

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: P456887

Luminaire Tested: **GALN-SA8A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21228 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
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

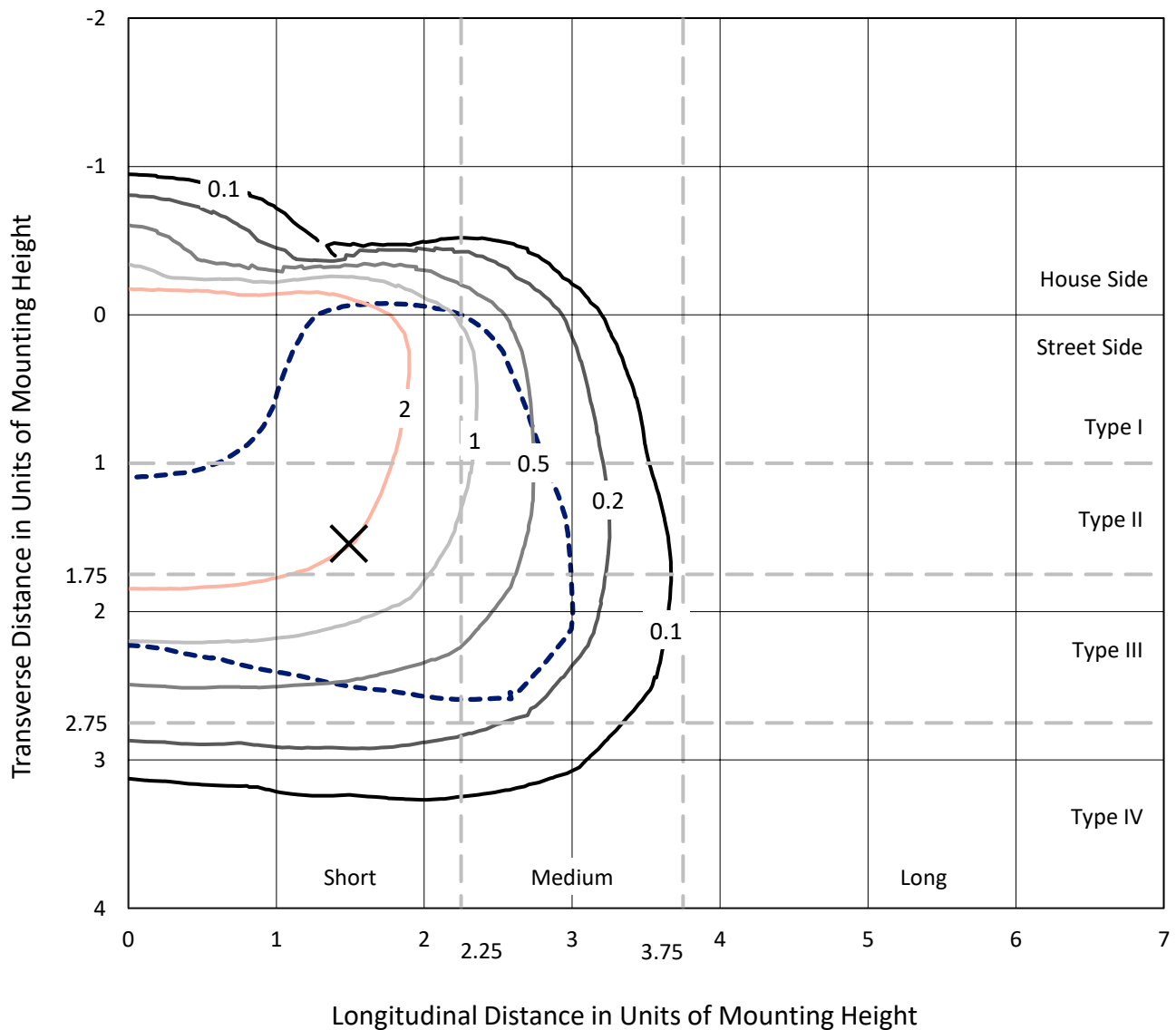


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Iso-Footcandle Lines of Horizontal Illumination

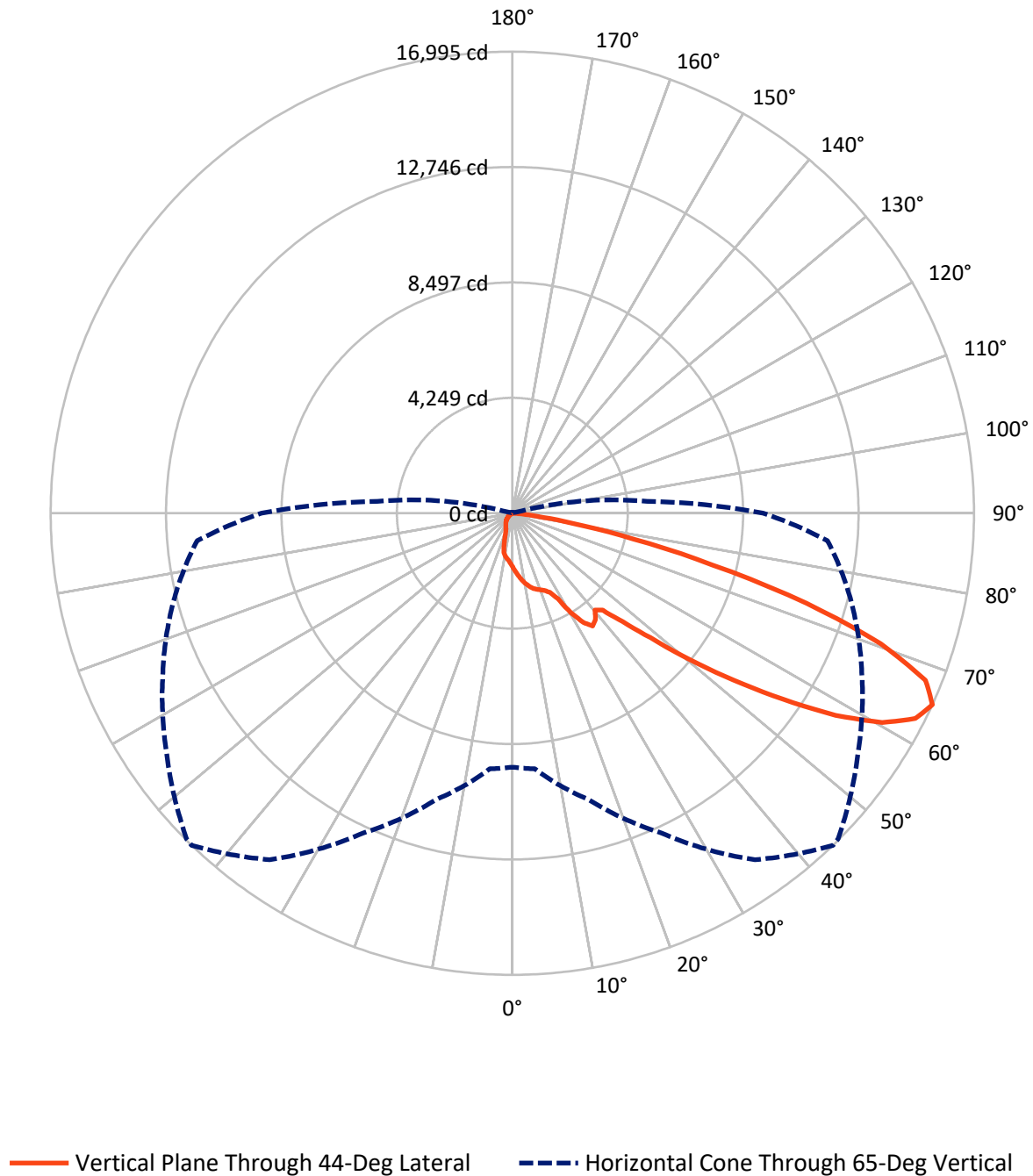
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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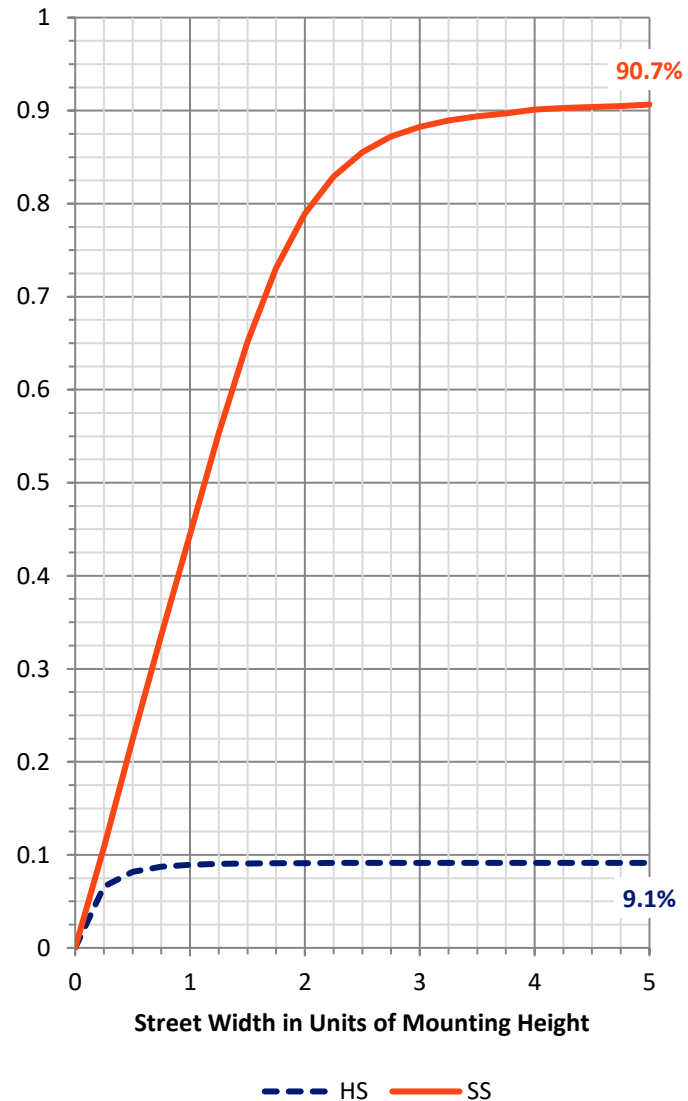
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.8	0.0	1955.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	19272.2	0.0	19272.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	21228.0	0.0	21228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	0.9
10°-20°	591.4	2.8
20°-30°	1002.8	4.7
30°-40°	1667.4	7.9
40°-50°	2911.2	13.7
50°-60°	5687.5	26.8
60°-70°	6598.9	31.1
70°-80°	2403.0	11.3
80°-90°	169.3	0.8
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°	21228.0	100.0
0°-180°	21228.0	100.0

Coefficient of Utilization



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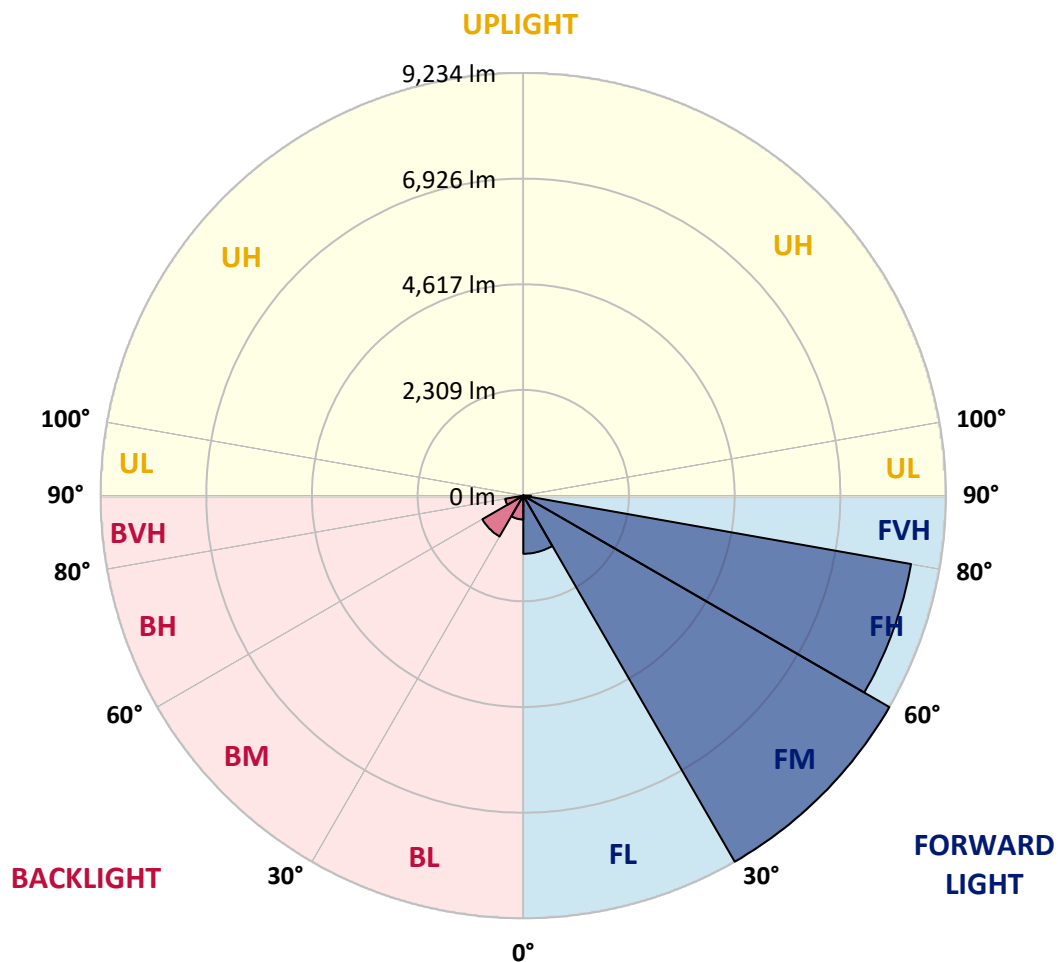
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.6	6.0			
FM	(30°-60°)	9234.2	43.5			
FH	(60°-80°)	8601.3	40.5			G4/12000
FVH	(80°-90°)	167.0	0.8			G2/225
BL	(0°-30°)	521.1	2.5	B2/1000		
BM	(30°-60°)	1031.9	4.9	B2/2500		
BH	(60°-80°)	400.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7
2.5°	2223.9	2214.1	2209.3	2183.3	2163.9	2139.5	2139.5	2108.7	2073.0	2034.1	1998.4
5°	2472.1	2455.8	2434.7	2412.0	2366.6	2301.7	2301.7	2236.8	2162.2	2095.7	2022.7
7.5°	2710.5	2695.9	2660.2	2616.4	2541.8	2473.7	2468.8	2374.7	2285.5	2184.9	2081.1
10°	2919.7	2908.4	2877.6	2793.2	2715.4	2626.1	2624.5	2519.1	2415.3	2292.0	2163.9
12.5°	3065.7	3067.4	3026.8	2945.7	2845.1	2760.8	2754.3	2650.5	2541.8	2408.8	2251.4
15°	3169.5	3169.5	3127.4	3036.5	2945.7	2871.1	2864.6	2773.8	2661.8	2517.5	2347.2
17.5°	3198.7	3208.5	3163.1	3082.0	3009.0	2944.1	2942.5	2866.2	2777.0	2637.5	2444.5
20°	3187.4	3197.1	3161.4	3098.2	3047.9	3010.6	3005.7	2974.9	2892.2	2760.8	2548.3
22.5°	3163.1	3172.8	3146.8	3109.5	3085.2	3096.6	3088.4	3114.4	3070.6	2911.6	2671.6
25°	3167.9	3177.7	3158.2	3137.1	3158.2	3227.9	3249.0	3361.0	3322.0	3103.0	2804.6
27.5°	3320.4	3339.9	3312.3	3322.0	3396.6	3558.8	3599.4	3792.4	3620.5	3346.4	3012.2
30°	3659.4	3646.4	3594.5	3641.6	3901.1	4245.0	4233.6	4202.8	3933.5	3627.0	3258.8
32.5°	3967.6	3956.3	3953.0	4155.8	4626.2	4793.2	4785.1	4486.7	4214.2	3948.1	3502.1
35°	4092.5	4048.7	4039.0	4530.5	5317.2	5096.6	5046.3	4603.5	4554.8	4298.5	3750.2
37.5°	4468.8	4438.0	4287.2	4592.1	5041.4	4968.4	4929.5	4804.6	4918.1	4608.3	4030.9
40°	5244.2	5158.2	5022.0	4723.5	4650.5	4681.3	4720.3	5062.5	5348.0	5031.7	4405.6
42.5°	6207.7	6188.2	5935.2	5378.8	4832.2	4874.4	4924.6	5601.0	5966.0	5669.2	5017.1
45°	7364.2	7391.8	7026.9	6369.9	5652.9	5688.6	5761.6	6395.9	6803.0	6660.3	5979.0
47.5°	8415.4	8394.3	8271.0	7588.1	6926.3	6846.8	6965.2	7416.2	7961.2	7983.9	7172.8
50°	9472.9	9584.9	9401.6	9133.9	8642.4	8475.4	8431.6	8652.2	9482.7	9374.0	8606.8
52.5°	10992.8	11051.2	10707.4	10639.2	10751.1	10209.4	10165.6	10219.1	10962.0	10588.9	9680.6
55°	11948.2	11914.2	11786.0	12318.1	12760.9	12084.5	12029.3	11813.6	12189.9	11447.0	10713.8
57.5°	12249.9	12298.6	12597.1	13559.0	14606.8	14032.6	13932.0	13318.9	13075.6	12246.7	11664.4
60°	12115.3	12204.5	12848.5	14279.2	15732.6	15646.6	15560.6	14530.6	13711.4	12915.0	12331.1
62.5°	11156.7	11281.6	12311.6	14151.0	16113.7	16650.7	16543.6	15286.5	14134.8	13239.4	12447.8
65°	9349.7	9442.1	10921.5	12988.0	15572.0	16994.5	16955.6	15523.3	14201.3	12942.6	11648.2
67.5°	6665.1	6979.8	8350.5	10945.8	13969.4	16407.3	16473.8	15239.4	13576.8	11659.5	9646.5
70°	4189.8	4403.9	5386.9	7836.3	11198.8	14394.3	14613.3	13940.2	11782.8	9088.5	6457.5
72.5°	1998.4	2157.4	2858.1	4960.3	7904.4	11325.4	11498.9	11443.8	9111.2	5725.9	3331.8
75°	890.5	950.5	1364.2	2532.1	5103.1	7612.4	8061.7	8136.4	5693.5	2801.3	1296.0
77.5°	454.2	455.8	639.1	1226.3	2548.3	4541.8	4631.0	4892.2	3086.8	1234.4	450.9
80°	241.7	257.9	339.0	579.1	1322.0	2236.8	2225.5	2446.1	1369.0	605.0	150.9
82.5°	108.7	120.0	191.4	303.3	645.6	848.3	914.9	1000.8	587.2	386.1	66.5
85°	32.4	38.9	94.1	152.5	233.6	244.9	274.1	353.6	332.5	274.1	34.1
87.5°	4.9	4.9	38.9	42.2	34.1	43.8	45.4	50.3	107.1	100.6	17.8
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°	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7
2.5°	1978.9	1967.6	1927.0	1893.0	1863.8	1845.9	1824.8	1811.9	1805.4	1800.5	1802.1
5°	1987.0	1959.5	1889.7	1834.6	1792.4	1747.0	1716.2	1698.3	1690.2	1677.2	1677.2
7.5°	2032.5	1988.7	1891.3	1807.0	1734.0	1672.4	1614.0	1592.9	1578.3	1575.0	1571.8
10°	2097.3	2042.2	1909.2	1792.4	1688.6	1604.2	1521.5	1448.5	1391.7	1357.7	1352.8
12.5°	2178.5	2099.0	1936.8	1782.7	1649.7	1500.4	1281.4	1133.8	1034.9	1004.1	1008.9
15°	2253.1	2167.1	1964.3	1774.6	1578.3	1244.1	996.0	827.3	777.0	772.1	773.7
17.5°	2342.3	2240.1	1996.8	1763.2	1382.0	950.5	739.7	694.3	704.0	720.2	718.6
20°	2434.7	2318.0	2035.7	1695.1	1103.0	715.3	653.7	658.6	673.2	687.8	691.0
22.5°	2533.7	2407.2	2081.1	1531.2	841.9	622.9	619.6	626.1	640.7	656.9	660.2
25°	2669.9	2519.1	2115.2	1317.1	637.5	575.8	582.3	593.7	606.7	624.5	627.7
27.5°	2845.1	2669.9	2133.0	1038.1	551.5	533.7	535.3	551.5	567.7	583.9	583.9
30°	3072.2	2850.0	2097.3	785.1	509.3	493.1	486.6	496.4	517.4	533.7	535.3
32.5°	3275.0	3020.3	2003.3	600.2	478.5	455.8	439.6	441.2	449.3	459.0	460.7
35°	3477.7	3185.8	1842.7	504.5	446.1	420.1	395.8	382.8	376.3	371.5	376.3
37.5°	3737.3	3391.8	1628.6	459.0	418.5	386.1	352.0	324.4	301.7	287.1	290.4
40°	4071.4	3677.3	1375.5	429.9	392.5	353.6	308.2	272.5	233.6	220.6	214.1
42.5°	4622.9	4110.4	1109.5	405.5	366.6	319.5	262.8	214.1	178.4	165.5	168.7
45°	5494.0	4657.0	854.8	379.6	340.6	282.2	220.6	168.7	139.5	133.0	136.3
47.5°	6648.9	5364.2	658.6	350.4	308.2	241.7	173.6	133.0	115.2	113.5	111.9
50°	7735.7	6022.8	549.9	317.9	269.3	201.1	142.7	111.9	100.6	98.9	98.9
52.5°	8718.7	6494.8	447.7	280.6	227.1	165.5	120.0	98.9	89.2	84.3	84.3
55°	9593.0	6803.0	363.3	235.2	178.4	131.4	103.8	89.2	77.9	71.4	69.7
57.5°	10253.2	6840.3	272.5	188.2	133.0	102.2	89.2	77.9	64.9	56.8	53.5
60°	10535.4	6517.5	201.1	142.7	98.9	81.1	71.4	63.3	48.7	40.6	38.9
62.5°	10251.5	5889.8	149.2	108.7	76.2	60.0	50.3	47.0	34.1	24.3	22.7
65°	9234.5	4983.0	118.4	82.7	56.8	43.8	32.4	30.8	21.1	11.4	9.7
67.5°	7398.3	3902.7	94.1	61.6	40.6	29.2	21.1	19.5	11.4	3.2	3.2
70°	4811.1	2494.8	76.2	45.4	26.0	19.5	13.0	9.7	6.5	1.6	0.0
72.5°	2379.6	1166.3	61.6	35.7	17.8	9.7	4.9	3.2	4.9	0.0	0.0
75°	923.0	415.3	45.4	24.3	9.7	4.9	3.2	0.0	1.6	0.0	0.0
77.5°	306.6	137.9	27.6	13.0	6.5	3.2	0.0	0.0	0.0	0.0	0.0
80°	113.5	53.5	14.6	8.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.4	21.1	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	13.0	6.5	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	9.7	6.5	4.9	3.2	1.6	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

(END OF REPORT)