

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: P269087

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9420.3 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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: 25 FT

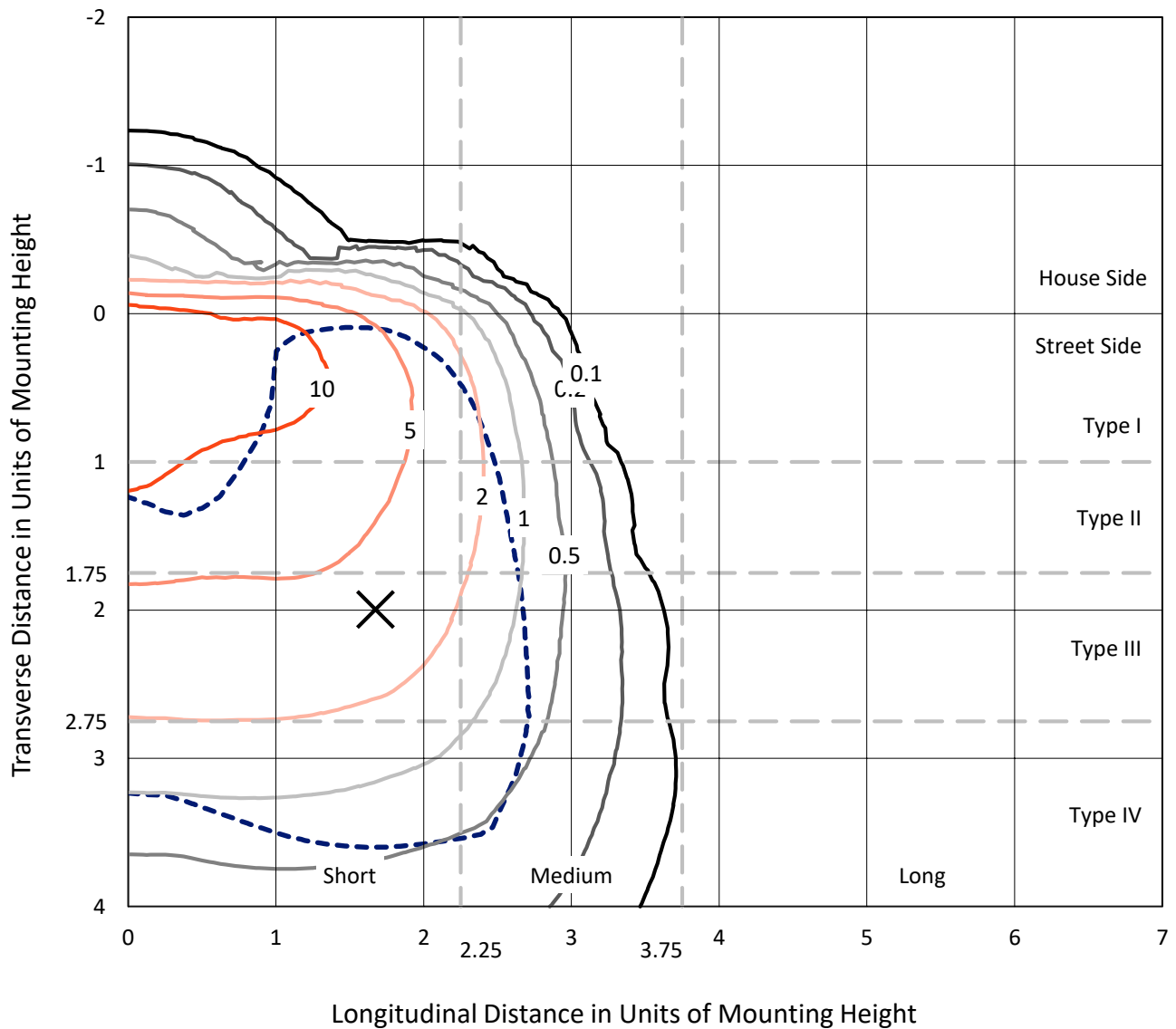


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

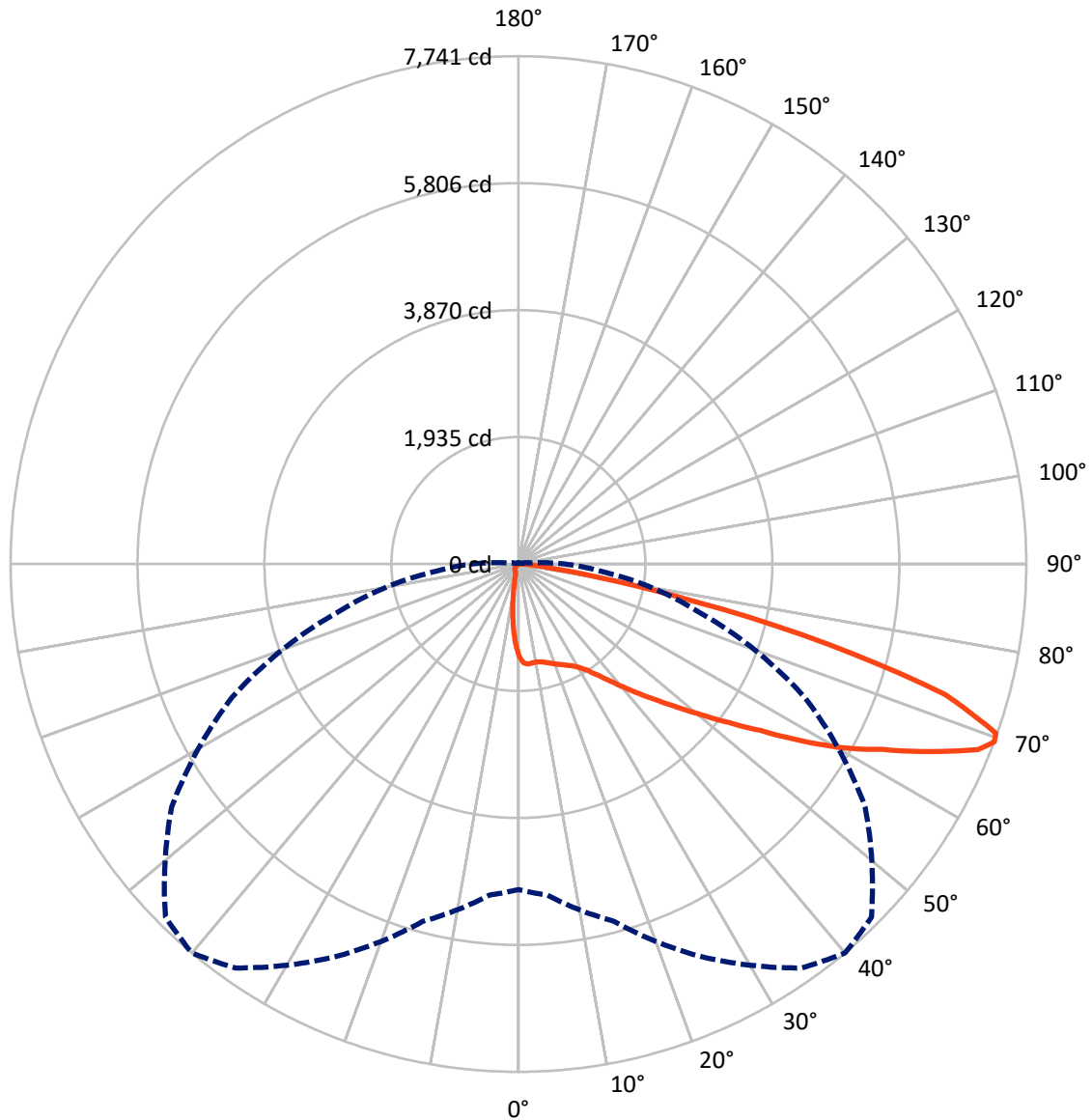


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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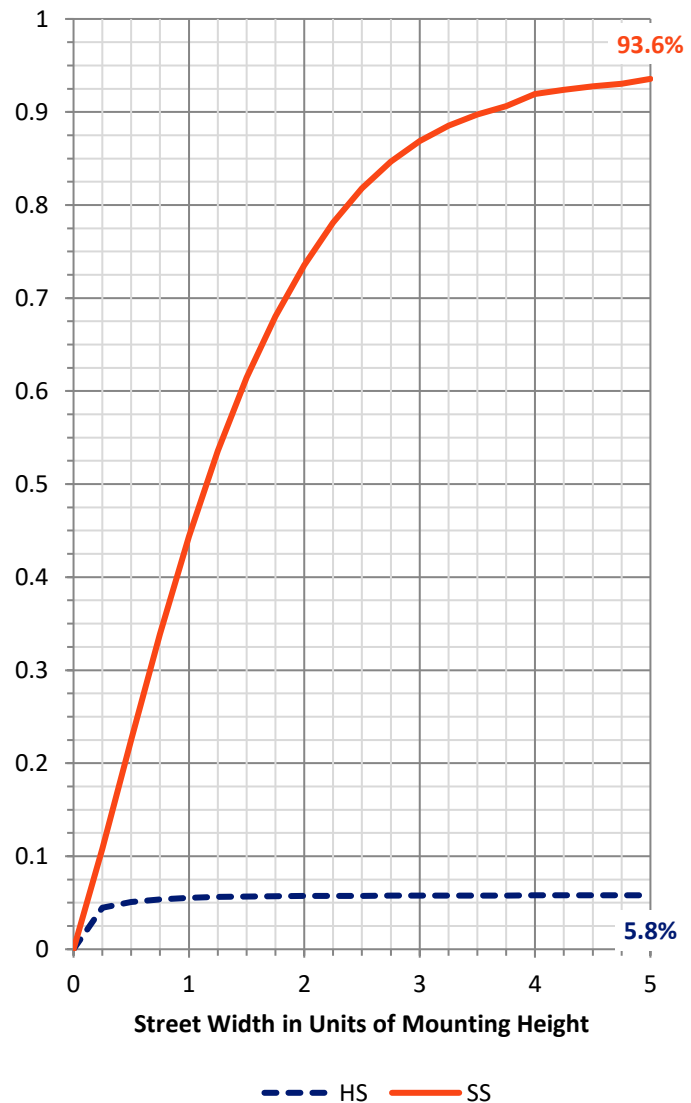
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.1	0.0	551.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8869.1	0.0	8869.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	9420.3	0.0	9420.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.2
10°-20°	280.6	3.0
20°-30°	472.7	5.0
30°-40°	773.8	8.2
40°-50°	1339.8	14.2
50°-60°	2110.3	22.4
60°-70°	2756.0	29.3
70°-80°	1419.4	15.1
80°-90°	153.5	1.6
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°	9420.3	100.0
0°-180°	9420.3	100.0



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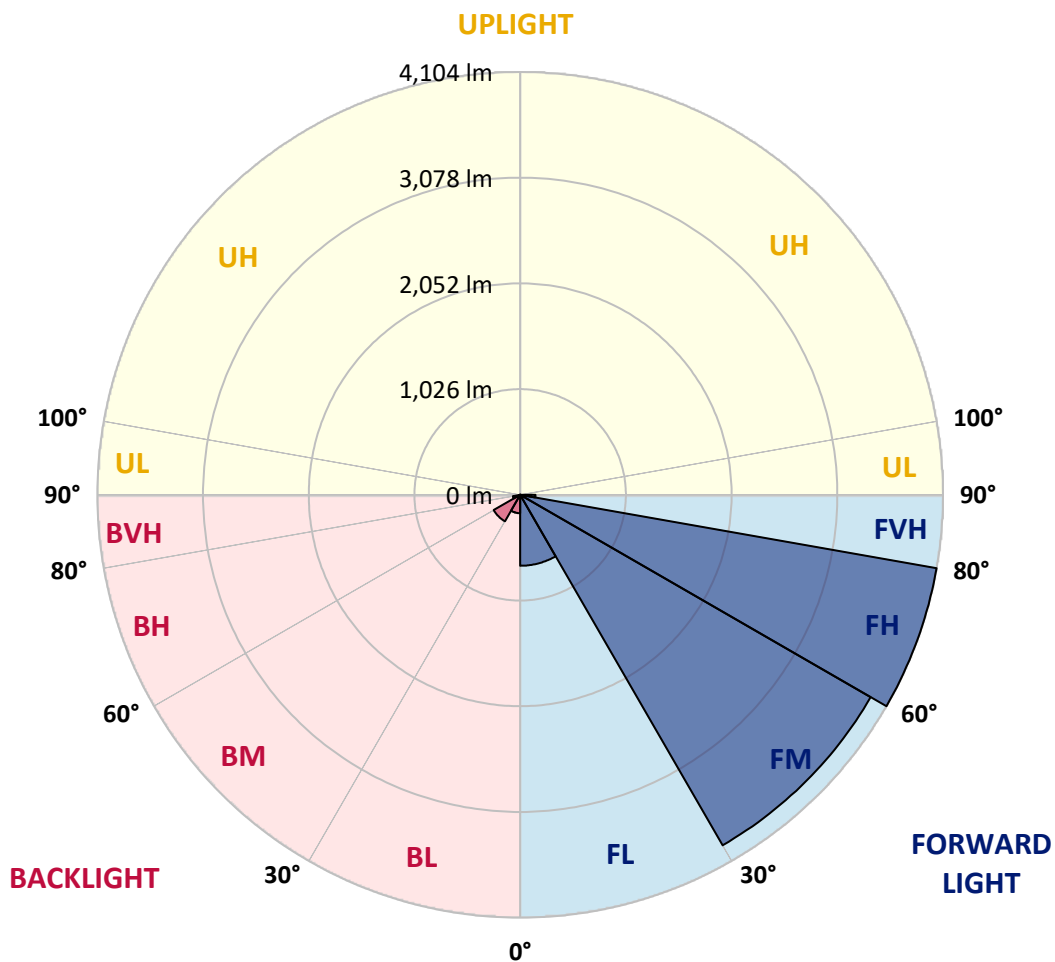
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.9	7.3			
FM (30°-60°)	3927.7	41.7			
FH (60°-80°)	4103.9	43.6			G2/5000
FVH (80°-90°)	148.7	1.6			G2/225
BL (0°-30°)	178.5	1.9	B1/500		
BM (30°-60°)	296.2	3.1	B1/1000		
BH (60°-80°)	71.6	0.8	B0/110		G0/110
BVH (80°-90°)	4.8	0.1			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1545.4	1537.0	1531.9	1525.2	1516.8	1509.5	1506.6	1485.9	1466.4	1439.4	1408.5
5°	1574.0	1571.1	1562.2	1553.2	1543.1	1531.9	1525.7	1501.1	1473.0	1433.8	1379.9
7.5°	1576.7	1573.4	1562.2	1549.8	1535.8	1522.4	1511.8	1487.1	1461.3	1421.5	1355.8
10°	1572.4	1568.4	1559.9	1546.5	1529.2	1516.2	1505.6	1482.1	1460.1	1424.3	1351.4
12.5°	1567.3	1563.3	1559.4	1552.7	1537.4	1528.6	1519.7	1497.1	1477.5	1447.3	1367.6
15°	1572.4	1570.1	1574.5	1571.8	1563.3	1555.4	1546.5	1526.3	1508.3	1483.1	1397.4
17.5°	1593.7	1593.7	1607.5	1609.4	1601.5	1590.2	1577.3	1557.1	1542.0	1520.7	1432.6
20°	1643.4	1641.8	1659.8	1663.1	1644.1	1626.7	1607.5	1583.0	1571.1	1557.8	1467.4
22.5°	1729.2	1721.4	1732.1	1728.8	1691.1	1664.3	1640.8	1610.4	1604.3	1598.1	1506.1
25°	1840.8	1836.3	1843.7	1810.7	1744.4	1707.9	1679.9	1645.8	1645.8	1652.0	1549.8
27.5°	2003.0	1986.2	1961.4	1903.1	1803.8	1757.4	1727.0	1690.6	1700.1	1723.0	1607.5
30°	2168.9	2150.5	2093.8	2004.1	1876.2	1827.4	1792.1	1754.0	1776.4	1818.4	1685.0
32.5°	2332.7	2311.9	2231.7	2118.5	1980.0	1931.1	1897.0	1854.9	1892.5	1963.2	1798.2
35°	2491.3	2472.9	2380.2	2246.8	2117.8	2077.5	2046.1	2009.7	2057.8	2156.7	1958.0
37.5°	2669.7	2649.5	2536.8	2392.0	2285.6	2256.5	2233.4	2197.0	2281.1	2425.8	2180.6
40°	2888.9	2854.6	2702.7	2558.6	2479.5	2465.6	2449.9	2444.7	2575.4	2775.7	2477.3
42.5°	3140.0	3084.1	2876.6	2734.1	2692.6	2702.7	2698.8	2721.2	2943.8	3210.7	2838.5
45°	3391.3	3319.0	3070.0	2921.4	2926.9	2962.3	2984.2	3073.9	3405.4	3709.8	3227.0
47.5°	3604.4	3533.2	3255.5	3123.9	3191.0	3260.7	3320.0	3489.9	3879.7	4201.1	3529.3
50°	3786.6	3719.3	3452.5	3346.5	3497.8	3610.0	3706.4	3958.2	4389.9	4575.0	3741.3
52.5°	3935.7	3890.9	3656.6	3601.6	3848.2	4012.5	4153.9	4455.6	4842.0	4879.0	3906.1
55°	4081.0	4049.0	3875.7	3904.9	4259.9	4483.6	4662.6	4983.2	5231.1	5132.3	4064.2
57.5°	4248.2	4218.9	4125.8	4289.5	4801.0	5082.5	5277.6	5450.8	5573.7	5391.4	4213.3
60°	4418.6	4401.8	4404.0	4716.9	5422.3	5692.5	5800.1	5845.0	5910.0	5635.3	4221.8
62.5°	4581.1	4613.2	4721.9	5192.4	6017.1	6224.6	6279.1	6323.3	6247.2	5674.1	3900.4
65°	4856.4	4908.7	5168.3	5828.8	6671.6	6893.7	6949.6	6797.7	6300.4	5173.9	3172.6
67.5°	4991.1	5086.5	5549.5	6422.1	7306.4	7553.0	7532.3	6828.6	5653.8	3945.3	2036.0
69°	4963.0	5064.6	5637.7	6603.7	7517.1	7740.9	7609.2	6451.2	4816.7	2858.0	1249.9
70°	4852.0	4954.6	5592.2	6597.1	7544.1	7721.3	7466.7	5985.2	4072.6	2089.8	781.6
72.5°	4051.9	4140.5	4964.8	5962.8	6949.6	6805.6	6246.5	4146.5	1984.4	569.2	176.1
75°	2494.1	2543.6	3562.3	4492.1	5248.9	4879.0	4161.8	2063.0	591.5	160.9	97.6
77.5°	1317.8	1340.1	1950.2	2647.8	3327.4	2753.1	2133.0	804.6	272.5	100.9	70.6
80°	778.9	795.7	1050.3	1210.6	1440.0	1202.8	852.9	494.0	195.1	63.4	62.8
82.5°	445.7	456.3	761.5	672.9	567.5	484.5	424.4	468.1	117.1	42.6	65.0
85°	163.8	165.9	428.4	511.9	337.6	200.7	210.8	388.0	31.4	26.9	51.1
87.5°	76.3	74.6	220.4	313.5	197.4	127.3	164.3	85.2	12.3	17.3	14.1
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°	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1390.7	1369.8	1332.2	1293.6	1254.4	1224.1	1194.3	1170.9	1162.9	1148.4	1149.6
5°	1347.9	1309.9	1231.3	1151.7	1068.8	1000.4	935.9	883.8	858.5	832.6	832.6
7.5°	1310.9	1255.6	1132.7	1003.1	869.1	756.5	655.0	578.7	536.6	503.1	502.4
10°	1297.0	1221.9	1050.3	864.7	678.0	524.3	403.7	326.4	286.5	260.8	259.6
12.5°	1303.1	1210.0	986.9	736.8	502.4	337.0	233.7	184.0	167.2	159.3	159.3
15°	1321.0	1206.8	923.5	611.7	354.9	210.8	155.3	141.8	140.8	140.8	140.8
17.5°	1343.0	1207.9	858.5	490.0	241.6	150.8	133.9	132.3	133.5	133.5	133.5
20°	1365.3	1208.4	788.4	377.4	170.5	131.2	126.1	125.7	126.8	126.8	127.3
22.5°	1392.8	1211.2	718.3	282.1	140.8	124.0	120.1	120.1	120.6	120.6	120.1
25°	1424.3	1216.8	645.4	209.1	128.4	118.8	115.5	115.0	115.5	115.0	114.4
27.5°	1463.5	1224.6	564.0	163.8	122.8	113.8	111.0	111.0	110.4	110.0	109.4
30°	1512.8	1233.6	472.7	139.1	117.1	109.4	106.4	106.0	105.5	104.4	104.4
32.5°	1588.1	1253.2	382.4	126.1	111.0	103.1	100.9	100.9	99.8	98.8	98.2
35°	1703.5	1291.9	301.7	118.2	104.4	96.5	93.7	93.7	92.5	91.9	91.4
37.5°	1863.4	1350.8	234.4	111.0	97.6	89.1	86.3	85.8	84.7	83.5	83.1
40°	2075.9	1423.8	184.5	104.4	90.9	81.8	79.6	78.5	76.3	74.6	74.6
42.5°	2342.7	1506.6	149.7	96.9	83.1	75.2	73.4	71.8	67.8	66.1	65.5
45°	2622.1	1581.2	126.8	88.7	75.2	68.5	67.4	64.5	59.5	57.8	57.8
47.5°	2823.4	1598.7	111.6	80.8	67.8	61.2	60.5	55.5	51.1	49.9	49.3
50°	2948.9	1564.5	99.3	72.9	61.2	54.3	52.7	46.5	43.7	42.6	42.0
52.5°	3033.5	1503.4	89.1	66.1	54.9	48.1	44.2	39.9	37.5	36.4	36.4
55°	3101.4	1416.9	79.1	59.9	49.9	43.2	37.5	34.1	32.0	30.8	30.8
57.5°	3120.4	1299.8	69.0	54.9	44.8	38.1	32.0	29.7	26.9	26.4	26.4
60°	2982.0	1088.3	61.2	48.8	40.3	33.1	28.0	25.2	22.5	21.9	21.3
62.5°	2616.9	842.3	53.8	43.2	35.4	28.6	24.2	20.8	18.5	18.5	18.5
65°	1996.3	564.7	47.2	37.5	30.8	24.2	20.8	16.8	15.7	15.7	16.3
67.5°	1194.9	307.3	40.3	32.0	26.4	20.2	17.3	14.6	14.1	14.6	14.6
69°	700.4	180.6	36.4	28.6	22.9	18.0	15.1	12.8	14.1	14.6	14.6
70°	432.4	121.7	33.6	25.8	20.8	16.3	14.1	12.3	13.5	14.1	14.1
72.5°	120.6	62.8	26.9	20.2	16.8	13.5	11.1	11.1	12.8	13.5	13.5
75°	78.5	46.5	20.8	15.1	12.8	10.7	9.5	10.7	12.3	12.8	12.8
77.5°	65.0	38.1	16.8	12.3	10.7	10.2	9.0	9.5	11.1	11.8	11.8
80°	59.5	26.9	13.5	11.1	9.5	9.0	8.4	7.8	10.2	10.7	10.7
82.5°	56.7	21.3	11.8	10.2	9.0	7.8	7.2	7.8	9.0	9.5	10.2
85°	35.4	14.1	10.7	9.5	7.8	7.2	7.2	7.2	8.4	9.0	9.0
87.5°	12.8	11.1	9.5	7.8	6.7	6.7	6.7	6.7	7.2	8.4	8.4
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)