

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: P450852

Luminaire Tested: **GALN-SA1C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

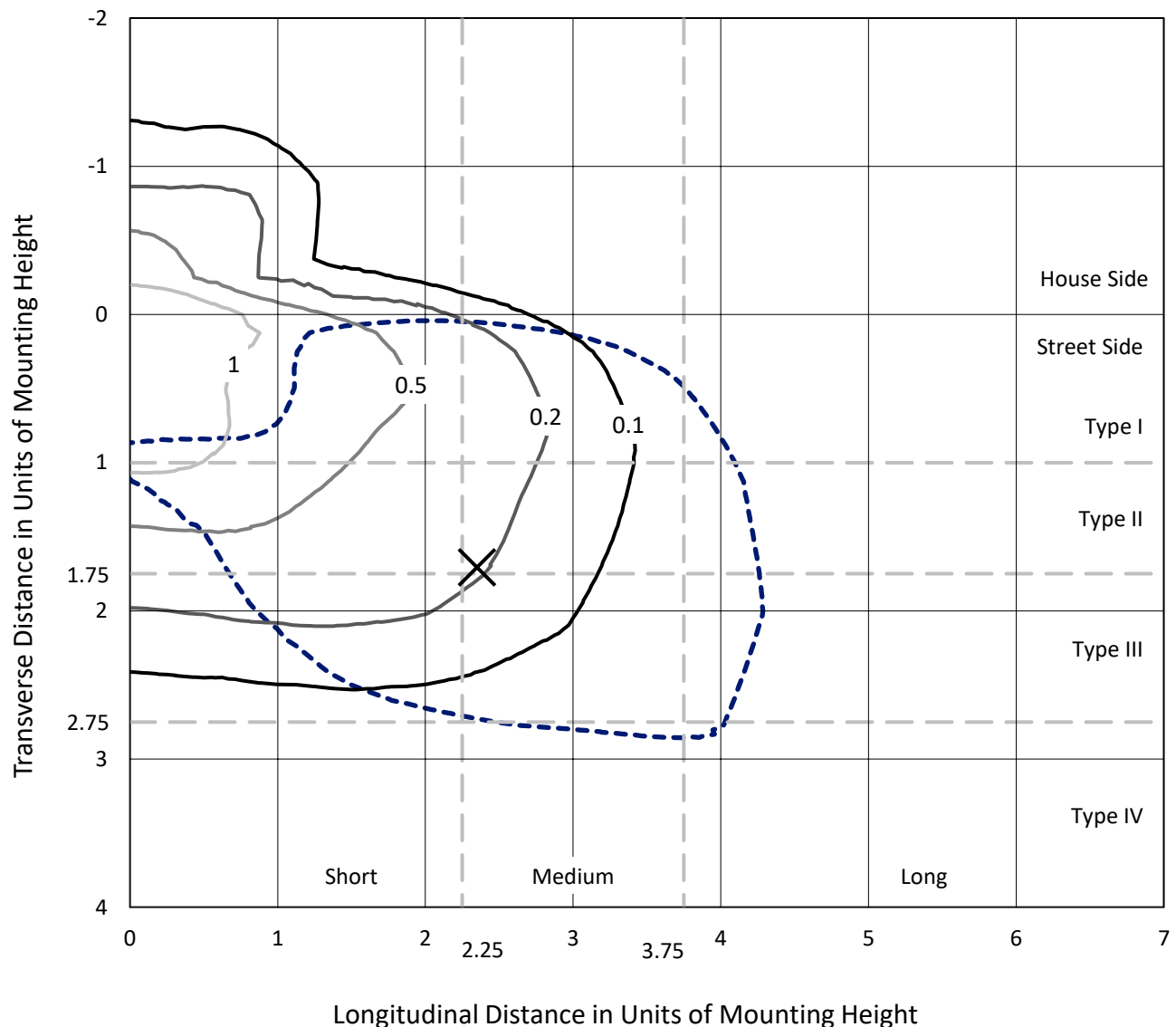


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

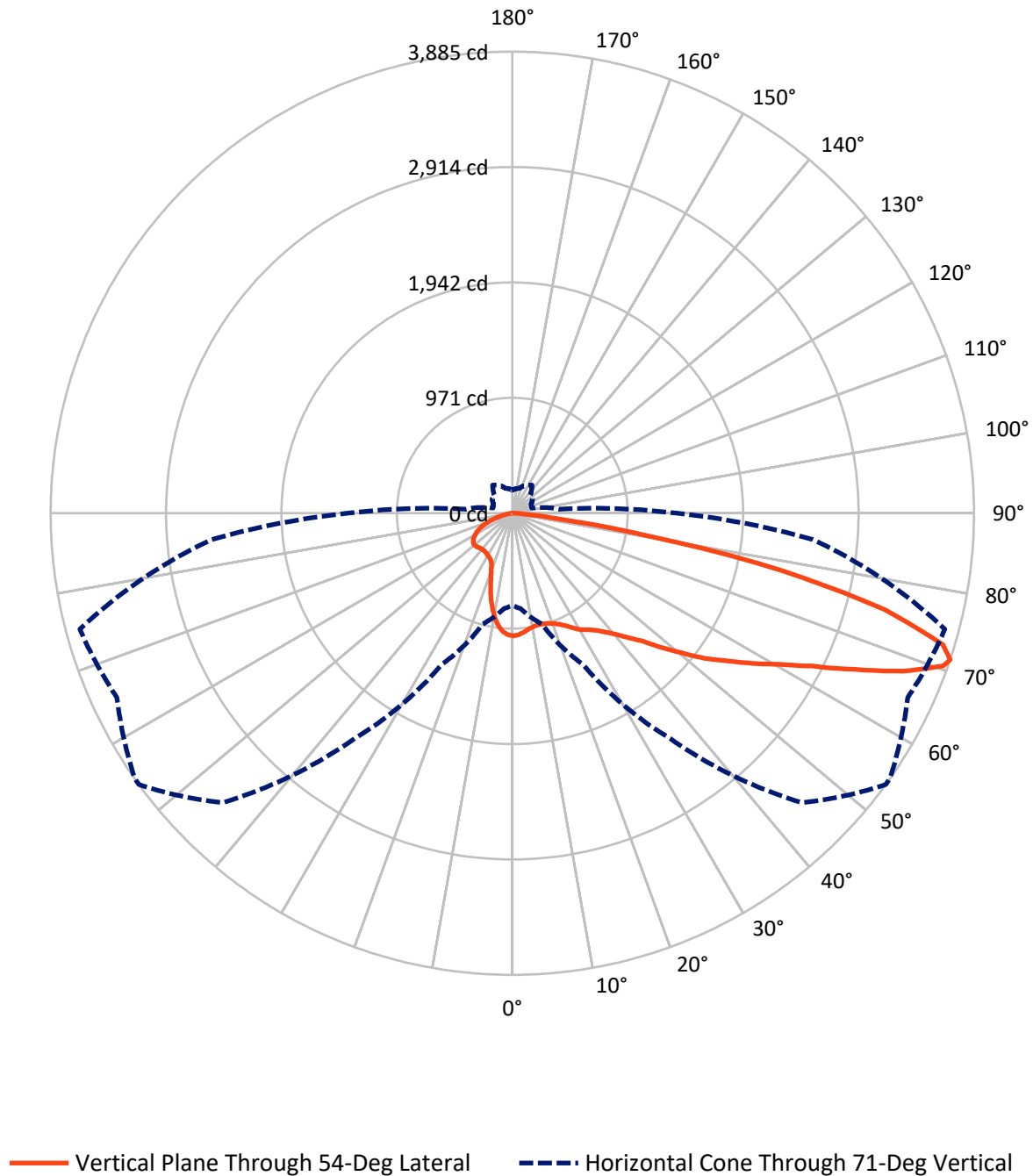


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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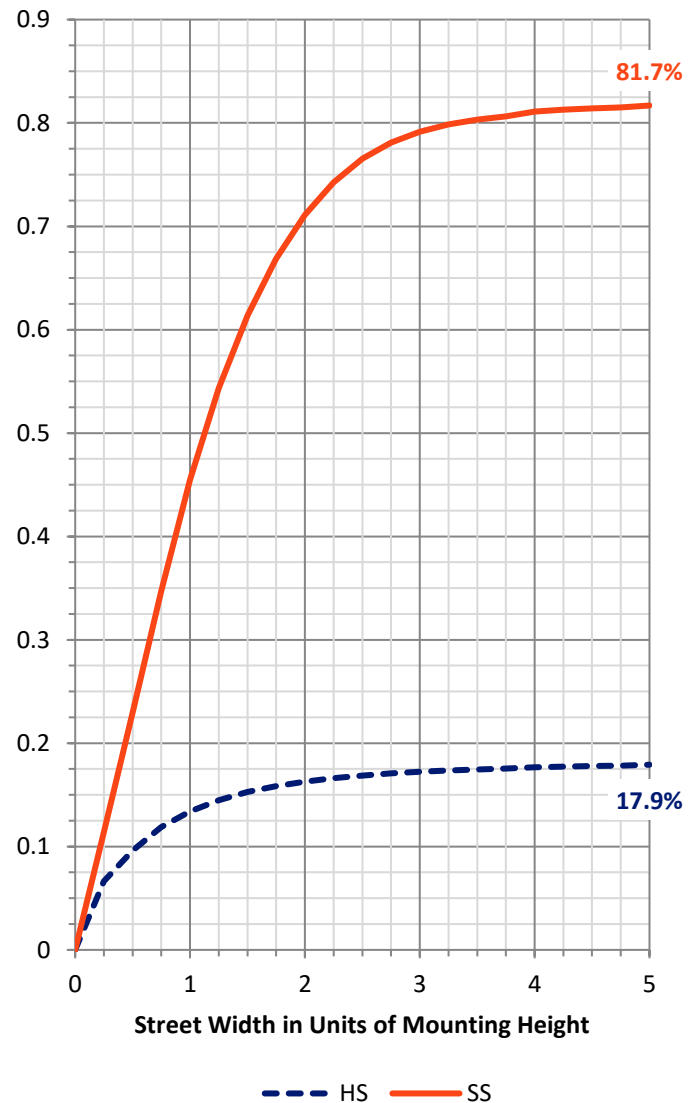
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1044.4	0.0	1044.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4740.5	0.0	4740.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	5785.0	0.0	5785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.6
10°-20°	242.9	4.2
20°-30°	404.4	7.0
30°-40°	598.0	10.3
40°-50°	842.2	14.6
50°-60°	1127.8	19.5
60°-70°	1421.5	24.6
70°-80°	970.9	16.8
80°-90°	85.4	1.5
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°	5785.0	100.0
0°-180°	5785.0	100.0

Coefficient of Utilization



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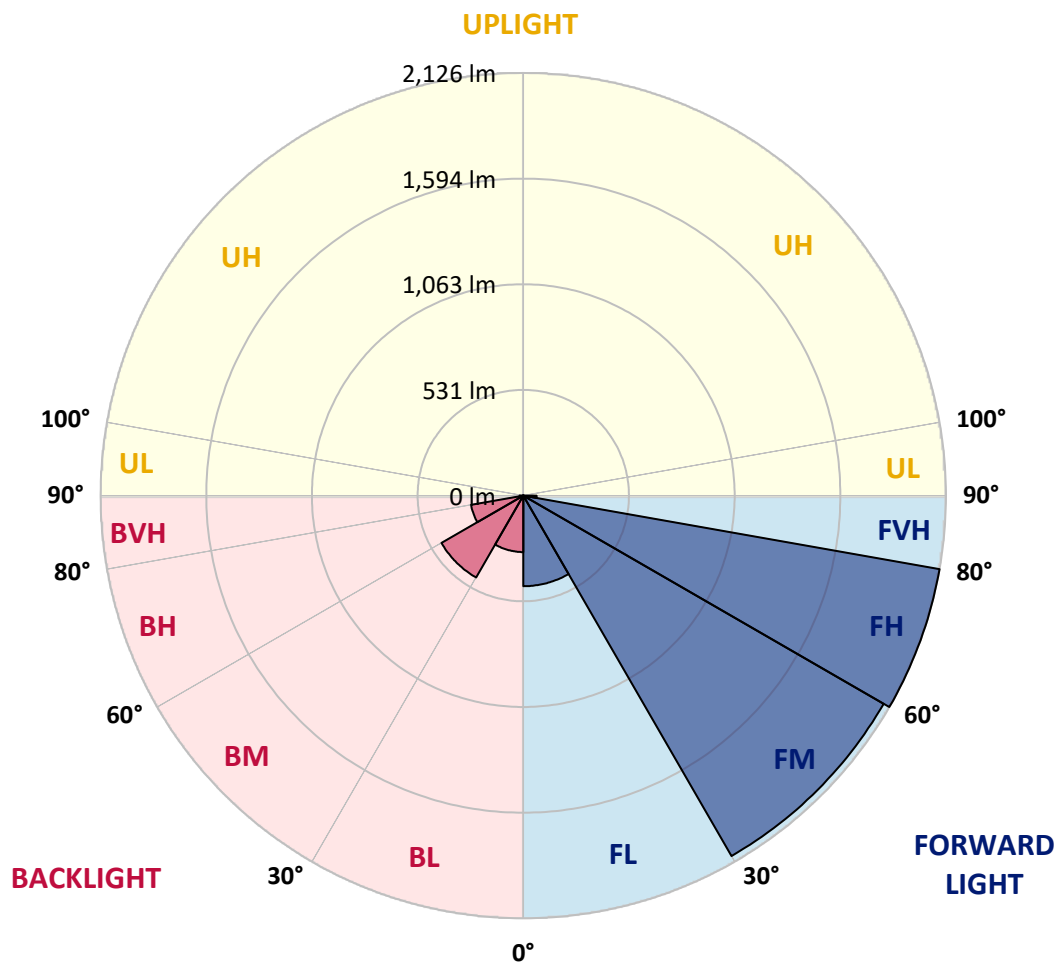
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.4	7.9			
FM	(30°-60°)	2092.8	36.2			
FH	(60°-80°)	2125.6	36.7			G2/5000
FVH	(80°-90°)	66.7	1.2			G1/100
BL	(0°-30°)	283.9	4.9	B1/500		
BM	(30°-60°)	475.2	8.2	B1/1000		
BH	(60°-80°)	266.8	4.6	B1/500		G1/500
BVH	(80°-90°)	18.6	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	997.1	1001.8	1003.1	1006.2	1012.8	1018.1	1023.4	1022.8	1030.3	1033.4	1036.2
5°	952.8	954.0	958.7	964.9	976.5	991.2	1005.6	1005.9	1024.3	1039.0	1046.2
7.5°	920.3	924.3	927.4	934.0	946.2	962.1	984.9	986.8	1019.6	1048.7	1064.0
10°	899.0	903.7	907.1	915.3	927.4	945.3	969.9	973.4	1016.2	1064.0	1090.9
12.5°	879.6	884.3	887.5	898.1	914.0	935.9	963.7	967.8	1017.4	1081.8	1120.2
15°	891.5	895.3	894.0	897.1	907.8	932.8	966.2	970.3	1022.1	1099.0	1149.3
17.5°	944.3	947.4	937.1	925.3	920.3	938.7	974.0	978.4	1031.5	1116.8	1179.0
20°	1022.1	1030.6	1008.1	981.5	957.4	959.9	990.3	994.9	1044.6	1134.6	1209.3
22.5°	1123.4	1129.6	1102.1	1058.4	1014.0	991.2	1014.6	1017.4	1064.3	1157.7	1242.4
25°	1242.4	1246.2	1208.1	1151.8	1087.8	1044.6	1048.1	1053.1	1096.8	1184.0	1271.8
27.5°	1358.0	1369.9	1325.9	1257.1	1172.7	1100.9	1094.0	1097.1	1132.1	1198.7	1292.1
30°	1495.2	1494.3	1447.7	1368.0	1259.9	1162.1	1137.4	1136.8	1151.2	1205.9	1306.8
32.5°	1604.6	1617.4	1571.8	1484.9	1359.6	1225.6	1167.4	1166.2	1165.9	1218.4	1328.7
35°	1729.0	1730.8	1689.0	1601.5	1467.4	1305.2	1209.3	1203.1	1195.9	1245.2	1358.4
37.5°	1840.2	1849.0	1810.5	1712.4	1573.3	1388.0	1266.8	1262.7	1240.9	1291.8	1405.9
40°	1927.1	1933.6	1910.5	1817.1	1677.7	1477.4	1339.9	1332.4	1305.9	1368.0	1469.3
42.5°	1955.5	1969.0	1978.0	1932.1	1797.7	1583.3	1429.9	1420.5	1400.2	1483.7	1542.4
45°	1957.7	1979.0	2026.8	2028.9	1918.3	1710.2	1534.9	1528.4	1526.8	1631.8	1645.2
47.5°	1941.1	1962.7	2043.0	2086.4	2025.8	1838.3	1686.5	1676.2	1677.1	1814.9	1760.5
50°	1901.1	1926.8	2024.3	2123.3	2109.9	1971.5	1846.5	1843.0	1862.4	2023.9	1880.2
52.5°	1825.8	1856.8	2004.9	2146.4	2172.4	2086.1	2028.3	2018.6	2067.7	2250.8	2011.1
55°	1617.4	1664.0	1934.0	2159.3	2231.7	2195.8	2192.1	2209.6	2274.6	2498.3	2155.2
57.5°	1508.7	1543.7	1779.9	2161.4	2306.7	2323.3	2383.3	2387.7	2501.4	2761.1	2318.0
60°	1449.3	1480.2	1695.5	2147.1	2411.4	2481.1	2578.9	2594.5	2723.0	3045.8	2486.7
62.5°	1397.4	1424.0	1644.9	2097.4	2529.5	2715.2	2832.3	2839.8	2974.5	3360.1	2653.3
65°	1275.2	1305.6	1543.0	2047.7	2631.4	3007.6	3168.6	3159.8	3242.3	3631.4	2757.7
67.5°	1110.6	1149.0	1352.7	1876.1	2681.7	3327.3	3547.3	3536.4	3506.7	3809.2	2787.7
70°	900.3	920.9	1109.3	1579.6	2480.8	3495.1	3846.3	3834.8	3670.4	3832.6	2645.8
71°	774.6	806.8	965.9	1403.0	2313.6	3443.9	3884.8	3881.7	3670.7	3767.9	2538.9
72.5°	604.7	624.3	765.0	1087.1	1966.5	3152.6	3789.8	3801.7	3591.0	3588.2	2318.6
75°	382.5	391.2	480.0	640.0	1079.0	2232.7	3235.1	3267.3	3188.6	2937.0	1724.3
77.5°	222.2	233.4	287.5	377.2	466.2	1211.8	2314.9	2349.9	2215.5	1617.1	705.9
80°	129.4	141.9	189.4	219.1	214.1	449.7	1178.7	1238.4	959.3	408.4	198.1
82.5°	71.9	80.3	133.1	133.4	114.1	146.9	370.9	388.1	273.7	164.7	80.9
85°	52.2	59.1	85.9	77.8	54.7	63.1	129.1	135.3	110.6	69.4	26.2
87.5°	18.4	26.2	47.2	37.5	15.0	13.1	37.2	30.3	28.1	19.4	5.9
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°	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	1037.8	1038.4	1035.3	1029.6	1024.0	1016.8	1008.7	1002.4	999.6	999.3	999.0
5°	1049.0	1050.6	1038.7	1021.2	1001.8	978.1	957.8	934.6	928.7	919.3	922.1
7.5°	1067.1	1066.2	1042.8	1005.6	960.3	909.9	867.5	842.8	817.1	810.0	810.3
10°	1093.1	1087.1	1042.8	973.7	898.1	823.4	764.0	726.5	706.2	689.3	683.1
12.5°	1120.6	1105.6	1032.8	929.0	818.1	726.5	662.8	612.2	599.0	585.3	585.6
15°	1146.8	1121.8	1013.1	866.2	731.8	623.1	561.2	530.9	526.8	528.4	528.1
17.5°	1170.6	1133.4	983.1	796.2	631.2	534.3	501.5	503.7	514.7	522.5	523.4
20°	1194.6	1140.2	938.4	702.5	536.2	480.6	481.8	499.0	515.6	526.2	527.8
22.5°	1217.4	1143.4	885.9	611.8	467.5	457.8	476.2	494.7	510.9	521.2	522.8
25°	1232.4	1136.2	811.5	517.2	433.7	449.7	469.0	484.7	498.4	509.0	511.5
27.5°	1236.5	1113.1	719.3	440.6	418.1	441.9	459.7	471.2	481.8	491.8	493.7
30°	1234.3	1079.0	618.1	395.6	409.0	432.8	446.5	455.0	467.8	475.6	477.2
32.5°	1230.9	1039.3	512.5	371.5	401.5	424.4	432.5	440.0	439.7	436.5	438.7
35°	1232.1	991.8	426.9	357.2	395.0	418.1	425.0	415.6	388.7	387.5	386.2
37.5°	1238.7	944.9	364.7	347.2	391.5	417.2	420.9	377.8	354.0	343.1	340.3
40°	1255.6	890.3	323.7	339.7	391.2	424.4	402.5	358.7	313.1	291.9	290.3
42.5°	1278.1	836.5	298.7	335.0	395.0	435.3	395.0	331.9	282.2	269.7	267.8
45°	1311.5	775.0	285.0	332.8	400.6	439.4	392.5	312.2	269.7	259.7	259.7
47.5°	1349.3	716.2	277.5	331.2	407.8	436.5	370.3	305.9	263.7	265.0	270.9
50°	1386.8	665.3	271.9	327.8	414.0	435.0	361.2	305.6	265.3	281.2	291.9
52.5°	1430.2	629.3	265.0	322.2	414.0	425.0	358.4	311.9	269.7	274.4	279.0
55°	1482.7	618.1	256.2	310.0	406.5	400.0	356.9	320.9	272.8	261.9	263.7
57.5°	1552.1	636.2	247.8	294.7	389.4	374.0	356.2	323.4	265.6	256.5	254.7
60°	1632.7	672.1	245.3	279.0	365.9	351.9	352.5	316.2	255.6	246.2	247.8
62.5°	1689.3	693.7	243.7	267.2	340.3	327.5	343.4	307.5	251.2	243.1	244.7
65°	1689.3	667.5	229.4	249.0	307.2	298.1	332.5	296.5	245.6	236.2	234.7
67.5°	1625.2	590.9	207.5	221.9	270.6	264.7	317.2	283.4	237.2	230.0	226.2
70°	1458.4	448.1	180.0	190.0	224.4	229.7	297.5	265.6	223.1	214.4	208.7
71°	1384.9	390.3	168.4	173.7	206.6	214.4	288.1	258.1	216.9	204.4	194.4
72.5°	1243.4	328.7	150.9	153.1	176.6	190.6	268.4	243.7	205.0	187.2	175.9
75°	944.6	240.0	121.6	120.3	130.6	151.2	227.2	217.2	179.7	155.6	149.1
77.5°	408.1	130.6	90.9	91.9	88.7	114.7	178.7	186.6	154.1	126.6	120.6
80°	123.7	75.3	62.2	63.4	59.4	76.9	125.9	146.2	123.7	98.4	90.3
82.5°	63.4	45.0	42.5	41.9	37.8	43.4	76.2	100.0	88.4	61.6	54.4
85°	27.5	24.1	20.9	20.3	17.8	15.6	27.2	50.0	46.9	34.4	32.8
87.5°	6.9	6.2	4.1	3.7	2.2	0.3	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)