

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: P526320

Luminaire Tested: **GALN-SA1B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526320
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-SA1B-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4471 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

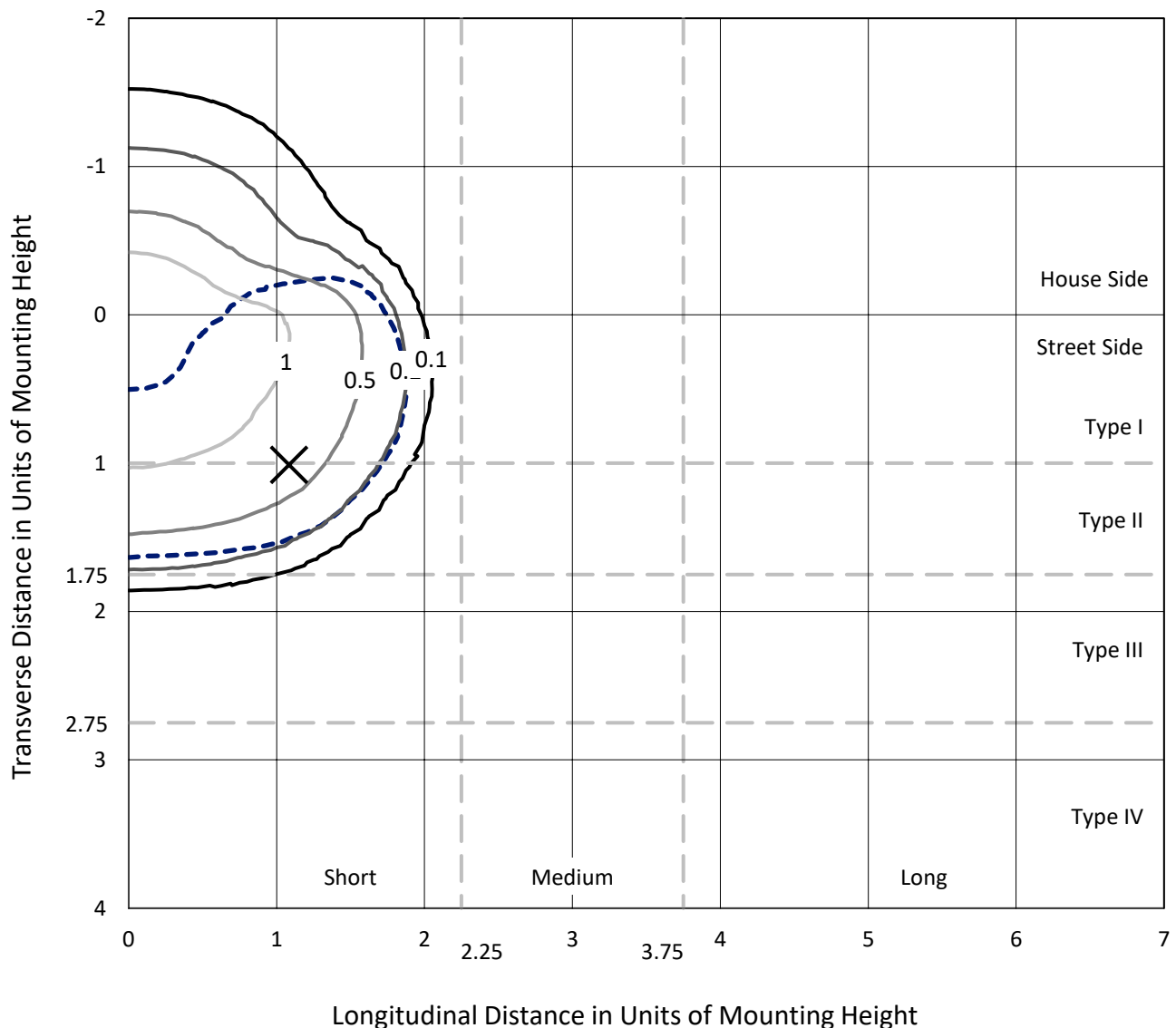
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

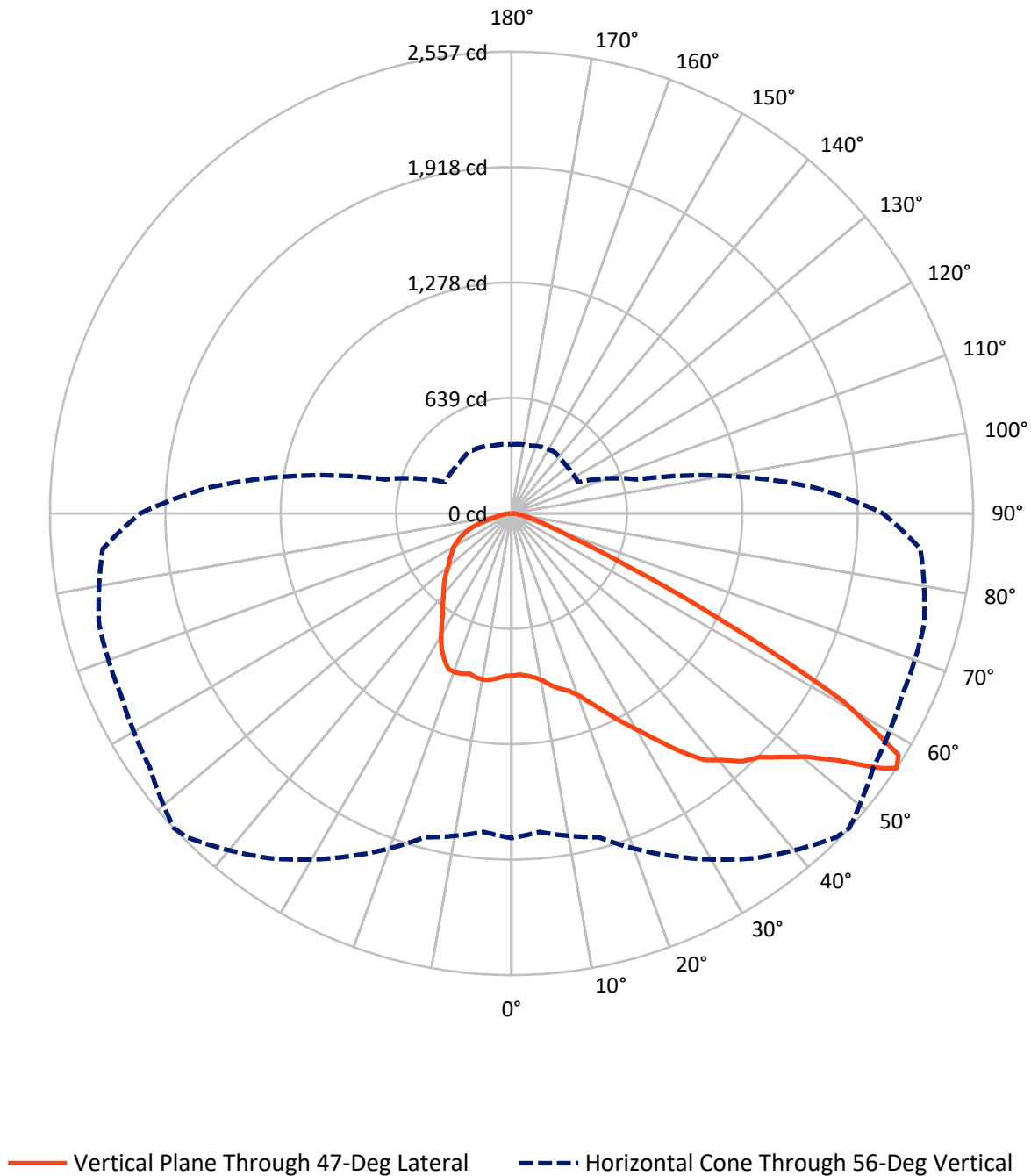
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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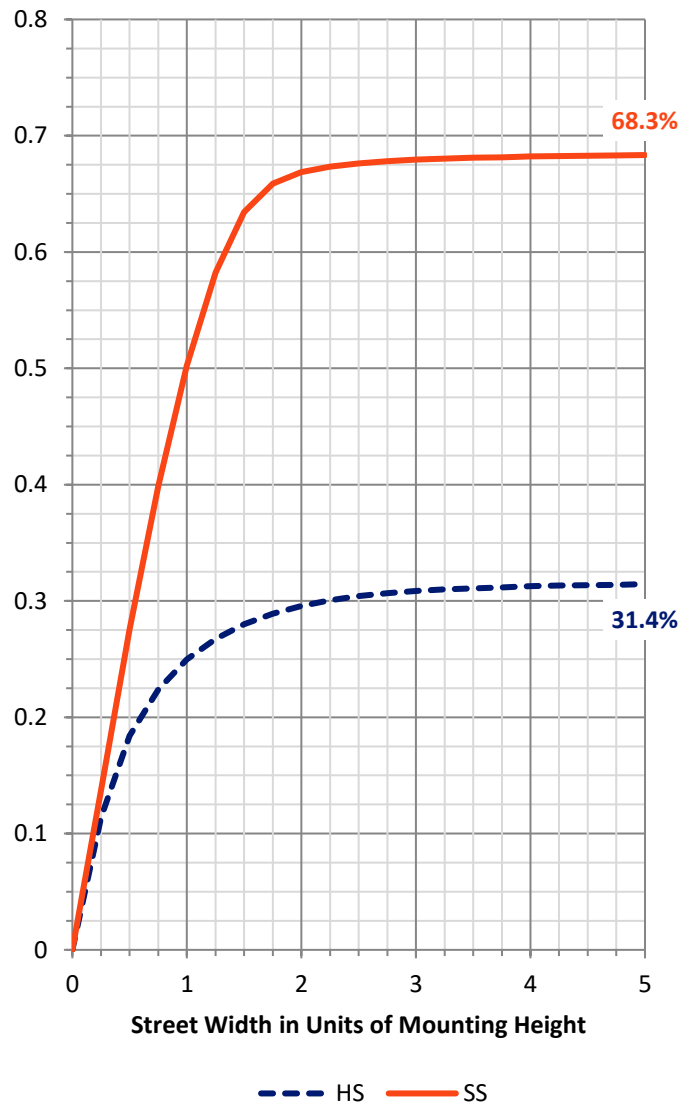
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.8	0.0	1416.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3054.2	0.0	3054.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	4471.0	0.0	4471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	2.0
10°-20°	276.0	6.2
20°-30°	488.0	10.9
30°-40°	732.9	16.4
40°-50°	1005.9	22.5
50°-60°	1198.3	26.8
60°-70°	512.8	11.5
70°-80°	145.1	3.2
80°-90°	24.4	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°	4471.0	100.0
0°-180°	4471.0	100.0

Coefficient of Utilization



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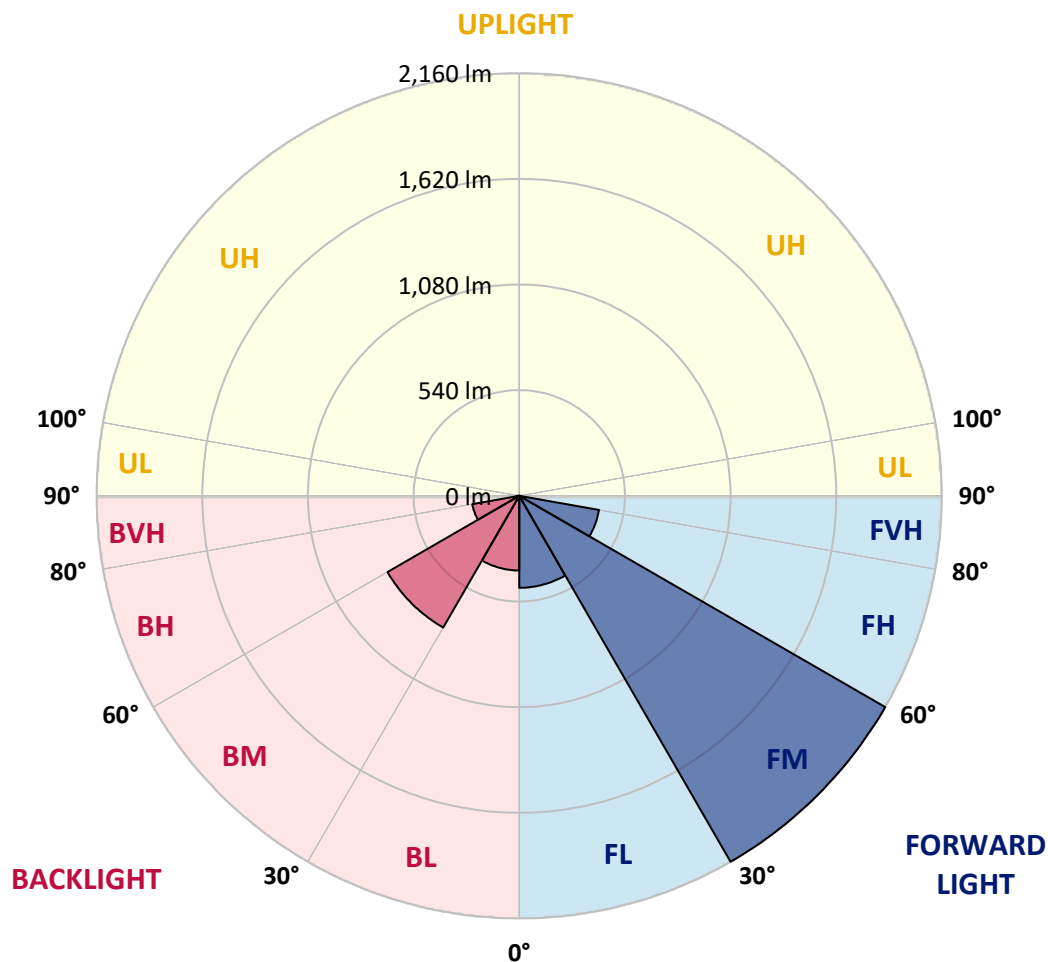
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.1	10.5			
FM	(30°-60°)	2159.6	48.3			
FH	(60°-80°)	414.2	9.3			G0/660
FVH	(80°-90°)	10.4	0.2			G1/100
BL	(0°-30°)	381.5	8.5	B1/500		
BM	(30°-60°)	777.5	17.4	B1/1000		
BH	(60°-80°)	243.8	5.5	B1/500		G1/500
BVH	(80°-90°)	14.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1
2.5°	894.7	893.0	891.8	900.9	897.5	898.1	894.7	898.1	900.4	895.2	902.6
5°	893.0	898.1	893.5	896.4	903.8	901.5	903.8	910.6	908.9	907.2	904.9
7.5°	908.9	909.5	912.9	914.1	916.3	914.1	917.5	923.7	922.0	912.3	913.5
10°	931.7	932.9	933.4	939.7	943.7	944.3	940.3	934.6	934.0	947.1	938.0
12.5°	958.0	955.1	962.0	964.2	968.8	973.9	979.1	967.1	974.5	975.1	964.2
15°	996.2	999.0	991.0	991.0	992.7	993.3	1007.6	1001.9	1000.7	994.5	999.0
17.5°	1053.2	1033.8	1033.2	1025.2	1024.1	1028.7	1033.8	1038.4	1053.8	1041.2	1016.7
20°	1094.8	1099.4	1082.8	1073.1	1074.9	1085.1	1080.0	1100.5	1111.3	1090.8	1066.9
22.5°	1168.4	1153.0	1157.0	1135.3	1137.0	1147.8	1147.3	1168.4	1174.6	1142.1	1107.4
25°	1218.0	1214.0	1217.4	1200.3	1202.6	1211.1	1224.8	1259.6	1249.3	1213.4	1133.0
27.5°	1290.4	1282.4	1279.6	1273.3	1271.0	1293.8	1309.8	1346.8	1339.4	1287.0	1178.6
30°	1364.5	1359.4	1362.2	1336.6	1345.7	1394.2	1398.7	1449.5	1446.1	1353.7	1229.4
32.5°	1415.8	1418.7	1423.8	1409.6	1450.1	1488.8	1504.2	1561.8	1564.7	1468.3	1327.5
35°	1498.5	1488.8	1491.7	1508.2	1527.0	1597.7	1622.8	1661.0	1685.0	1588.6	1421.5
37.5°	1550.4	1560.7	1548.7	1574.9	1624.0	1708.9	1731.7	1771.1	1796.2	1707.2	1549.8
40°	1631.4	1614.8	1623.4	1642.2	1692.4	1803.0	1796.7	1837.2	1845.2	1808.2	1669.6
42.5°	1718.6	1710.6	1698.7	1741.4	1783.6	1864.0	1876.6	1857.8	1898.2	1906.8	1840.7
45°	1823.0	1832.7	1834.4	1835.5	1872.6	1942.7	1925.6	1909.1	1955.8	2018.0	1946.7
47.5°	1919.9	1889.1	1911.4	1942.2	1994.6	1995.2	2015.1	1975.8	2025.4	2080.7	2042.5
50°	1952.4	1937.6	1967.2	2025.4	2106.4	2114.9	2117.2	2061.3	2087.0	2130.9	2075.6
52.5°	1939.9	1934.7	2010.6	2100.7	2219.3	2262.6	2274.0	2205.0	2219.3	2199.3	2148.6
55°	1880.0	1895.4	1971.8	2155.4	2337.3	2471.3	2493.0	2405.7	2315.1	2330.5	2274.6
56°	1797.9	1771.1	1856.6	2093.3	2332.2	2539.2	2556.8	2447.9	2386.3	2366.4	2273.4
57.5°	1525.3	1490.5	1602.9	1883.4	2202.7	2513.5	2526.6	2465.6	2374.4	2333.9	2107.5
60°	893.0	910.1	1052.6	1298.9	1699.2	2060.8	2104.7	2149.1	2088.1	1906.8	1568.7
62.5°	431.1	420.2	522.3	744.7	1035.5	1315.5	1302.4	1427.2	1495.7	1354.8	990.5
65°	225.8	224.7	285.1	406.6	569.1	691.1	703.1	770.4	864.4	697.9	502.9
67.5°	165.9	170.5	200.7	285.7	366.1	373.5	371.8	405.4	414.5	350.7	309.1
70°	130.0	132.3	154.5	217.3	272.6	244.1	238.9	242.9	269.7	281.1	267.4
72.5°	94.1	96.4	115.2	146.5	170.5	166.5	169.9	192.2	225.2	237.2	223.0
75°	62.7	64.4	74.7	89.5	100.9	108.9	115.2	140.8	171.6	178.5	171.6
77.5°	43.3	45.0	51.9	63.3	64.4	69.6	71.8	83.8	102.6	111.2	106.6
80°	24.5	24.5	27.9	32.5	39.9	46.8	47.9	57.6	66.1	71.8	73.0
82.5°	11.4	12.0	14.8	20.0	26.2	32.5	33.6	39.9	46.2	51.9	53.6
85°	5.7	6.3	8.6	12.0	16.0	19.4	18.8	19.4	20.5	19.4	20.0
87.5°	1.7	1.7	2.3	2.9	2.3	2.9	2.9	3.4	4.0	4.6	5.1
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°	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1	898.1
2.5°	903.2	904.9	893.5	904.4	900.4	899.8	907.8	906.6	909.5	908.4	901.5
5°	903.8	899.8	911.8	900.9	906.1	916.9	909.5	926.6	918.0	923.7	911.2
7.5°	921.5	922.6	920.3	924.9	922.6	927.7	923.7	927.7	920.9	921.5	932.9
10°	936.9	933.4	937.4	931.7	935.7	934.0	924.9	922.0	924.3	921.5	928.9
12.5°	965.4	959.1	956.2	949.4	944.8	927.7	913.5	905.5	916.3	918.0	914.6
15°	994.5	995.0	981.9	966.5	938.0	912.3	915.8	918.6	918.6	923.2	914.6
17.5°	1012.7	1012.7	1000.7	969.9	940.9	926.0	922.6	913.5	905.5	904.4	903.8
20°	1044.6	1034.9	1007.6	969.4	939.7	932.9	907.2	885.5	869.0	863.3	862.7
22.5°	1081.1	1056.6	1018.4	970.5	938.0	928.3	880.4	847.9	818.3	805.7	807.4
25°	1114.8	1075.4	1024.7	965.4	931.7	885.0	831.4	786.3	755.5	745.3	740.1
27.5°	1138.1	1095.4	1024.7	969.9	908.4	836.5	781.8	724.2	697.4	690.5	691.7
30°	1169.5	1120.5	1042.4	960.2	861.6	773.8	708.2	670.6	654.6	648.9	652.9
32.5°	1243.1	1186.0	1066.9	936.9	806.3	711.1	658.0	636.9	613.6	602.1	598.2
35°	1322.9	1248.2	1090.8	897.5	744.1	654.0	621.0	601.6	573.6	561.1	563.4
37.5°	1435.8	1328.0	1092.5	832.5	676.8	622.1	591.9	561.7	538.9	519.5	513.8
40°	1588.0	1436.9	1088.5	764.1	622.7	584.5	562.2	524.6	498.9	485.3	488.1
42.5°	1722.0	1564.7	1072.0	686.5	573.6	558.8	533.7	496.7	471.6	457.3	456.2
45°	1835.0	1658.8	1040.6	620.4	532.6	530.3	501.2	472.7	452.8	439.6	445.3
47.5°	1939.3	1734.6	993.3	554.2	494.9	499.5	471.6	453.9	441.3	429.4	428.8
50°	1976.9	1733.5	951.7	499.5	464.7	462.4	461.3	442.5	429.4	419.1	423.7
52.5°	2039.7	1752.8	906.6	461.9	437.4	437.9	441.9	428.2	413.4	407.1	412.8
55°	2129.8	1755.7	807.4	418.0	414.5	418.5	418.5	409.4	396.9	391.7	388.9
56°	2056.2	1670.7	724.2	406.6	403.1	403.1	414.0	403.7	388.3	384.3	380.9
57.5°	1896.5	1463.7	606.1	392.9	387.7	395.7	401.4	390.6	376.3	370.6	374.1
60°	1308.1	990.5	455.6	363.2	363.2	376.3	380.9	364.9	358.7	358.1	353.5
62.5°	763.5	577.1	356.4	336.4	337.6	348.4	351.8	342.7	334.7	344.4	349.0
65°	404.9	344.4	305.6	307.9	308.5	317.0	331.9	331.3	330.7	333.6	334.1
67.5°	293.1	286.2	277.7	275.4	276.6	282.8	297.7	309.1	308.5	301.6	296.5
70°	261.2	251.5	246.3	246.9	242.3	249.8	261.7	269.1	256.0	248.0	244.6
72.5°	217.3	214.4	211.0	211.5	202.4	200.7	187.0	187.0	183.6	181.3	185.3
75°	165.9	164.8	166.5	163.7	154.0	143.7	135.7	128.3	116.9	112.3	110.1
77.5°	104.9	108.3	112.3	106.1	102.1	94.7	86.7	79.3	70.1	65.0	65.0
80°	71.3	74.1	77.0	75.8	71.3	64.4	58.2	50.2	43.9	39.9	39.3
82.5°	54.2	56.5	60.4	55.9	51.3	45.6	40.5	34.8	29.1	24.5	24.5
85°	19.4	22.2	24.5	26.8	28.5	29.1	25.1	20.5	16.5	13.1	12.5
87.5°	5.1	5.7	6.3	5.7	5.7	5.7	6.3	5.7	5.1	4.0	4.0
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)