2016.0	2059.3	2202.0	2794.7	8384.2	16469.8	18524.8
45°	1894.9	1877.6	1916.5	2093.9	2613.0	8185.2	17802.3	20237.9
47.5°	1773.7	1730.5	1765.1	1964.1	2448.6	8929.3	19982.7	22613.0
50°	1674.2	1592.0	1622.3	1834.3	2323.2	10542.9	22812.0	25766.8
52.5°	1570.4	1462.3	1479.6	1674.2	2210.7	12078.7	25879.3	29928.6
55°	1462.3	1341.1	1349.8	1514.2	2050.6	12308.0	28873.0	35604.6
57.5°	1341.1	1228.6	1228.6	1367.1	1933.8	10668.4	31174.6	42647.6
60°	1207.0	1133.5	1111.8	1250.3	2037.6	7527.6	31442.8	47190.1
62.5°	1059.9	1021.0	990.7	1137.8	2115.5	4460.3	29284.0	46091.3
65°	891.2	882.5	860.9	1250.3	1782.4	2634.7	25139.5	42721.2
67.5°	748.4	735.5	735.5	1310.8	1354.1	1656.9	19640.9	38083.5
70°	644.6	597.0	597.0	990.7	822.0	1146.4	13714.0	33078.1
72.5°	540.8	488.9	454.3	791.7	614.3	839.3	8570.2	28327.9
75°	432.6	393.7	350.4	523.5	458.6	636.0	4979.5	23469.6
77.5°	311.5	294.2	246.6	385.0	333.1	458.6	2963.4	18109.5
80°	160.1	164.4	155.7	220.6	225.0	311.5	1687.2	12394.5
82.5°	95.2	73.5	82.2	108.2	129.8	177.4	636.0	7285.3
85°	60.6	38.9	38.9	51.9	64.9	69.2	194.7	2954.8
87.5°	30.3	13.0	17.3	26.0	21.6	17.3	8.7	744.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)