

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: P451542

Luminaire Tested: **GALN-SA2B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9145 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

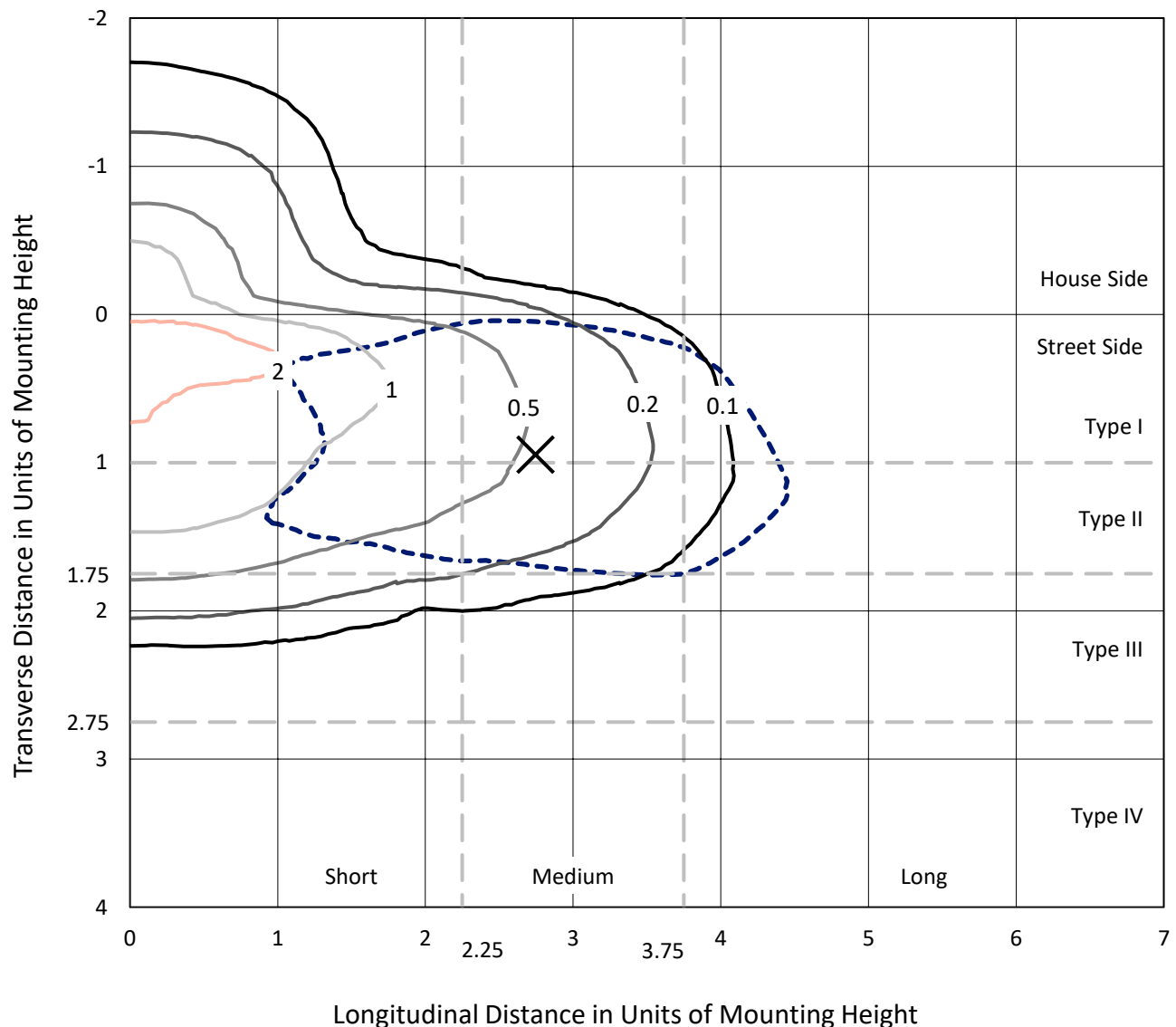


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

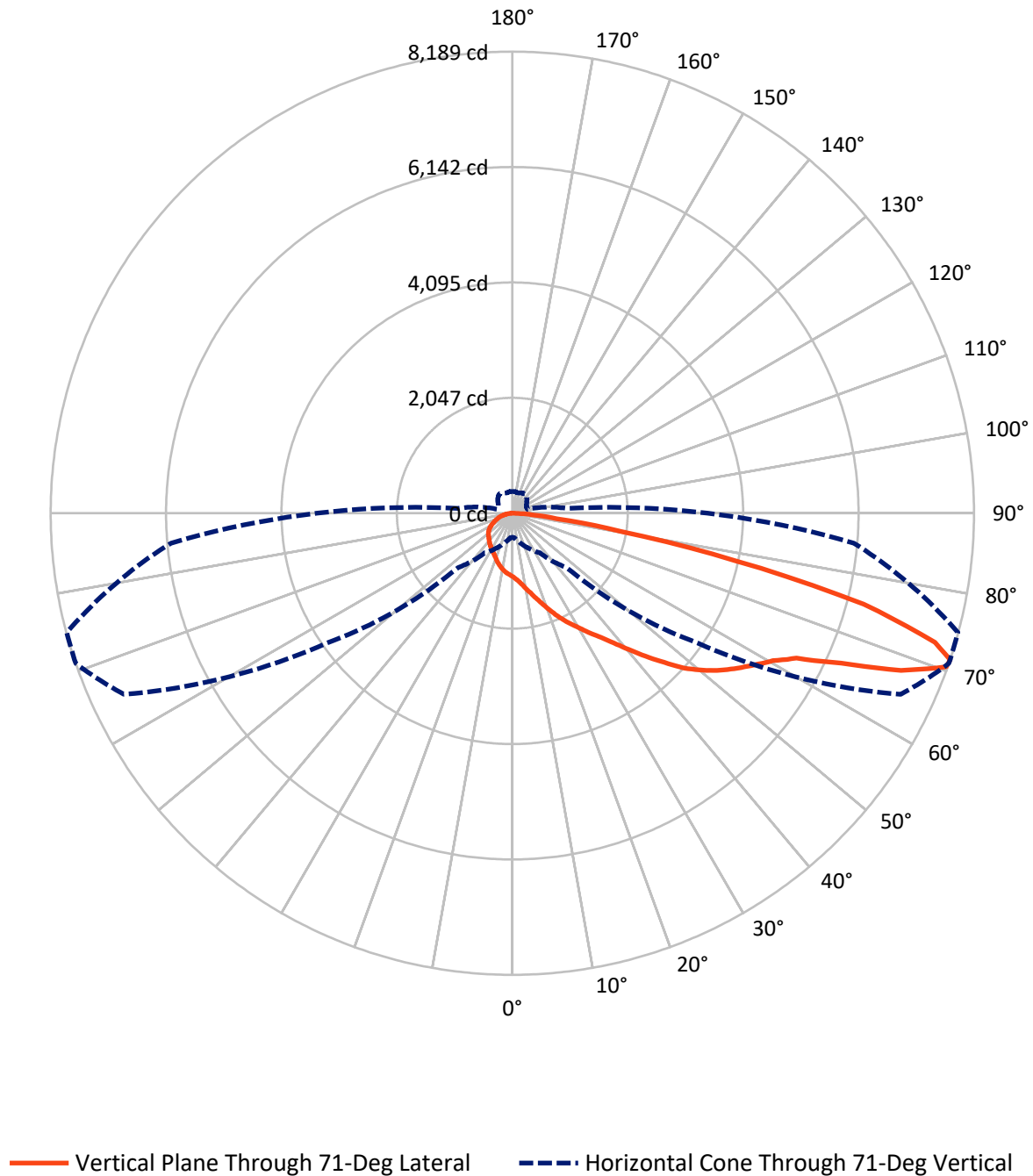


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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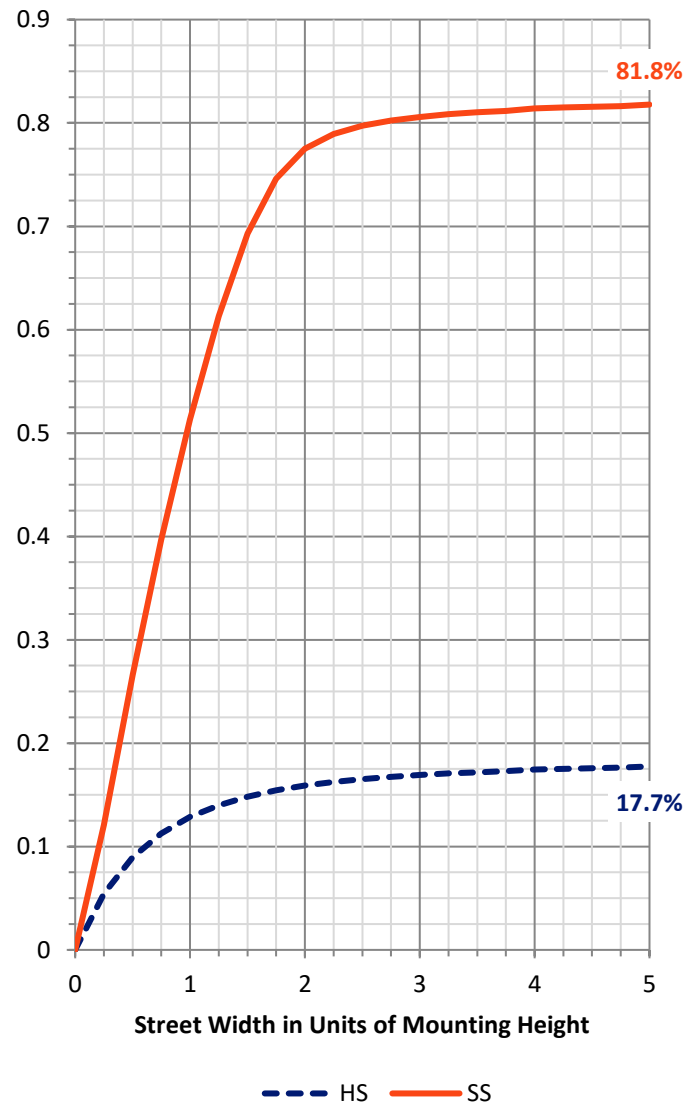
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.7	0.0	1644.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	7500.3	0.0	7500.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	9145.0	0.0	9145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.2
10°-20°	366.1	4.0
20°-30°	639.8	7.0
30°-40°	951.7	10.4
40°-50°	1402.2	15.3
50°-60°	1963.1	21.5
60°-70°	2195.6	24.0
70°-80°	1341.2	14.7
80°-90°	172.5	1.9
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°	9145.0	100.0
0°-180°	9145.0	100.0

Coefficient of Utilization



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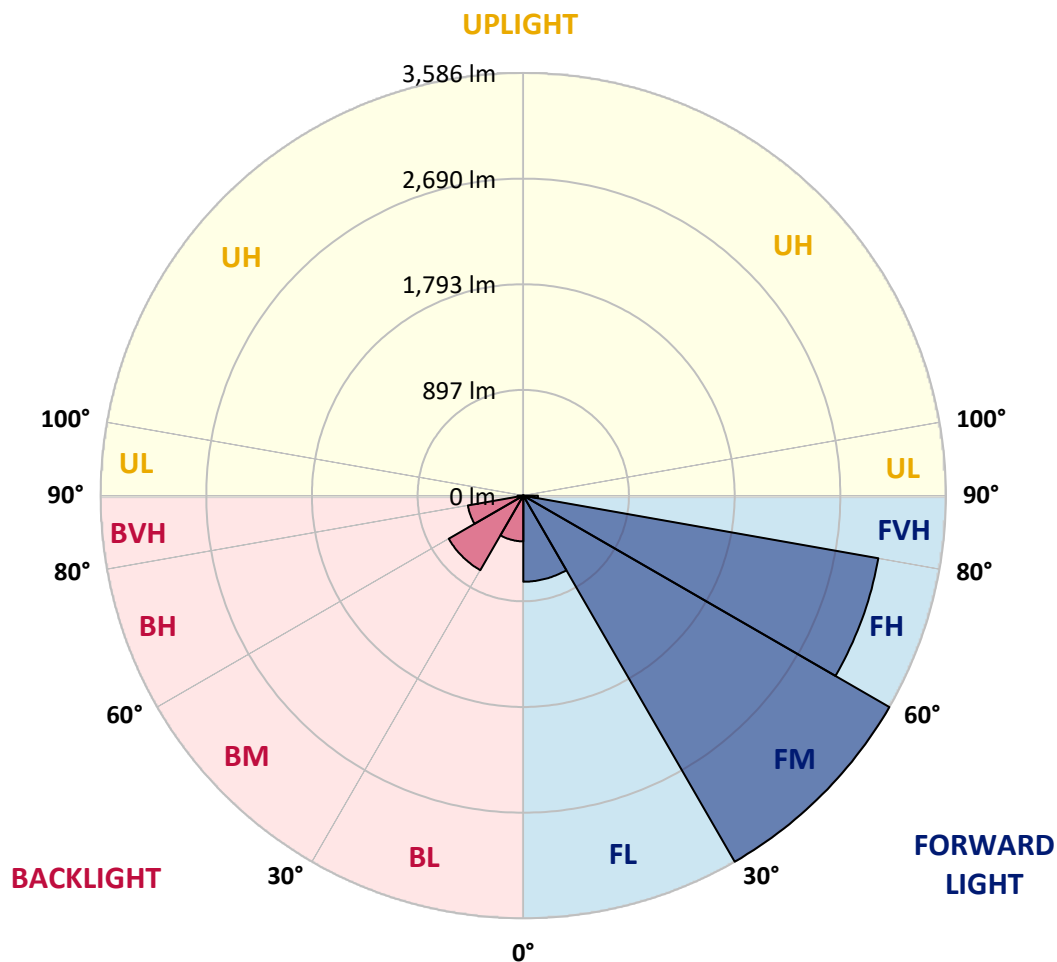
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.7	8.0			
FM	(30°-60°)	3586.5	39.2			
FH	(60°-80°)	3059.0	33.4			G2/5000
FVH	(80°-90°)	124.1	1.4			G2/225
BL	(0°-30°)	388.0	4.2	B1/500		
BM	(30°-60°)	730.5	8.0	B1/1000		
BH	(60°-80°)	477.9	5.2	B1/500		G1/500
BVH	(80°-90°)	48.4	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1246.0	1240.0	1240.5	1231.9	1220.9	1208.8	1191.7	1176.7	1164.6	1157.6	1136.9
5°	1380.7	1374.7	1367.1	1348.6	1340.5	1310.9	1273.2	1239.0	1212.8	1198.3	1157.0
7.5°	1489.8	1488.3	1486.3	1475.7	1455.1	1413.9	1381.7	1322.4	1283.7	1256.1	1185.7
10°	1557.1	1559.7	1561.2	1563.2	1554.6	1533.0	1488.8	1413.9	1364.6	1329.5	1222.9
12.5°	1591.3	1593.8	1602.4	1621.0	1632.5	1630.0	1593.8	1520.4	1452.6	1406.4	1262.6
15°	1612.4	1616.5	1631.5	1656.2	1694.9	1719.5	1701.9	1634.0	1559.7	1504.9	1309.8
17.5°	1635.6	1640.1	1656.7	1691.8	1742.6	1795.9	1815.0	1756.7	1675.8	1610.4	1362.6
20°	1648.6	1654.7	1678.3	1724.5	1783.8	1861.2	1924.6	1893.9	1805.4	1733.1	1423.4
22.5°	1669.7	1674.8	1694.9	1744.1	1815.0	1912.0	2034.1	2027.6	1949.7	1856.2	1490.3
25°	1727.0	1735.1	1745.1	1774.8	1843.1	1963.8	2125.1	2170.3	2089.4	1984.9	1551.6
27.5°	1835.1	1841.6	1841.1	1845.1	1883.8	2008.5	2204.0	2311.6	2228.2	2115.1	1610.9
30°	1958.2	1960.8	1962.8	1953.7	1962.3	2054.2	2276.4	2451.3	2367.9	2248.8	1662.7
32.5°	2108.0	2113.0	2096.0	2072.8	2065.8	2122.1	2336.2	2591.0	2533.2	2384.5	1714.0
35°	2284.9	2298.0	2263.3	2222.6	2194.0	2219.6	2416.6	2733.8	2702.6	2557.9	1781.8
37.5°	2487.0	2503.1	2470.9	2391.0	2350.3	2357.3	2521.7	2910.2	2916.8	2755.4	1882.8
40°	2652.4	2673.5	2674.5	2561.4	2499.6	2507.6	2654.9	3100.2	3175.1	2999.7	2002.0
42.5°	2761.4	2782.0	2803.7	2737.3	2672.5	2718.2	2810.2	3306.3	3465.6	3296.2	2168.3
45°	2881.1	2899.7	2911.7	2881.6	2845.4	2964.0	2997.7	3525.4	3775.2	3627.5	2350.3
47.5°	3019.8	3040.4	3052.0	3023.3	3009.7	3179.6	3199.7	3730.0	4106.0	3949.1	2551.3
50°	3204.8	3220.3	3214.3	3196.2	3193.2	3345.0	3393.7	3921.5	4378.9	4295.5	2759.9
52.5°	3435.0	3453.6	3460.1	3434.5	3422.9	3463.1	3550.1	4095.9	4627.2	4593.0	2982.6
55°	3574.2	3603.8	3703.4	3743.6	3771.2	3615.9	3718.4	4288.4	4849.9	4906.7	3221.8
57.5°	3395.8	3434.0	3656.6	3857.7	4117.5	3997.9	3957.2	4489.5	5072.5	5210.7	3508.3
60°	2960.5	2969.0	3256.0	3626.5	4149.2	4489.0	4455.3	4809.1	5313.8	5517.3	3885.8
62.5°	2053.7	2071.8	2411.1	3002.2	3758.1	4665.9	5302.7	5361.0	5659.6	5976.2	4439.2
65°	1059.0	1035.4	1344.5	1886.9	2833.3	4245.7	5989.3	6375.8	6409.5	6694.0	5218.3
67.5°	651.9	662.5	807.2	1101.8	1675.3	3085.6	5917.4	7615.8	7438.4	7575.1	5941.6
70°	489.6	502.6	602.1	753.9	1021.3	1764.2	4758.9	7916.4	8164.2	8129.0	6161.7
71°	425.7	439.3	542.8	686.1	858.0	1361.6	4009.5	7601.7	8189.3	8183.3	6078.8
72.5°	362.9	371.4	452.4	581.0	723.3	954.5	3012.2	6817.6	7840.0	8040.5	5782.7
75°	285.0	291.5	327.7	443.3	569.5	586.1	1616.5	5111.2	6439.2	6821.2	4814.2
77.5°	232.2	236.7	255.3	329.2	439.3	415.2	847.9	3326.9	4034.1	4418.6	2835.8
80°	184.5	189.5	200.5	223.2	329.2	296.0	404.6	1685.8	1948.7	1944.7	1131.9
82.5°	143.2	144.8	157.8	163.9	225.2	210.1	219.1	713.7	790.6	816.8	408.6
85°	90.5	95.0	139.7	125.7	134.7	123.1	108.1	283.5	349.3	344.3	163.4
87.5°	27.6	29.2	47.2	53.3	59.8	53.8	39.7	83.4	102.0	110.6	40.7
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°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1128.9	1123.4	1103.8	1087.7	1072.6	1056.0	1041.9	1037.9	1034.4	1032.9	1032.4
5°	1139.5	1122.9	1084.2	1052.5	1027.4	1004.3	989.7	983.1	976.6	976.6	978.6
7.5°	1154.5	1124.4	1064.6	1017.3	985.7	964.0	953.5	952.5	954.0	955.5	956.0
10°	1171.1	1123.4	1035.9	977.1	949.0	938.9	939.4	948.0	956.0	962.0	963.0
12.5°	1187.2	1117.3	1002.2	939.4	921.3	923.3	937.4	956.5	972.1	980.6	981.1
15°	1205.3	1107.8	961.5	903.7	897.7	913.3	939.4	968.6	992.2	1006.3	1007.8
17.5°	1220.4	1091.7	918.8	869.0	876.6	905.2	941.4	979.1	1007.8	1025.4	1028.4
20°	1237.5	1071.1	874.6	835.9	857.5	896.2	937.4	978.1	1007.8	1024.9	1028.9
22.5°	1251.0	1041.9	832.4	808.7	840.4	885.1	923.8	956.5	980.6	989.7	995.7
25°	1256.6	1005.3	792.6	786.6	826.8	867.0	893.2	911.8	919.3	918.3	920.8
27.5°	1253.6	963.0	758.5	769.0	809.7	838.9	852.0	850.4	836.9	824.3	830.3
30°	1241.0	912.8	729.8	750.9	787.6	803.7	801.7	782.1	756.5	732.8	734.3
32.5°	1218.4	858.5	703.2	730.3	756.5	763.5	749.9	724.3	687.6	656.9	652.4
35°	1199.3	806.7	679.6	706.7	725.3	721.8	708.7	675.5	642.4	615.2	610.7
37.5°	1196.3	762.5	656.9	680.1	690.6	685.6	669.5	641.4	629.3	608.7	606.2
40°	1212.3	731.3	633.8	651.9	656.9	652.9	635.3	619.2	630.3	625.3	625.3
42.5°	1256.1	714.7	613.2	623.8	627.8	630.8	618.2	604.7	618.2	595.1	587.6
45°	1325.4	715.2	594.6	596.1	608.2	618.7	610.2	590.1	583.0	536.8	527.8
47.5°	1427.5	732.3	579.5	570.0	591.6	609.2	597.1	568.0	536.8	506.1	500.6
50°	1546.6	763.0	566.0	542.8	569.5	597.1	588.1	553.9	521.7	503.1	499.6
52.5°	1678.8	801.7	549.4	512.7	542.3	591.6	590.1	551.9	507.7	495.1	492.1
55°	1842.1	839.9	528.8	477.5	518.2	587.1	584.6	535.3	504.6	495.6	494.6
57.5°	2032.1	895.2	499.1	441.8	490.6	568.5	562.9	525.2	494.6	488.1	487.5
60°	2338.2	981.1	456.9	409.1	462.4	535.8	542.8	508.2	478.5	477.0	476.5
62.5°	2740.8	1101.8	413.2	375.5	429.7	493.6	513.7	485.0	461.4	469.0	470.0
65°	3296.7	1203.3	367.9	346.8	393.6	452.9	486.0	463.4	442.3	456.9	456.9
67.5°	3659.1	1205.3	326.7	317.2	356.9	418.7	456.9	437.8	417.7	442.3	443.3
70°	3583.7	1056.0	292.5	286.0	321.2	382.0	424.7	409.6	386.5	408.6	400.6
71°	3462.1	973.1	279.0	273.9	307.1	364.4	409.6	397.1	374.0	388.5	384.0
72.5°	3268.1	844.9	256.8	257.8	286.0	342.3	388.5	375.5	352.3	360.4	358.9
75°	2762.4	737.9	219.6	224.2	245.8	304.6	346.3	336.3	312.6	312.6	311.1
77.5°	1727.0	515.7	182.5	185.0	208.6	260.9	297.6	289.0	266.4	258.9	256.8
80°	644.4	266.4	142.7	145.8	160.3	205.6	246.3	238.2	215.1	206.6	198.5
82.5°	243.8	133.7	105.0	102.5	118.1	156.8	193.0	183.5	165.4	144.8	138.7
85°	92.0	66.3	64.3	62.3	69.4	93.0	119.6	117.6	98.5	83.9	82.4
87.5°	24.1	21.6	25.1	18.6	19.6	17.6	18.1	7.5	3.5	1.5	1.0
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)