

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: P529752

Luminaire Tested: **GALN-SA4D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20733 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 245
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



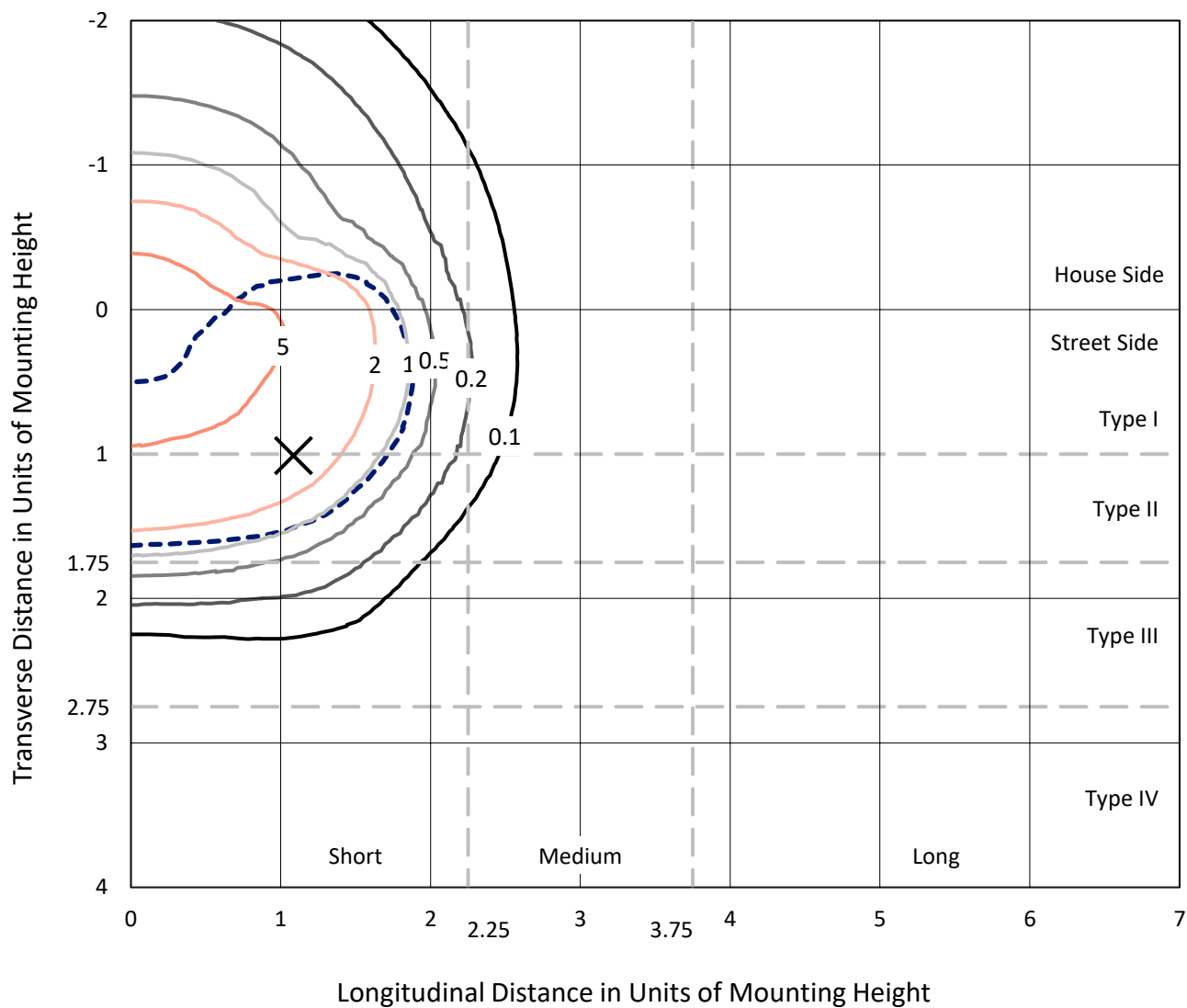
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

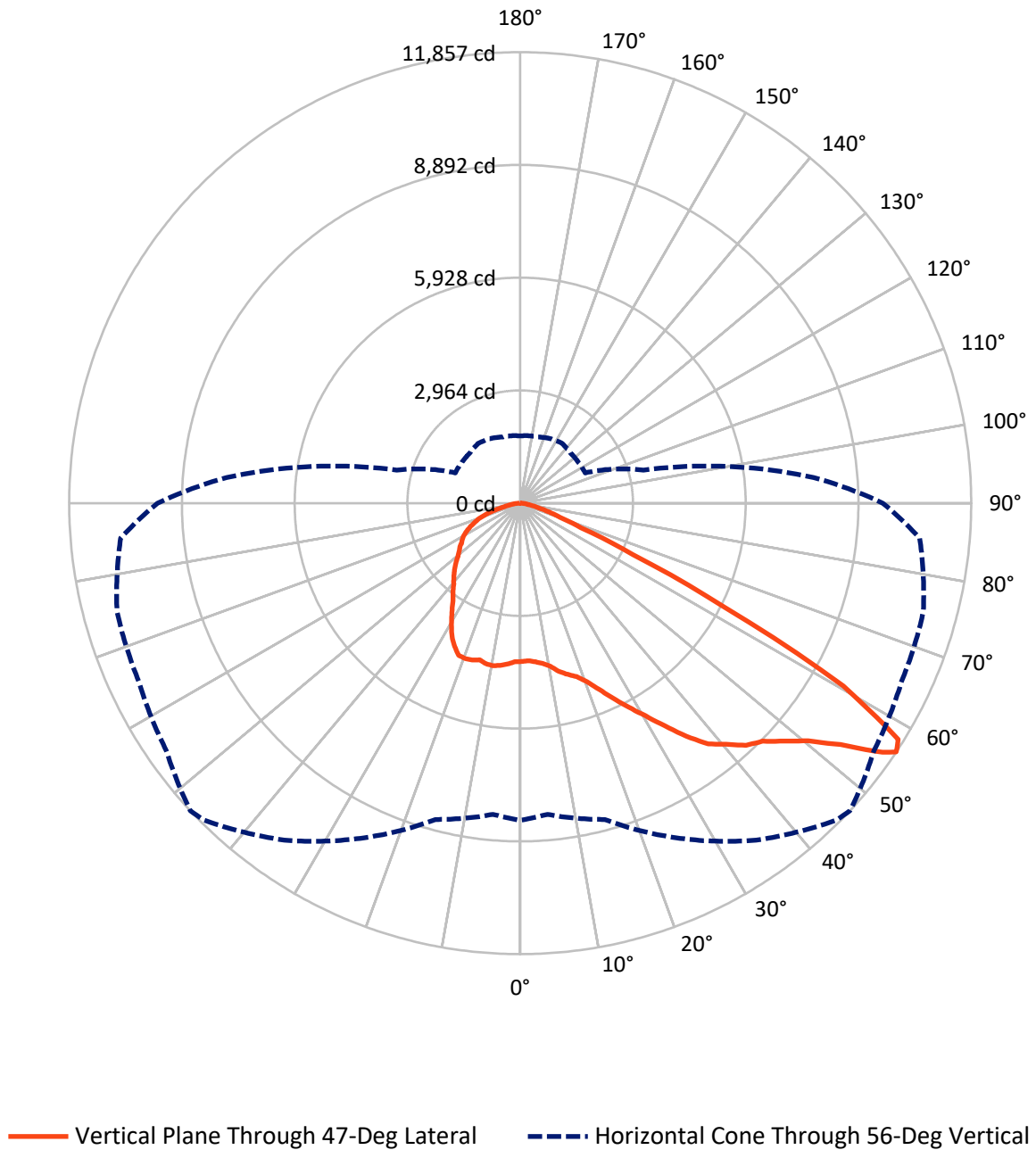


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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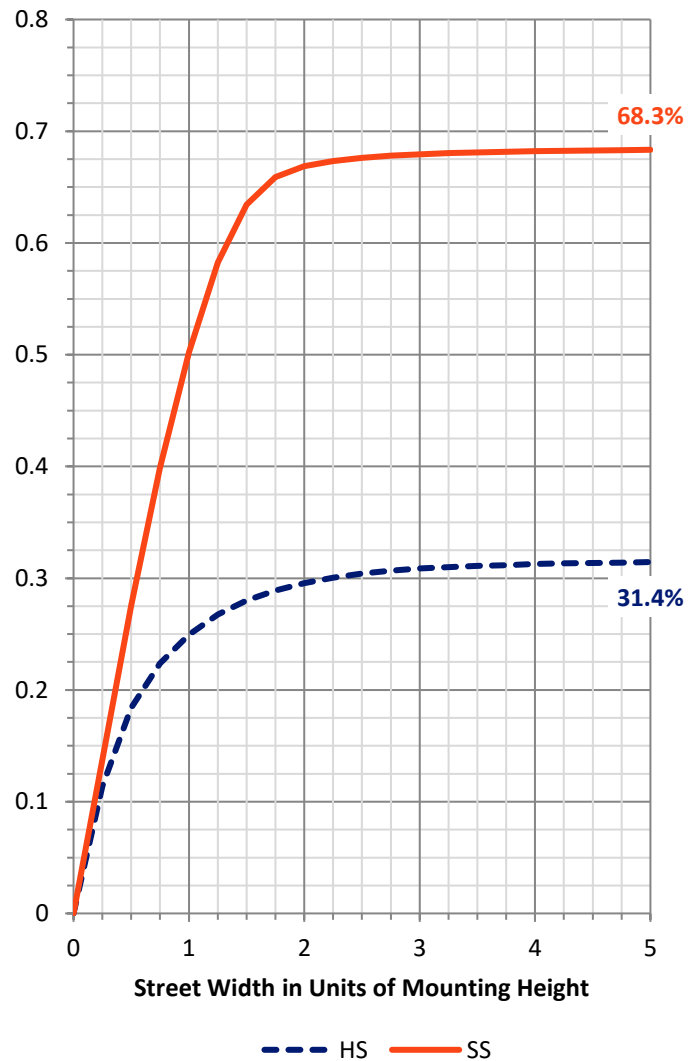
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6570.0	0.0	6570.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14163.0	0.0	14163.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	20733.0	0.0	20733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	2.0
10°-20°	1280.1	6.2
20°-30°	2262.8	10.9
30°-40°	3398.7	16.4
40°-50°	4664.4	22.5
50°-60°	5557.0	26.8
60°-70°	2378.1	11.5
70°-80°	673.0	3.2
80°-90°	113.2	0.5
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°	20733.0	100.0
0°-180°	20733.0	100.0

Coefficient of Utilization



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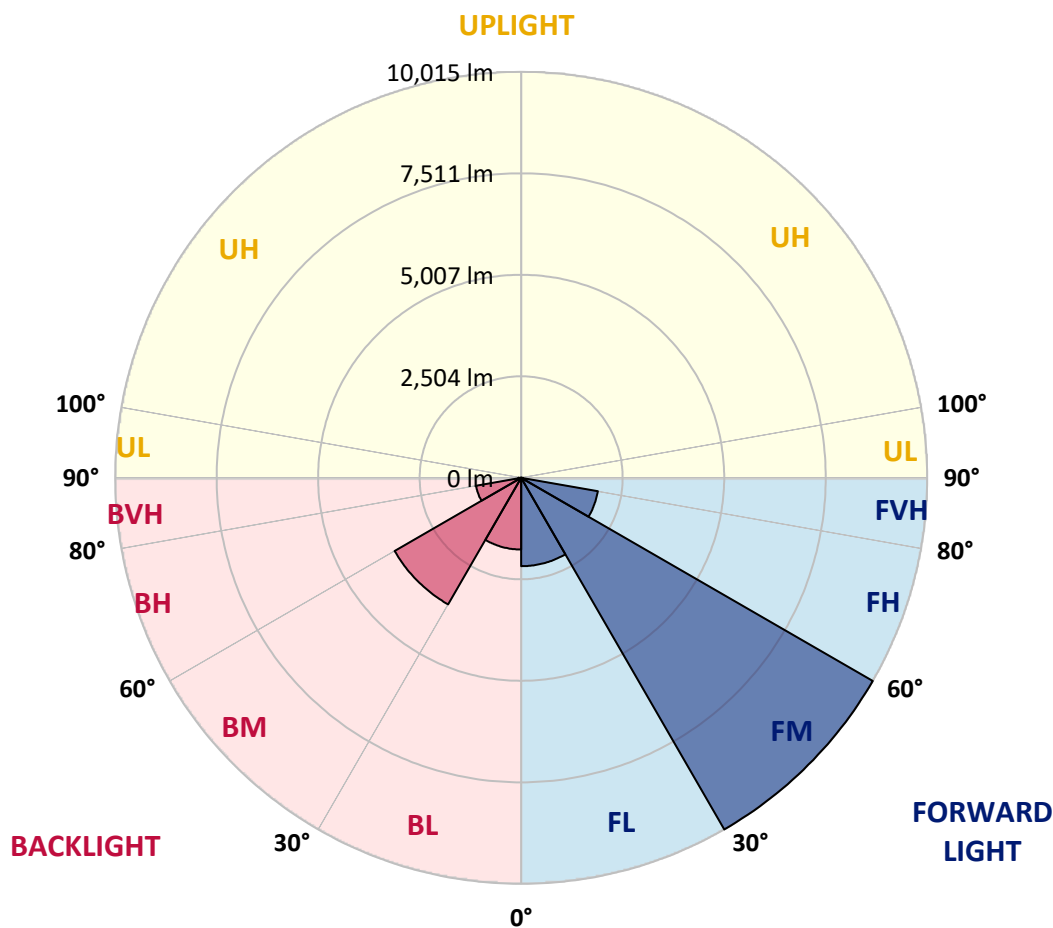
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2179.7	10.5			
FM	(30°-60°)	10014.5	48.3			
FH	(60°-80°)	1920.6	9.3			G2/5000
FVH	(80°-90°)	48.1	0.2			G1/100
BL	(0°-30°)	1768.9	8.5	B3/2500		
BM	(30°-60°)	3605.5	17.4	B3/5000		
BH	(60°-80°)	1130.4	5.5	B3/2500		G3/2500
BVH	(80°-90°)	65.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6
2.5°	4148.8	4140.8	4135.5	4177.9	4162.0	4164.6	4148.8	4164.6	4175.2	4151.4	4185.8
5°	4140.8	4164.6	4143.5	4156.7	4191.1	4180.5	4191.1	4222.8	4214.9	4206.9	4196.4
7.5°	4214.9	4217.5	4233.4	4238.7	4249.2	4238.7	4254.5	4283.6	4275.7	4230.7	4236.0
10°	4320.6	4325.9	4328.6	4357.7	4376.2	4378.8	4360.3	4333.9	4331.2	4392.0	4349.7
12.5°	4442.3	4429.1	4460.8	4471.4	4492.5	4516.3	4540.1	4484.6	4519.0	4521.6	4471.4
15°	4619.4	4632.7	4595.6	4595.6	4603.6	4606.2	4672.3	4645.9	4640.6	4611.5	4632.7
17.5°	4883.9	4794.0	4791.3	4754.3	4749.0	4770.2	4794.0	4815.1	4886.5	4828.3	4714.6
20°	5076.9	5098.0	5021.4	4976.4	4984.3	5031.9	5008.1	5103.3	5153.6	5058.4	4947.3
22.5°	5418.0	5346.6	5365.1	5264.6	5272.6	5322.8	5320.1	5418.0	5447.1	5296.4	5135.1
25°	5648.0	5629.5	5645.4	5566.1	5576.6	5616.3	5679.8	5841.1	5793.5	5626.9	5254.0
27.5°	5983.8	5946.8	5933.6	5904.5	5893.9	5999.7	6073.7	6245.6	6211.2	5968.0	5465.6
30°	6327.6	6303.8	6317.0	6198.0	6240.3	6465.1	6486.2	6721.6	6705.7	6277.4	5700.9
32.5°	6565.6	6578.8	6602.6	6536.5	6724.2	6904.0	6975.4	7242.5	7255.7	6808.8	6155.7
35°	6949.0	6904.0	6917.3	6993.9	7081.2	7409.1	7525.4	7702.6	7813.6	7366.8	6592.0
37.5°	7189.6	7237.2	7181.7	7303.3	7530.7	7924.7	8030.5	8212.9	8329.3	7916.8	7187.0
40°	7565.1	7488.4	7528.1	7615.3	7848.0	8361.0	8331.9	8519.6	8556.7	8384.8	7742.2
42.5°	7969.6	7932.6	7877.1	8075.4	8271.1	8643.9	8702.1	8614.8	8802.6	8842.2	8535.5
45°	8453.5	8498.5	8506.4	8511.7	8683.6	9008.8	8929.5	8852.8	9069.6	9357.9	9027.3
47.5°	8903.1	8760.3	8863.4	9006.2	9249.4	9252.1	9344.6	9162.2	9392.2	9648.7	9471.6
50°	9053.8	8985.0	9122.5	9392.2	9767.7	9807.4	9817.9	9558.8	9677.8	9881.4	9624.9
52.5°	8995.6	8971.8	9323.5	9741.3	10291.3	10492.2	10545.1	10225.2	10291.3	10198.7	9963.4
55°	8718.0	8789.4	9143.7	9995.1	10838.6	11460.0	11560.5	11155.9	10735.5	10806.9	10547.8
56°	8337.2	8212.9	8609.5	9706.9	10814.8	11774.7	11856.6	11351.6	11066.0	10973.5	10542.5
57.5°	7073.3	6912.0	7432.9	8733.8	10214.6	11655.7	11716.5	11433.6	11010.5	10822.7	9773.0
60°	4140.8	4220.2	4881.2	6023.5	7879.7	9556.2	9759.8	9966.0	9683.1	8842.2	7274.2
62.5°	1999.0	1948.8	2422.1	3453.3	4801.9	6100.2	6039.4	6618.5	6935.8	6282.6	4593.0
65°	1047.1	1041.8	1322.1	1885.3	2638.9	3204.8	3260.3	3572.3	4008.6	3236.5	2332.2
67.5°	769.5	790.6	930.8	1324.7	1697.6	1732.0	1724.0	1880.0	1922.3	1626.2	1433.2
70°	602.9	613.5	716.6	1007.4	1263.9	1131.7	1107.9	1126.4	1250.7	1303.6	1240.1
72.5°	436.3	446.9	534.1	679.6	790.6	772.1	788.0	891.1	1044.5	1100.0	1033.9
75°	290.9	298.8	346.4	415.1	468.0	505.0	534.1	653.1	795.9	827.6	795.9
77.5°	201.0	208.9	240.6	293.5	298.8	322.6	333.2	388.7	476.0	515.6	494.5
80°	113.7	113.7	129.6	150.7	185.1	216.8	222.1	267.1	306.7	333.2	338.5
82.5°	52.9	55.5	68.7	92.5	121.6	150.7	156.0	185.1	214.2	240.6	248.6
85°	26.4	29.1	39.7	55.5	74.0	89.9	87.3	89.9	95.2	89.9	92.5
87.5°	7.9	7.9	10.6	13.2	10.6	13.2	13.2	15.9	18.5	21.2	23.8
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°	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6
2.5°	4188.4	4196.4	4143.5	4193.7	4175.2	4172.6	4209.6	4204.3	4217.5	4212.2	4180.5
5°	4191.1	4172.6	4228.1	4177.9	4201.6	4251.9	4217.5	4296.8	4257.2	4283.6	4225.4
7.5°	4273.0	4278.3	4267.8	4288.9	4278.3	4302.1	4283.6	4302.1	4270.4	4273.0	4325.9
10°	4344.4	4328.6	4347.1	4320.6	4339.1	4331.2	4288.9	4275.7	4286.3	4273.0	4307.4
12.5°	4476.6	4447.6	4434.3	4402.6	4381.5	4302.1	4236.0	4199.0	4249.2	4257.2	4241.3
15°	4611.5	4614.1	4553.3	4481.9	4349.7	4230.7	4246.6	4259.8	4259.8	4281.0	4241.3
17.5°	4696.1	4696.1	4640.6	4497.8	4362.9	4294.2	4278.3	4236.0	4199.0	4193.7	4191.1
20°	4844.2	4799.2	4672.3	4495.2	4357.7	4325.9	4206.9	4106.5	4029.8	4003.3	4000.7
22.5°	5013.4	4899.7	4722.6	4500.4	4349.7	4304.8	4082.7	3931.9	3794.4	3736.3	3744.2
25°	5169.4	4987.0	4751.6	4476.6	4320.6	4103.8	3855.3	3646.4	3503.6	3456.0	3432.2
27.5°	5277.8	5079.5	4751.6	4497.8	4212.2	3879.1	3625.2	3358.1	3233.9	3202.1	3207.4
30°	5423.3	5195.9	4833.6	4452.8	3995.4	3588.2	3284.1	3109.6	3035.6	3009.1	3027.6
32.5°	5764.4	5500.0	4947.3	4344.4	3738.9	3297.3	3051.4	2953.6	2845.2	2792.3	2773.8
35°	6134.6	5788.2	5058.4	4162.0	3450.7	3032.9	2879.5	2789.6	2660.1	2601.9	2612.5
37.5°	6658.1	6158.4	5066.3	3860.5	3138.7	2884.8	2744.7	2604.5	2498.8	2408.9	2382.4
40°	7364.1	6663.4	5047.8	3543.2	2887.5	2710.3	2607.2	2432.7	2313.7	2250.2	2263.4
42.5°	7985.5	7255.7	4971.1	3183.6	2660.1	2591.3	2475.0	2303.1	2186.8	2120.7	2115.4
45°	8509.1	7692.0	4825.7	2876.9	2469.7	2459.1	2324.3	2192.0	2099.5	2038.7	2065.1
47.5°	8993.0	8043.7	4606.2	2570.2	2295.2	2316.3	2186.8	2104.8	2046.6	1991.1	1988.4
50°	9167.5	8038.4	4413.2	2316.3	2155.0	2144.5	2139.2	2051.9	1991.1	1943.5	1964.6
52.5°	9458.3	8128.3	4204.3	2141.8	2028.1	2030.8	2049.3	1985.8	1917.1	1888.0	1914.4
55°	9876.1	8141.5	3744.2	1938.2	1922.3	1940.8	1940.8	1898.5	1840.4	1816.6	1803.4
56°	9535.0	7747.5	3358.1	1885.3	1869.5	1869.5	1919.7	1872.1	1800.7	1782.2	1766.3
57.5°	8794.6	6787.7	2810.8	1821.9	1798.1	1835.1	1861.5	1811.3	1745.2	1718.7	1734.6
60°	6065.8	4593.0	2112.7	1684.4	1684.4	1745.2	1766.3	1692.3	1663.2	1660.6	1639.4
62.5°	3540.6	2675.9	1652.6	1560.1	1565.4	1615.6	1631.5	1589.2	1552.2	1597.1	1618.3
65°	1877.4	1597.1	1417.3	1427.9	1430.5	1470.2	1538.9	1536.3	1533.6	1546.9	1549.5
67.5°	1359.1	1327.4	1287.7	1277.2	1282.4	1311.5	1380.3	1433.2	1430.5	1398.8	1375.0
70°	1211.0	1166.1	1142.3	1144.9	1123.8	1158.2	1213.7	1248.1	1187.3	1150.2	1134.4
72.5°	1007.4	994.2	978.4	981.0	938.7	930.8	867.3	867.3	851.4	840.9	859.4
75°	769.5	764.2	772.1	758.9	713.9	666.3	629.3	594.9	542.1	520.9	510.3
77.5°	486.5	502.4	520.9	491.8	473.3	438.9	401.9	367.5	325.2	301.4	301.4
80°	330.5	343.7	357.0	351.7	330.5	298.8	269.7	232.7	203.6	185.1	182.5
82.5°	251.2	261.8	280.3	259.1	238.0	211.5	187.7	161.3	134.9	113.7	113.7
85°	89.9	103.1	113.7	124.3	132.2	134.9	116.3	95.2	76.7	60.8	58.2
87.5°	23.8	26.4	29.1	26.4	26.4	26.4	29.1	26.4	23.8	18.5	18.5
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)